PEACE RIVER AREA MONITORING PROGRAM

Grimshaw AQHI Ambient Air Monitoring Station
Site Documentation / Network Documentation

Ambient Site Doc-PRAMP-20260401-01689-V03

April 2026

Ambient Air Monitoring Site Documentation

1.0 General Information

1.1 Station

Station identification/number	AQHI - Grimshaw Station (01689)
Station Name (building name, park name, etc.)	AQHI - Grimshaw Station
Date station established	December 1, 2021
Date information last updated	March 31, 2026

1.2 Location

Station address (street address/legal land description)	13-8-83-23-W5

Nearest cross-street	50 St and 48 Ave	
Air zone / Airshed zone	PRAMP Airshed	
Latitude	56.186570	
Longitude	-117.604994	
UTM Coordinates	**East:** 462450	**North:** 6227009

Community (municipality, community or county)	Grimshaw
Population of city or metropolitan area	2799
Census year	2025

*Source:
https://regionaldashboard.alberta.ca/region/grimshaw/population/#/?from=2021&to=2025

DIRECTIONS:
From Peace River, head west on AB-2 toward 80 St., travel 8.9km. Turn left on Roma Dr / Alberta 2 Alt S, travel 11.2km. Turn left on 50 St, travel around 600m. The trailer is set on the left side of the road.

1.3 Owner/Operator/Approval Holder

Name of operating agency	Bureau Veritas Canada
Address	#1 2080 39th Ave NE
	Calgary, AB T2E 6P7

Contact name	Alex Dolotii
Phone number	780-446-2724
Email address	Alex.dolotii@bvlabs.com

Name of owner/approval holder	Peace River Air Monitoring Program
Address	Suite 91, 305 – 4625 Varity Drive NW Calgary, AB, T3A 0Z9
Contact name	Mike Bisaga / Lily Lin
Phone number	780-266-7068 / 587-225-2248
Email address	pramptech@prampairshed.ca
Approval number	n/a

2.0 Site Description

Land use by sector (use 90° as a sector)	1. North: Residential
	2. East: Residential, Agricultural, School, Community center
	3. South: Agricultural
	4. West: Residential, Agricultural, Recreational

Site elevation (above sea level (m))	603 m

Angle of elevation to nearby buildings	**1. Greatest angle:** n/a
	2. Building direction: East, North, and Southeast
Average building height in the area (m)	10 m

Air flow restrictions (yes/no)	**North:** No	**South:** No
	East: Yes	**West:** No
Distance to nearest trees (m)	No nearby trees around the station	
Manifold	**1. Type:** Stainless Steel / Glass	
	2. Distance from supporting structure: 1 m	

Meteorological Information	**1. Type:** Aluma Tower
	2. Distance from supporting structure: 7 m
	3. Distance from station: 10 m
	4. Contact: on the air monitoring station

3.0 Site Influences

3.1 Localized sources (within 20 metres of station, monitor, or sampler)

Type	Distance (m)	Description
Open field	n/a	n/a

3.2 Roadway influences

Name	Type	*Traffic Volume	Distance (m)	Description
50 St	Residential use	Minimal - Moderate	30 m	Paved Road
47 Ave	Residential use	Minimal – Moderate	30 m	Paved Road
Back alley of 48 Ave	Residential use	Minimal	15 m	Gravel Road

*Average annual weekday traffic

3.3 Major point sources

Source Name	Source Type	Production Capacity	Distance from Site (km)	Compass direction (degrees)
Recreation centre	Heating, vehicle emission	unknown	0.05 km	Southwest
Nutrien – Roma Distribution Terminal	PM, fertilizer	unknown	3km	Northwest

4.0 Instruments

Station Name: Grimshaw AQHI station

Instrument Type	Owner	Make	Serial No.	Sampling Height (m)
Sulphur dioxide	PRAMP	API T100	722	4
Methane / Non-methane hydrocarbons	PRAMP	Thermo 55i	1193585652	4
Total reduced sulphur	PRAMP	Thermo 43iQ-TL	12409233394	4
TRS convertor	PRAMP	CD Nova CDN-101	576	n/a
Nitrogen dioxide	PRAMP	Thermo 42iQ	12409233392	4
Ozone	PRAMP	Thermo 49iQ	12326230141	4
Particulate Matter 2.5	PRAMP	Teledyne T640	318	6
Wind speed/direction	PRAMP	RM Young 05305AQ	174801	10.5
Temperature/RH	PRAMP	Vaisala HMP155	N2910506	4
Data logger	PRAMP	Envista Ultimate	282144	n/a
Barometric pressure	PRAMP	Met One 092	A2397	4
Hydrogen generator	PRAMP	Thermo HG300	190567059	n/a
Zero air generator	PRAMP	Teledyne T701H	467	n/a
AQM trailer	PRAMP	ITB	VIN: 2C9CSC2G7J1044015	n/a

