Peace River Area Monitoring Program (PRAMP) Committee

Technical Working Group Meeting

April 14, 2021

Zoom Video Conference

# Meeting Notes

Attendees:

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Sector Group** | **Organization** | **Participation** |
| Elvis Thomas | Public | Woodland Cree | Director |
| Doug Dallyn | Public |  | Director |
|  |  |  |  |
| Carolyn Lewis  | Industry | Baytex Energy | Director |
| Arlen Hogg | Industry | Canadian Natural | Director |
|  |  |  |  |
| Jason Javos | GOV | Northern Sunrise County | Director |
| Andy Trudeau | GOV | MD Smoky River | Director |
| Madhan Selvaraj | GOV | AEP | Guest |
| Long Fu | GOV | AEP | Guest |
| Mike Brown | GOV | AER | Guest |
| Randy Rudolf |  | AECOM | Guest |
| Laura Donna Suciul |  | AECOM | 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 |
| Krista Park | GOV | AHS | Director |
| Laurie Cheperdak | GOV | Alberta Health | Guest |

***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 Introductions**

**1.2 Approve Agenda**

No additions to the Agenda

**Motion to approve the agenda by Jason Javos.**

**1.3 Approval of Minutes**

*Minutes were provided prior to the meeting.*

**Motion to approve the November 10, 2021 Minutes by Doug Dallyn. No blocks**

**1.4 Action Items**

* Explore AEP position on the options to relocate the Reno station. AEP indicated we would not be able to carryover funds for the relocation, so the decision was made to proceed prior to the network assessment completion.

### **2 Standing Business**

**2.1 Administration and Planning**

OSM Process for 2021-22, 2022-23

* OSM has indicated all funds for 2022/23 has been allocated. We did not receive information on the allocation, but we expect a decision on funding and workplan approval soon.

**2.2 Continuous Monitoring Program**

Dashboard Reports

*The January and February 2022 dashboard reports were posted on the Members Portal.*

**January** – TRS analyzers spans affected by low temperature.

986

* Hydrogen generator desiccant was replaced; 19 hours of data was invalid

Reno

* Equipment swap from Bureau Veritas to PRAMP owned in January

AQHI (Grimshaw)

* TRS analyzer failed due to firmware issues. Twenty-one hours of downtime.

Canisters

* No canister events in January.

**February**

842

* + - TRS analyzer did not meet uptime requirement; the analyzer failed to recover from the February 11’s power failure properly. Data collected after the power failure on February 11 hour 3 to February 17 hour 7 were discarded.

Reno

* All parameters failed to meet the 90% operational uptime requirement this month due to collection issues on datalogger. The datalogger was replaced on February 15.

AQHI (Grimshaw)

* + - * On February 15, the BV-supplied CD Nova CDN101 TRS convertor, s/n: 534, was removed, and the PRAMP-owned CD Nova CDN101, s/n: 530, was installed.

Canisters

No canister events in February

Reno Deployment

* Licence of Occupation is nearly complete
* Site preparation scope has been defined and agreed to by the landowner
* ATCO proposal for power upgrade has been received
* Anticipating early to mid May site preparation with station operational in late May

**3.0 New Business**

2021 Annual Data Review

* Working on an automatic annual data review to mirror the review done by AEP.
* Air data warehouse performs automatic verification and validation; poor quality data may pass the verification.
* AEP implemented an automated review to identify poor quality data.

 Quality Assurance Plan Audit

* In process of doing a QAP Audit per the AMD
* Colleen Lawrence from Spectrum Quality Advisors is performing the audit. Colleen provided a workshop to the Airsheds on QAP requirements.
* Findings will be presented at a future meeting

Network Assessment – Phase 1

* (Presentation by Randy Rudolph and Loredana Suciu)
* Three parts to the evaluation; we will only be reviewing the first part
* Emerging issues
* Priority One – identify impact on network and data following implementation of Directive 84
* Priority Two – addition of PRC and 2 Mercer stations
* Priority Three – lower priority issues such as adequate coverage; lower cost solutions that could be implemented.
* Priority 1 – potential outcomes – reconsider number of stations and/or parameters; reconsider location, duration, frequency, methodology, technology.
* Assessment to determine:
	+ temporal trends in emission; reduction in emissions reported as of 2018
	+ over last 3 years, near zero VOC emissions reported.
* It is not evident that annual low VOC concentrations are reflected in sustained reductions
* Hourly value 1 hour concentrations TRS in 2020/21 increase in 1 hour exceedances; no increases in SO2, CH4 or THC
* High correlations of THC at 986 and 842;
* Summary
	+ NPRI emissions have decreased since 2011
	+ Annual concentrations similar trends in 986 and 842
	+ Exceedances – more TRS exceedances than in the past; would not reduce or change that monitoring.
	+ Canister based VOC concentrations are decreasing very slightly
	+ Correlations of Hydro-carbon pollutants between 986 and 842; other pollutants do not see the same correlation.
	+ Preliminary draft recommendations
		- The assessment weakly supports elimination of one of the Three Creek stations; however, the support is too week for this recommendation to be made
		- There are enough unreported emissions to NPRI that VOC/NMHC should not be eliminated
		- SO2 is relevant and TRS still shows exceedances at two stations.
		- Meteorology is not redundant and should not be reduced
		- THC or CH4 possible redundancy but no conclusions
		- Do not recommend moving locations of stations
		- SO2 monitoring could be measured with a change of technology (i.e. passive)
		- Doug Dallyn provided some history - Inquiry was in 2014 and a lot of the companies were in vapour recovery. In 2010 Shell shut the asphalt plant. In 2018 all flares were reduced, and gas suppression was implemented. Production accounting data has been provided to AECOM
		- Karla will provide links to comparisons between emissions in PRAMP compared to other Airsheds.
		- Next steps – after the next phase of work, we will invite the TWG to review

### **Roundtable**

Carolyn Lewis – appreciate the hard work put into gathering information for presentation.

**Adjournment**

Meeting adjourned at 3:00 pm.

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| --- | --- | --- |
| **Action Item Number** | **Action Item Description** | **Status** |
| **New Action Items** |
|  |  |  |
|  |  |  |
| **Completed Action Items** |
| 2021-05-01 | Mike and Lily will review and revise the AQHI re-deployment matrix over the next year |  |
| 2021-04-03 | Madhan will pull the emissions and modelling information and provide it to Mike. |  |
| 2021-04-01 | Mike and Lily will change the order of stations on the dashboard (move the PRC station to the end as we do not have data) |  |
| 2021-04-02 | Mike will update the map with the industry facilities |  |
| 2021-04-04 | Mike will walk Madhan through the proposed site to ensure that AEP doesn’t have any issues with it. |  |
| 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 |  |
| 2020-12-02 | Karla will provide Gaylene Whitehead with the membership form. |  |
| 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. |  |