



AIRSHED PLAN AND AMBIENT MONITORING MODIFICATION AGREEMENT

BETWEEN

**HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF BRITISH
COLUMBIA, represented by**

**The Ministry of Environment
(the "Province", "we", "us" or "our", as applicable)**

AND

The City of Williams Lake in Partnership with the Cariboo Regional District

**The City of Quesnel in Partnership with the Cariboo Regional District and
Human Resources Development Canada**

**Interior Health Authority (formerly the Cariboo Community Health Services
Society).**

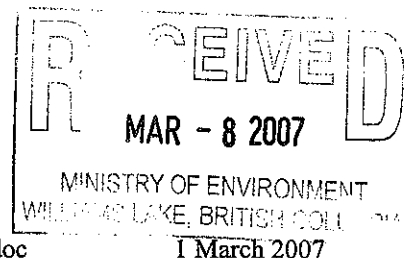
BACKGROUND

- A. The parties entered into an agreement dated February 02, 2000, a copy of
which is attached as Exhibit 1 (the "Agreement")**
- B. The parties have agreed to modify the Agreement.**

AGREEMENT

The parties agree as follows:

- 1) To extend the agreement to 2016 to cover the time frame of implementation
of airshed management plans in Quesnel and Williams Lake.**
- 2) The 'Parties' will not be required to make any further contributions.**
- 3) In all other respects, the Agreement is confirmed.**



**AIRSHED PLAN AND AMBIENT MONITORING
MODIFICATION AGREEMENT**

SIGNED AND DELIVERED
on behalf of the Province by
its duly authorized representative:

SIGNED AND DELIVERED
on behalf of the City of Williams Lake by
its duly authorized representative:

FOIPPA Sec 22(1)

SIGNED AND DELIVERED
on behalf of the City of Quesnel by
its duly authorized representative:

SIGNED AND DELIVERED
on behalf of the Interior Health
Authority by its duly authorized
Representative:

FOIPPA Sec 22(1)

KENNETH LORNE CHRISTIAN
COMMISSIONER FOR TAKING AFFIDAVITS
FOR BRITISH COLUMBIA

AIRSHED PLANNING AND AMBIENT MONITORING AGREEMENT
Ministry of Environment, Lands & Parks / City of Quesnel / City of Williams Lake / Human
Resources Development Canada / Cariboo Community Health Services /
Cariboo Regional District

THIS AGREEMENT made the 11TH day of January 2000

BETWEEN: **HER MAJESTY THE QUEEN IN RIGHT OF
THE PROVINCE OF BRITISH COLUMBIA** represented by
the Minister of Environment, Lands and Parks
(the "Province", the "Ministry", a "Party", as applicable) at the following
address:

Ministry of Environment, Lands and Parks
400 - 640 Borland Street
Williams Lake, British Columbia V2G 4T1

AND: **The City of Williams Lake in partnership with the Cariboo Regional
District**
450 Mart Street
Williams Lake, British Columbia V2G 1N3
(the "City", a "Contributor", a "Party", as applicable)

AND: **The City of Quesnel in partnership with the Cariboo Regional
District and Human Resources Development Canada**
405 Barlow Avenue
Quesnel, British Columbia V2J 2C3
(the "City", a "Contributor", a "Party", as applicable)

AND: **The Cariboo Community Health Services Society**
3rd Floor, 540 Borland Street
Williams Lake, British Columbia V2G 1R8
(the "Cariboo Health", a "Contributor", a "Party", as applicable)

PURPOSE

The purpose of this Agreement is to enable the Contributor and the Province to work together on the Williams Lake and Quesnel airshed management plans whereas:

- A. The Province designs, operates and maintains an ambient air monitoring Program for the cities of Quesnel and Williams Lake, British Columbia in support of the proposed airshed management planning activities as outlined in Schedules A and B.
- B. The Parties have decided to participate jointly in the funding of the air Program.

AIRSHED PLANNING AND AMBIENT MONITORING AGREEMENT
Ministry of Environment, Lands & Parks / City of Quesnel / City of Williams Lake / Human
Resources Development Canada / Cariboo Community Health Services /
Cariboo Regional District

AGREEMENT

The Parties agree as follows:

1. DEFINITIONS

In this Agreement and its Schedules, unless the context otherwise requires:

“Program” means the airshed planning and ambient air monitoring program in Williams Lake and Quesnel, British Columbia;

“Station” means the air quality monitoring station(s) to be installed and operated as part of the Program, located in Williams Lake and Quesnel, British Columbia;

“Minister” means Minister of Environment, Lands and Parks;

“Operating Year” means, as applicable:

March 31, 1999 to March 31, 2000

March 31, 2000 to March 31, 2001

March 31, 2001 to March 31, 2002

March 31, 2002 to March 31, 2003

March 31, 2003 to March 31, 2004;

“Cities” means the City of Quesnel and the City of Williams Lake;

“CRD” means the Cariboo Regional District;

“HRDC” means Human Resources Development Canada;

“Cariboo Health” means the Cariboo Community Health Services Society;

“Contributors” means the City of Williams Lake in partnership with the CRD, the City of Quesnel in joint partnership with the CRD and the HRDC, the Province, and the Cariboo Community Health Services Society.

