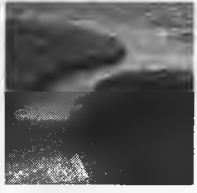
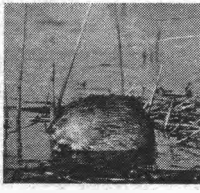


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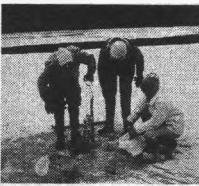
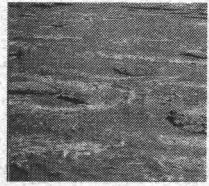
Alberta



# Northern River Basins Study



**NORTHERN RIVER BASINS STUDY PROJECT REPORT NO. 31  
STATUS AND FUTURE  
REQUIREMENTS FOR  
SOCIO-ECONOMIC RESEARCH  
AND PUBLIC COMMUNICATIONS AND  
CONSULTATIONS**



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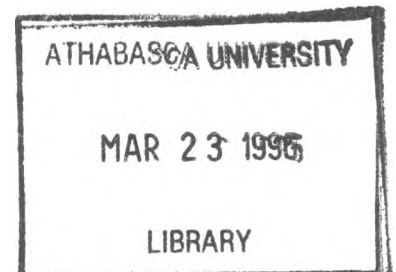
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Prepared for the  
Northern River Basins Study  
under Project 4101-B1

by  
Praxis, Inc.

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**STATUS AND FUTURE  
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Published by the  
Northern River Basins Study  
Edmonton, Alberta  
February, 1994



## CANADIAN CATALOGUING IN PUBLICATION DATA

Main entry under title:

Status and future requirements for socio-economic  
research and public communications and consultation

(Northern River Basins Study project report,  
ISSN 1192-3571 ; no. 31)  
ISBN 0-662-22039-0  
Cat. no. R71-49/3-31E

1. Environmental policy -- Alberta -- Athabasca  
River -- Citizen participation. 2. Environmental  
protection -- Alberta -- Athabasca River --  
Citizen participation. 3. Athabasca River Region  
(Alta.) -- Economic conditions. I. Praxis (Firm)  
II. Northern River Basins Study (Canada)  
III. Series

HC79.E5S72 1994      363.7'09712'32      C94-980105-4

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**PREFACE:**

The Northern River Basins Study was initiated through the "Canada-Alberta-Northwest Territories Agreement Respecting the Peace-Athabasca-Slave River Basin Study, Phase II - Technical Studies" which was signed September 27, 1991. The purpose of the Study is to understand and characterize the cumulative effects of development on the water and aquatic environment of the Study Area by coordinating with existing programs and undertaking appropriate new technical studies.

This publication reports the method and findings of particular work conducted as part of the Northern River Basins Study. As such, the work was governed by a specific terms of reference and is expected to contribute information about the Study Area within the context of the overall study as described by the Study Final Report. This report has been reviewed by the Study Science Advisory Committee in regards to scientific content and has been approved by the Study Board of Directors for public release.

It is explicit in the objectives of the Study to report the results of technical work regularly to the public. This objective is served by distributing project reports to an extensive network of libraries, agencies, organizations and interested individuals and by granting universal permission to reproduce the material.



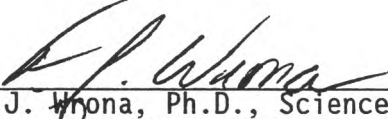
**NORTHERN RIVER BASINS STUDY  
PROJECT REPORT RELEASE FORM**

This publication may be cited as:

*Praxis, "Northern River Basins Study Project Report No. 31, Status and Future Requirements for Socio-economic Research and Public Communications and Consultation", Prepared for the Northern River Basins Study, Edmonton, Alberta, February, 1994.*

Whereas the above publication is the result of a work conducted under the Northern River Basins Study and the terms of reference for that work are deemed to be fulfilled,

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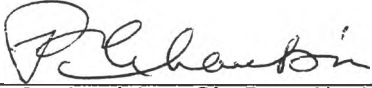
  
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(Dr. F.J. Wrona, Ph.D., Science Director)

*28 Jan 1994*  
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Whereas it is an explicit term of reference of the Science Advisory Committee "to review, for scientific content, material for publication by the Board",

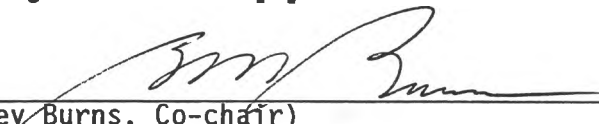
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(Dr. P. A. Larkin, Ph.D., Chair)

*28 Jan 1994*  
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(Date)

Whereas the Study Board is satisfied that this publication has been reviewed for scientific content and for immediate health implications,  
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this publication be released to the public, and that this publication be designated for: [ ] STANDARD AVAILABILITY [ ] EXPANDED AVAILABILITY

  
\_\_\_\_\_  
(Bev Burns, Co-chair)

10 February 1994  
\_\_\_\_\_  
(Date)

  
\_\_\_\_\_  
(Lucille Partington, Co-chair)

10 February 1994  
\_\_\_\_\_  
(Date)





# STATUS AND FUTURE REQUIREMENTS FOR SOCIO-ECONOMIC RESEARCH AND PUBLIC COMMUNICATIONS AND CONSULTATION

## STUDY PERSPECTIVE

The residents of the Northern River Basins Study area have a variety of concerns about the use and health of the aquatic ecosystems. The identification of basins residents and leaders with an interest in the use of aquatic resources is needed to assist in managing the cumulative impacts of future developments. Basins resident input is essential to obtaining information about the extent and relative value of different uses of aquatic resources. Of particular interest are the water quantity and quality requirements for consumptive water uses, such as town water supply and agriculture, and non-consumptive uses, like recreation and transportation.

This report identifies and verifies major water-related issues and stakeholder groups in the study area. Using minutes and transcripts of public meetings and public hearings, newspaper articles and literature from special interest groups, specific issues are identified and a preliminary framework of fourteen issue areas is developed. In addition, about 290 stakeholder organizations are identified. The report also reviews the usefulness of different research techniques and proposes a multi-tiered approach for subsequent work to determine how the stakeholders and issues are linked.

Socio-economic investigations are closely coordinated with the Traditional Knowledge Component which is gathering knowledge from all local residents who live close to the land; collection of comparable information from other residents will help to ensure that comprehensive findings are obtained. Similarly, close coordination with the Drinking Water Component assists in the evaluation of stakeholder concerns regarding human consumption of water and pre-consumption treatment methods. Coordination with the Food Chain Component helps to address concerns about the human consumption of fish and wild foods.

Effective and successful management and monitoring programs rely on the identification of basins residents concerns. This project is the initial step in planning and conducting the socio-economic research needed by the Northern River Basins Study.

### Related Study Questions

- 3) *Who are the stakeholders and what are the consumptive and non-consumptive uses of the water resources in the river basins?*
- 14) *What long term monitoring programs and predictive models are required to provide an ongoing assessment of the state of the aquatic ecosystems? These programs must ensure that all stakeholders have the opportunity for input.*
- 15) *How can the Study results be communicated most effectively?*
- 16) *What form of interjurisdictional body can be established, ensuring stakeholder participation for the ongoing protection and use of the river basins?*



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# NRBS Socio-Economic Research Strategy

## 1.0 Status of Socio-Economic Research

The initial scoping exercise identified and verified major water related issues and stakeholder groups in the study area. Using secondary sources, fourteen issue areas were identified including: agriculture, development, economic impacts, forestry, fish and fishing, natives, naturally occurring problems, public input/ studies, recreation, regulation, social impacts, water quality, water quantity, and wildlife/hunting/trapping. These issue areas were identified to be used as a framework in assisting in the organization of the information, and are by no means discreet categories. A computer database has been established to organize, search and analyze the issues and stakeholder groups.

### 1.1 List of Issues

#### Agriculture

- fencing of water bodies (riparian land rights).
- access through grazing leases by public for recreation.
- farmland drainage and erosion.
- farm water supply - quantity and quality.
- flooding.
- impact of toxic substances on farm animals.
- erosion and resulting increased flooding and erosion problems.
- drainage of wetlands and resulting problems.
- use of water below ground to irrigate drought affected farms.

#### Stakeholders:

- farmers
- grazing lease holders

#### Development

- opposition to development of any subdivisions within the Beaverlodge area because of concerns for water quality.
- industrial water use (particularly forestry and petroleum) - increasing demands on water supply, and effects of wastewater discharge on water quality.
- issues raised regarding proposed Slave River Hydro-Electric Dam: effects of changed water levels on hunting and trapping, effects of construction on wildlife, involvement in planning, all-weather road, social and community disruption, local employment and small business development, and land claims.
- protection of the Tawatinaw Valley from Al-Pac expansion.
- reaction to announcements approving Manning Diversified Forest Products' sawmill and Grande Alberta Paper mixed.
- effects of industrial development on the Peace, Athabasca and Slave River basins.
- land on north side of Slave Lake unlikely to be developed due to flooding.

- cumulative impact of development on the river system.
- impact of building a combined power/ethanol plant near Calling Lake.
- impact of ground water extension license granted to Esso Resources Cold Lake project.

Stakeholders:

- Fort McKay Indian Band
- City of Fort McMurray
- Fort McMurray Environmental Association

**Economic Impacts**

- see issues under Development, Fishing, Natives for economic implications.

**Forestry**

- toxicity and environmental chemistry of waste water from kraft pulp mills industry.
- toxins from Procter and Gamble pulp mill affecting the Wapiti River
- levels of pulp mill pollution flowing into the Athabasca River.
- concerns about the pulp mill damage to the Athabasca River.
- deterioration of the Athabasca River due to pollution from pulp mills.
- pollution of the Athabasca, Slave and Mackenzie River systems from Al-Pac dry waste site.
- impact of water quality standards in Wapiti River from Procter and Gamble's pulp mill.
- impact of pollution from Weldwood Canada's Hinton pulp mill in the Athabasca River.

Stakeholders:

- Alberta Environment Centre
- Canadian Paperworkers Union
- Grand Council of Treaty 8
- Pulp & Paper Woodworkers of Canada
- South Peace Environmental Association

**Fish and Fishing**

- effluent effects on fish in the Mackenzie Delta and subsequent effects on natives, residents and commercial fishery in Great Slave Lake.
- impact of polluted waters on fish products.
- detrimental effects of pulp mill effluent on fisheries habitat.
- impacts on fisheries from forestry.
- abundance of fish in Great Slave Lake, lack of market.
- increased algae impact on fish, creating summer kill.

Stakeholders:

- Alberta Commercial Fishermen's Association
- Fish and Game Association
- Fort Providence Dene Band
- Freshwater Fish Marketing Corporation
- Metis Association Local 51
- Trout Unlimited

**Natives**

- effect of water pollution on wild rice.
- loss of traditional fishing, hunting and trapping activities due to changes in water quality or quantity.
- key concerns are native self-determination and involvement in decision-making; recognition of native rights and holistic approach to environmental issues; educational needs; preventive programs; community water supply and sewage systems; identification of environmental impacts; reclamation and restoration projects; and funding.
- see also Fishing.

