



PARKLAND AIRSHED MANAGEMENT ZONE TECHNICAL WORKING GROUP (TWG)

MEETING MINUTES

Date: Friday, September 11, 2009
Time: 0935-1210
Location: ERCB, 2nd Floor, 4909 - 49 Street, Red Deer
Chair: Shane Lamden

Attendees: Lloyd Cumming - Public
Lenin Flores - Focus
Curtis Horvath - NOVA
Jennifer Lutz - ERCB
Al Simcoe - West Fraser LVL
Reg Watson - Public
Marcella deJong - Dow
Harold Gold - Bonavista
Shane Lamden - NOVA
Dale Nylund - Altagas
Brian Vanderzwan - Imperial
Kevin Warren - Amarok
Al Duben - ERCB
Brian Goliss – Shell
Colin Long - Keyera
Aaron Rognvaldson - Husky
Pam Vust - Red Deer

Bolded Items are Action Items

1. The meeting was called to order by the chair Shane Lamden at 0935.
2. Those present introduced themselves. Mansoor Ahmad (AENV) is on paternity leave and Warren Grimes is unable to attend because of travel restrictions.

Action: Kevin will follow-up with AENV and PAMZ Board

There was discussion about videoconferencing to reduce travel requirements for members to participate.

Action: Jennifer will look into video conferencing next TWG meeting through ERCB facilities in Red Deer, Edmonton, Calgary and possible the Community Learning Campus site in Sundre.

3. The agenda was reviewed and accepted with the addition of Environment Canada Request, Honouring David McCoy and an Update on City of Red Deer Anti-Idling Campaign, all under other business.
4. The minutes of the June 12, 2009 meeting were accepted.
5. The status of action items arising from the June 12, 2009 meeting were reviewed.

Kevin will make arrangements for monitoring at Tom King's residence in June provided monitoring at the Bighorn site is not extended into June. **Deferred** Monitoring at King Residence deferred to 2010. See Item 8

Kevin will make arrangements to have PAMZ boundary map redrawn to reflect changes. **Done**
Kevin presented new maps prepared by Kevin McCullum.

Kevin will ensure 2010 Budget includes funding for Internal Audit of PAMZ Quality Assurance Plan by a third party during first quarter of 2010. **Carry Forward**

Kevin will contact Al Duben (ERCB) and ask him to conduct mobile THC monitoring survey using FLIR camera in November or before. **Cancelled** Further investigation subsequently determined that elevated THC levels were in fact an analyzer problem. Analyzer currently out of service.

Kevin will recalculate funding allocations for all facilities assuming no minimum/maximum \$1,000 contribution for small facilities. Spreadsheet will be for discussion purposes only. **Carry Forward** S2, S8 and S30 Data for small facilities not yet received from ERCB.

Action: Al and Kevin will follow-up with Jim Spangelo

6. PAMZ AQM Program

AGAT Update

Outstanding balance on four Invoices is \$7,981.49. Kevin has received a letter from AGAT indicated they are willing to waive \$945 in charges associated with one month of monitoring for SFP PM Monitoring project. A new invoice relating to the provision of data to Senes (\$525) was paid. Kevin will talk to lawyer to discuss ramifications of paying reduced balance (\$7,036.49).

Senes Report

Over the summer, Senes worked on revising report based on feedback by Brian, Shane & Kevin. Still issues with how data on days where raw zero values $> \pm 3\%$ FS from absolute zero were considered, as well as the treatment of small negative values in processed data that when rounded off are reported as zero. There are also some concerns with preliminary conclusions pertaining to BAMS data i.e. should be able to flag it in CDW rather than remove. A teleconference with Senes is planned for next Thursday (Sept. 17) to discuss finalization of report. There are linkages with the Ad Hoc AENV-AAC Audit Committee work and the CASA Data Warehouse Audit currently underway.

CASA Data Warehouse Audit

Mandeep Dhaliwal (ex-RSLS) was contracted to extract the 2006-2007 Raw & Processed Red Deer and Caroline data from PAMZ data archive (binary format) and convert it to .csv files. This data, the monthly reports, monthly calibrations and annual audits were all sent to Air Resource Specialists in Ft Collins, Colorado. They have acknowledged its receipt with no further updates at this time. The draft report will be distributed to the CASA Operations Steering Committee before being finalized.

6.1 June 25-26, 2009 AENV PAMZ Network Audit

Critical Issues

The audit determined that H₂S gas used by Focus was out. Only two locations failed but values for all 4 stations had been calibrated and so all data collected since gas was used (Sep 2008)

was corrected resulting in concentrations lower than originally reported. The normal procedure is to have gas checked by AENV before using but AENV was unable to schedule Focus in and gas was never checked.

The THC Analyzer at Caroline failed. This Analyzer underwent major overhaul week prior and pressures changed between the calibration and audit. It is scheduled for replacement asap (See Item 6.2). Interim data was invalidated.

