

Goals and Results 2016-2021

PRAMP Annual General Meeting
September 29, 2021



pramp
PEACE RIVER AREA MONITORING PROGRAM



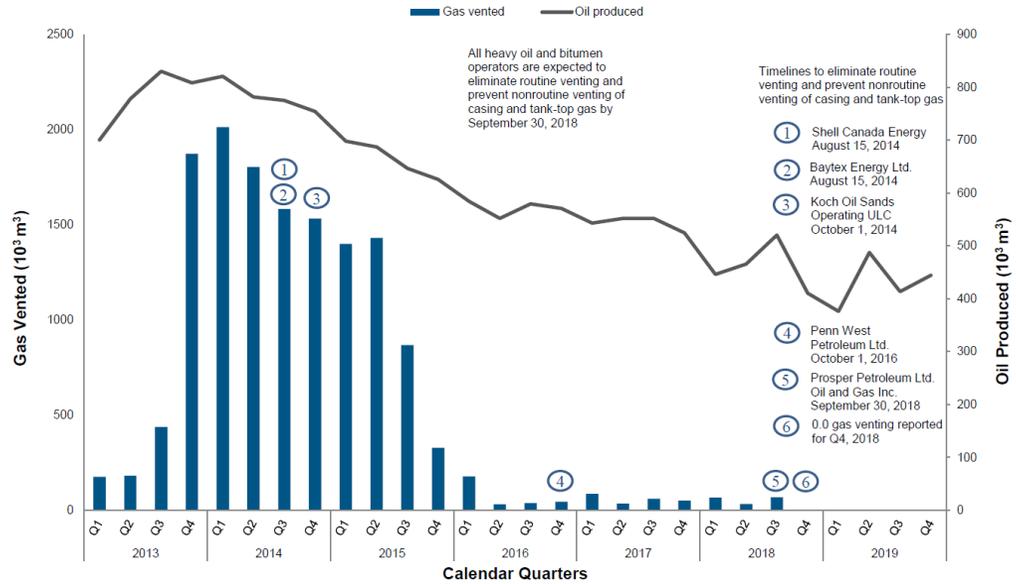
Goal 1

Assist in verifying that air quality is improving, and odours are being minimized as a result of operational and regulatory improvement

Quality-assured and quality-controlled data from the 4 air monitoring stations and the decline in odour complaints indicates that this goal is being achieved.



Figure 2 – Vented Gas and Oil Production Reported to Petrinex from Oil and Bitumen Batteries in the Peace River Area