Stakeholders:

- Aboriginal Resource Development Group
- Aklavik Indian Band
- Athabasca Tribal Corporation
- Cold Lake First Nations Indian Band
- Crees from Beaver Lake, Saddle Lake, Kehewin, Onion Lake and Cold Lake
- Delta Native Fishermen's Association
- Fort Chipewyan Cree Band
- Fort McKay Indian Band
- Goodfish Lake Band
- Grand Council of Treat 8
- Janvier Indian Band
- MacKenzie Delta Tribal Council
- Métis Association of Alberta
- Mother Earth Healing Society
- Tribal Chiefs' Association

**Naturally Occurring Problems**

- poor drainage, flooding, erosion, water supply.
- flooding of the Wapiti River
- solutions needed for Pembina River flooding.
- three severe bank erosion problems identified along the Sheep River.

Stakeholders:

farmers

## **Public Input, Studies**

- deficiency of baseline data and predicted impacts of pollutants on the Peace River.
- opportunity for input on proposed water levels changes.
- Great Bear Project studying Peace-Athabasca-Slave river system and the impact of pulp mills on natives downstream from them.
- lack of authority of Northern River Basins study to restrict development along the Athabasca River.
- study requested of Northern Rivers Basin Study board on fish in Athabasca River.

### Stakeholders:

- Athabasca Health Unit
- Dunvegan North Economic Development Board
- Fairview College
- Friends of the Athabasca Environmental Association
- Hutterite Colony
- Mackenzie Regional Planning Commission
- Prosperity Environmental Association
- Town of Fairview
- Trout Unlimited

## **Recreation**

- effects of pulp mill effluent on water for recreational use and tourism.
- control of sewage from cottages.
- swimming versus speed boats.
- lack of access for recreational use.
- also affected by water quantity, water quality

### Stakeholders:

- cottage owners
- grazing lease holders
- NWT Canoeing Association

## **Regulation**

- lack of regulating bodies to enforce measures to keep the lakes clean
- Alberta needs river plan to protect "heritage rivers".
- Alberta Environment approves discharge of raw sewage from a trailer park into the McLeod River.

## **Social Impacts**

- odour in Fort McMurray's drinking water
- quality of community water supply and implications for health, security of supply, adequate distribution facilities and cost.



- the discovery of hazardous chemicals in the drinking water of residences near a gas plant in west-central Alberta is being interpreted as a warning to anyone living near an industrial area.
- dumping of raw sewage by Edson trailer court into McLeod River is polluting Whitecourt's drinking water.
- future change of High Prairie's water supply to be Peace River.
- contamination of drinking water from Suncor Inc's pipeline spill.
- impact of industrial pollution of area residents.
- Town of Spirit River is considering plumbing out beaver dams along the Spirit River to build up its water supply.
- treatment of St. Paul's treated water reservoir.

Stakeholders:

- Athabasca Health Unit
- City of Fort McMurray
- City of Yellowknife
- Fort McMurray & District Health Unit
- NWT Medical Association
- Town of Fairview
- Village of Goodsoil

## **Water Quality**

- cumulative effects of effluents on water.
- release of chlorinated organic compounds and the adverse affects on invertebrate, fish and fish eating birds and wildlife.
- bioconcentration in the food chain.
- need more information on sedimentation, deposition of chlorinated organic compounds in the Peace/ Athabasca Delta, and the quality of the water entering Wood Buffalo National Park.
- organochlorides getting into water source.
- dissolved oxygen impact on Athabasca River.
- detrimental effects of pulp mill effluent on surface water quality.
- BOD waste loading and resulting oxygen concentrations.
- effects of pulp mill effluent on underground water supplies.
- build up of toxic substances in wetland plants, muskrat and juvenile fish within perch basin and concentration in the water and sediment.
- vulnerability of ground water to contamination and quality degradation.
- contamination and pollution of surface waters from chemical and animal waste, industrial and municipal effluents, and septic tank systems.
- watershed and wetlands management as affected by land use and land management practices
- ineffectiveness of clay-lined effluent holding ponds.
- effluents leaking into groundwater and threatening the Wapiti River.
- impact of grimy water in artificial lakes containing wastes from processing oil-sands deposits should there be an earthquake or flooding on the Athabasca River.

- contamination levels measured in the ground water at the Beaver Lake landfill site.
- springs leaking mysterious gas into Thoben Lake.
- two water task force members become ill after helicopter flight over Esso retaining pond.
- recent studies on Lesser Slave Lake show a moderate to moderately high amount of nitrogen/phosphorus based material in the water.
- liver of 17 fish taken from the Smoky, Wapiti and Athabasca rivers have exceed the national consumption guidelines for dioxins and furans.
- Suncor Inc. toxic spill resulting in large number of dead fish and potential land contamination.

Stakeholders:

- Athabasca Tribal Corporation
- City of Fort McMurray
- Delta Native Fishermen's Association
- Edmonton Friends of the North
- Federation of Alberta Naturalists
- Fort Chipewyan Cree Band
- Fort McMurray and District Health
- Fort McMurray Environmental Association
- Janvier Indian Band
- Peace-Athabasca Trappers' Association
- Tawatinaw Valley Awareness Association
- Village of Goodsoil
- Voice of the Valley

### **Water Quantity**

- concern about possible construction of a dam and reservoir on the Sand River, and about lowering lake levels.
- groundwater supply - increased demands
- problems with providing an adequate farm water supply
- fear of possibility of water diversion projects from northern rivers to the south.
- water flow of Athabasca at all time low.
- water level of Lesser Slave Lake at lowest level.
- water at extreme low levels on the Athabasca and Clearwater rivers.
- effects of bog development on the water flow of the Athabasca River.
- rapid dropping of water levels in Skeleton Lake.
- study of Skeleton Lakes declining water level cancelled.
- degradation of Wood Buffalo National Park's freshwater delta, by Bennett Dam.
- flooding caused by mismanagement of WAC Bennett Dam.
- impact of BC's Bennett Dam on the Peace-Athabasca Delta.

Stakeholders:

- Alberta Wilderness Association
- Canadian Nature Federation
- International Union of the Conservation of Nature
- Summer Village of Mewatha Beach
- Village of Goodsoil

### **Wildlife, Hunting and Trapping**

- protection of Trumpet Swans, through buffers around water bodies with suitable habitat.
- also linked to native issues, impacts on Wood Buffalo National Park, water levels, water quality.

Stakeholders:

- Alberta Trappers Association
- Fish and Game Association
- Fort McMurray Trappers Association
- Peace-Athabasca Trappers Association

## **1.2 Assessment of Initial Scoping Exercise**

The Terms of Reference (TOR) for the Other Aquatic Uses Study group refers to the need to link water related issues to stakeholders. The review of secondary sources provided few instances of clear linkages between issues and stakeholders. The proposed strategy (see section 3.0) is an attempt to establish those linkages and produce socio-economic information that will be useful in the future planning and management exercises in the study area.

## **1.3 Socio-Economic Research Requirements**

Of the sixteen questions to be answered by the Northern River Basins Study, one is clearly socio-economic: "Who are the stakeholders and what are the consumptive and non-consumptive uses of the water resources in the river basins?"

In addition, many of the other questions have components that could be dealt with in the socio-economic research. For example, the first question asks "How has the aquatic ecosystem including fish and/or other aquatic organisms been affected by exposure to organochlorines or other toxic compounds?" One factor in addressing this question is human consumption of fish. Have the people who eat fish noticed changes, or changed their eating habits? This is critical if one reason for the concern for effects on fish is to protect the food supply of Northerners.

The basic socio-economic questions are:

- Who are the stakeholders?
- What demands do northern residents place on aquatic and associated resources of the mainstems and major tributaries of the Peace, Athabasca and Slave?

- What concerns do people have about these waters?

To answer these questions, Praxis needs to determine who to talk to, and what to ask. There are a great many water-related issues in northern Alberta, with many stakeholders interested in some but not all of the issues. It is not practical to talk to everyone, about all issues. The research needs to be focused, to make it effective and useful. Therefore, before a detailed research strategy can be developed, more information is needed about who cares about which issues.

## **2.0 Questions to be Answered by Study Board**

Before the Working Group can estimate the scope of the work a number of questions need to be answered by the Study Board. The following questions are essential in guiding future activities of the Other Aquatic Uses Study Group.

- What is the relationship between the Traditional Knowledge Group and the Other Aquatic Uses Working Group?
- Does the Study Board have additional concerns or issues on which the Other Aquatic Uses Working Group should focus?
- What do the other working groups want from the Other Aquatic Uses Working Group?
- What information does the Study Board want the Other Aquatic Uses Working Group to take to the public as part of the process?
- Is the Other Aquatic Uses Group responsible for developing and implementing a communications strategy and materials for use with the public and media?
- Should the Other Aquatic Uses Working Group be the interface between the Study team and the public in a manner similar to the Traditional Knowledge Working Group?

## 3.0 Proposed Research Strategy

### 3.1 Introduction and Assumptions

The following research strategy is based on the initial Terms of References developed for the Other Aquatic Uses Working Group. It is understood that the answers to the questions posed in the previous will have a bearing on the type of research that the Other Aquatic Uses Group can undertake in the future. A major assumption of this strategy is that a continuous working relationship between the Traditional Knowledge Group in particular and other Working Groups is established and that the Other Aquatic Uses Group will not deal with native related issues unless it is requested by the Traditional Knowledge Group.

As part of the scoping exercise, the Other Aquatic Uses Working Group has identified pros and cons of various research approaches. As a result we propose to use a **multi-tiered approach** to the strategy as most productive and cost effective in the Northern Alberta context.

### 3.2 Approach

#### Stage I - Stakeholder Contact

During the initial scoping exercise, secondary sources were used in combination with existing government mailing lists (from the Integrated Resource Planning Branch). Approximately 290 stakeholder organizations were identified and organized into the following categories:

- native (to be dealt by Traditional Knowledge group)
- environmental
- government
- associations
  - recreation, tourism
  - agriculture, ranching
  - fish and wildlife, trapping, hunting
  - economic associations (e.g. Chamber of Commerce)
  - community associations, citizens' groups
- companies
- other

The review of secondary sources provided very few clear linkages between issues and stakeholders. Stage One of this proposed Research strategy is to establish a complete overview of stakeholders using a telephone survey and document the results in a report.

Praxis recommends contacting all stakeholders (290) on the mailing list, using a **telephone interview format**. The purpose of the interview is to develop a profile of the stakeholder group, including who the group represents, water use, and concerns about water. This technique has a number of advantages:

- it is the most effective way of determining how the stakeholders and issues are linked;
- it is relatively low cost compared to mail questionnaires, self-administered questionnaires (pick up and drop off survey), or personal interviews;
- it is easy to administrate;
- it is a convenient and effective way to reach most of the target population;
- it is flexible; and
- it is an opportunity to introduce the NRBS.

Information to be completed during interview

- |  |   |
|--|---|
| • name of stakeholder                              | Already in database but should double check for accuracy or recent changes.   |
| • contact person                                   | same as above   |
| • full address                                     | same as above   |
| • mandate and history                              | The mandate and history will provide a context for the water use and concerns of the group.   |
| • stakeholder’s membership                         | The size of membership provides useful information on the representativeness of that particular stakeholder and the types of methodological approach(es) that could be used for collecting new data. An association posting a few hundred members poses a different set of requirements than a group made up of only a dozen individuals. |
| • water use by stakeholder, with location          | Information on water use and issues will help establish the initial link between use/issue,   |
| • stakeholder’s water-related issue, with location | stakeholder and location. This should give a more accurate picture of water use and water-related issues in the study region.   |
| • identification of new secondary sources          | gather new secondary sources not used during initial scoping exercise   |
| • who else to contact                              | This will help ensure the stakeholder list is accurate and complete.  |

### Expected Results:

- 75 to 90 percent of the stakeholders should be reached;
- will validate, clarify or raise new issues for the issue lists;
- will establish linkages between water use and issues, and stakeholders;
- will identify locations for various issues; and
- will provide information base for further research.

