



Peace River Area Monitoring Program (PRAMP) Committee
 Technical Working Group Meeting

December 16, 2020
 Zoom Video Conference

Meeting Notes

Attendees:

Name	Sector Group	Organization	Participation
Doug Dallyn	Public		Director
Anthony Traverse	Industry	Baytex Energy	Director
Matt Flette		CNRL	Director
Gaylene Whitehead	Gov	Northern Sunrise County	Director
Krista Park	Gov	AHS	Director
Hanna Liu	GOV	AER	Guest
Laurie Cherperdak	GOV	AHS	Guest
Karla Reesor		Executive Director	
Mike Bisaga		Technical Program Manager	
Lily Lin		Technical Program Manager	
Brenda Barber		Office Manager	
Dwayne Stepaniuk		Field Technician	

Regrets:

Name	Sector Group	Organization	Participation
Garrett Tomlinson	Gov	Metis Nation, Region 6	Director
Elvis Thomas	Public	Woodland Cree	Director
Blair Fortin	Industry	Trevita	Member

These notes are provided as a summary of discussions of the PRAMP Technical Working Group. The views and ideas noted do not necessarily reflect the perspective of each Committee member. Decisions are taken by consensus.

1.1 Approve Agenda

Agenda approved by Doug Dallyn. No blocks.

1.2 Approval of Minutes

Minutes were provided prior to the meeting.

Motion to approve the September 15, 2020 Minutes by Anthony Traverse. No blocks

1.3 Action Items

- To be discussed later in meeting.

2 Standing Business

2.1 Administration and Planning

Overview of OSM Planning Process for 2021-22

- The planning process for developing workplans for 2021/22 has begun.
- OSM scoping document to guide the development of the workplans and the new environmental effects framework (EEF). This will guide what monitoring need to be done. AEP has provided to PRAMP.
- Next meeting will be in January to present how current air and deposition fits within the EEF. Mike will be working closely with AEP to ensure PRAMP is included in the workplans.
- We do not anticipate a change to our financial picture next year as part of this project.

2.2 Continuous Monitoring Program

Dashboard Reports

The September, October and November dashboard reports were posted on the Members Portal

986

- Short power outage in September. One hour down time.
- In October, three hours of precipitation data were discarded due to a sensor malfunction which was caused by low temperatures. No precipitation data will be reported after December because it doesn't have a heater.
- In November, TRS failed in the calibration resulting in 21 hours of downtime due to maintenance.

842

- No Issues in September
- THC analyzer failure due to zero air generator in October. Thirteen hours of downtime recorded for this event.
- New precipitation gauge installed in October; will start collecting data in November.
- In November, two hours of data was discarded due to a power outage.

Reno

- In September, the TRS analyzer failed the scrubber challenge test; data were reviewed; no data were discarded.
- No daily zero-span check were performed due to a datalogger error between October 27 and November 1. This contravention event was reported to AEP.
- New precipitation gauge installed in October; will start collecting data in November.

AQHI

- TRS Firmware crash in September, six hours of data were invalidated as a result.
- Three exceedances of the 1-hour Guideline and one exceedance of the 24-hour Objective for PM2.5 were recorded in October and November. Throughout the Peace River – Three Creeks region, brush piles associated with land clearing were being burned and created wide-spread smoke. These contravention events were reported to AEP.
- Due to multiple firmware crash events in October, sixteen hours of data were not recorded.

- TRS analyzer continued to have firmware issues, the analyzer was removed from the site and replaced with another analyzer in November.