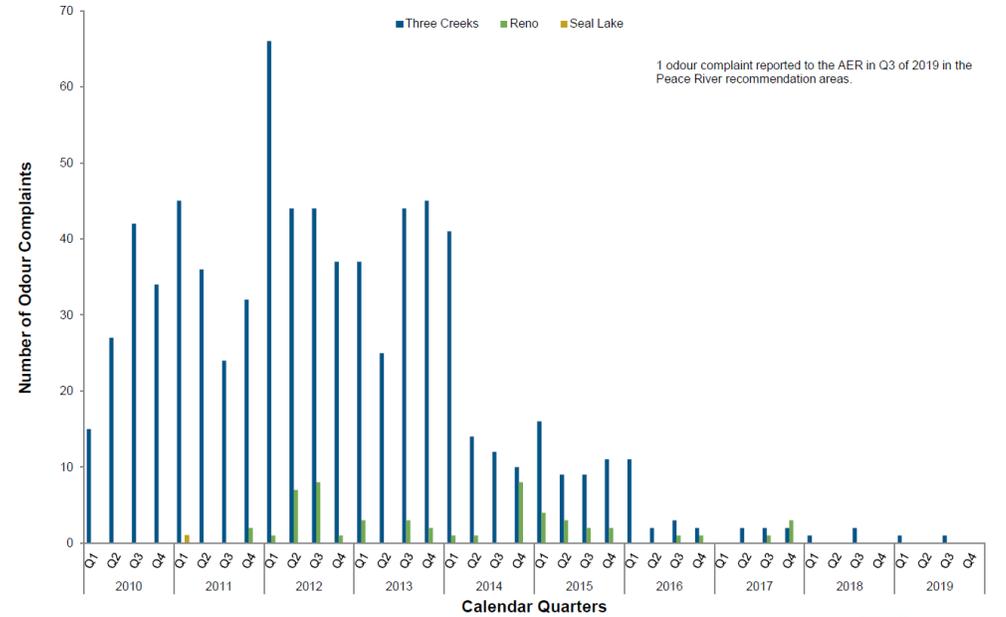


Vented gas is reported by operators to Petrinex. Data provided includes all oil and bitumen batteries. Venting requirements identified above apply to heavy oil and bitumen operations. Units of 10³m³ are 1000 cubic metres.

Data extracted from Petrinex in March 2020. Chart published in April 2020. See disclaimer provided on outcome page



Figure 15 – Odour Complaints Reported to the AER from the Three Creeks, Reno, and Seal Lake Areas



Data extracted from AER internal systems in March 2020. Chart published in April 2020. See disclaimer provided on outcome page.



Goal 2

Operate transparently and give residents and stakeholders timely access to data and information in a manner that is readily understood.

Daily reports and website information meet residents and stakeholders needs for timely and credible data.



AQHI STATION is LIVE

Cadotte Lake

Current Conditions

1

Last Updated

Sep 28, 2021, 3:00pm

The Air Quality Health Index (AQHI) helps you understand what the air quality around you means to your health. The AQHI is a tool that relates the air quality outside to your health, using a scale from 1 to 10. The lower the number, the lower the risk.



A

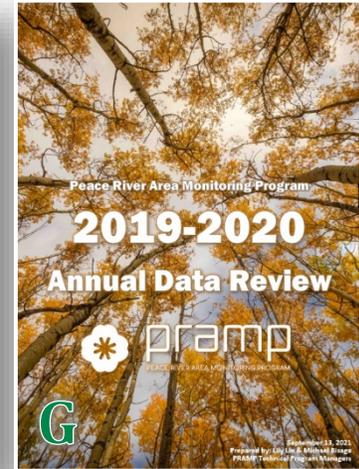
July 2021: Continuous Monitoring Program



C



F



G

PRAMP_Daily_Report_20210925

Christopher Wesson <christopher.wesson@bureauveritas.com>
To: ...
Cc: ...
Sun 8:35 AM

If there are problems with how this message is displayed, click here to view it in a web browser.

PRAMP_DAILY_Report_20210925.xlsx
160 KB

Please find attached, the PRAMP daily report for September 25.

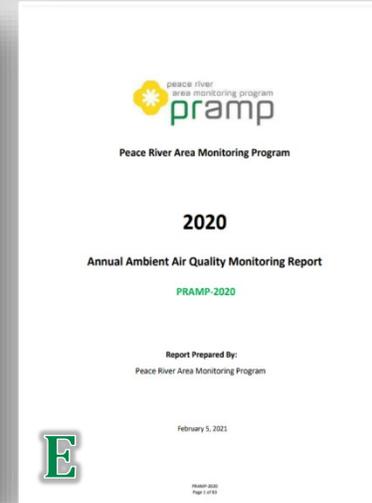
- There was no canister event.
- No issues, operations are normal.

If you have any questions, please contact PRAMP Technical Managers at pramp@prampairshed.ca.