**Approximate Cost for Stage I     \$15-20,000**

### **Stage II - Delivery of Regional Workshops/Round Tables**

Praxis proposes to:

- organize a series of regional workshops/round tables (8-10) to discuss the issues identified during Stage I and link issues to stakeholders.
- agree on range of issues, prioritize issues based on stakeholders and geographic information
- analyze and document feedback results to communities
- develop community-based materials on effects of change to water regimes in the river basins.

**Approximate Cost for Stage II     \$50-70,000**

### **Stage III - Review of Stage I and II research results with Study Board**

Praxis proposes to review results with the Study Board, plot direction for final year(s) of the study.

**Approximate Cost for Stage III     \$5,000**

<p>It is anticipated that Stage I through Stage III can be completed during the 1994-1995 fiscal year with some possible carry-over into the 1995-1996 fiscal year depending on the timing of the Traditional Knowledge Working Group.</p>
--

## 4.0 Review of Research Techniques

To develop an appropriate set of research methodologies, a number of techniques have been listed to assess their usefulness in the NRBS context. Following is a summary of these techniques and their relevance to the proposed research strategy discussed in section 3.0

### 4.1 SURVEYS

#### RANDOM MAIL SURVEY:

**Target population :**                      • Alberta, Northern Alberta, or National, depending on the nature of the issue.

**Advantages:**                                • statistically valid data on general population  
• confidentiality / anonymity and privacy issues substantially reduced.  
• possible to use visual material if required.  
• low cost.  
• reaches out beyond the organized groups to the "unorganized public".

**Disadvantages:**                            • data collection is slow.  
• response rate is low (10%) if no follow-up. With follow-up can go as high as 40-70%.  
• insensitive to language and cultural differences.  
• information collected will be general in nature, no reliable information on population subgroups.

**Usefulness for NRBS:**                    • useful for comparing basic values and concerns of Canadians to values of more specific Northern Alberta populations. Inappropriate for identifying specific issues and concerns related to NRBS.

#### STRATIFIED RANDOM SURVEY

**Target Population:**                      • any but more appropriate when dealing with smaller sub-population groupings, i.e. specific stakeholders.

**Advantages:**                                • can customize the survey to fit the profile of the target group.  
• can produce large amount of detailed information.



**Disadvantages:**                      • probes only the concerns of specific groups and does not gather information on general population.

**Usefulness for NRBS:**                • very useful in the context of identifying and refining stakeholder-specific concerns and issues.

## 4.2 INTERVIEWS

Interviews can be informal, loosely structured discussions, or part of a survey in which the interviewer asks carefully worded pretested questions. Interviews can be an effective part of a data collection program. A series of 30- to 60-minute interviews with representatives of all key interests can provide a quick understanding of the issues, the dynamics between the interests and the intensity of their concerns. Several days of interviews can often produce an extremely large amount of information about an issue.

### TELEPHONE INTERVIEW

**Target Population:**                      • can be used to sample large or small population. With large population similar problems as with mail survey but important differences also exist.

**Advantages:**                                • it is relatively low cost compared to mail questionnaires, self-administered questionnaires or personal interviews if long distance calls are minimized.  
• it is easy to administrate, and is a convenient and effective way to reach most of the target population.  
• it is flexible (increase in detail with smaller population).

**Disadvantages:**                              • insensitive to cultural differences.  
• can be costly if long distance calls are necessary.

**Usefulness for NRBS:**                      • very useful in gathering information in a quick and relatively low cost manner (see stage one).

### FACE-TO-FACE INTERVIEWS / STRUCTURED INTERVIEWS

**Target Population:**                      • individuals selected based on particular population criteria.

**Advantages:**                                • can produce large amount of detailed information.  
• using culturally sensitive techniques can target individuals or populations otherwise overlooked in traditional survey research.

**Disadvantages:**

- confidentiality is reduced.
- can be very costly.

**Usefulness for NRBS**

- very useful in gathering detailed information on specific individuals representing key stakeholders and issues. Useful in obtaining information from individuals who feel more comfortable with verbal communication.

### 4.3 MEETINGS

#### COFFEE KLATCHES

**Target Population:**

- small group (4 to 6 individuals).

**Advantages:**

- provide an opportunity for give-and-take between the public and the agency, but in an informal atmosphere which does not encourage speech making and polarization.
- because of informal atmosphere, the public gets the feeling of knowing agency staff as people. This helps break down antagonism and stereotypes.

**Disadvantages:**

- because each coffee klatch reaches only a limited number of people, it can take a lot of coffee klatches to reach a large audience.
- are on the public's turf, and are less predictable than normal public meetings. The result is that some agency staff may feel vulnerable at the thought of informal interaction in someone's home.

**Usefulness for NRBS:**

- useful in obtaining detailed information on specific issues.

#### TOWN HALL MEETINGS

**Target Population:**

- selected communities.

**Advantages:**

- informal opportunity for community to discuss issues, voice concerns without a formal structure.
- can sensitize management to the concerns of the local community, and may lead to early identification of problems.

- can develop pattern of open communication between the agency and the community.

**Disadvantages:**

- as they do not have set agenda, they are not a suitable format for meeting on specific proposed actions or plans.

**Usefulness for NRBS:**

- not very useful in the early stages of the data collection process. Could become useful at a later stage to present to the public the information gathered so far.

## **PUBLIC MEETINGS**

**Target Population:**

- selected communities.

**Advantages:**

- formal community meetings with public making verbal presentations.
- are an effective way of exposing a large number of people to the same information, the positions of all the interests and the interactions between interests.

**Disadvantages:**

- only a few people have a chance to speak.
- meetings may be manipulated by interest groups, creating an impression of public sentiment which does not accurately reflect the feeling of the general public.
- large meetings tend to increase polarization of positions, rather than encourage negotiation of agreement.

**Usefulness for NRBS:**

- not very useful in the early stages of the data collection process. Could become useful at a later stage to present to the public the information gathered so far.

## **FOCUS GROUPS**

**Advantages:**

- provide quick way to determine what public reaction is likely to be to particular issue(s).
- are inexpensive compared to other market research and polling techniques.
- provide an impression of general public reaction, instead of just the reactions of organized groups and interests.

**Disadvantages:**

- do not have strong statistical validity, and could be misleading if there are major sampling errors.
- moderator of focus groups must be skilled at drawing out significant comments. This may require hiring an outside consultant experienced at running focus groups.

- help predict reactions, but do not substitute for discussions with the critical interest groups.

**Usefulness for NRBS:**

- during the initial data collection stage not very useful as issues are not defined well enough to provide the necessary basis for this technique to work well. Could have some value at a later stage if specific issues or concerns need to be investigated further.

**ISSUE WORKSHOPS**

**Target Population:**

- range of stakeholders.

**Advantages:**

- can generate a great deal of information.
- brings stakeholders together, can generate understanding, trust, build relationships.

**Disadvantages:**

- select group of participants.
- grandstanding and lack of focus can be dangers.

**Usefulness for NRBS:**

- very high: refines issues, provides great detail.

**4.4 OTHER**

**EXISTING DATA**

**Target Population:**

- depends on source.

**Advantages:**

- inexpensive, convenient, fast; can produce good information if relevant to current study.

**Disadvantages:**

- unlikely to be focused for current study.

**Usefulness for NRBS:**

- depends on what is available; worth examining but not expected to be highly useful.

**WRITTEN SUBMISSIONS**

**Target Population:**

- any but more useful if seeking information from large population base.

**Advantages:**

- useful in obtaining detailed information; allows individuals to make comments in a non-public forum.

**Disadvantages:**

- need to have a well trained research team to code, analyze and summarize the public's input. It can be costly.

**Usefulness for NRBS:**

- could be useful in obtaining detailed information from a broad audience but would be costly if number of submissions is high.

## **RESOURCE USE DIARIES**

**Target Population:**

- specific resource users (e.g.. native, recreation users).

**Advantages:**

- provides detailed information on use, links issues to geographic areas.

**Disadvantages:**

- expensive, time consuming; may provide unnecessary detail; quality must be carefully controlled.

**Usefulness for NRBS:**

- high if important detail cannot be obtained with other techniques.

**Table 1 Research Techniques for Reaching Various Target Population**

Target Public	Technique	Random/ non-random	Cost (High, Medium, Low)	Usefulness	Likelihood will be used (High, Medium, Low)
National	existing data	random	L	if exists, could be useful	H
	random survey	random	H	too general for the cost	L
Alberta	existing data	random	L	if exists, could be useful	H
	random survey	random	H	debatable usefulness	L
Northern Alberta	existing data	random	L	if exists, could be valuable	H
	random survey	random	H	may be valuable	M
	coffee klatches	non-random		particularly useful in small communities	H
	town hall meetings	non-random	M	may be used later in process	M
	public meetings	non-random	M	too formal	L
	written submissions	non-random	M	may be valuable	M
Stakeholders (stratified sample)	random survey	random	M	likely valuable	H
	interviews	non-random	H	very useful	H
	coffee klatches	non-random	M	likely valuable	M
	focus groups	non-random	M	may be valuable	M
	issue workshops	non-random	M	very useful	H
	written submissions	non-random	M	likely valuable	M
	resource use diaries	could be random	M	may be valuable	M

## **5.0 Database Report Generation Using OMNI**

The information gathered during the initial scoping session has been entered in a computer database using the OMNI software. The database will be used and updated on an ongoing basis throughout this process. The information generated for this report is based on the material gathered during the initial scoping exercise.

OMNI is a relational database similar to DBase in the DOS environment. The program allows for quick report generations based on key variables. For the NRBS, names of stakeholders, specific issues and issue areas were identified as key variables. Each stakeholder and issue was entered as a separate record in a sequential order. OMNI's relational capabilities allow to link records for cross-referencing purposes. It allows to select and search subsets of records, e.g. all the stakeholders who raised concerns about water quality, and generate reports based on that search.

To illustrate OMNI's capabilities, the following section provides examples of report generations.



## 5.1 Examples of OMNI Report Generation

### REPORT I: List of Stakeholders raising concerns about development

In this report format, all the stakeholders linked to the development issue area are listed including the specific issue linked to the issue area, the geographical area of concern and the source of the comment.

(Note that the number assigned on the left hand side of each record is a code used by OMNI to differentiate records from each other.)

