



PAMZ | **Parkland Airshed Management Zone**

Minutes: **Technical Working Group Meeting**
Date: **November 19, 2010**
Location: **ERCB Red Deer, Midnapore & St. Albert Offices**

Red Deer Attendees:	Heather Callicot - NOVA Trent Myck - Imperial Oil Jim Saltvold - Public Brian Vanderzwan - Imperial	Brian Goliss – Shell Canada Dale Nylund - Altagas Mohammad Shoaib - AENV Reg Watson – Public	David Helmer - AENV Aaron Rognvaldson - Husky Al Simcoe - West Fraser
Midnapore Attendees:	Al Duben - ERCB Colin Long - Keyera Kevin Warren - Amarok	Lee Flores - Focus Lee Loran - Focus	Harold Gold - Bonavista Dean Thompson ERCB
St. Albert Attendees:	Marcella deJong – Dow	Monique Lapalme - EnvCan	

Bolded Items are Action Items

1. The meeting was called to order by Group chair, Aaron Rognvaldson at 0910.
2. The attendees in the Red Deer, Midnapore and St. Albert introduced themselves.
3. The agenda was reviewed and accepted with the addition of the following items under other business:
 - Comprehensive Air Management System (CAMS)
 - AENV Airshed and WPAC Value & Funding Options Project
 - Planning Committee and Issues Response Group Update
4. The minutes of the Sept. 10, 2010 meeting were accepted.
5. The status of action items arising from the June 10, 2010 meeting was reviewed.

The ERCB will coordinate a monitoring survey in the Delburne area on a day with southwest winds to try and pinpoint the source(s) and will follow up as needed. Kevin will contact Al Duben to firm up the arrangements. **Done** Discussed later

Al Duben will arrange for a survey of local O & G Production Facilities at the James River site using ERCB's FLIR camera and mobile monitoring unit when the station returns to the site in November. **Carry Forward** Al will try to arrange a survey for December 6-7 before the station is relocated to the Mirror Site.

Kevin will follow up with PASZA and Calvin Consulting about the QAP Audit work. **Done.**

The price quoted in the proposal is firm. The group agreed to give the work to Calvin Consulting.

Action: Kevin will contact Rienzie Balkaran and arrange for the quality assurance plan audit.

Action: Kevin will provide Harold Gold with Calvin Consulting's contact info.

6. PAMZ AQM Program

The week following, the September TWG meeting, the four PAMZ stations were audited by Alberta Environment. The results were the best ever in the history of PAMZ; 37 of 39 instruments/sensors passed with only two failures noted in the report. The wind direction vane at Delburne was out by 7 degrees and has subsequently been realigned correctly. The flow of the BAM 1020 PM_{2.5} Analyzer at Trochu was low by 3.5%. Kevin and Focus challenged AENV's assertion that the PM_{2.5} analyzer's flow failed using 3% as a spec versus the $\pm 5\%$ value that was provided by the manufacturer when the analyzer was purchased. AENV agreed to accept the $\pm 5\%$ for a flow spec and an audit closure letter was received. The Red Deer THC and PM_{2.5} (TEOM) analyzers still need to be audited as both were down on Sep. 13.

Gary Cross has recently resigned from Focus to take a position as Ambient Monitoring Program Manager with the Wood Buffalo Environmental Association. This is not expected to have a significant effect on Focus's capabilities as his replacement, Kelly Baragar has been running their field operations since the start of their contract with PAMZ in the fall of 2008.

Based on the audit results, their overall performance this past year, and a very slight price increase proposed for 2011 it was agreed by consensus that PAMZ's contract with Focus be extended for another year (2011).

Action: Aaron will communicate the TWG's decision to extend Focus's contract to the PAMZ board at its Nov. 24 meeting.

6.1 Caroline

Since the last meeting two more high PM_{2.5} readings were observed during extreme precipitation events (rain, heavy fog, snow). It is thought that the humidity associated with the events is overwhelming the analyzer and the data collected during the events have been invalidated. The Shell Caroline Plant's sulphur train went down on Monday, Oct 26 and both the Caroline and Limestone gas fields had to be depressurized primarily through flaring at a number of locations. There have been several large SO₂ readings since the plant went down but no exceedences of the SO₂ Air Quality Objectives at the Caroline Station. Shell hired a downwind monitoring company to monitor SO₂ and H₂S levels in the area. The plant was still down at the time of the meeting.