B



D

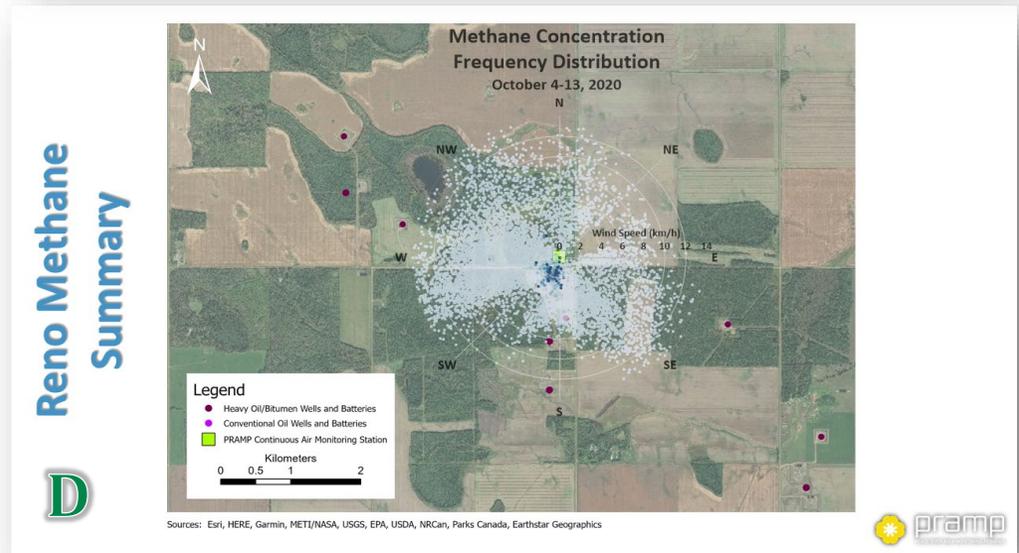
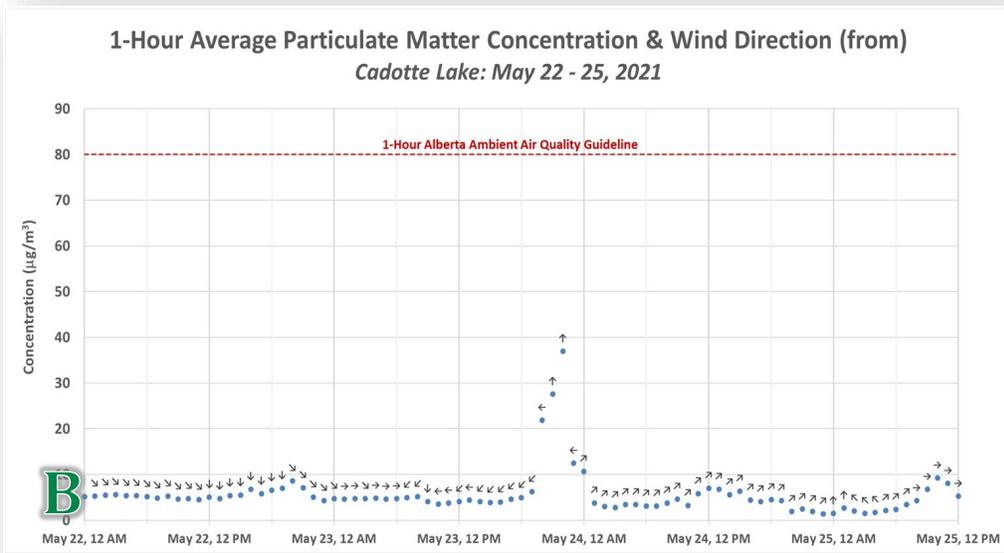