#### Issue Areas with details

Date APR 15 93

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### Development

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#### Stakeholders:

- Canadian Nature Federation**
- 21 Logging in Wood Buffalo, impact of BC's Bennett Dam on Peace-Athabasca Delt.  
Edmonton Journal, Mar 18/92 Northern Alberta
- Alberta Wilderness Association**
- 21 Logging in Wood Buffalo, impact of BC's Bennett Dam on Peace-Athabasca Delt.  
Edmonton Journal, Mar 18/92 Northern Alberta
- Internat Union of the Conservation of Nature**
- 21 Logging in Wood Buffalo, impact of BC's Bennett Dam on Peace-Athabasca Delt.  
Edmonton Journal, Mar 18/92 Northern Alberta
- Fort McKay Band**
- 24 Impact of industrial pollution of area residents.  
Edmonton Journal, Mar 24/92 Ft. McMurray - Ft. McKay area.
- City of Fort McMurray**
- 24 Impact of industrial pollution of area residents.  
Edmonton Journal, Mar 24/92 Ft. McMurray - Ft. McKay area.
- Fort McMurray Environmental Association**
- 24 Impact of industrial pollution of area residents.  
Edmonton Journal, Mar 24/92 Ft. McMurray - Ft. McKay area.
- Internat Union of the Conservation of Nature**
- 25 Degradation of Wood Buffalo National Park's freshwater delta caused by Bennett Dam.  
Calgary Herald, Mar 31/92 Wood Buffalo National Park
- South Peace Environmental**
- 29 Northern River Basin Study could stall approval of Grande Alberta's Paper project.  
Gr. Pr. Herald, May 13/92 Northern Alberta
- Athabasca Health Unit**
- 54 Lack of authority of Northern River Basins study to restrict development along Athabasca.  
Atha. Athabaskan, Oct 26/92 Athabasca River
- Hutterite Colony (Athabasca)**
- 54 Lack of authority of Northern River Basins study to restrict development along Athabasca.  
Atha. Athabaskan, Oct 26/92 Athabasca River

## REPORT II: List of Stakeholders raising concerns about water quality

Same report format as Report I.

### Issue Areas with details

Date APR 15 93

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## Water Quality

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### Stakeholders:

- Edmonton Friends of the North**  
2      Ineffectiveness of clay-lined effluent holding ponds.  
         Edmonton Journal, Jan 3/92      Athabasca , Peace and Wapiti Rivers
- City of Fort McMurray**  
23      Slave Lake Pulp Corporation must clean up its operation after fish died in tests of effluent.  
         Edmonton Journal, Mar 24/92      Slave Lake area.
- Alberta Environment Centre**  
30      Impact of pollution from Weldwood Canada's Hinton pulp mill in the Athabasca River.  
         Edmonton Journal, Jun 7/92      Athabasca River
- City of Fort McMurray**  
36      Suncor Inc. toxic spill resulting in large number of dead fish and potential land contamination.  
         Fort McMurray Today, Jul 24/92      Fort McMurray
- Edmonton Friends of the North**  
57      New pulp mill licences have new terms: cut emissions of effluents by 54%.  
         Edmonton Journal, Nov 11/92      Northern Alberta
- South Peace Environmental**  
57      New pulp mill licences have new terms: cut emissions of effluents by 54%.  
         Edmonton Journal, Nov 11/92      Northern Alberta
- Town of Lac La Biche**  
64      Contamination levels measured in the ground water at Beaver Lake landfill site.  
         LLB Post, Dec 1/92      Lac La Biche/Beaver Lake
- Canadian Nature Federation**  
91      Air and water pollution related to forestry.  
         Forest Mgmt in Alta Rpt, 1990
- Janvier Indian Band**  
126      Detrimental effects on surface water quality and fisheries habitat.  
         ALPAC      Peace-Athabasca Basin (Janvier)
- Athabasca Tribal Corporation**  
126      Detrimental effects on surface water quality and fisheries habitat.  
         ALPAC      Peace-Athabasca Basin (Janvier)

- Athabasca Tribal Corporation**  
127 General concern.  
ALPAC Peace-Athabasca Basin
- Fort McMurray Chamber of Commerce**  
127 General concern.  
ALPAC Peace-Athabasca Basin
- Federation of Alberta Naturalists**  
127 General concern.  
ALPAC Peace-Athabasca Basin
- Fort McMurray Chamber of Commerce**  
130 Odour in Ft. McMurray's drinking water.  
ALPAC

## REPORT III: Description of Issue Areas

Provides a description of the issue areas entered so far in the database

# Issue Areas with Descriptions

Date **APR 15 93**

<b>Issue Area</b>	<b>Description</b>
<b>Agriculture</b>	Relate to water, farming or ranching. Includes controlling access to water (fencing, controlling access through grazing leases); quality and quantity of surface and ground water (for livestock and irrigation); problems like erosion and flooding and draining of wetlands.
<b>Development</b>	Includes economic implications of impacts on water and has strong links to Development, Fishing and Natives.
<b>Economic Issues</b>	Category includes the economic implications of impacts on water and has strong links to Development, Fishing and Natives.
<b>Fish and Fishing</b>	Issues include the effects of polluted water and water levels on fish and fish habitat, and the resulting impacts on native, commercial and recreational fishing.
<b>Forestry</b>	Issues in this category relate to pollution from pulp mills - the effects on waste on water quality and the resulting impacts on water users. It also includes impacts of logging on water (such as erosion).
<b>Natives</b>	Issues in this category include the loss of traditional fishing, hunting and trapping activities due to changes in water quality and quantity.
<b>Naturally Occurring Problems</b>	Naturally occurring problems include poor drainage, flooding, erosion and water supply.
<b>Public Input, Studies</b>	Issues include the need for more studies, and for public input regarding water management.
<b>Recreation</b>	Recreation issues include access to water bodies, control of sewage from cottages, and effects of water quality and quantity on water based recreation.
<b>Regulation</b>	Issues in this category include concern over inadequate regulation, and the need for a "heritage rivers" protection plan.
<b>Social Impacts</b>	The primary issues in this category are drinking water quality (and effects on health) and quantity.
<b>Water Quality</b>	There are a great many issues relating to water quality, both for ground water and surface water. Contaminants from chemical and animal waste, industrial and municipal effluents and septic tanks are all issues. Cumulative effects of pollutants, bioconcentration and effects on plants, fish, birds.
<b>Water Quantity</b>	Issues in this category include water levels of lakes, rivers and ground water; effects of dams and proposed water diversion projects.
<b>Wildlife, Hunting, Trapping</b>	Effects of water quality and quantity on wildlife are of concern, especially with impacts on natives, national parks and endangered species.

# Appendices



## APPENDIX I

### Terms of Reference for the Study

#### BACKGROUND

The Northern River Basins Study (NRBS) is a joint project between the governments of Canada, Alberta and the NWT that commenced in September of 1991. The purpose of the NRBS is "to characterize the cumulative effects of development on the water and aquatic environment of the Study areas by coordinating with existing programs and undertaking appropriate new technical studies". To undertake this study, a Study Board, Study Office and Science Advisory Committee were created.

The Study Board developed a vision statement to provide overall guidance for the various technical activities being conducted in support of the study and also identified 16 questions that will serve to focus study activities. One of these questions is:

- 3) Who are the stakeholders and what are the consumptive and non-consumptive uses of the water resources in the river basins?

Nine technical groups have since been established to address these 16 questions, and the "Use of Aquatic Resources" group is primarily responsible for developing and undertaking the research and investigations related to the use of water resources.

The Aquatic Uses Working Group is in need of a consultant to assist in the development of an overall work plan. This work plan will be the tool used to guide and monitor performance of activities related to the collection and analysis of data related to the use of aquatic resources in the Peace, Athabasca and Slave river basins. The workplan will also outline the strategies to be used in involving the public in the development and analysis of a socio-economic data base on water uses.

A preliminary view of a workplan has been prepared, and it breaks the work down into groupings that reflect various types of water use activities. An alternative approach is to identify various water management and related issues that have been raised by residents of the northern basins and to then develop a work strategy that will collect and provide the information necessary to address these issues. Given the limited financial resources for conducting these socio-economic analyses, the broad range of public interests, the number and responsibilities of various jurisdictions in the region, the variety of science-based methods that can be used to address issues, and the political sensitivity of some issues, this "issue-based" approach needs to be scoped out and developed.

There are a number of other reasons why an "issue-based" approach is required. One benefit of this approach is that it will demonstrate the linkages between a recognized issue and the data collection strategy being proposed. Such linkages must be understood if the Study Board is to understand why the various socio-economic studies are required and the nature of the trade-offs involved in selecting one research approach over another. In addition, water management issues are likely to change or evolve as the study proceeds and a flexible methodology is required to adapt to these changes.

While the overall timeline for the Northern River Basins study allows plenty of time (about two years) for collecting primary data on socio-economic issues, the overall strategy identifying and collecting this data needs to be developed within the next three months. This is partly due to the fact that any studies proposed for 1993/94 will have to be included in the upcoming budgetary process. However, the main reason is that the Science Advisory Committee for the overall study will be meeting soon and they will need to be briefed on the overall content and direction that these studies will take. This meeting is occurring at the end of January. A general overview of the research strategy needs to be developed in advance of this meeting, sometime in mid-January.

#### RESPONSIBILITIES OF THE CONSULTANT

1. Review the minutes of Study Board meetings and public meetings, plus any other printed information on water management issues in northern Alberta, to identify and describe discrete water-related issues that could be addressed as part of the Northern River Basins study. Identify and review other sources of information on water use issues. If the resulting list of issues is believed to be incomplete, it will be necessary to develop a strategy and methodology for a more comprehensive issues-scoping exercise to be undertaken later in the work program.
2. For each issue, describe the nature of each of the stakeholder group in terms of its history, size, location, special characteristics (ie. ethnicity), and relationships to other stakeholder groups. Also identify the best way of contacting the stakeholder group.
3. For each issue and stakeholder group, identify the types of information that need to be collected in future studies. Also identify a variety of approaches that could be used to collect this information (for example, surveys or focus groups) and describe the advantages and disadvantages of each approach.
4. Assist in evaluating which issues should, could or shouldn't be incorporated into the eventual work strategy. Some issues, such as forestry practices, for example, have water management implications but may fall outside the scope of the study.



5. Conduct workshops with some stakeholder groups to help scope out issues, to determine what resources or cooperation they may provide, and to help identify preferred approaches for data collection. These stakeholder groups will be identified as part of the work program.
6. Determine whether certain types of data collection techniques (ie. individual surveys) could address several types of a data requirements at the same time. For example, a survey of households could provide information on recreational uses of rivers, perceptions of domestic drinking water sources and volumes of use, water quality and adequacy of water supplies.
7. Determine potential overlaps with studies being undertaken for the other NRBS technical working groups. Certain types of technical information may be needed from these other groups as input for discussions with stakeholder groups. At the same time, these groups may be collecting data related to some types of issues (drinking water, for example) and there may be no need to conduct overlapping studies.
8. Prepare detailed descriptions of each of the various data collection programs that need to be undertaken to address the selected issues for the various stakeholder groups. These descriptions should identify the types of information required, the list of people/groups to be contacted, the method of contact, preferred timing and sequencing with other studies, the cost, possible problems or concerns, and an assessment of the success of the approach.
9. In consultation with members of the working group on aquatic uses, the proposed data collection studies will be evaluated, leading to development of the final study design. Where appropriate, the consultant may assist in the development of terms of reference for individual studies which may be contracted out to other consultants.

This work program would be carried out in two stages. The first stage would address items 1 through 5 above. This stage needs to be completed by January 27 as a general description of the issues to be addressed by the Working Groups and the types of studies required needs to be submitted to the Science Advisory Committee.

Pending successful completion of this first stage, items 6 through 9, plus additional work on the other items, would be completed by March 31, 1993.

It is intended that the consultant to be used for this assignment will have an important role in helping develop the work program required to support the socio-economic components of the NRBS overall for the technical working group. For this reason, expertise in issues scoping and the design and implementation of methods for the collection of socio-economic information is important. As the emphasis for the whole Northern River Basins Study is "sound" science, the consultant should be a recognized leader in the theory and practice of the appropriate social sciences.



