Williams Lake Particulate Monitoring Participation Agreement 2013-2018

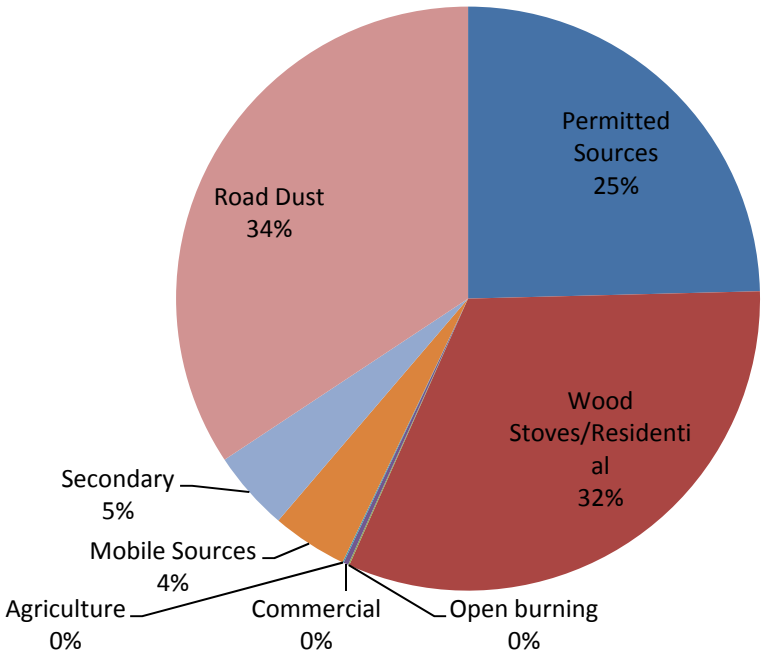
Pre-amble:

The Williams Lake Airshed Management Plan (AMP) was released to the public in June 2006. The Plan is currently in the implementation phase and is undergoing an independent review. The Williams Lake Air Quality Roundtable (WLAQR) identified the objective of the ambient monitoring program as being able to measure changes in the ambient air quality as a result of management actions outlined in the AMP. The particulate monitoring network is managed by the Ministry of Environment (MoE). Currently, MoE funds all monitoring costs for both continuous and non-continuous monitoring. There are two continuous monitoring stations, two meteorological monitoring stations and three non-continuous monitoring stations. For community monitoring (other than core monitoring by MoE at Columneetza School) to stay sustainable over time, continued partnership between MoE and the roundtable members is required.

The roundtable is pursuing partnerships to ensure shared responsibility in efficiently and effectively achieving our common goals for the airshed. Partnering occurs to guarantee the best possible input in achieving the partnerships' goals for the airshed in a timely manner. Partnerships accomplish more together than each partner by themselves, while reducing cost of duplication, thus each partner benefits from this approach. A partnership approach to air quality monitoring is intended to foster shared environmental stewardship through shared improvements in environmental protection, shared environmental and adaptive management, shared planning, shared monitoring and education.

A variety of sources contribute to the ambient levels of fine particulate matter in the Williams Lake airshed (Figure 1). Source specific strategies to reduce levels of fine particulate matter have been identified in the AMP.

Figure 1: Source Contributions to Ambient $PM_{2.5}$ at Columneetza Station[1]



Scope:

This agreement is applicable to non-continuous particulate monitoring network in Williams Lake.

This agreement does not apply to core monitoring conducted by MoE at Columneetza School, which is fully funded by MoE.

Data will be publicly released by means of annual reports issued by the Williams Lake Air Quality Roundtable. WLAQR will review the network configuration annually.

This is a voluntary agreement and signatories may terminate their participation by informing the Chair of WLAQR in writing.

Appendix A –Particulate Monitoring Participation Agreement

[1] Fine Particulate Source Apportionment Update for Williams Lake Airshed Based on CALPUFF modelling (2005). Levelton Consultants Ltd.

Williams Lake Particulate Monitoring Participation Agreement Signatories:

We, the undersigned agree to the terms of this Particulate Monitoring Network Agreement with effect from Jan 1, 2013. The terms of the Particulate Monitoring Participation Agreement will be reviewed annually and costs adjusted as required.

Bert Groenenberg
Chair, WLAQR _____

Douglas J. Hill
Head, EM Section, MoE _____

Jason Gentles
West Fraser Mills _____

Matt Ketcham
West Fraser Mills _____

Mark Everard
Tolko Industries Ltd. _____

Wade Watson
Atlantic Power Corporation _____

Dean Kopp
Parallel Wood Products _____

Lorne Davies
Pinnacle Renewable Energy Inc. _____

Rory Colwell
Cariboo Fire Centre, MFLNR _____

Mark Thiessen
Superintendent of Schools, SD27 _____

Margaret Henley
Area Manager Roads, MoTI _____

Geoff Goodall
City of Williams Lake _____

Cariboo Regional District _____

APPENDIX A

1. Contributors

As agreed to by the Williams Lake Air Quality Roundtable and outlined in this document, the contributors to the particulate monitoring participation agreement include the following:

A) The Ministry of Environment – responsible for all monitoring instrumentation except for monitoring pursuant to permit requirements. MoE will provide staff for preventive maintenance, audits and calibrations. MoE will conduct regular data analysis and present the results to WLAQR.

B) Permitted operations that emit more than 1% total of fine particulate matter (PM in Tonnes/year) from that sector into the Williams Lake airshed.

C) The School District No. 27, the City of Williams Lake, the Cariboo Regional District, the Ministry of Transport & Infrastructure and the Cariboo Fire Centre (will provide in-kind contributions and/or direction on network configuration).

2. Annual Contribution

The annual operating costs of the non-continuous particulate monitoring at Glendale (PM_{10}), Golf Course (PM_{10}) and Fire Hall (TSP and $PM_{2.5}$) are as follows:

Consumables (Partisols): $500 per instrument/year × 4 instruments= $2,000/year
Filters (Partisols): $25/filter × 60 filters/instruments/year × 4 instruments= $ 6000/year
Total cost is $8,000/year.

The permitted operations listed in this Agreement as Contributors agree to contribute in proportion to their permitted emissions (or estimated emissions using stack test data if applicable) per calendar year. Emission estimates and annual contributions will be reviewed annually.

Contributors

Permit	Company
1548	West Fraser
1764	West Fraser
2484	Tolko
3679	Tolko
8796	Parallel
8808	Atlantic Power
17557	Pinnacle Pellet

The permitted operations listed as Contributors in this Agreement will direct their annual contributions to WLAQR:

- Contributions for the 2013 calendar year will be directed to WLAQR by no later than Feb 15th, 2013.

- Contributions for subsequent years will be directed to WLAQR by no later than Feb 15th of each calendar year.

The costs associated with consumables and the emissions may change over time. These costs and emissions will be reviewed every year and adjusted as required.

Definitions

1. Consumables

Consumables are those parts that are required to maintain the particulate monitoring network on a day to day basis including those parts that are routinely replaced in any calendar year.

2. Non- Continuous Monitoring Stations:

Non-continuous monitoring stations are described in Table 1.

Table 1: Station instrumentation description, location:

Location	Instrumentation
Golf Course	• PM_{10} Partisol
Glendale	• PM_{10} Partisol
Fire Hall	• $PM_{2.5}$ Partisol • TSP Partisol