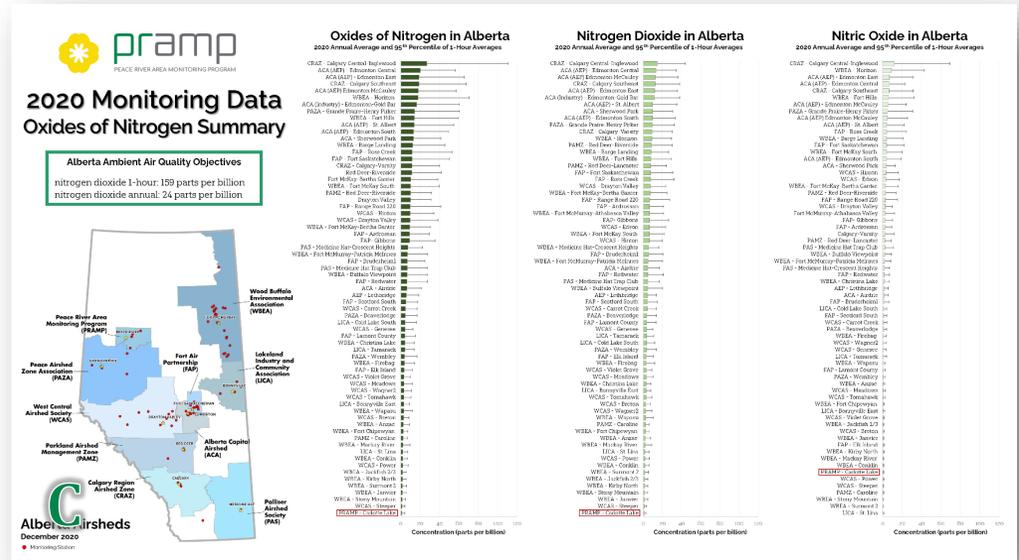
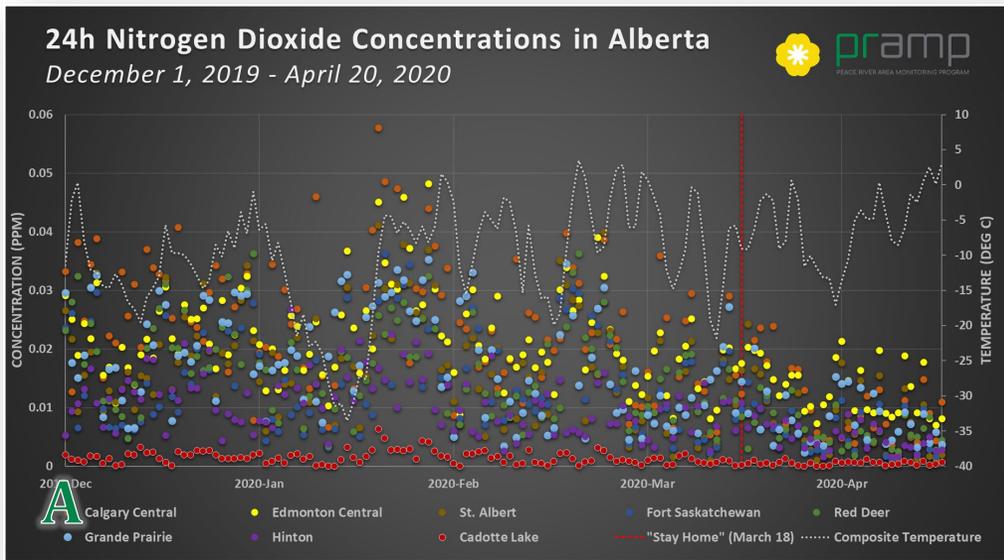