## APPENDIX II

### List of Secondary Sources Used during Initial Scoping Exercise

#### Minutes and Transcripts of Public Meetings and Public Hearings

- The Alberta-Pacific Environment Impact Assessment Review Board - Volume III - Issues, Alberta-Pacific Public Hearings Transcript Summaries. (note that these are the issues identified during the actual hearings or meetings, not the final reports);
- Cold Lake IRP - Public Comments, March 1991;
- Lakeland IRP, 5 year review, Public Input Summary, September, 1990;
- Athabasca River Sandhills LIRP, Round Table Summary for the Draft Plan, October 1991;
- Grande Prairie County West LIRP, Public Input Summary for the Draft Plan, August 1990.

#### Newspapers

The review of newspapers include articles published in the last year.

Athabasca Advocate	Athabasca Athabaskan
Barrhead Leader	Beaverlodge Advertiser
Bonnyville Nouvelle	Cold Lake Courier
Drayton Valley Western Review	Edson Leader
Edson Rep	Elk Point
Fairview Post	Falher Express
Fort McMurray Express	Ft. Vermilion Northern Pioneer
Grand Centre/Cold Lake Sun	Grande Cache Mountaineer
Grande Prairie Peace Country Extra	Grimshaw Mile Zero News
High Level Echo	Hythe Headliner
Hinton Parklander	Jasper Booster
Lac La Biche Post	Manning Banner Post
Mayerthorpe	Peace River Record-Gazette
St. Paul Journal	St. Paul Producer
Slave Lake Leader	Slave Lake Scope
Smoky Lake Signal	Swan Hills Gazette
Fort Chipewyan Journal	Fort Smith Journal
Slave River Journal	Valleyview Views
Westlock Hub	Whitecourt News
Edmonton Journal	Calgary Sun
Globe & Mail	Grande Prairie Tribune
Fort McMurray Today	

## Newsletters

Friends of the Peace  
Health Unit Association of Alberta  
Pembina Agriculture Protection  
Peace Valley Environmental Assoc.  
Ducks Unlimited Canada  
Federation of Alberta Naturalists  
Canadians for Responsible Northern  
Development

Friends of the Slave  
Peace River Stockgrowers  
The Mirror - Northern Report  
Alberta Trappers Association  
Edmonton Friends of the North  
Friends of the Athabasca  
Fort Assiniboine District Environment  
Action Association

## Other Related Documents

- Forest Management in Alberta, Report of the Expert Review Panel, 1990.
- Interim Report, Social and Community Studies, Slave River Hydro-Electric Feasibility Study, 1980.
- Water in Northern Alberta, Conference Report, Grande Prairie Nov. 4-6, 1987. Northern Alberta Development Council.
- Inventory of Water Related Complaints on the Athabasca River Basin, Athabasca River Basin Planning Program, March 1988.

## Appendix III

### List of Stakeholders (OMNI generated)

(Note that the number assigned on the left hand side of each record is a code used by OMNI to differentiate records from each other. The list is presented in alphabetical order)



**Date DEC 17 93**

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- 160 **343112 Alberta Ltd.**  
Alvin Herhberger, Owner  
CALLING LAKE AB T0G 0K0  
Attn: Alvin Herhberger
- 150 **4-K Enterprises Ltd.**  
185 Oaks Bay  
FT. McMURRAY AB T9K 0P0  
Attn:
- 235 **A.N.D.C. Board Metis Local 334**  
Joan Tornberg, President  
Box 5867  
FT. McMURRAY AB T9H 4V9  
Attn: Joan Tornberg
- 1 **Agricultural Development Committee**  
G. Berger - Athabasca #12 &ID  
Box 480, Provincial Building  
ATHABASCA AB T0G 0B0  
Attn: Gary Berger
- 7 **Agriculture Service Board, City of**  
Arnold Baker  
Box 540  
ATHABASCA AB T0G 0B0  
Attn: Arnold Baker
- 291 **Aklavik Indian Band**  
Attn:
- 13 **Alberta Assn. of Agriculture Societies**  
9th Floor, 9718 - 107 Street  
EDMONTON AB T5K 2C8  
Attn:
- 2 **Alberta Canoe Association**  
2619 - 63 Avenue S.W.  
CALGARY AB T3E 5J6  
Attn:
- 146 **Alberta Energy Company**  
10707 - 100 Avenue  
EDMONTON AB T5J 3M1  
Attn:
- 303 **Alberta Environment Centre**  
Attn:





**Date DEC 17 93**

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- 10 **Alberta Pesticide Action Network**  
10511 Saskatchewan Drive  
EDMONTON AB T6E 4S1  
Attn:
- 16 **Alberta Snowmobile Association**  
Glen Kingdon, President  
Box 1914  
WHITECOURT AB T0E 2L0  
Attn: Glen Kingdon
- 5 **Alberta Trappers' Association**  
Dwight Smith  
Box 711  
BEAVERLODGE AB T0H 0C0  
Attn: Dwight Smith
- 6 **Alberta Trappers' Association**  
Richard Diesel, Director  
Box 351  
LAC LA BICHE AB T0A 2C0  
Attn: Richard Diesel
- 11 **Alberta Trappers' Association**  
Jim Rogers, Representative  
7209 Railway Avenue  
FT. McMURRAY AB T9H 1B8  
Attn: Jim Rogers
- 12 **Alberta Trappers' Association**  
Roger Lee  
Box 34  
DIXONVILLE AB T0H 1E0  
Attn: Roger Lee
- 17 **Alberta Trappers' Association**  
Mr. Mark McQuat, Director  
P.O. Box 1898  
HIGH LEVEL AB T0H 1Z0  
Attn: Mark McQuat
- 18 **Alberta Trappers' Association**  
William Chrusch - Local 1010  
Box 1222  
ATHABASCA AB T0B 0B0  
Attn: William Chrusch
- 19 **Alberta Wilderness Association**  
c/o Vivian Pharis, AWA Office  
455 - 12 Street N.W.  
CALGARY AB T2N 1Y9  
Attn: Vivian Pharis

**Date DEC 17 93**

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- 25 **Alberta Wilderness Association**  
Matt Fairbarns  
6635 - 180 Street  
EDMONTON AB T5T 2A3  
Attn: Matt Fairbarns
- 15 **Alta. League for Environ. Responsible Tourism**  
4th flr., 4943 Ross Street  
RED DEER AB T4N 1X8  
Attn:
- 247 **Anzac Citizen's Association**  
Box 5041  
FT. McMURRAY AB T9H 3E2  
Attn:
- 236 **Association of Uspeyimoowin of Loon**  
Paul Letendre, president  
General Delivery  
RED EARTH CREEK AB T0G 1X0  
Attn: Paul Letendre
- 31 **Athabasca Agriculture Development**  
Lorne Cole, Secretary  
Box 480  
ATHABASCA AB T0G 0B0  
Attn: Lorne Cole
- 23 **Athabasca Chamber of Commerce**  
Town of Athabasca  
Box 300  
ATHABASCA AB T0G 0B0  
Attn:
- 242 **Athabasca Chipewyan Band**  
Tony Mecredi, Chief  
Box 366  
FORT CHIPEWYAN AB T0P 1B0  
Attn: Tony Mecredi
- 20 **Athabasca Fish & Game Association**  
Box 1926  
ATHABASCA AB T0G 0B0  
Attn:
- 305 **Athabasca Health Unit**  
Attn:

**Date DEC 17 93**

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- 248 **Athabasca Native Development Corporation**  
209, 9714 Main Street  
FT. McMURRAY AB T9H 1T6  
Attn:
- 237 **Athabasca Tribal Corporation**  
President  
9206 McCormick Drive  
FT. McMURRAY AB T9H 1C7  
Attn:
- 158 **BP Canada Inc.**  
R.W. Mitchell  
333 - 5 Avenue S.W.  
CALGARY AB T2P 3B6  
Attn: R.W. Mitchell
- 243 **Batt Settlement Recreation & Cultural Assn.**  
Box 272  
HIGH LEVEL AB T0H 1Z0  
Attn:
- 165 **Battle River Regional Planning Commission**  
5014 - 48th Avenue  
WETASKIWIN AB T9A 0M9  
Attn:
- 249 **Beaver First Nations**  
Harvey Bulldog, Chief  
Box 270  
HIGH LEVEL AB T0A 2C0  
Attn: Harvey Bulldog
- 238 **Beaver Lake Band**  
Alphonse Lameman, Chief  
Box 960  
LAC LA BICHE AB T0A 2C0  
Attn: Alphonse Lameman
- 169 **Bissell Brothers Lumber Ltd.**  
General Delivery  
ENILDA AB T0G 0W0  
Attn:
- 118 **Blake Resources Ltd.**  
Box 432  
HIGH LEVEL AB T0H 1Z0  
Attn:

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124 **Blue Sky Oil & Gas Ltd.**  
Box 29  
KEG RIVER AB T0H 2G0  
Attn:

113 **Boucher Bros. Logging**  
Box 3150  
PEACE RIVER AB T0H 2X0  
Attn:

161 **Bow Valley Industries**  
Richard Alligos, Operator  
WANDERING RIVER AB T0A 3M0  
Attn: Richard Alligos

175 **Buchanan's Lumber**  
General Delivery  
HIGH PRAIRIE AB T0G 1E0  
Attn:

244 **Cadotte lake Community Associatoin**  
Russell Noskey, president  
Box 5281  
PEACE RIVER AB T8S 1R9  
Attn: Russel Noskey

250 **Calling Lake Community Association**  
Clifford Cardinal, President  
General Delivery  
CALLING LAKE AB T0G 0K0  
Attn: Clifford Cardinal

26 **Campbell Creek Grazing Association**  
Alex Cameron  
RR #2  
GRANDE PRAIRIE AB T8V 2Z9  
Attn: Alex Cameron

32 **Canadian Forest Products Association**  
Chris Anderson  
Postal Bag 100  
GRANDE PRAIRIE AB T8V 3A3  
Attn: Chris Anderson

117 **Canadian Forest Products Ltd.**  
P.O. Bag 100  
GRANDE PRAIRIE AB T8V 3A3  
Attn:

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- 21 **Canadian Nature Federation**  
Box 8544, Station "L"  
EDMONTON AB T6C 4J4  
Attn:
- 27 **Canadian Petroleum Association**  
3800, 150 - 6 Ave. S.W.  
CALGARY AB T2P 3Y7  
Attn:
- 33 **Canadian Water Resources Association**  
National Office  
334 - 12 Street North  
LETHBRIDGE AB T1H 2R8  
Attn:
- 22 **Canadians for Resp. Northern Development**  
11911 University Avenue  
EDMONTON AB T6G 1Z6  
Attn:
- 130 **Canfor**  
Box 150  
HINES CREEK AB T0H 2A0  
Attn:
- 136 **Canfor**  
Box 749  
HIGH LEVEL AB T0M 1Z0  
Attn:
- 164 **Canfor**  
Postal Box 100  
GRANDE PRAIRIE AB T8V 3A3  
Attn:
- 28 **Canoe & Kayak Club**  
Donald Morse, Chairman  
10926 - 88 Avenue  
EDMONTON AB T6G 0Z1  
Attn: Donald Morse
- 119 **Cargill Grain Co. Ltd.**  
General Delivery  
GRIMSHAW AB T0H 1W0  
Attn:
- 125 **Chieftan Development Co. Ltd.**  
General Delivery  
KEG RIVER AB T0H 2G0  
Attn:

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142 **Chinook Lumber Ltd.**  
General Delivery  
KEG RIVER AB T0H 2G0  
Attn:

29 **Chinook Valley Recreation Association**  
F. Stephenson  
Box 176  
GRIMSHAW AB T0H 1W0  
Attn: F. Stephenson

171 **City of Fort McMurray**  
Manager  
9909 Franklin Avenue  
FT. McMURRAY AB T9H 2K4  
Attn:

177 **City of Grande Prairie**  
Manager  
Postal Bag 4000, 9905 - 106 St  
GRANDE PRAIRIE AB T8V 2C5  
Attn:

239 **Cold Lake First Nations**  
Baptiste Blackman, Chief  
Box 1769  
GRANDE CENTRE AB T0A 1T0  
Attn: Baptiste Blackman

166 **County of Athabasca, #12**  
Box 540  
ATHABASCA AB T0G 0B0  
Attn:

301 **County of Flagstaff**  
Attn:

172 **County of Grande Prairie (1)**  
8611 - 108 Street  
GRANDE PRAIRIE AB T8V 4C5  
Attn:

156 **Cree Chip Development Corporation**  
Oliver Glanfield  
Box 58  
FT. CHIPEWYAN AB T0P 1B0  
Attn: Oliver Glanfield

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- 147 **Crestbrook Forest Industries Ltd.**  
Bob Ruault  
#1840, 10123 - 99 Street  
EDMONTON AB T5J 3H1  
Attn: Bob Ruault
- 151 **Daishowa Canada**  
T. Hamaoka  
P.O. Bag 6500  
PEACE RIVER AB T0H 0X0  
Attn: T. Hamaoka
- 35 **Deadwood Recreation Society**  
c/o Deadwood Post Office  
DEADWOOD AB T0H 1A0  
Attn:
- 24 **Delta Roughriders**  
Michael Cardinal  
Box 181  
FT. CHIPEWYAN AB T0P 1B0  
Attn: MICHAEL CARDINAL
- 245 **Delta native Fishermen's Association**  
General Delivery  
FORT CHIPEWYAN AB T0A 1G0  
Attn:
- 251 **Dene Tha' Band**  
Harry Colo-Chonkolay  
Box 120  
CHETAH AB T0H 0S0  
Attn: Harry Colo-Chonkolay
- 153 **Dome Petroleum Ltd.**  
Gary Webster  
P.O. Box 200  
CALGARY AB T2P 2H8  
Attn:
- 240 **Driftpile Band**  
Clifford Freeman, Chief  
General Delieri  
DRIFTPILE AB T0G 0V0  
Attn: Clifford Freeman
- 30 **Ducks Unlimited Canada**  
Ken Lumbis  
9614A - 105 Street  
GRANDE PRAIRIE AB T8V 6M3  
Attn:

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- 246 **Duncan's Band**  
Donald Testawich, Chief  
Box 148  
BROWVALE AB T0H 0L0  
Attn: Donald Testawich
- 295 **Dunvegan North Economic Development Board**
- Attn:
- 36 **Edmonton Friends of the North**  
Environmental Society  
4519 - 32A Avenue  
EDMONTON AB T6L 4K7  
Attn:
- 37 **Edmonton Trout Fishing Club**  
c/o Frank Wood  
#439, 14923 - 72 Street  
EDMONTON AB T5C 0R8  
Attn: Frank Wood
- 114 **Ember Oilfield Enterprises Ltd.**  
10305 - 101 Avenue  
HIGH LEVEL AB T0H 1Z0  
Attn:
- 296 **Fairview College**
- Attn:
- 43 **Fairview River Rats Association**  
General Delivery  
FAIRVIEW AB T0H 1L0  
Attn:
- 49 **Federation of Alberta Naturalists**  
Box 1472  
EDMONTON AB T5J 2N5  
Attn:
- 38 **Fish and Game Association**  
Dan Anderson, President  
Box 1246  
LAC LA BICHE AB T0A 2C0  
Attn: Dan Anderson
- 112 **Floyd Rudehuhiing Ltd.**  
Box 30  
LAGALE AB T0H 2J0  
Attn:



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- 44 **Foremost Fish & Game Association**  
Box 13  
FOREMOST AB T0K 0X0  
Attn:
- 252 **Fort Chipewyan Advisory Council**  
General Delivery  
FORT CHIPEWYAN AB T0P 1B0  
Attn:
- 253 **Fort McKay Band**  
Jimmy Bouchier, Chief  
Box 5360  
FORT McMURRAY AB T9H 3G4  
Attn: Jimmy Bouchier
- 293 **Fort McMurray & District Health**  
  
Attn:
- 34 **Fort McMurray Chamber of Commerce**  
City of Ft. McMurray  
9919 Biggs Avenue  
FT. McMURRAY AB T9H 1S2  
Attn:
- 302 **Fort McMurray Environmental Association**  
  
Attn:
- 259 **Fort McMurray First Nation**  
Bernice Cree, Chief  
Box 6130  
FORT McMURRAY AB T9H 4W1  
Attn: Bernice Cree
- 39 **Fort McMurray Fish & Game Association**  
Box 5114  
FT. McMURRAY AB T9H 3G2  
Attn:
- 45 **Friends of Environmental Education**  
641, 21 - 10405 Jasper Avenue  
EDMONTON AB T5J 3S2  
Attn:
- 51 **Friends of the Athabasca**  
Dr. Louis Schmittroth  
Box 1351  
ATHABASCA AB T0G 0B0  
Attn: Dr. Louis Schmittroth

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40 **Friends of the Peace**  
(Peace River Env. Society)  
Box 6574  
PEACE RIVER AB T8s 1S4  
Attn:

46 **Friends of the Slave**  
Box 142  
JOUSSARD AB T0G 1J0  
Attn:

120 **Friesen Logging Ltd.**  
Box 29  
BUFFALO HEAD PRAIRIE AB T0H 4A0  
Attn:

265 **Frog Lake Indian Band**  
Box 58  
HEINSBURG AB T0A 1X0  
Attn:

50 **Ft. Assiniboine Dist. of Env. Action Assn.**  
Box 262  
FORT ASSINIBOINE AB T0G 1A0  
Attn:

52 **Ft. McMurray Environmental Association**  
Verne Dugas  
36 Ellis Crescent  
FT. McMURRAY AB T9H 1N5  
Attn: Verne Dugas

108 **Ft. McMurray Environmental Association**  
Kristin Reed  
Box 5222  
FT. McMURRAY AB T9H 3G3  
Attn: Kristin Reed

41 **Game Country Tourist Association**  
9932 - 111 Avenue  
GRANDE PRAIRIE AB T8V 4C3  
Attn:

312 **Grand Council of Treaty #8**  
  
Attn:

47 **Grande Prairie Chamber of Commerce**  
10011 - 103 Avenue  
GRANDE PRAIRIE AB T8V 1B9  
Attn:

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53 **Grande Prairie County Agriculture Society**  
Box 370  
GRANDE PRAIRIE AB T8V 3A5  
Attn:

42 **Grande Prairie Fish & Game Association**  
10238 - 110 Avenue  
EDMONTON AB T8V 1F7  
Attn:

254 **Grouard Band**  
Frank Halcrow, Chief  
General Delivery  
GROUARD AB T0G 1C0  
Attn: Frank Halcrow

131 **Haines Petroleum Sales Ltd.**  
4508 Railway Avenue  
GRIMSHAW AB T0H 1W0  
Attn:

48 **Harmon Valley Grazing Association**  
Box 2123  
PEACE RIVER AB T0H 2X0  
Attn:

260 **Hay River Dene Band**  
Daniel Sonfrere  
Box 1638  
HAY RIVER NWT X0E 0P0  
Attn: Daniel Sonfrere

54 **High Level Agricultural Society**  
General Delivery  
HIGH LEVEL AB T0H 1Z0  
Attn:

55 **High Level Chamber of Commerce**  
Box 240  
HIGH LEVEL AB T0H 1N0  
Attn:

266 **High Level Tribal Council**  
Chief Bernard Meneen, Pres.  
Box 1889  
HIGH LEVEL AB T0H 1Z0  
Attn: Chief Bernard Meneen

61 **High Prairie Fish & Game Association**  
Box 173  
HIGH PRAIRIE AB T0G 1E0  
Attn:

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67	<b>Hillcrest Fish &amp; Gam Protective Assn.</b> c/o Earl Scott General Delieri HILLCREST Attn: Earl Scott	AB	T0K 1C0
56	<b>Hook &amp; Hackle Club</b> Box 5949, Station D CALGARY Attn:	AB	T2P 2G2
255	<b>Horse Lake Band</b> Box 303 HYTHE Attn:	AB	T0H 2C0
261	<b>Horse Lake Indian Reserve</b> Box 303 HYTHE Attn:	AB	T0H 2C0
137	<b>Husky Oil Operations Ltd.</b> Box 1026 GRIMSHAW Attn:	AB	T0H 1W0
306	<b>Hutterite Colony (Athabasca)</b>  Attn:		
126	<b>ICG Utilities</b> P.O. Box 207 HIGH LEVEL Attn:	AB	T0H 1Z0
183	<b>Improvement District #18N</b> Joan Tornberg Box 5867 FT. McMURRAY Attn: Joan Tornberg	AB	T9H 4V9
167	<b>Improvement District 16</b> Roy Brideau Box 1079, 4707 - 50 Street VALLEYVIEW Attn: Roy Brideau	AB	T0H 3N0
178	<b>Improvement District 16</b> Ken Mulligan, Chairman Box 1079 VALLEYVIEW Attn: Ken Mulligan	AB	T0H 3N0

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- 173 **Improvement District 17(C)**  
Alvin Billings, Chairman  
Box 239  
HIGH PRAIRIE AB T0J 1E0  
Attn: Alvin Billings
- 179 **Improvement District 17(C)**  
Norman Kjemhus  
Box 239  
HIGH PRAIRIE AB T0G 1E0  
Attn: Norman Kjemhus
- 168 **Improvement District 17(E)**  
Pat Vincent  
Box 722  
SLAVE LAKE AB T0G 2L0  
Attn: Pat Vincent
- 174 **Improvement District 17(E)(N)**  
Mr. Marian Wolitsky  
General Delivery  
WABASCA AB T0G 2K0  
Attn: Mr. Marian Wolitsky
- 180 **Improvement District 17(E)(S)**  
Lorne Larson  
Box 488  
SLAVE LAKE AB T0G 2A0  
Attn: Lorne Larson
- 181 **Improvement District 17(W)**  
Kelly Bunn  
Bag 900-12  
PEACE RIVER AB T8S 1T4  
Attn: Kelly Bunn
- 187 **Improvement District 17(W)**  
Kelly Bunn, Manager  
Bag 900 - 12, Kit Business Ctr  
PEACE RIVER AB T8S 1T4  
Attn: Kelly Bunn
- 182 **Improvement District 18(N)**  
Emil Girard, Chairman  
Box 177  
FT. CHIPEWYAN AB T0P 1B0  
Attn: Emil Girard