Reno Deployment

- At the last meeting, the TWG made a recommendation to the Board to deploy the new PRAMP-owned station (the third PRAMP-owned trailer) to the south of the existing station. It was to be co-deployed for around 6 months before the old BV-supplied station would be removed.
- We were looking at a new site as the current site does not meet the siting criteria in the AMD.
- We did not receive consensus from the Board to locate the new station at the site recommended.
- AS the new PRAMP-owned station (the third PRAMP-owned trailer) was ready to be deployed, we deployed it to 842 and will look at options for the new station (the fourth PRAMP-owned trailer) that is currently being built to be at the Reno site.
- Revisit of deployment options for the Reno station
 - To stay in the current location and meet the AMD, trees will need to be removed. If we go with this option, we would also move the station to the middle of the clearing and extend the gravel driveway.
 - If we look for another location, we have mapped an area that would provide a continuity of data. The proposed site is 3.5 km from the current location.
 - Costs for sites – moving to the new site would cost approximately \$67,500 (costs for 6 months monitoring overlap are included); the landowner would provide the siting services as much as possible. Costs to stay on the existing site would be between \$72,500 - \$92,500.
 - To upgrade the current site, the station would be shut down during the improvements, resulting in a break in data.
- Mike and Lily are looking for direction from the TWG; Krista will provide alternate sites (closer to highway 2) for investigation.
- Mike moved the borders of the search area around the current site to west to include highway 2 during the meeting.
- If anyone else in the group has contacts or suggestions, please provide to Mike and Lily.

842 Station

- The new 842 station owned by PRAMP has been placed at a new location (on the same site) on request of the landowner. The name of the station will not change as it has only been moved 30m, but the site documentation will be updated.
- The old, BV station will be removed.
- The landowner provided the site preparation for us.

2.3 Canister Sampling Program

Review canister results

- One methane-triggered canister for the month of September at Reno station.
- Five methane triggered events were recorded at the Reno station. Only two canister samples were collected.
- In November, two methane-triggered events were recorded at the Reno station; and one NMHC-triggered event was recorded at 986c.

2.4 New Business

AQHI Re-Deployment

- Looking for feedback on potential sites to redeploy the AQHI station. The station is currently at Cadotte Lake and this spring will be the end of the monitoring at that location (per our policies).
- Cadotte Lake site area is changing as Woodland Cree is developing that land.
- East of Nampa was a location which was also identified when we did our scoring matrix for Cadette Lake two years ago.
- Mike and Lily have asked for feedback on potential locations from our members.
- We will send out an email to the stakeholders as well as post on our Facebook page.
- Some sites identified in the meeting would be in the Grimshaw area, St. Isadore and Peace River have private monitoring, but the data aren't public. Another option may be to keep it in the same general area (but past 986).

Action: Karla will develop a letter to send to our partners and stakeholders.

Calibration Frequency

- The current AMD requires a monthly calibration of analyzers at a minimum.
- AEP has started talking about a reduced calibration frequency and what it would look like.
- At the beginning of the pandemic AEP allowed organizations to reduce their calibration frequency.
- AEP did a cross country review of what other provinces have for calibration requirements.
- AEP has had conversations with the AAC TWC. AEP was asked to provide more information on reasonings for moving to something that is not monthly.
- While there would be a reduction to costs for field technicians, there would be other monthly costs to maintain the validity of equipment and data.
- Analyzer drift is a concern from the technician's calibration equipment and ambient humidity.
- When AEP provide the position paper, we will review the findings with this group.

Canister Sampling Program

- Prior to have methane triggered canisters; we only had the non-methane program. Two years ago, the recommendation was made to collect methane triggered canisters.
- We also planned to do an isotope analysis to pinpoint the sources.
- Over the past 2 years we have collected about 20 canisters.
- Recommend that we pause the methane collection program and review the isotope and VOC data and compare the results to the questions we set out to answer. Once this is completed, we would then review the requirement to continue the program.
- Other option is to do the analysis but continue to collect methane canisters.
- Non-methane canisters are at an all time low (only 2 collected this past year) but would continue to collect.
- We have reached out to some experts for assistance with the analysis of the data. We expect to have an initial report by February.

Recommendation to the Board to pause the methane canister collection program while analysis is undertaken by Doug Dallyn. Carried.

3 Closing

3.1 Roundtable

Gaylene – Wood Buffalo is burning brush to build more lots (a total of 144); lines will also be put in. Woodland will also likely be doing the same thing. At Three Creeks, an auto wrecker is starting up behind BFI and will be doing some clearing as well. At a community meeting last week, Gaylene brought up that PRAMP is looking for more FN representation.