6.2 Red Deer

All observed pollutant levels have been within normal historical ranges since the September meeting. There were problems with the PM_{2.5} analyzer's mass flow sensing

unit which resulted in 86% uptime in September. The replacement part was installed after some delay in getting the correct part from AENV and the unit has been fully operational since late September. There has been a lot of earth-based construction in the area around the station which has shown up as more frequent and higher readings of THC, NOX and PM_{2.5}.

6.3 Martha

The station was located at the Delburne site in September. While onsite there were several large SO₂ readings that while below the Alberta Ambient Air Quality Objectives were significant for the program. Working with the ERCB, the source of the readings was determined to be a nearby battery operated by Crew Energy. The ERCB is currently working with the company to resolve the problems that were leading to the high readings. There is a possibility that PAMZ could be asked to conduct follow-up monitoring in 2011.

The station was located at the South Edgar Industrial Site in Red Deer in October. All observed pollutant levels for the Red Deer station have been within ranges seen during monitoring done back in April.

The station has been at the James River Site (Kyler Residence) since Nov. 3. One PM_{2.5} exceedence was observed on Nov. 11, 135 ug/m³ 0900-1000 WNW 2 kph. Wood smoke from resident's chimney is the source. As discussed earlier the ERCB plans to conduct a mobile fugitive hydrocarbon survey using their FLIR camera during the first week of December while the station is still onsite.

Kevin had a teleconference with Bryan Thornton, Harry Benders, Yayne-abeba Aklilu of AENV & Gary Cross of Focus concerning protocols for a VOC and PAH sampling program to be initiated during the December monitoring campaign at Mirror. It was agreed that there should be one baseline sample and three event samples if conditions permit.

Kevin is still waiting for Yayne-abeba Aklilu's assessment of the VOC data collected at the Louis Lake Site in early August.

6.4 McCoy

The station is now at the Crossfield-Carstairs site and will remain there through March 2011. To date, all observed pollutant levels have been within normal historical ranges since startup in early October. The group agreed to review historical data from this site in more detail following this monitoring to determine if there is still a need to monitor here. As reported last meeting there were no large ozone events (AAAQO exceedences) noted during the entire time the station was at Trochu this summer.

6.5 Passives

Spatial patterns and magnitudes observed during August and September were consistent with historical records.

7. Ozone Management Plan

PAMZ did not receive funding for a VOC monitoring program for the Trochu, Red Deer

and Caroline Stations this past summer.

Work has now begun on the short-term actions that PAMZ received funding for in 2010 GOA fiscal year. There have been some difficulties obtaining the files needed to make a functional education website using FAP's website. No working files could be located so our contractor has been decompiling them from the FAP website however files for videos and games cannot be accessed in this matter. Kevin is waiting to hear from FAP if their contractor, AGAT, will provide them.

Kevin is working with Sue Arrison on 2nd set of deliverables focused on public outreach and education. Her concept for a workshop in early March that would put education and outreach tools in the hands of stakeholders to help them implement the management plan was discussed Wednesday at the CC Meeting. Monica Rosevear is assisting in the gathering and distribution of information as well as the results of the first OMP survey.

Kevin expressed his concerns with timing of present contract system. Will be seeking funds to start work on medium-term actions in OMP from March 2011 onwards rather than just fall. It was agreed that the Ozone Management Plan Committee needs to reconvene to both develop and to oversee the implementation of the deliverables associated with the medium-term objectives.

Action: Mohammad will make arrangements for a meeting of the Ozone Management Plan Committee at AENV Red Deer Office on the afternoon of the next TWG meeting.

8. 2011 BUDGET

Kevin tabled the draft operating budget that the PAMZ executive was proposing for 2011. The

Group reviewed the budget and various options to hold or reduce costs. It agreed to recommend to board that \$60K be allocated for the capital reserve in 2011 and that capital expenditures would include one calibrator with a dedicated zero air supply (McCoy), one NOX analyzer (McCoy), and one data acquisition and control system (Caroline). Annual Department of Transport trailer certification costs were moved out of the reserve and into operating costs.

It was agreed that PAMZ will pilot a six-month study consisting of three two-month exposure passive samples for all three parameters (NO₂, O₃, and SO₂) at the Red Deer and Caroline monitoring sites concurrently with the regular sampling program. At the conclusion of the study and after a review of the results, the TWG will decide whether or not to apply to AENV to change over the entire monitoring program to two-month sampling. This changeover would cut the passive monitoring program's cost in half.

Kevin has had some discussion with NOVA concerning their offer of donating a surplus mobile monitoring unit to PAMZ. The unit is mounted on a truck and the shelter, its support systems, and the truck itself are in very condition. Incorporation of the unit into the PAMZ monitoring program would require monitoring equipment and funds to operate and maintain the unit. The equipment could be drawn from a PAMZ surplus equipment pool over time.

Funds to run it would require additional revenue or cuts to other aspects of the PAMZ monitoring program or other activities.

In the end the TWG decided to decline NOVA's generous offer primarily because of two reasons:

- A consensus that PAMZ's current portables are addressing the volume of issues that require air quality monitoring, ie no large backlog of issues/sites.
- Operation of the mobile unit even in same fashion as current portables and not as a mobile, would require funds over and above what membership as a whole is willing to cover. There is potential for reduced operating costs for the passive program in future however the desire is that any cost savings would be passed along to our large member companies.

The draft budget and resulting AEPEA plant funding allocations are attached to these minutes.

Action: Kevin and Aaron will table the proposed budget and associated TWG recommendations at the November 24 Board of Directors Meeting for their approval.

9. Other Business

CAMS Framework

Because of time limitations discussion of the national Comprehensive Air Management System (CAMS) recently approved by the CCME was deferred to a future meeting.

Action: Kevin will distribute the media release concerning CAMS and a document outlining the framework to TWG members.

AENV Airshed and WPAC Value & Funding Options Projects

Kevin presented information to the group about two AENV Airshed and WPAC Value & Funding Options Projects. The first is focused on funding for monitoring and is being conducted for AENV by AMEC. The second is focused on funding for management activities and is being conducted by the University of Alberta's Centre of Applied Business Research in Energy and the Environment. To date there has been no contact with airsheds from AMEC looking for input for their work. The U of A held a 90-minute teleconference with airshed managers and will be holding a survey in early December concerning management activities airsheds are currently involved with and what they may consider in future. Once the results of that summary have been summarized a second survey testing the conclusions made by the Centre will be distributed to airsheds' member organizations.

Planning Committee and Issues Response Group Update

The PAMZ planning committee is running a member contribution survey on the Survey Monkey website. The survey will help the planning committee determine PAMZ's capacity to achieve the 5-Year objectives from a labour perspective and all member organizations are encouraged to participate.

The Issues Response Group will be tabling draft charter at the Nov 24 Board Meeting for developing a process to ensure Air Quality issues are addressed by PAMZ within 90 days. Deliverables for this work may include recommendations for trailer guidelines. Their target for presenting a final report to the board is June 2011.

10. 2011 Meeting Dates

The following dates are being proposed by the executive for TWG and Board Meetings in 2011:

	TWG	Board
Jan	14	19
Mar	25	30
Jun	10	15
Sep	16	21
Nov	18	23

At the next meeting the group can discuss if videoconference meetings should be limited to winter months only (November, January and March) with everybody meeting in Red Deer for June and September meetings.

11. Upcoming Events

- WCAS Ag Monitoring Program Results Summary – Drayton Valley Nov 22
- AUMA Conference – Shaw Convention Centre, Edmonton Nov 23-24
- PAMZ Board Nov 24
- Open Space Data Seminar Nov 25 - Edmonton
- Ad Hoc AENV Data Quality Committee – Edmonton Nov 30
- West Central Stakeholders Info (What the Frac) Night – RMH Nov 30
- AAC Edmonton Dec 1
- CASA Board Dec 2 – Edmonton
- ESAA Conference Air Quality Management Feb 16-17 Marriott River Cree Resort - Edmonton.

12. Next Meeting – January 14, 2010, 0900 - 1200 hrs by Video Conference at the Red Deer, Calgary and St. Albert offices.

ADJOURNMENT

The meeting was adjourned at 12:10