

DRAFT MINUTES



Ambient Air Quality Objectives Team Meeting #2

Date: 06 June 2017

Time: 09:30 – 3:00 PM

Place: CASA, South Petroleum Plaza, Suite 1400, 9915 108 Street Edmonton

IN ATTENDANCE

Name	Stakeholder Organization
Randy Angle	Prairie Acid Rain Coalition
Atta Atia	Alberta Agriculture and Forestry
Laura Blair	Alberta Environment and Parks
Laurie Cheperdak	Alberta Environment and Parks
Matthew Dance	Clean Air Strategic Alliance
Long Fu (by phone)	Alberta Environment and Parks
Rob Hoffman	Canadian Fuels
Alison Miller	Imperial Oil Ltd. (CAPP/CIAC)
Steven Probert	Alberta Health Services
Sanjay Prasad	Alberta Airsheds Council
Lynn Que (by phone)	Alberta Health Services
David Spink	Prairie Acid Rain Coalition
Joe Vipond (by phone)	Alberta Environment Network
Nina Wang	Alberta Health
Anne Vigneau	ATCO
Opel Vuzi (by phone)	Health Canada

REGRETS

Lindsay Smith-Munoz	Alberta Health
Darcy Walberg	North West Refinery
Kevin Warren	Alberta Airsheds Council



ACTION ITEMS

ACTION	Who	When
1.2: Create a table comparing the AAQO substances under review with their CAAQS counterpart.	Matt	September Meeting
1.6: Contact those stakeholders not represented on the CASA Board to ask for their involvement with the AAQO team.	Matt	September Meeting
1.9: Forward the equivalency calculations for a CAAQS substance limits to AAQO to the team.	AEP	PM by September.
2.1: Matt will update the Terms of Reference and send to the next draft to the team by June 13 th .	Matt	June 13
2.2: Industry representatives will provide an Industry Co-Chair representative by the next meeting date.	Industry	September meeting
2.3: AEP will gather the described PM data and forward to Matt for distribution to the team.	AEP	September Meeting
2.4: AEP will draft a straw dog for a PM2.5 AAQO and forward to the team prior to their September meeting.	AEP	September Meeting
2.5: Matt will put together a poll for dates for the PM subgroup to meet prior to the September team meeting.	Matt	June 13
2.6: Matt will post Ontario TRS documents to the DropBox.	Matt	June
2.7: Matt will add the members and corresponding members to the Subgroups as described.	Matt	June 13
2.8: Matt will send out the call information for a TRS Subgroup conference call on June 23 rd from 11:00 – noon.	Matt	June 13

Meeting Objectives:

1. To finalize a Terms of Reference.
2. To define a work plan.
3. To select the co-chairs for the project team.

1. Administration

Team members were welcomed to CASA’s new office space and the second meeting of the AAQO Team. There was a round table of introductions, and because co-chairs had not yet been selected, Matt chaired this meeting.

The meeting objectives and agenda were reviewed, and the following additions were made to the agenda under item 6. Next Steps:

- a. CASA Board Update.

The meeting objectives and revised agenda were approved by consensus.



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The following action items were reviewed and discussed:

ACTION	Status
1.1: Forward the AEP AAQO Statement of Opportunity to the team.	Complete
1.2: Create a table comparing the AAQO substances under review with their CAAQS counterpart.	On-going. For the September meeting.
1.3: Create a library of documents organized by substance and author.	On-going. Please forward documents to Matt for inclusion.
1.4: Create a draft terms of reference for discussion at the next AAQO meeting in June.	Complete.
1.5: David will ask the CASA Board to consider appointing additional stakeholder representatives to the AAQO Team, as outlined.	Complete.
1.6: Contact those stakeholders not represented on the CASA Board to ask for their involvement with the AAQO team.	In progress. Update at the September meeting.
1.7: Contact each Subgroup and organize a half day face-to-face meeting.	Complete
1.8: Laurie will complete work on the substance comparison chart and forward to the team (via Matt if needed).	Complete
1.9: Forward the equivalency calculations for a CAAQS substance limits to AAQO to the team.	On going. AEP will complete these on an as needed basis based on the work plan. PM will be completed by September.
1.10: Poll for team and Subgroup meeting dates.	Complete

2. Terms of Reference

The team provided detailed feedback on the work plan; comments were captured on a hard copy version and will be incorporated into the next draft. Comments included:

- The CASA Vision should be included in the 'Background' section:
 - *"The air will have no adverse odour, taste or visual impact and have no measurable short- or long-term adverse effects on people, animals or the environment."*
- Some wordsmithing should be done to make the ToR flow.
- The 'Fallback' section should have the AEP fallback position first, the usual CASA Fallback position second.
- The 'Timeline' section should incorporate the substance specific timelines from the work plan.
- There was a good discussion regarding quorum, and the team differentiated between process decisions, and substantive decisions, and the stakeholder is requirements for each.
- The team decided that they would have 4 meeting per year, with additional meeting scheduled under exceptional circumstances.