Action item: Karla will provide the membership form to Gaylene.

Hana – the AER has discontinued the online dashboards as it is labour intensive and not viewed by many. Hana will find out if we can get quarterly updates on complaints.

Krista – the AQHI lantern should be working fairly soon.

3.2 Next Meeting

3.3 Adjournment

Meeting adjourned at 3:14 pm by Karla Reesor.

Action Item Number	Action Item Description	Status
New Action Items		
2020-12-01	Karla will develop a letter to send to our partners and stakeholders about the criteria on setting up the portable AQHI monitor	NEW
2020-12-02	Karla will provide Gaylene Whitehead with the membership form.	NEW
Completed Action Items		
2020-09-01	Mike and Lily will get a quote for the removal of the trees at the current Reno monitoring site, and review all other costs; including power and road upgrade the site	
2020-09-02	Mike will ask the landowner if it would be possible to site the new Reno station across the road from the location originally looked at.	
2019-12-01	Mike and Lily will develop a proposal for a co-deployment with objective to address siting issues at Reno. Timeline is end of January	
2019-12-02	Mike will follow up with Elvis about the tree issue at Woodland Cree	
2019-05-01	Mike will talk to Corinna Williams to see if the County will willing to do dust control at preferred AQHI trailer site at Codette Lake.	
2019-05-02	Karla will speak to CNRL to see what they wish to do with the power meter at 986B.	
2019-01-01	Mike will follow up with the other property owners (where stations are located) and discuss the option of payment for land rental.	

2019-01-01	Lily and Mike will explore the cost of adding precipitation readings (rain gauges) to the entire network.	
2019-01-01	Mike and Lily will prepare a one page document on recommended site for the AQHI trailer for Board, members and municipalities.	
2019-01-01	Mike and Karla will look into the information to be provided to AER on background canisters.	
2018-11-01	PRAMP staff will continue to work with legal counsel to develop a new contract with Maxxam going forward	
2018-11-02	Mike and Lily to pursue option 1 and move on to second if it doesn't work out for relocation of station 986	
2018-11-03	Lily and Mike will apply the matrix to the sites identified within the TWG for the siting of the portable monitor	
2018-11-04	Lily will send the siting requirement document for the portable monitor to Elvis Thomas	
2018-11-05	Krista will request a comprehensive document of the canister sampling program including the review of each canister with Laurie Cheperdak	
2018-11-06	Brenda will provide Laurie Cheperdak's email address to TWG	
2018-06-01	Mike and Lily will make a recommendation on a methane-based trigger for the canister program. The same trigger will be set at all the stations.	
2018-06-02	Mike and Lily will review the relationship between TRS and NHMC concentrations and report back to the TWG at the next meeting.	
2018-06-02	Mike and Lily will research the additional cost to continuously monitor VOCs	
2018-06-03	Maxxam will put a disclaimer that the data is raw on the dashboards going forward	
2018-06-04	The TWG will review the Portable Station Locating Procedure prior to the September meeting	
2018-03-01	Mike will talk to Bob Myrick about adding the government logo to the signs.	
2018-03-02	Karla and Brenda will research a menu option phone number	
2018-03-03	Mike will review the history of data and based on conversations today will come back with a recommendation.	
2018-01-05	Mike will come back to the TWG with recommendations on reasonable trigger levels	

2018-01-01	Maxxam will trigger the canisters that are set to expire as a test.	
2018-01-02	Mike will resend the sensor drawings to Reid	
2018-01-03	Mike will do research on signs and/or wraps for the stations	
2018-01-04	Mike will look into a second trigger on canisters related to hydro-carbons	
2017-11-01	Mike will add the approval process to the TORs. Will send with the draft minutes for approval.	
2017-11-02	Mike will make a recommendation to the Board on the procedures for the TWG to report to the Board	
2017-11-03	Lily will ask Maxxam to provide a system design including the location of the new sensor. The TWG will approve via email before Maxxam does the installation.	