The NO₂ & O₃ sample lines at Caroline were left detached from manifold after it was cleaned on June 21. All data from 21-25 was invalidated.

Non-Critical/Other

Station temps >1°C from AENV, manifold orientation at Caroline, dusty TEOM Sample head, limited hard copies of station docs at station (digital), RH in BAMS at Martha out (can't compare with ambient).

PAMZ received a closure letter from AENV on August 14 indicating they are satisfied that all actions completed or underway have adequately addressed the audit findings.

Action: Kevin will post an electronic copy of the Audit Report and Closure letter on the PAMZ Website.

Action: Shane will check with Raj N. at Red Deer College about an Air Quality Monitoring Program.

6.2 Caroline

All readings within normal historical levels and there have been no exceedences since last meeting.

Over the summer there were problems with the Rosemount 400 THC Analyzer (10 years old). Kevin attempted to borrow one from AENV or rent one but there was nothing available of newer vintage. Analyzer had also failed AENV audit (see item 6.1 above). A replacement Teco 51i has been ordered and is expected early October. The money will come from capital replacement fund.

Batteries on the BAMS unit failed (burst) and as a result BAMZ was having problems keeping settings stored on Eprom after power interruptions. The board replaced by Met One free of charge and Focus is replacing batteries on other two units.

The Telus landline reconnected late August, and Schmiemann's completed installation of the new fence around site.

6.3 Red Deer

All readings within normal historical levels and there have been no exceedences since last meeting.

6.4 Martha

The station was at Bighorn during May & June. Kevin juggled schedule to go to Gilby in July as Harmattan site (Ken Trout's ¼ section) was not ready. The Harmattan site's power was not hooked up by Fortis until Aug. 12 and not calibrated until 14. Shane, Brian and Kevin made a decision made to keep at site until end of Sept. and not monitor at James River Site (King) in 2009; it would have been for one month only. At its August 8 meeting the IRG agreed to include King Site in 2010 Martha schedule.

Levels at the Gilby site in July and early August were at or near background levels. There is a strong correlation of NO readings with SW winds at Harmattan site. Similar for SO₂ and TRS but much lower levels. Also high NO_x levels during night and early morning when light winds are from West (Highway 22). Scheduled to go back to Oriole Park School in October, the School bus drop-off now is now east of the school (southeast of site).

Action: Kevin will send Harmattan data to Dale Nylund to review and comment on possible sources.

6.5 Raven

The station was at Bentley for the 2nd quarter and is now at Crossfield-Carstairs. There were few SW winds at Bentley, when there were in the evening and night there was sometimes low level TRS < 3 ppb. Kevin has generated a correlation of readings and complaints received by NRCB and will make a presentation to town in October. There is limited correlation and readings are generally in 1-2 ppb range.

Crossfield-Carstairs levels are currently within historical normals. On August 27 were seeing an indication of elevated TRS and THC Readings with NW winds. Kevin called the ERCB to see if any incidents in the area, had spotted an HSE AQM unit on west side of 2 near Carstairs overpass around 0930. Lenin was on site to calibrate confirmed operation of analyzer with input of cal gas. The readings abated in early afternoon but then climbed steadily into evening resulting in a TRS Exceedence at 1600 MST (17 ppb with SW winds). Kevin stopped in at trailer around 6 PM analyzer reading 47 ppb but no H₂S odors so he asked Focus to invalidate data and investigate next morning. They found that a mouse had gained entrance to the manifold blower fan causing it to fail. The gases from the mouse's decomposition were what the TRS analyzer was picking up.

The station is scheduled to move to Beiseker for the 4th quarter. Kevin has a request before Council at their meeting Sep 14. The site would be in village campground in town's northeast.

6.6 Passives

All observed levels since last meeting were consistent with past trends and spatial patterns.

7. Ozone Management Plan

AENV's media release of acceptance has been delayed (was going to be June 3). With Mansoor Ahmad on paternity leave a replacement chair is needed (See Item 2). PAMZ's

funding application for \$56K for resources for short term actions accepted by AENV. The contract with AENV was signed off July 15. PAMZ will use Stantec for some of actions (data gap analysis and NPRI trend report), Monica Rosevear for others (after Nov) and will publish Annual Ozone Management Plan Report rather than downsize into PAMZ Annual.

8. 2010 Portables Schedule

The Issues Response Group met on August 8 and finalized the 2010 locations for the Martha Station. The TWG agreed to a schedule that separates two monitoring periods as much as possible and avoids monitoring during months when monitoring was previously done at any repeat sites.

January & July:	Delburne
February and August:	Nevis Gas Plant
March and September:	Edgar Industrial Area in Red Deer
April and October:	James River (King Residence)
May and November:	Dovercourt area (West of hwy 22)
June and December:	Willesden Green-Wilson Creek Area

Alternate locations would be a high traffic gravel road or in an area with slash burning.