- The co-chairs will also be identified in the TOR.

Co chairs

The following co-chairs were selected by their respective stakeholder groups:

Government: Laura Blair

ENGO: Randy Angle

Industry: Will name a co-chair prior to the next meeting after they have discussed the co-chair roles and responsibilities.

ACTION 2.1: Matt will update the Terms of Reference and send to the next draft to the team by June 13th.

ACTION 2.2: Industry representatives will provide an Industry Co-Chair representative by the next meeting date.

3. Subgroup Update

Matt provided an overview of the 3 Subgroup meetings:

- The first subgroup that met, the PMO₃ group, developed a ranking tool as a means to start discussing the relative rank of each substance as a means to prioritize the substances for a work plan. This does not imply that one substance is a greater priority in monitoring than another.
- The intent was to rank each group of substances (PMO₃ / NO₂SO₂ / H₂STRS) on a binary where they either get a 1 or a 0.
- It was noted that AEP has PMO₃ as a priority, and AHW has H₂STRS as a priority.

Criteria	Definition
Human Health	Which substance has the biggest impact on human health.
Economic Impact	Which substance will require more investment by industry to manage
Easy Win	Which substance will be easier to reach consensus on
△ AEP - CAAQS	The difference between the AEP AAQO and the CAAQS.
△ Actual – CAAQS	The difference between actual ambient numbers and the CAAQS
Vegetation Health	Which substance has the biggest impact on vegetative health.
Animal Health	Which substance has the biggest impact on animal health.
Trend (↑ or ↓)	Which substance has the strongest trend up.
Sum	

The H₂STRS Team decided not to run their substances through the ranking tool as H₂S is a subset of TRS, and they are difficult to tease apart.

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The substances were ranked as follows:

Substance	Score
PM	4
NO2	3
O3	2
SO2	2

4. CAAQS Presentation

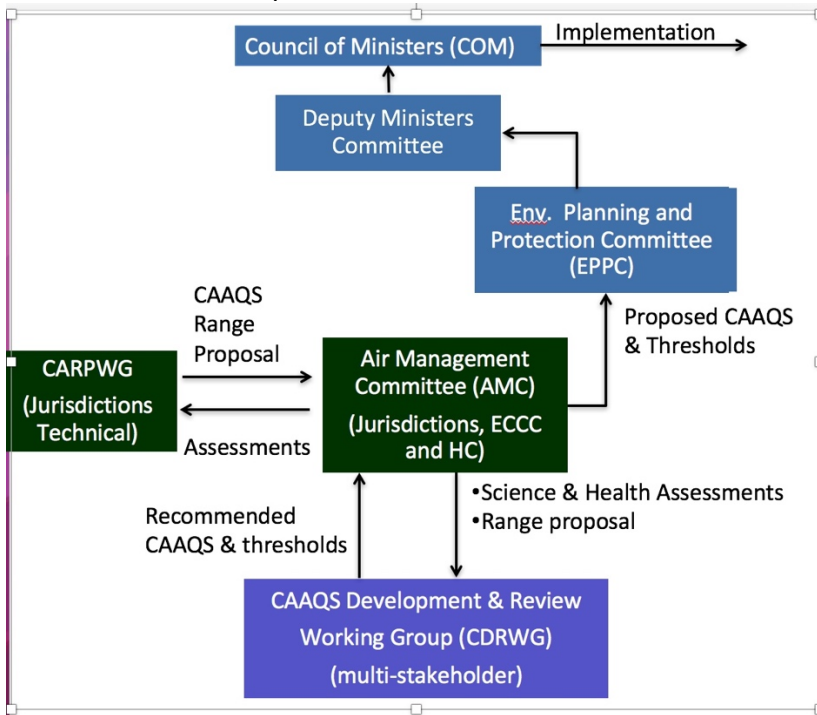
The following points were made in a presentation by Laura Blair on the CAAQS:

- Replace NAAQOs and CWSs
- Intended to drive continuous air quality improvement across Canada
 - Focus - CI and KCAC
- Alberta committed to CAAQS achievement

CAAQS Effects Information

- Health Canada – assessments
 - acute and chronic effects
 - respiratory, cardiovascular, etc.
 - morbidity, mortality
- Environment & CC Canada
 - direct and indirect environmental effects

CAAQS Process “Simplified”:



Example: Setting PM and Ozone Levels

- Canadian Smog Science Assessment

- Used a 3 step analysis:
 - Developed a notional range using the Population Improvement Approach (PIA)
- Population Improvement Approach
 - combines ambient air quality data with population distribution – new AQ goal (x)
 - e.g. CAAQS set at X using 10% PIA, if that CAAQS is reached across the country, 10% of the population will experience better air quality
- Newer studies have confirmed previous results and increased the understanding of the impact of PM and O₃ on premature mortality
 - confirmation of mortality from long-term exposure to PM, and the linkage to adverse cardiac outcomes, both from acute and chronic exposures
- Scientific database continues to indicate that mortality effects occur throughout the continuum of exposure experienced by Canadians, such that the “no safe level” approach remains appropriate