“Parties” means all parties to this Agreement.

AIRSHED PLANNING AND AMBIENT MONITORING AGREEMENT
Ministry of Environment, Lands & Parks / City of Quesnel / City of Williams Lake / Human
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2. AMOUNT OF CONTRIBUTION

- A. The City of Quesnel in joint partnership with the HRDC and the CRD will contribute \$73,500.00 per year for the first two Operating Years and \$23,500.00 for the remaining three Operating Years;
- B. The City of Williams Lake in joint partnership with the CRD will contribute \$23,500.00 per Operating Year for five years;
- C. Cariboo Health will contribute \$2000.00 in the first Operating Year;
- D. The Province will contribute to the air monitoring Program in both communities by providing staff and resources to:
 - i) lead the development of airshed plans in each community;
 - ii) design an ambient monitoring program for Williams Lake and Quesnel;
 - iii) select, purchase and install the new ambient air monitors;
 - iv) carry out all sampling and analysis required;
 - v) carry out all calibrations, audits and maintenance required;
 - vi) provide the existing meteorological and ambient monitoring equipment in each community;
 - vii) process data, archive data, provide quality assurance and quality control;
 - viii) prepare reports.

3. APPROVED BUDGET

The funds paid by the Contributors will be applied to the cost of wages and goods & services related to the implementation of the Program, as outlined in Schedule A, up to the maximum amounts as stated in paragraph 2.

4. BASIS OF PAYMENT

- A. The Province will set up separate accounts for each community into which all funds will be placed.
- B. Contributions, for the amounts agreed to in paragraph 2, are payable to the Minister of Finance C/O the Financial Officer, Ministry of Environment, Lands & Parks, 400 - 640 Borland Street, Williams Lake, British Columbia, V2G 4T1. Payments are to be made annually in advance of December 31st of each Operating Year.
- C. Any unspent funds will be carried over into the next Operating Year.

AIRSHED PLANNING AND AMBIENT MONITORING AGREEMENT
Ministry of Environment, Lands & Parks / City of Quesnel / City of Williams Lake / Human
Resources Development Canada / Cariboo Community Health Services /
Cariboo Regional District

5. TERMS AND CONDITIONS

- A. The Province will administer the accounts for the purposes of this Agreement. The Province will also administer any contracts resulting from this Agreement.
- B. Disbursements will be tracked and reported to the Parties once every 4 months beginning April 01, 2000.

6. MISCELLANEOUS

- A. This Agreement may be amended at any time by the mutual written consent of the Parties hereto. To be valid, any amendment to this Agreement shall be in writing and signed by the Parties hereto within the duration of this Agreement.
- B. The Air Quality Management Committee in each of Quesnel and Williams Lake will be responsible for providing meeting rooms and copies of meeting minutes to other committee members.

7. TERM

The term of this Agreement is March 31, 1999 to March 31, 2004.

AIRSHED PLANNING AND AMBIENT MONITORING AGREEMENT
Ministry of Environment, Lands & Parks / City of Quesnel / City of Williams Lake / Human
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SIGNED AND DELIVERED on behalf
of the Province by its authorized
representative:

SIGNED AND DELIVERED by
an authorized signatory of the City
of Williams Lake

FOIPPA Sec 22(1)

SIGNED AND DELIVERED by
an authorized signatory of the City
of Quesnel:

SIGNED AND DELIVERED by
an authorized signatory of the Cariboo
Community Health Services Society:

FOIPPA Sec 22(1)

Schedule A

**FRAMEWORK OUTLINE
FOR
AIRSHED MANAGEMENT PLANNING IN QUESNEL AND WILLIAMS LAKE**

Revised: November, 1999.