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188	<b>Improvement District 18(N)</b> Joan Tomberg, Manager Box 5867 Ft. McMURRAY Attn: Joan Tomberg	AB	T9H 4V9
193	<b>Improvement District 18(N)</b> Don Spink 513 W. Twr. 9915 Franklin Ave FT. McMURRAY Attn: Don Spink	AB	T9H 2K4
194	<b>Improvement District 18(S)</b> John Leskiw 2nd flr., 10107 - 102 Ave. Box LAC LA BICHE Attn: John Leskiw	AB	T0A 2C0
199	<b>Improvement District 18(S)</b> Cecil Griffith Box 1679 LAC LA BICHE Attn: Cecil Griffith	AB	T0A 2C0
189	<b>Improvement District 19</b> Edmund Pawluski Box 92 EAGLESHAM Attn: Edmund Pawluski	AB	T0H 1H0
195	<b>Improvement District 19</b> Ian Becker Box 157 WANHAM Attn: Ian Becker	AB	T0H 3P0
184	<b>Improvement District 20</b> Corinne Huberdeau Box 69 SPIRIT RIVER Attn: Corinne Huberdeau	AB	T0H 3G0
190	<b>Improvement District 20</b> William Janssen RR #1 WOKING Attn: William Janssen	AB	T0H 3V0

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- 185 **Improvement District 21**  
Gordon Frank  
Box 240  
Worsley AB T0H 3W0  
Attn: Gordon Frank
- 196 **Improvement District 21**  
Charles Johnson  
Box 22  
CHERRY POINT AB T0H 0T0  
Attn: Charles Johnson
- 191 **Improvement District 22**  
Lee Wells  
Bag 900-30  
PEACE RIVER AB T8S 1T4  
Attn: Lee Wells
- 197 **Improvement District 22**  
Lee Wells, Manager  
Bag 900-30, Provincial Bldg.  
PEACE RIVER AB T0H 2X0  
Attn: Lee Wells
- 186 **Improvement District 23**  
Clark McAskile  
PO Box 1110, 9813 - 102 Street  
HIGH LEVEL AB T0H 1Z0  
Attn: Clark McAskile
- 192 **Improvement District 23**  
Rod Dechant  
Box 518  
MANNING AB T0H 2M0  
Attn: Rod Dechant
- 198 **Improvement District 23**  
William Newfeld, Chairman  
Box 351  
LA CRETE AB T0H 2H0  
Attn: William Newfeld
- 297 **Internat Union of the Conservation of Nature**
- Attn:
- 267 **Janvier Indian Band**  
Fred Black, Chief  
General Deliery  
CHARD AB TOP 1Z0  
Attn: Fred Black

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102 **Ken Ecot**  
Wood Buffalo Park  
Box 750  
FORT SMITH NWT X0E 0P0  
Attn:

62 **Kewatinok Recreation**  
Steve Courtoreille, Admin.  
Box 343  
FT. CHIPEWYAN AB T0P 1B0  
Attn: Steve Courtoreille

68 **Kinuso & District Fish & Game Assoc.**  
c/o Mr. Robinson  
Box 162  
KINUSO AB T0G 1K0  
Attn: Mr. Robinson

57 **La Crete Chamber of Commerce**  
P.O. Box 29  
LA CRETE AB T0H 2H0  
Attn:

69 **La Crete Recreation Society**  
Box 29  
LA CRETE AB T0H 2H0  
Attn:

127 **La Crete Sawmills**  
General Delivery  
LA CRETE AB T0H 2H0  
Attn:

58 **Lakeland Tourist Association**  
P.O. Box 874  
ST. PAUL AB T0A 3A0  
Attn:

64 **Land of the Might Peace Tourist**  
Box 6627  
PEACE RIVER AB T8S 1S4  
Attn:

290 **Lesser Slave Lake Community Future**  
Karen Robinson, Office Asst.  
Box 2100  
SLAVE LAKE AB T0G 2A0  
Attn: Karen Robinson



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- 256 **Lesser Slave Lake Indian Regional**  
Dale Horseman, Grand Chief  
Box 269  
SLAVE LAKE AB T0G 1A0  
Attn: Dale Horseman
- 262 **Little Red River Cree Tribe**  
Alec Sewapagaham, Chief  
Box 1165  
HIGH LEVEL AB T0H 1Z0  
Attn: Alec Sewapagaham
- 70 **Local Timber Permit Operators**  
Albert & May Jenner, Reps.  
Box 291  
HYTHE AB T0H 2C0  
Attn: Albert & May Jenner
- 268 **Loon River Cree Band**  
Paddy Noskey, Chief  
General Delivery  
RED EARTH AB T0G 1X0  
Attn: Paddy Noskey
- 257 **Lubicon Lake Band**  
Bernard Ominayak, chief  
Box 6731  
PEACE RIVER AB T8S 1S5  
Attn: Bernard Ominayak
- 109 **Luscar Ltd.**  
Oil & Gas Division  
2200, 300 - 5 Avenue S.W.  
CALGARY AB T2P 3C4  
Attn:
- 59 **M & T Trappers' Association**  
c/o Joan Tornberg  
Box 5867  
FT. McMURRAY AB T9H 3V9  
Attn: Joan Tornberg
- 205 **MacKenzie Regional Planning Commission**  
P.O. Box 450  
BERWYN AB T0H 0E0  
Attn:
- 263 **Metis Association of Alberta**  
Local #168 (Ahhasiw)  
Box 774  
HIGH LEVEL AB T0H 1Z0  
Attn:

**Date DEC 17 93**

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- 269 **Metis Nation Association of Alberta**  
Zone 5  
Box 1787  
SLAVE LAKE AB T0G 2A0  
Attn:
- 264 **Metis Nation of Alberta Association**  
Zone 1  
PO Box 1350  
LAC LA BICHE AB T0A 2C0  
Attn:
- 258 **Metis National Association of Alberta**  
Zone 6  
2nd flr., 9709B - 100 Street  
PEACE RIVER AB T8S 1J7  
Attn:
- 270 **Metis Settlements General Council**  
East Prairie  
Box 1289  
HIGH PRAIRIE AB T0G 1E0  
Attn:
- 271 **Metis Settlements General Council**  
Gift Lake  
General Deliery  
GIFT LAKE AB T0G 1B0  
Attn:
- 277 **Metis Settlements General Council**  
Paddle Prairie  
General Deliery  
Paddle Prairie AB T0H 2W0  
Attn:
- 143 **Michalochok Brothers Oilfield Cons.**  
Box 43  
KEG RIVER AB T0H 2G0  
Attn:
- 65 **Midnight Twilight Tourist Association**  
#E1 Sturgeon Road  
ST. ALBERTA AB T8N 0E8  
Attn:
- 283 **Mikisew Cree First Nation**  
Archie Waquan, Chief  
Box 90  
FORT CHIPEWYAN AB T0P 1B0  
Attn: Archie Waquan

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- 162 **Mistahi Seepee Wilderness Tours Ltd.**  
Box 90  
FORT CHIPEWYAN AB TOP 1B0  
Attn:
- 211 **Municipal District of Fairview**  
Administrator  
Box 189  
FAIRVIEW AB T0H 1L0  
Attn:
- 200 **Municipal District of Peace (135)**  
Administrator  
Box 34  
BERWYN AB T0H 0E0  
Attn:
- 206 **Municipal District of Smoky River (130)**  
Administrator  
Box 210  
FALHER AB T0H 1M0  
Attn:
- 212 **Municipal District of Spirit River (133)**  
Administrator  
Box 389  
SPIRIT RIVER AB T0H 3G0  
Attn:
- 71 **Muskeg Munchers 4 Wheel Drive Club**  
320 Grey Crescent  
FT. McMURRAY AB T9H 2N8  
Attn:
- 133 **NL McCullough Industries Inc.**  
Box 88  
HIGH LEVEL AB T0H 1Z0  
Attn:
- 294 **NWT Canoeing Association**  
  
Attn:
- 85 **NWT Wildlife Federation**  
Robyn Gowridge  
Box 495  
HAY RIVER NWT X0E 0P0  
Attn: Robyn Gowridge

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- 60 **Nampa and District Recreation Board**  
Bill Lister, Chairman  
Box 69  
NAMPA AB T0H 1R0  
Attn: Bill Lister
- 272 **Neeyanan Community Association**  
Louie Cardinal, President  
General Delier  
PEERLESS LAKE AB T0G 2N0  
Attn: Louie Cardinal
- 115 **Norcen Energy Resouces Limited**  
Norcen Tower  
715 - 5 Avenue S.W.  
CALGARY AB T2P 2X7  
Attn:
- 139 **North Canadian Forest Industries**  
Box 150  
HINES CREEK AB T0H 2X0  
Attn:
- 278 **North Central Aboriginal Econ. Devlpt. Assn.**  
Box 1787  
SLAVE LAKE AB T0G 2A0  
Attn:
- 66 **North Peace Forage Association**  
Box 819  
FAIRVIEW AB T0H 1L0  
Attn:
- 128 **North Peace Logging and Construction**  
Box 670  
LA CRETE AB T0H 2H0  
Attn:
- 73 **Northern Alberta Recreation Associatioin**  
Bag 900  
PEACE RIVER AB T0M 2X0  
Attn:
- 79 **Northern Alberta Recreation Association**  
Rhonda Groom, Chairperson  
Box 1030  
SLAVE LAKE AB T0G 2A0  
Attn: Rhonda Groom

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- 72 **Northern Alta. Outfitters Association**  
Michael Scott  
Box 946  
BEAVERLODGE AB T0H 0C0  
Attn: Michael Scott
- 149 **Northern Lumber Company Ltd.**  
Scott Forsyth  
Box 1888  
LAC LA BICHE AB T0A 2C0  
Attn: Scott Forsyth
- 163 **Northern Sport Fishing Ltd.**  
P.O. Box 5921  
FT. McMURRAY AB T9H 4V9  
Attn:
- 159 **Northland Forest Products**  
Roy Ewashko  
Box 5306  
FT. McMURRAY AB T9H 3G4  
Attn: Roy Ewashko
- 132 **Northwestern Utilities Ltd.**  
General Delivery  
GRIMSHAW AB T0H 1W0  
Attn:
- 134 **Nova An Alberta Corporation**  
P.O. Box 897  
HIGH LEVEL AB T0H 1Z0  
Attn:
- 74 **PAL (Preserve Agricultural Land Association)**  
4920 - 51 Street  
RED DEER AB T4N 5Y5  
Attn:
- 273 **Paddle Prairie Waskayigun Association**  
Box 1250  
SLAVE LAKE AB T0G 2A0  
Attn:
- 284 **Paddle Prairie metis Settlement Association**  
Peavine  
Box 238  
HIGH PRAIRIE AB T0G 1E0  
Attn:

**Date DEC 17 93**

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- 140 **Pauls Sawmill & Planer**  
Box 1258  
PEACE RIVER AB T0H 2X0  
Attn:
- 279 **Peace Arch Communities Committee**  
c/o AVC Lesser Slave Lake  
Box 1280  
SLAVE LAKE AB T0G 2A0  
Attn:
- 80 **Peace Athabasca Delta Trappers Assoc.**  
Reg McKay, President  
Box 93  
FT. CHIPEWYAN AB T0P 1B0  
Attn:
- 86 **Peace Country Fish & Game Association**  
P.O. Box 6147  
PEACE RIVER AB T8S 1S1  
Attn:
- 75 **Peace Country Flyfishers Association**  
Jim Epp, President  
P.O. Box 1381  
GRANDE PRAIRIE AB T8V 4Z2  
Attn: Jim Epp
- 123 **Peace Pipe Line Ltd.**  
Mrs. S. Jones  
#1100, 202 - 6 Avenue S.W.  
CALGARY AB T2P 2R2  
Attn: S. Jones
- 81 **Peace River Rats**  
c/o Sterling Cram  
7113 - 99 Street  
PEACE RIVER AB T0H 2X0  
Attn: Sterling Cram
- 87 **Peace River Stock Growers Association**  
RR #1  
DEBOLT AB T0H 1B0  
Attn:
- 76 **Peace/Athabasca Delta Trappers'**  
Red McKay, President  
Box 93  
FT. CHIPEWYAN AB T0P 1B0  
Attn: Red McKay