After much discussion the group agreed to the following schedule for the Raven station for 2010:

January to March:	Bashaw
April to June:	leave open, pending report from Stantec (may be specifically to address ozone)
July to September:	leave open, as for Q2
October to December:	Crossfield-Carstairs site

Alternate locations include: Bergen, Sylvan Lake, Eagle Hill, or Bowden (landfill odour issues)

Action: Shane will table the TWG's recommendations to the PAMZ board for approval at their September 24 meeting.

Action: Kevin and Shane will add April-September 2010 Raven scheduling to agenda of first TWG Meeting in 2010.

9. CASA Ambient Monitoring Strategic Plan (AMSP)

The CASA AMSP team finalized its report which is expected to be accepted by the CASA Board of Directors on Sep. 23. The team reached consensus on 26 of 28 recommendations including consensus on:

- Establishing a multi-stakeholder implementation committee for the plan (MIC) which may replace CASA OSC.
- 7 Monitoring Sub-programs including Industry Compliance Monitoring

The team could not reach consensus on two recommendations regarding funding to implement the enhanced ambient air monitoring system and ensuring long-term sustainable funding. Alberta Environment blocked consensus on recommendations #20 and #21. The Government of Alberta cannot provide the funding certainty implied by these recommendations. The CASA Board will have to consider how to resolve this lack of consensus.

It was recognized in report that implementation of the strategy will be impacted by land-use management framework, integrated monitoring and environmental reporting framework (IMERF) the renewed Clean Air strategy, and other government of Alberta Initiatives currently underway or being considered.

AENV recently released an RFP for completion of the updated Air Monitoring Directive, an approach that does not sit well with a number of members of the ad hoc committee that was previously tasked with this and then put in abeyance.

Action: Kevin will provide a copy of the Plan to the TWG once it has been approved by CASA Board.

Action: Shane will provide Kevin with a copy of the data User's Survey being conducted by IPSOS-Read.

10. Other Business

East Central Airshed

The East Central Airshed group met July 18 and decided to submit an application for funding from AENV to do a feasibility study (approx. \$50,000). As the group does not have legal status, it was agreed that the application would be made through the Battle River Watershed Alliance or Ponoka Fish & Game Association. At a meeting of the Battle River Watershed on August 26, it was decided not to sponsor the application. The group is now looking at other ways to submit the application.

Environment Canada Request

Kevin presented a request by environment Canada for direct access to PAMZ's real-time air quality data. They have had problems getting timely access to the data through the CASA Data Warehouse. They would work directly with focus and there would be no cost to the Airshed. It was agreed that PAMZ defer a decision until the matter can be discussed more fully at the CASA OSC meeting in October and the upcoming Alberta Airsheds Council meeting. Preference would be that the AAC would have a consensus position on the matter.

Honouring David McCoy

After discussing David McCoy's contributions to PAMZ and the precedent set by renaming the Peregrine Station to the Martha Kostuch Air Monitoring Station it was agreed that David's contributions should be similarly honoured.

Action: Shane will table recommendation that the Raven Station be renamed the David McCoy Air Monitoring Station at the next PAMZ Board meeting.

City of Red Deer Anti-Idling Campaign

Pam reported that the City of Red Deer is implementing an Anti-Idling Campaign. Idle Free zone signs are now posted in front of several City of Red Deer facilities to remind motorists to shut off their engines when parked. The signs are part of Red Deer's public education campaign to remind motorists to reduce unnecessary idling. If drivers are stopped for more than 60 seconds they want them to turn off their engine.

Over the past few years, The City received numerous requests from schools, churches and individuals requesting idle free signage for their properties. While The City is not able to provide these signs directly to the general public, they have made the design available to local sign shops so individuals or organizations can purchase them from Red Deer businesses.

The City also is including information about PAMZ on the back of the anti-idling insert that was sent to Red Deer utility customers in September. Kevin indicated that the City's campaign fits well with the objectives identified in the PAMZ Ozone Management Plan and that the communications committee should consider passing information about it on to other municipalities in the zone.

12. Upcoming Events

- PAMZ Board Planning Workshop and Meeting, Sept. 24, 9:00- Noon and 12:30 – 2:30 PM, Pioneer Lodge, Red Deer
 - ZoneVolution Zones Conference – Oct 19 & 20, Mayfield Inn Edmonton, Early Bird Registration TODAY!
 - Synergy Alberta Conference Oct, 26-28. Capri Inn, Red Deer
11. Next Meeting - **Friday, November 13, 2009**, 0900 - 1200 hrs by Video Conference at the Red Deer, Edmonton and Calgary ERCB offices and possibly the Sundre Community Learning Campus Site.
12. Adjournment - meeting was adjourned at 12:10