PHASE I: Planning and Monitoring

- Nov/99
1. Hire an air resources officer to provide air monitoring/assessment support to the air quality meteorologist/airshed planner.
 2. Revise the original Framework Outline for Airshed Management Planning in Quesnel and Williams Lake and present to the members of the Roundtable for Airshed Management for discussion and to obtain input. Finalize the Framework Outline.
 3. Finalize funding agreement with all contributing parties. Set up accounts and budget process.
 4. Identify the membership for each Air Quality Management Committee (AQMC), one committee for Quesnel and one for Williams Lake. Each AQMC will be comprised of various stakeholders with a chairperson from the local city council. Representatives from the provincial government (including the meteorologist), industry, local environmental organizations, native groups and individuals with an interest in participating in AQMC work may form the remainder of the group.
 5. Provide training to the air quality meteorologist on the use of the CALPUFF dispersion model. This is a comprehensive air quality dispersion model that can handle multiple sources and source types.
 6. Review other airshed management planning activities in the province (e.g. GVRD, Prince George, etc.) and relate to Quesnel/Williams Lake process.
 7. Initiate media use of the Air Quality Index (incorporate in newscasts on radio and in graphical form - monthly - in the newspaper) and issue air quality advisories on days of poor air quality through the local news media and also via the Internet.
 8. Develop a brochure to introduce the concept of airshed management planning to the public.
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- Jan/2000

AIRSHED PLANNING AND AMBIENT MONITORING AGREEMENT
Ministry of Environment, Lands & Parks / City of Quesnel / City of Williams Lake / Human
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**Mar
2000**

9. Conduct a public open house to present the airshed management planning process and to introduce the members of the AQMC to the public. The open house would be designed to introduce the concept of airshed management planning, to discuss the proposed framework for the planning process, and to obtain public input into the process and air quality issues in general.
10. Based on current knowledge, enhance the ambient air monitoring program. As a minimum, add continuous ambient monitors for PM_{2.5}. The need for additional parameters (e.g. SO₂, NO_x, ozone, etc.) will be assessed.
11. Purchase and install new ambient air monitoring analyzers.
12. Based on current knowledge, identify immediate interim steps that could be taken to improve air quality in each community.
13. Prepare a preliminary emissions inventory for point and non-point sources to accompany an air quality data summary report which reflects current knowledge of ambient air quality in the community.
14. Prepare a background report to determine priority contaminants based on the ambient air quality report and potential impacts to the environment and to human health.
15. Designate Ministry of Environment Lands & Parks pollution prevention planning staff to work with industry.
16. Initiate source monitoring where information gaps are identified. Determine source apportionment of priority contaminants through modelling/ambient monitoring.
- ✓ 17. Refine the monitoring programs based on predicted contribution of priority contaminants to the airshed.

Mar/2001 PHASE II: Model Refinement and Air Quality Management Strategy

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- ↑ 1. Investigate the feasibility of implementing episode management plans during periods of poor air quality.
2. Refine emissions inventory using actual emissions data where available.
3. Refine ambient projections through modelling with actual emission numbers using computer dispersion models such as CALPUFF (include all sources such as road dust, point sources, mobile sources, etc.).
4. Identify priority contaminant sources for reduction.

AIRSHED PLANNING AND AMBIENT MONITORING AGREEMENT
Ministry of Environment, Lands & Parks / City of Quesnel / City of Williams Lake / Human
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Cariboo Regional District

5. Prepare a draft airshed management plan document and present to AQMC for input. Finalize document and recommendations.
6. Identify contaminant reduction methods through pollution prevention planning in the local industry operations, and additional/alternative emission control measures for other sources.
7. Implement management measures.

Mar/2003 PHASE III: Evaluation of Management Measures and Long-term Trends

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1. Continue with implementation of management measures begun under PHASE II.
 2. Conduct follow-up ambient (and if information gaps exist, also emissions) monitoring programs to determine the success of the implemented management measures.
 3. Evaluate and, if necessary, redesign the monitoring program to monitor long-term trends for parameters of concern.
 4. Evaluate air shed capacity for additional loading of priority contaminants. Identify which locations in the airshed are most favourable, and which are least favourable with respect to anticipated impacts.

Dec/2005

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Ministry of Environment, Lands & Parks / City of Quesnel / City of Williams Lake / Human
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Schedule B

For Immediate Release
330-30:ELP99/00-608
July 17, 1999

Ministry of Environment, Lands and Parks

**AIR QUALITY PLANNING INTRODUCED FOR QUESNEL AND
WILLIAMS LAKE**

QUESNEL – A comprehensive air quality management plan will go ahead in Quesnel and Williams Lake, Environment, Lands and Parks Minister Cathy McGregor and Forests Minister David Zirnelt announced today.

Total cost of the five-year plan is \$957,500. McGregor said her ministry would fund close to 60 per cent of the total through staffing, air monitoring, equipment and by providing \$37,500 to cover a shortfall in the plan budget. Other support is coming from the federal government, the City of Quesnel, the City of Williams Lake, the Cariboo Regional District and Cariboo Health Services.