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- 285 **Pelican Hills Community Association**  
General Delivery  
DESMARAIS AB T0G 0T0  
Attn:
- 82 **Pembina Agricultural Protection Assciation**  
Box 7892  
DRAYTON VALLEY AB T0E 0M0  
Attn:
- 121 **Pennzoil Petroleums Ltd.**  
1000 McFarlane Tower  
700 - 4 Avenue S.W.  
CALGARY AB T2P 3J4  
Attn:
- 129 **Petro Canada Exploration Inc.**  
Box 81  
KEG RIVER AB T0H 2G0  
Attn:
- 88 **Pow Wow & Fish Derby Association**  
Jim Courtoreille, President  
Box 1051  
LAC LA BICHE AB T0A 2C0  
Attn: Jim Courtoreille
- 138 **Prochinsky Bros.**  
Box 41  
KEG RIVER AB T0H 2G0  
Attn:
- 144 **Proctor & Gamble Cellulose**  
Box 1020  
GRANDE PRAIRIE AB T8V 3A9  
Attn:
- 307 **Prosperity Environmental Association**  
Attn:
- 274 **Puskiakiwenin (Frog Lake) Indian Band**  
Box 58  
HEINSBURG AB T0A 1X0  
Attn:
- 135 **Rainbow Pipeline Co. Ltd.**  
9507 - 86 Avenue  
PEACE RIVER AB T0H 2X0  
Attn:

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- 77 **Red Deer River Naturalists**  
P.O. Box 785  
RED DEER AB T4N 5H2  
Attn:
- 83 **Rocky Lane river Rats**  
Rocky Lane School  
Box 9000  
FORT VERMILION AB T0H 1N0  
Attn:
- 110 **Roger Gas Well Ltd.**  
215, 1008 Homer Street  
VANCOUVER BC V6B 2X1  
Attn:
- 280 **Saprae Creek Cooperative**  
Winnie Somers  
100 Ermine Crescent  
FT. McMURRAY AB T9H 4M6  
Attn: Winnie Somers
- 89 **Save Tomorrow Oppose Pollution**  
10511 - Saskatchewan Drive  
EDMONTON AB T6E 4S1  
Attn:
- 286 **Sawridge Band**  
Walter Twinn, chief  
Box 326  
SLAVE LAKE AB T0G 2A0  
Attn: Walter Twinn
- 157 **Shell Canada Ltd.**  
Community Affairs Officer  
Box 3039  
PEACE RIVER AB T0H 2X0  
Attn: Jim Peacock
- 78 **Smoky River Fish & Game Association**  
Box 207  
FALHER AB T0H 1M0  
Attn:
- 84 **South Peace Environmental**  
Carol Wilson  
Box 565  
GRANDE PRAIRIE AB T8V 3A7  
Attn: Carol Wilson





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- 154 **Syncrude Canada Ltd.**  
John Retallack  
Postal Bag 4023  
FT. McMURRAY AB T9H 3H5  
Attn: John Retallack
- 276 **Tallcree Band**  
Bernard Meneen, chief  
Box 367  
FORT VERMILION AB T0H 1N0  
Attn: Bernard Meneen
- 103 **Tar Island River Cruises and Camps**  
Box 2070  
PEACE RIVER AB T0H 2X0  
Attn:
- 92 **Tarsands Canoe & Kayak Club**  
Bill Hunter  
156 Beaton Place  
FT. McMURRAY AB T9K 1Y2  
Attn: Bill Hunter
- 309 **Tawatinaw Valley Awareness Association**  
Attn:
- 141 **Tetrolite Co. Division**  
Petrolite Corp. of Canada Ltd.  
8309 - 94 Street  
PEACE RIVER AB T0H 2X0  
Attn:
- 98 **Three Creeks Grazing Association**  
Box 1406  
PEACE RIVER AB T0H 2X0  
Attn:
- 99 **Tourt Unlimited (Edmonton) of Canada**  
Main Post Office  
P.O. Box 1956  
EDMONTON AB T5J 2P3  
Attn:
- 213 **Town of Athabasca**  
Manager  
Box 450  
ATHABASCA AB T0G 0B0  
Attn:

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- 202 **Town of Beaverlodge**  
Manager  
Box 30  
BEAVERLODGE AB T0H 0C0  
Attn:
- 208 **Town of Fairview**  
Manager  
P.O. Box 730  
FAIRVIEW AB T0H 1L0  
Attn:
- 214 **Town of Falher**  
Administrator  
Box 155  
FALHER AB T0H 1M0  
Attn:
- 298 **Town of Grande Prairie**  
  
Attn:
- 203 **Town of Grimshaw**  
Manager  
Box 377  
GRIMSHAW AB T0H 1W0  
Attn:
- 209 **Town of High Level**  
Manager  
Box 485  
HIGH LEVEL AB T0H 1Z0  
Attn:
- 215 **Town of High Prairie**  
Manager  
Box 179  
HIGH PRAIRIE AB T0G 1E0  
Attn:
- 310 **Town of Hinton**  
  
Attn:
- 311 **Town of Lac La Biche**  
  
Attn:
- 204 **Town of Manning**  
Manager  
Box 125  
MANNING AB T0H 2M0  
Attn:

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210	<b>Town of McLennan</b> Manager Box 356 McLENNAN	AB	T0H 2L0
	Attn:		
216	<b>Town of Peace River</b> Manager Box 6600 PEACE RIVER	AB	T8S 1S4
	Attn:		
217	<b>Town of Rainbow Lake</b> Manager Box 149 RAINBOW LAKE	AB	T0H 2Y0
	Attn:		
223	<b>Town of Sexsmith</b> Manager Box 420 SEXSMITH	AB	T0H 3C0
	Attn:		
229	<b>Town of Slave Lake</b> Manager Box 1030 SLAVE LAKE	AB	T0G 2A0
	Attn:		
218	<b>Town of Spirit River</b> Administrator Box 130 SPIRIT RIVER	AB	T0H 3G0
	Attn:		
300	<b>Town of St. Paul</b>		
	Attn:		
224	<b>Town of Valleyview</b> Administrator Box 270 VALLEYVIEW	AB	T0H 3N0
	Attn:		
230	<b>Town of Wembley</b> Administrator Box 89 WEMBLEY	AB	T0H 3S0
	Attn:		

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304 **Town of Whitecourt**

Attn:

104 **Trappers Association**  
Reg Scarfe, Chairman  
Box 259  
FORT VERMILION AB T0H 1N0  
Attn: Reg Scarfe

93 **Trophy Outfitting**  
Leonard Biscope  
Box 337, Station "T"  
CALGARY AB T2H 2G9  
Attn:

282 **Trout Lake Community Association**  
General Delivry  
TROUT LAKE AB T0G 2N0  
Attn:

105 **Trumpeter Swan Society**  
Helen & Garvin Craig  
RR 1  
WEMBLEY AB T0H 3S0  
Attn: Helen & Garvin Craig

219 **Valleyview Regional Economic Dev't Board**  
David Pattison, Exec. Dir.  
Box 568  
VALLEYVIEW AB T0H 2R0  
Attn: David Pattison

116 **Vanderwell Contractors (1971) Ltd.**  
Box 415  
SLAVE LAKE AB T0G 2A0  
Attn:

225 **Village of Berwyn**  
Manager  
Box 250  
BERWYN AB T0H 0E0  
Attn:

231 **Village of Donnelly**  
Administrator  
Box 200  
DONNELLY AB T0H 1G0  
Attn:

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220	<b>Village of Eaglesham</b> Secretary/Treasurer Box 209 EAGLESHAM Attn:	AB	T0H 1H0
226	<b>Village of Foremost</b> Administrator Box 159 FOREMOST Attn:	AB	T0K 0X0
232	<b>Village of Girouxville</b> Administrator Box 276 GIROUXVILLE Attn:	AB	T0H 1S0
221	<b>Village of Hines Creek</b> Administrator Box 421 HINES CREEK Attn:	AB	T0H 2A0
227	<b>Village of Hythe</b> Administrator Box 219 HYTHE Attn:	AB	T0H 2C0
233	<b>Village of Kinuso</b> Administrator Box 57 KINUSO Attn:	AB	T0G 1K0
299	<b>Village of Mewatha Beach</b>  Attn:		
222	<b>Village of Nampa</b> Secretary/Treasurer Box 69 NAMPA Attn:	AB	T0H 2R0
228	<b>Village of Rycroft</b> Secretary/Treasurer Box 360 RYCROFT Attn:	AB	T0H 3A0

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234 **Village of Wanham**  
Administrator  
Box 189  
WANHAM AB T0H 3P0  
Attn:

308 **Voice of the Valley**  
Attn:

94 **Wandering River Loal Development Society**  
Brent Applegate, President  
WANDERING RIVER AB T0A 3M0  
Attn: Brent Applegate

122 **Weldwood of Canada Limited**  
Box 630  
SLAVE LAKE AB T0G 2A0  
Attn:

288 **Whitefish Lake Band**  
Robert Gray, Chief  
General Delivery  
ATIKAMEG AB T0G 0C0  
Attn: Robert Gray

100 **Whitemud Grazing Association**  
Joyce Penno  
Box 133  
DIXONVILLE AB T0M 1E0  
Attn: Joyce Penno

155 **Widing River Construction Ltd.**  
Larry Karlstrom  
RR #2  
BLUFFTON AB T0C 0M0  
Attn: Larry Karlstrom

106 **Wildlands - Wildlie Club (U of A)**  
Jenny Scott-Quinn, President  
Box 1707  
ATHABASCA AB T0G 0B0  
Attn: Jenny Scott-Quinn

95 **Wildlife Advisory Board**  
Wood Buffalo National Park  
Willie Courtoreille  
FT. CHIPEWYAN AB T0P 1B0  
Attn: Willie Courtoreille

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101 **Windsor Creek Grazing Association**  
Glen Moodie, Secr./Treasurer  
RR 1  
SEXSMITH AB T0H 3C0  
Attn: Glen Moodie

107 **Wolf Lake Grazing Reserve**  
Lawrence Ross  
Box 717  
HOSELAW AB T0A 1Y0  
Attn: Lawrence Ross

289 **Woodland Cree Band**  
John Cardinal, Chief  
General Delivery  
CADOTTE LAKE AB T0H 0N0  
Attn: John Cardinal

96 **Yukon Conservation Society**  
Box 4163  
WHITEHORSE YUKON 1A 3T3  
Attn:

145 **Zacharias Lumber Ltd.**  
Box 252  
LA CRETE AB T0H 2H0  
Attn:

170 **Zeidler Forest Industries Ltd.**  
Mitsue Plant  
SLAVE LAKE AB T0G 2A0  
Attn:





