



PARKLAND AIRSHED MANAGEMENT ZONE TECHNICAL WORKING GROUP (TWG)

MEETING MINUTES

Date: Friday, March 28, 2008
Time: 0900-1200
Location: AEUB, 2nd Floor, 4909 - 49 Street, Red Deer
Chair: Shane Lamden

Attendees: Mansoor Ahmad - AENV Sherlise Berteig - Husky Dorothy Connoy - AGAT
Lloyd Cumming - Public Joffre Dechaine - Agrium Harold Gold - Bonavista
Brian Goliss - Shell Warren Grimes - AENV Shane Lamden - NOVA
Chris Levesque - AGAT Jennifer Lutz - EUB David McCoy Husky
Dale Nylund -Taylor Matilda Ricci - AENV Greg Ritz - DTHR
Maria Sharpe - ASRD Pam Vust - City of Red Deer Kevin Warren - Amarak
Reg Watson - Public

Bolded Items are Action Items

1. The meeting was called to order by the chair Shane Lamden at 0910.
2. Those present introduced themselves.
3. The agenda was reviewed and accepted. The update on the Ozone Management Plan was moved to after Item 7 before the break to accommodate Matilda Ricci's schedule.
4. The minutes of the January 11 meeting were accepted.
5. The status of action items arising from the January 11 meeting were reviewed.
 - Kevin will work with Hamed to have all of 2007 data available for annual report and to select elements of interest to PAMZ that can also be tracked by the sampling program. **Done.** Hamed will write a summary for the 2007 Annual Report.
 - Kevin will follow up with AGAT to ensure they attend all TWG Meetings. **Done.** Richard has left AGAT. The new Air Quality Monitoring Dept. Manager, Dorothy Connoy and Chris Levesque were in attendance at the meeting.
 - Kevin and Brian Goliss are meeting with AGAT to discuss concerns re: QAP implementation, recent downtime, and other issues. Aaron and Shane will also attend. **Done.** Discussed further under item 6.
 - Husky will bring a proposal for continuation of the TRAC monitoring program to the group at the next meeting. **Done.** Husky presenting proposal under item 8.1.1
 - Kevin will distribute the letter to long-time PAMZ members and use their input in the preparation of his letter of response to CRAZ. **Done.** PAMZ Chair, Andy Lamb, sent the letter.

6. AQM Program RSLs-AGAT Transition Update

6.1. Reporting

- The AENV Annual was received just in time to submit day before March 15 deadline.
- Mandeep Dhaliwal was retained to export the 2007 hourly data from RSLs to AGAT in order for AGAT to complete the annual report.
- AGAT's reporting system will not generate .pdfs that can be posted on the PAMZ Website. AGAT is planning to revamp their system. They are meeting with Matt Eisentraut to explore using his software (this is one option).
- The January 2008 reported was submitted on March 17, two days late; AGAT wrote a letter of apology which was also forwarded to AENV. The November & December monthly reports were only received 2-3 days before deadline. AGAT's report delivery must improve. Chris committed AGAT to meeting deadlines in the original RFP.
- Kevin received a letter from AENV concerning PAMZ's failure to submit data for Red Deer to CASA Data Warehouse for last 6 months of 2007 and transmitting hourly data and Air Quality Index to Telus Geomatics site. The deadline to resolve these two issues is April 30. These are two conditions in the Red Deer Station Operating Agreement. The second item dates back to the station's turnover in 2005. Chris committed AGAT to meet the April 30 deadline. (Dorothy had not arrived at the meeting at this time but after her arrival, later in the meeting, she provided an update i.e. AGAT working on it).

6.2. Quality Assurance Plan (QAP)

- The deadline for implementation of April 1 will be met. The PAMZ QAP - Version 1.0 is now on PAMZ Website.
- The PAMZ plan's appendix still requires a table of contents of AGAT's Standard Operating Procedures.
- Kevin received AGAT's plan only two weeks prior to the meeting. He reviewed their plan for the group. The plan layout is good and meets AMD Requirements and much of the plan contains references to Internal AGAT documents that Kevin could not access. There are no SOPs for operation of some of PAMZ's instrumentation and all the continuous monitoring SOPs need to be more detailed (not checklists).

ACTION ITEM: AGAT will provide Kevin with a final Hardcopy of their QAP, their complete upgraded Standard Operating Procedures and a Table of Contents that can be included in the PAMZ QAP Appendix.

6.3. Other

- The PAMZ network is currently being serviced by AGAT Staff from Edmonton and Calgary. Members expressed concerns about AGAT's staffing levels. AGAT is planning on hiring additional dedicated AQM field and reporting Staff.
- There continues to be excessive downtime for some continuous monitors and Kevin is not being notified in a timely manner.
- Notification of alarms is improving but is still not immediate, usually next day.
- There is still a backlog of monthly data aside from Red Deer that needs to be submitted to the CASA Data Warehouse and the historical 1, 5 and 60 minute raw and processed data has not been transferred from RSLs to AGAT.

ACTION ITEM: AGAT to meet with RSLs ASAP and make arrangements to transfer the historical data.

ACTION ITEM: AGAT and Kevin will meet monthly at a minimum to discuss AGAT's

progress in achieving the deliverables outlined above and the operation of the PAMZ Program.

7. AQM Program and Special Programs Update

Kevin presented summaries of the operation of the PAMZ AQM network since the previous meeting.

7.1 Caroline

- All levels at the Caroline Station have been within historically observed ranges since last meeting except at 0400 on March 13 - 113 ppb SO₂, the maximum was off scale i.e. >500 ppb. An investigation determined that the source of the reading was a Hunt Oil well test underway WSW of the station. There was an 81 µg/m³ PM_{2.5} at 0300 on Jan 26 related to wood smoke in the James River Valley. Kevin is still waiting for detailed pricing from AGAT on replacement skid-mounted shelter. The station may be available as early as 2nd quarter but more likely in the 3rd quarter.

7.2 Red Deer Riverside

- All levels at the Red Deer Riverside have been within historically observed ranges since last meeting. Highest H₂S reading was 4 ppb hourly average.

7.3 Martha

- Kevin is scrambling to find a Red Deer Vehicle Idling Site as Edgar Industrial Monitoring related to complaints about particulate from a facility may provide better results when done with warmer temps in July. This monitoring may require some other testing from AENV to qualify results. Locating a suitable site is proving difficult (lots of buildings and other sources).
- The Sask Crossing/Kootenay Plains prescribed burns (Bighorn Reserve Site) are tentatively scheduled for May or September and the schedule has been adjusted to accommodate this.
- While at the James River location from January 24 – Feb 5 there were 6 exceedences of 24 hr ave objective for PM_{2.5} (30 µg/m³) and 10 exceedences of 1-hr (80 µg/m³) linked to wood smoke in James River Valley. Again, the suspected source(s) are burning of waste from cut-blocks in the West Country. PAMZ IRG held a meeting with AENV, ASRD and Forestry companies to discuss issue posed by cut-block burning. It is a practice accepted by ASRD that can potentially move PAMZ into a PM_{2.5} management zone or worse contravene, Canada Wide Standards. It was agreed that AENV and ASRD will raise the issue at a higher level.
- Martha was at the Bechton Site in February. This is a site located in an area with concerns about emissions from ILOs and O&G activities. All levels were within historically observed ranges.
- In March the station was relocated to the Niobe Site on the southern face of Antler Hill. The monitoring will provide background for a proposed biofuels plant on Highway 2A North of Innisfail. Levels to date look to be within typical historical levels for region.

7.4 Raven

- Raven was at the Crossfield-Carstairs location for 1st quarter. All levels were within historically observed ranges except for one exceedence of 24 hr ave objective for PM_{2.5} on Feb. 4 - 32.5 µg/m³. The NO₂ Monitor will be operating for less than 90% for March. It was down from

March 17-20. A replacement Analyzer Installed on March 19 and calibrated on 20th. The next site for Raven is Olds College for the entire 2nd Quarter.

7.5 Passives

- The passive network displayed normal patterns for 2007 SO₂ 0.48 ppb same as 2006. NO₂ same as 2006 – 2.5 ppb O₃ 32.73 ppb 0.5 ppb increase from 2006. A review of LICA's monitoring program by RWDI was critical of the representativeness of their Passive Network and its accuracy when compared to continuous monitors. Kevin reviewed a comparison of PAMZ's Caroline and Martha co-located passives and continuous monitors. The correlation continues to be impressive and the PAMZ SO₂ network trends are reflective of trends in declining emissions.