The first step will be to collect data on all sources of pollution, including large industry, diesel emissions and road dust, backyard burning and woodstoves. Once data is collected, a list of priority actions will be drawn up to deal with air quality problems.

"The funding will help pay for air quality monitoring instruments and an air resources technician to help ministry staff put the plan into action," McGregor said. "We believe we will be able to improve air quality and enhance individual health and economic growth in these two Cariboo cities."

In 1997, Quesnel had the highest fine-particle concentrations in the air of the 24 residential sites monitored around the province. Williams Lake had the fifth-worst ranking. Testing that year found that four of the worst nine sites in British Columbia were located in those two communities.

Residents are concerned that the poor air causes respiratory illness, cardiovascular conditions and premature death. Furthermore, high pollutant levels are seen as a threat to the value-added forest products and tourism industries.

Local environmental groups and industry representatives, with the help of the municipalities, established a round table on air quality that over the past two years gathered community support and funding commitments for air quality management. McGregor and

AIRSHED PLANNING AND AMBIENT MONITORING AGREEMENT
Ministry of Environment, Lands & Parks / City of Quesnel / City of Williams Lake / Human
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Zirnhelt, MLA for Cariboo South, commended the two cities, the Cariboo Regional District, the federal Department of Human Resources Development, and the B.C. Ministry of Health for their co-operation and contributions.

"The partnership is a wonderful example of what can be achieved when different levels of government and grassroots communities work together to resolve environmental, economic and health concerns," Zirnhelt said.

"Clean air is the paramount concern for our citizens," said Quesnel Mayor Steve Wallace. "This plan will improve the environmental quality of life in our communities for decades to come."

"Williams Lake has seen great improvements since the beehive burners were shut down, but we still have a way to go for air quality to be acceptable," said Mayor Ray Woods of Williams Lake. "The increased commitment by the Ministry of Environment, Lands and Parks will help us achieve our goal."

Editors please note: Backgrounder on air quality management plan attached.

- 30 -

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| Contact: | Alex Dabrowski, (250) 387-9423 or cell (250) 920-6026 Media Relations Victoria | Joe Negraeff, (250) 398-4543 Manager, Pollution Prevention Cariboo Region Williams Lake |
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BACKGROUNDER

July 17, 1999

Ministry of Environment, Lands and Parks

AIR QUALITY MANAGEMENT PLAN FOR CARIBOO GETS ENVIRONMENT MINISTRY FUNDING

Air quality problems affecting the physical and economic health of Quesnel and Williams Lake have been of concern to local residents, environmental groups, health professionals and forestry companies. Representatives of these groups joined with local municipalities to establish the North-Central Cariboo Round Table for Airshed Management.

AIRSHED PLANNING AND AMBIENT MONITORING AGREEMENT
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The two communities have had some of the highest levels in British Columbia of breathable fine air particles with diameters less than 10 microns or PM10s. (A micron is one-millionth of a metre.) A major concern is that PM10 particles are a known danger to respiratory health and lead to increases in hospital visits and admissions, absences from work and school, cardiovascular illness and even premature death.

A 1998 report by the Cariboo medical health officer reported that in 1997, Quesnel and Williams Lake reported four of the nine worst annual average PM10 concentrations in the province. Three of those four were in residential areas. Sources of the pollution include large industry, diesel emissions, road dust, woodstoves and backyard burning.

A second issue raised by the round table has been that air pollution would retard the expansion and diversification of local industry. Two potential economic growth sectors are value-added forest products and tourism. Concern over severe air pollution has led to local resistance to value-added industries that might contribute even small amounts to fine particle levels. Poor air quality also discourages visits to the area by tourists seeking clean surroundings, and damages efforts to promote the area as an affordable and attractive retirement community.

The round table proposed an airshed management plan that aimed to address the problems by measuring all inhalable particles on a continuous basis, by identifying the sources of pollutants and by reducing overall particulate levels through a strategy involving community consultation to lower the level of pollutants. This plan requires staff and equipment.

The estimated cost of a five-year plan developed by the round table was \$957,500. The Ministry of Environment, Lands and Parks is making in-kind and cash contributions totalling close to 60 per cent of the budget. Other amounts have been committed by Human Resources Development Canada (\$100,000 over two years); the cities of Quesnel and Williams Lake (\$105,000 each over five years); the Cariboo Regional District (\$25,000) and the Cariboo health unit (\$2,000).

Contact: Joe Negraeff, (250) 398-4543