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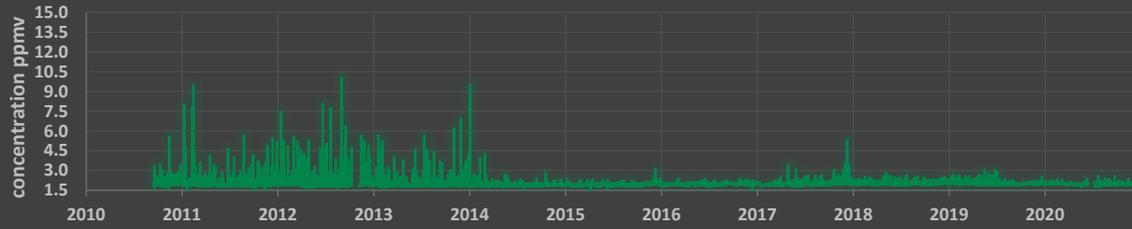
Goal 3

Demonstrate that operators have effective control mechanisms.

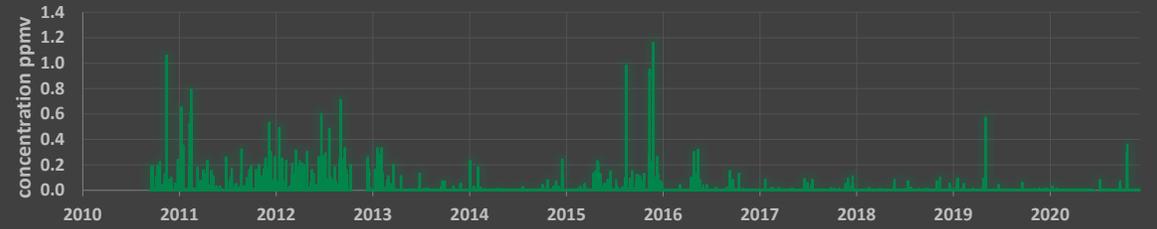
- The air quality monitoring results indicate effective controls have been implemented by operators in the area.
- Air quality indicators have improved significantly between 2010 and 2021 and have been relatively stable from mid-2014 onwards. This timeframe coincides with Directive 84 requirements for industry to reduce venting and transition to conservation.



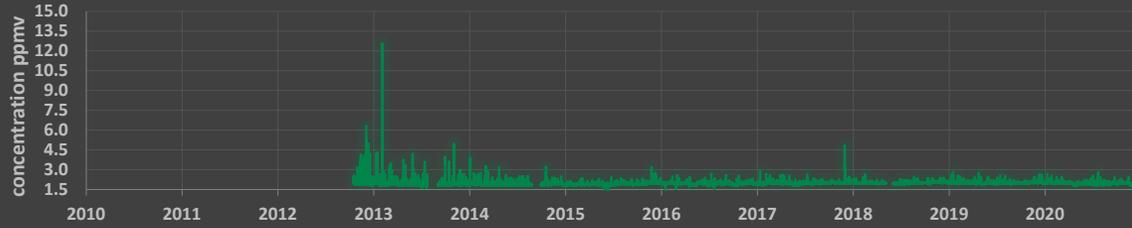
2010-2020 CH4 Results (1-hour average) at 986 Station



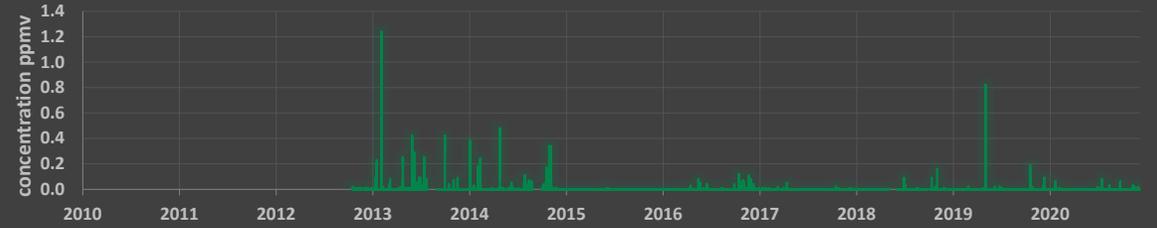
2010-2020 NMHC Results (1-hour average) at 986 Station



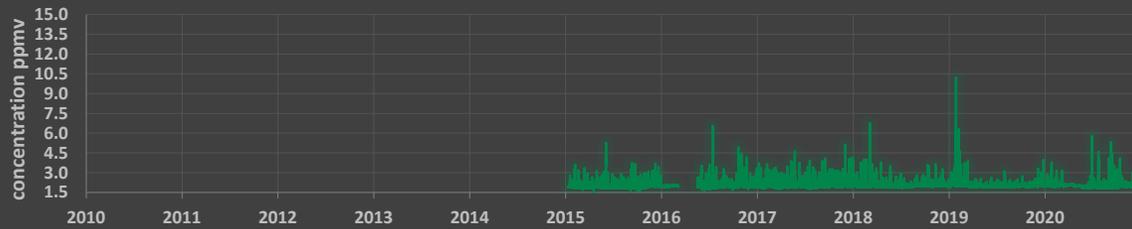
2010-2020 CH4 Results (1-hour average) at 842 Station



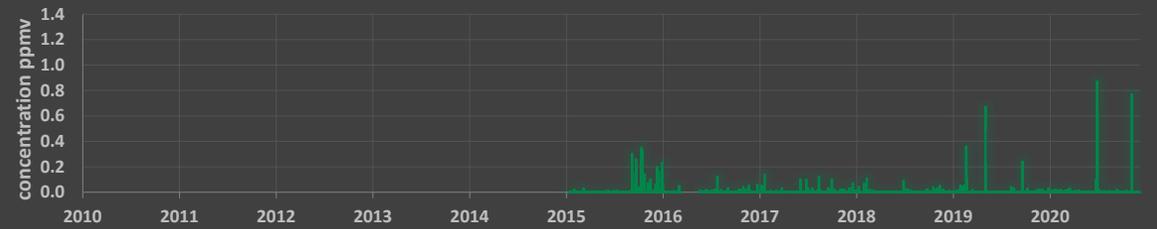
2010-2020 NMHC Results (1-hour average) at 842 Station



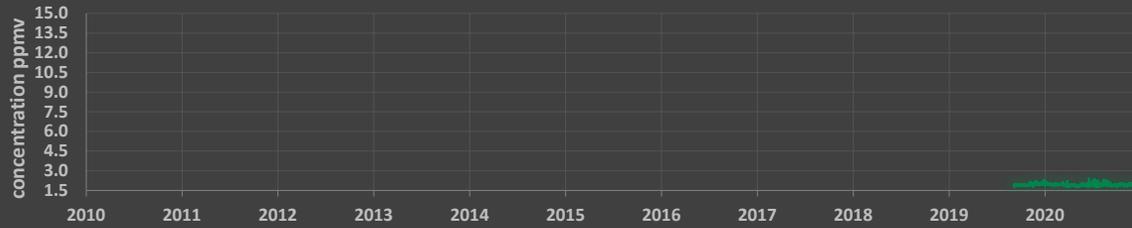
2010-2020 CH4 Results (1-hour average) at Reno Station



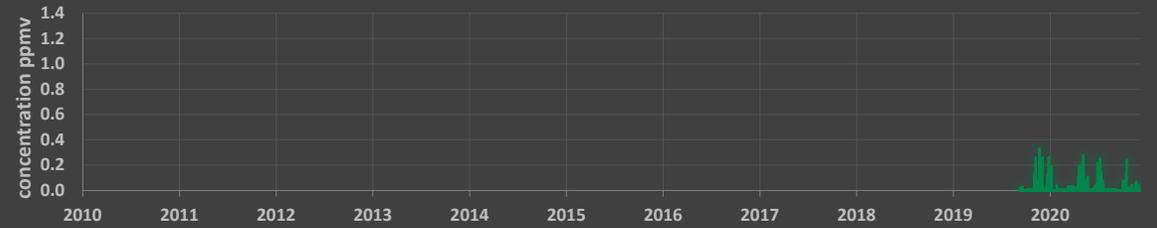
2010-2020 NMHC Results (1-hour average) at Reno Station



2010-2020 CH4 Results (1-hour average) at AQHI - Cadotte Lake Station



2010-2020 NMHC Results (1-hour average) at AQHI Cadotte Lake Station



Goal 4

Verify that air quality is at acceptable levels and that emissions residents are exposed to are below toxic thresholds.

- Alberta Health continues to assess data from canister samples against health exposure thresholds.
- Canister data is valuable for people in the Peace River area and in other parts of the province where similar emissions may be present.



**Comparison of volatile organic compound concentrations from air sample canister results
with health and odour guidelines from multiple agencies**

X denotes when a compounds measured or 1/2 the detection limit concentration in air exceeds the guideline
P denotes when a compounds measured or 1/2 the detection limit concentration in air passes (is less than) the guideline
MD denotes missing data from lab analysis, NA denotes guideline not available

Bolded letters indicate measurement exceeds the reported method detection level

NMHC Sample triggered on Nov 14, 2020 at 21:20 at 986	Health Guidelines										Odour Guidelines		
	Acute (<14days)				Intermediate/Chronic						Short-term		
	AB AAQO	ONAAQO	TCEQ ESL	ATSDR	Health Canada Noncarcinogenic & Carcinogenic	AB AAQO	ON AAQO	USA Noncarcinogenic & Carcinogenic	TCEQ ESL	ATSDR	AB AAQO	ON AAQO	TCEQ ESL
Canister ID 20110156-001													
135 Compounds analyzed for with 45 greater than Method Detection Limit in bold. Cell shaded red if measured value exceeds													
1-Butene	NA	X	P	NA	NA	NA	NA	NA	P	NA	NA	NA	P
Acetylene	NA	NA	P	NA	NA	NA	NA	NA	P	NA	NA	P	NA
cis-2-Butene	NA	NA	P	NA	NA	NA	NA	NA	P	NA	NA	NA	P
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylacetylene	NA	NA	P	NA	NA	NA	NA	NA	P	NA	NA	NA	NA
Ethylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isobutane	NA	NA	P	NA	NA	NA	NA	NA	P	NA	NA	NA	NA
Isobutylene	NA	NA	P	NA	NA	NA	NA	NA	P	NA	NA	NA	P
Methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butane	NA	NA	P	NA	NA	NA	NA	NA	P	NA	NA	NA	NA
n-Propane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propylene	NA	NA	NA	NA	NA	NA	NA	P	NA	NA	NA	NA	NA
Propyne	NA	NA	P	NA	NA	NA	NA	NA	P	NA	NA	NA	NA
trans-2-Butene	NA	NA	P	NA	NA	NA	NA	NA	P	NA	NA	NA	P
2,5-Dimethylthiophene	NA	NA	P	NA	NA	NA	NA	NA	P	NA	NA	NA	NA
2-Ethylthiophene	NA	NA	NA	NA	NA	NA	NA	NA	P	NA	NA	NA	NA
2-Methylthiophene	NA	NA	NA	NA	NA	NA	NA	NA	P	NA	NA	NA	P
3-Methylthiophene	NA	NA	NA	NA	NA	NA	NA	NA	P	NA	NA	NA	NA
Butyl mercaptan	NA	NA	NA	NA	NA	NA	NA	NA	P	NA	NA	NA	P
Carbon disulphide	NA	NA	P	NA	NA	NA	NA	P	P	P	P	P	NA
Carbonyl sulphide	NA	NA	NA	NA	NA	NA	NA	NA	P	NA	NA	NA	P
Dimethyl disulphide	NA	NA	P	NA	NA	NA	NA	NA	P	NA	NA	P	P
Dimethyl sulphide	NA	NA	NA	NA	NA	NA	NA	NA	P	NA	NA	P	P
Ethyl mercaptan	NA	NA	NA	NA	NA	NA	NA	NA	P	NA	NA	NA	P
Ethyl sulphide	NA	NA	NA	NA	NA	NA	NA	NA	P	NA	NA	NA	P
Hydrogen sulphide	NA	NA	NA	NA	NA	NA	NA	NA	P	NA	NA	NA	P
Isobutyl mercaptan	NA	NA	NA	NA	NA	NA	NA	NA	P	NA	NA	NA	P

← **Threshold Type**

← **Jurisdiction or Agency**

135 Compounds Analyzed and Compared



Goal 5

Maintain its status as an independent Not-for-Profit Organization and Airshed that is focused on continuous improvement and responsible growth.

The strategic planning initiative is an indication that PRAMP is focused on continuous improvement and responsible growth.



PRAMP Goals 2021-2023

1. *Evidence-driven* verification that air quality in the Peace River area is at acceptable levels and that emissions are being minimized
2. Residents and stakeholders have timely access to air quality data and information in a manner that is readily understood
3. Educators, community groups and citizens can access resources to increase understanding of and promote healthy air quality
4. Recognized as an independent not-for-profit organization and Airshed that is focused on continuous improvement and responsible leadership in air quality monitoring





*Thank you to PRAMP Directors,
Members, Supporters and Staff*