2015 PM and Ozone CAAQS

		2015	Metric
PM _{2.5}	24-hour (calendar day)	28 mg/m ³	The 3-year average of the annual 98th percentile of the daily 24-hour average concentrations
PM _{2.5}	annual (calendar year)	10.0 mg/m ³	The 3-year average of the annual average concentrations.
Ozone	8-hour	63 ppb	The 3-year average of the annual 4th- highest daily maximum 8-hour average concentrations.

Implementation

- Alberta delineated six air zones
- Assessments done annually
- To be used for regional air quality management not individual facility approvals

Air Zone Management Planning

- First assessment – 1 air zone exceeded PM_{2.5} CAAQS
- 4 air zones in orange level for PM_{2.5}
- 3 air zones management plans in development
 - Capital Region plan in place
- 1 air zone in orange level for ozone
- Actions may target:
 - existing contributing source(s) (industrial or non-industrial) or
 - the design and emissions of a planned industrial source(s)
- The specific actions will:
 - be place based
 - depend on the air zone management level and where the air zone is in that management level

AAQO	CAAQS
<ul style="list-style-type: none"> • Facility level management • No metrics • Report exceedances immediately • Compliance actions for individual facility 	<ul style="list-style-type: none"> • Regional AQ management • Three year metrics • Must wait for annual assessment • Management plan – actions for all contributing sources (including industrial)

Current Work

- National multi-stakeholder group has recommended NO₂ CAAQS
 - to Air Management Committee
 - next to ADM level (Environmental Planning a Protection Committee)
- Review of 2020 ozone start June 2017
 - will also be developing a new number for 2025
- CAAQS become more stringent over time

5. Work Plan

The team then discussed the work plan, based on the work of the Subgroup and Laura’s presentation. There was some discussion, and the AAQO Team settled on the following timing:

Item	Date
Terms of Reference presented to the CASA Board	September 2017
Recommendation for PM _{2.5}	March 2018
Recommendation for O ₃	September 2018
Recommendation for H ₂ S and TRS	December 2018
Recommendation for NO ₂	June 2019
Recommendation for SO ₂	December 2019
Final report and recommendations to the CASA Board	March 2020

2017			2018			2019				2020	
June	Sept	Dec	March	June	Sept	Dec	March	June	Sept	Dec	March
PM _{2.5}											
		O ₃									
			NO ₂								
							SO ₂				
H ₂ STRS											
											Final Report

PM Subgroup Planning

Membership

The following comments were made pertaining to subgroup membership:

Atta should be added to the PM subgroup



The following will be added as corresponding members:

Alison, Nina, David

Resources Needed

- Monitoring technology is not a limitation for PM or Ozone.
- This discussion is going to be about ambient concentrations
- This subgroup will need the following
- 5 years of PM data
- What are the AAQO equivalents to CAAQS?
- Where are the exceedances, and describe them (duration, source if possible).
- The health effects at a variety of levels of PM_{2.5}, and a comparison against the CAAQS
- Trends, exceedances, averages, etc.

The PM subgroup will try to meet during the summer.

ACTION 2.3: AEP will gather the described data and forward to Matt for distribution to the team.

ACTION 2.4: AEP will draft a straw dog for a PM_{2.5} AAQO and forward to the team prior to their September meeting.

ACTION 2.5: Matt will put together a poll for dates for the PM subgroup to meet prior to the September team meeting.

H2STRS Subgroup Planning

Resources Needed

- A better understanding of the monitoring
- If we should have a TRS AAQO, and how it might be established
- What did Ontario do?
- What information do we have on health outcomes, odour and monitoring of TRS in the short and long term exposures.
- WBEA has 15 years of TRS data that they can share, they also have some data where H₂S and TRS sensors were co-located side by side.

Membership

- The following people will be added as members:
 - David
- The following people will be added as corresponding members:
 - Nina, Lynn, Laurie



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The TRS Subgroup will meet by teleconference on June 23rd from 11:00 – 12:00 noon to discuss their work plan and data requirements.

ACTION 2.6: Matt will post Ontario TRS documents to the DropBox.

ACTION 2.7: Matt will add the members and corresponding members to the Subgroups as described.

ACTION 2.8: Matt will send out the call information for a TRS Subgroup conference call on June 23rd from 11:00 – noon.

AAQO Team September Meeting Agenda Items

- PM Discussion
 - Presentation from Andrew
- TRS Discussion

6. Next Steps

CASA Board Update on 14 June 2017

David Spink will provide the update to the CASA Board and will raise the following points:

- Membership
- Summary of where we are at

7. Adjournment