9. Ozone Management Plan

- Draft emissions inventory and episode analysis done on Red Deer Census Area only, did not analyze episodes with other PAMZ data or EC modelling, focussed on calculations themselves. Deadline March 14 extended to March 31 for revisions, Now 2nd week of April due to author's illness
- Review of legislations, policies and initiatives study due March 31
- Draft plan TOC and schedule developed at Feb. 26 meeting, the next general committee meeting is April 1. Neighbouring airsheds have been invited to the meeting to share information. Matty will be stepping down as chair as she has accepted a new position in Edmonton.
- A draft stakeholder engagement strategy is being developed by Communications Committee. Public Workshops tentatively scheduled for June and September
- There will be an Update Meeting/Workshop with AENV and Other Airsheds on April 24 in Edmonton
- A data needs sub-committee scheduled later for today was cancelled at the meeting as there was no new data to review. (Episode analysis being revised)

8. Special Projects

8.1 Tay River AQM Program

- Passive levels within normal, with higher levels around Strachan Plant with their increased processing of Tay Gas. Inversions during late January produced noticeable effects on levels i.e. higher. The passive program is scheduled to conclude at month's end.

8.1.1 Husky Proposal

- Shelise presented a proposal from Husky to take over the existing TRAC network as part of a two-year program to monitor the environmental impacts of a stack-top reduction program. Two passive stations will be added to east of plant. Kevin would work with Husky to locate the samplers and will continue to manage the program. All costs will be borne by Husky. Husky's proposal was accepted by consensus.

ACTION ITEM: Shane will table the TWG's recommendation that PAMZ accept the proposal at the April 2 Board Meeting. Implementation of the program will be pending AENV Director Approval.

8.2 Sundre Forest Products PM Sampling

- There were two TSP exceedences on Jan.7 – 227 ug/m³ and Feb. 24 – 131 ug/m³, probably not related to mill operations as with previous exceedences.
- Some sampling difficulties Jan 31 – Feb 17 (no results for 4 TSP samples). AGAT unable to provide an explanation at this time.

ACTION ITEM: Dorothy will provide more details on missing results at next meeting.

8.3 West Fraser Mills Partnership Opportunity

West Fraser is now planning to use Electrostatic Precipitators and have amended their application accordingly. This will most likely negate the need for an ambient PM monitoring program.

8.4 Mercury Deposition Sampling Program

- The GSC will be soon installing a new gravimetric precipitation gauge at Crossfield site, which is capable of making very precise measurement of the total precipitation at the site. The unit costs and installation together will come up to around \$8000, which is paid through a joint-project funding they have received from Environment Canada. The current AGAT field technician (Chris Bray) will be trained with the new precipitation gauge as soon as the installation is completed.
- They are measuring the whole series of trace elements, which include As, Cu, Cd, Pb, Sb, Se, V, Zn, etc. and will report on these in the near future.

8.5 PAML 2

- AENV approved use of PAML 2 with funding for Big Valley Monitoring for one month, the unit close to being ready, Kevin is planning on ground-truthing sites as early as next week
- The status of the use of the PAML for subsequent O₃ monitoring in Stettler area and funding for May-Sep still unknown.

Action Item: Kevin will follow up on PAML for May-Sep Ozone Monitoring with Harry Benders at AENV.

10. Prescribed Burning.

Maria Sharpe, the Fire Information Officer for Clearwater area gave an excellent presentation on prescribed burning reviewing reasons, methods, results and effects. The plans for the Upper Sask and Kootenay Plains Burn can be accessed at www.srd.gov.ab.ca. The group had questions about notification procedure for burns. Maria indicated there will be radio announcements, advertising in Nordegg area, an hourly hotline number and updates on website and e-mail lists.

11. Other Business

- The Annual Report will have a teleconference to discuss the technical section of the report on April 16.
- Traffic at Red Deer Home Show information booth was good but most of interest was focussed on Net-Zero Homes and not on PAMZ itself.

12. Upcoming Events

- The PAMZ Board is meeting on Wednesday, April 2 at the Pioneer Lodge in Red Deer from 3-8. Ian Dowsett of First Response will be giving a presentation on Modelling of ground –level H₂S concentrations from uncontrolled well or drilling releases.
- The AENV 2008 Environmental Conference will be held at the Shaw Conference Centre in Edmonton from April 22-23.
- The PAMZ Public Issues Identification Meeting will be held at the Bentley Ag Centre from 1830-2100 on Thursday, May 8.
- The PAMZ Annual General Meeting will be held on Thursday, June 19 from 1900-2000 at the Hainstock Community Hall west of Olds.
- A Vehicle Emission Testing Clinic is tentatively being planned for two days in late September.
- SPOG is holding their annual neighbour's day on September 12 at the Arena in Olds.
- Shell Caroline is holding an Open House at their Caroline Plant on Wednesday, June 11.
- Environment Week is June 2-6 with Clean Air day on June 4.

13. Next Meeting

The next meeting will be **Friday, June 6, 2008** from 0900-1200 hrs. at the EUB Boardroom, Red Deer.

14. Adjournment

The meeting was adjourned at 12:15