5.0 Continuous Station

5.1 Area Map for Continuous Station

Source: http://maps.google.com
Retrieved: March 2022

5.2 Sketch for Continuous Station

5.3 Photographs for Continuous Station

East:

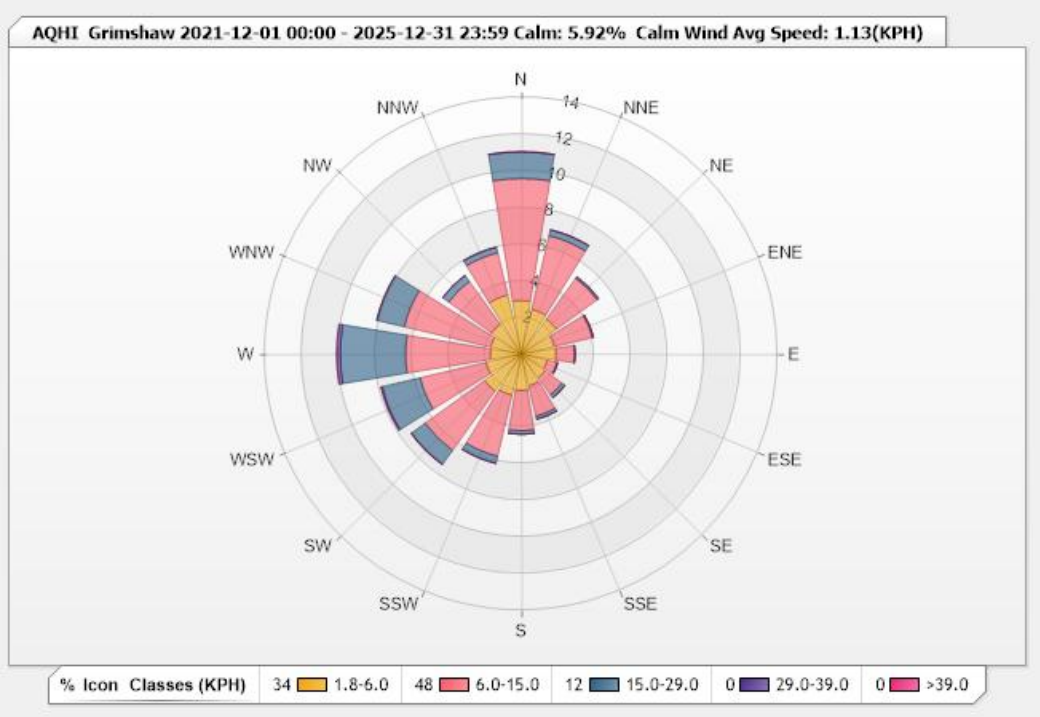
North:

South:

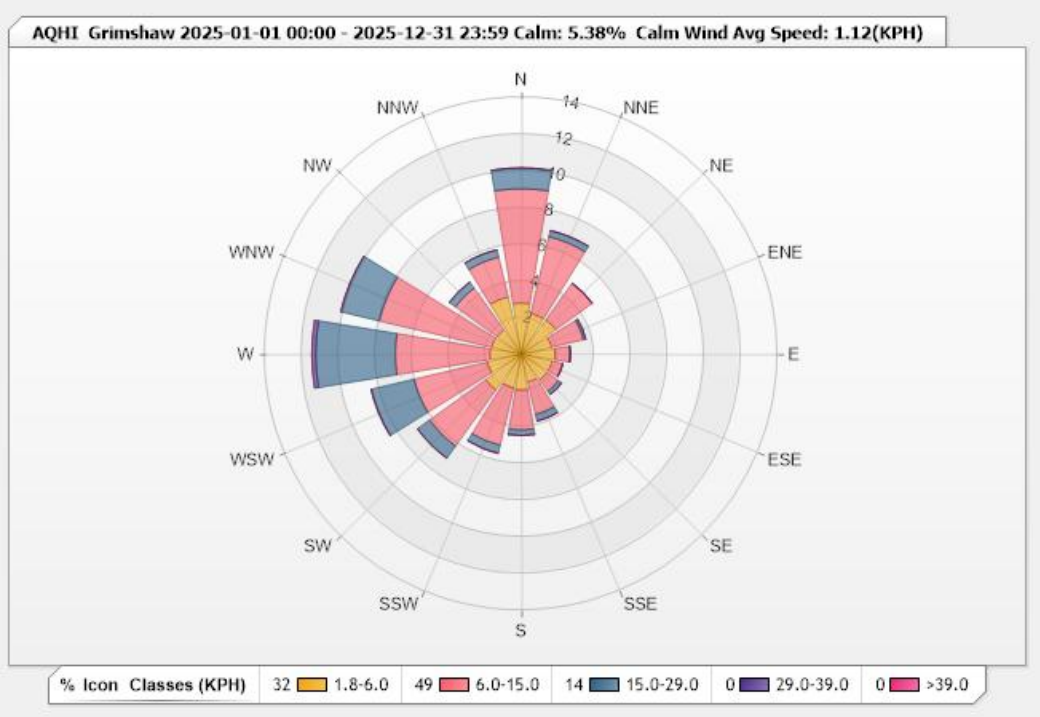
West:

Colour picture showing the details of the sampling inlet(s) or manifold in relation to the station.

5.4 Wind Roses

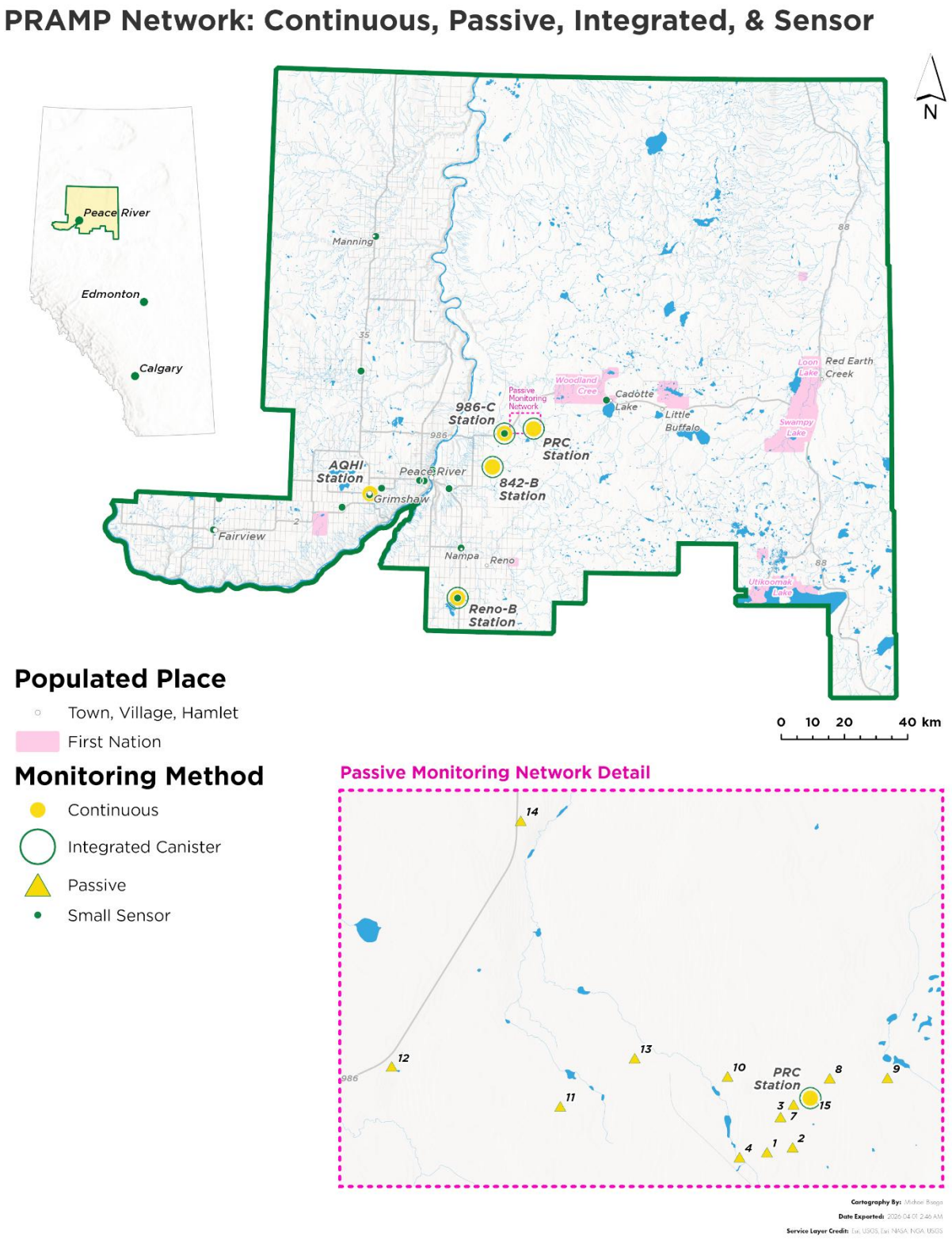


Data Period: December 1, 2021 – December 31, 2025

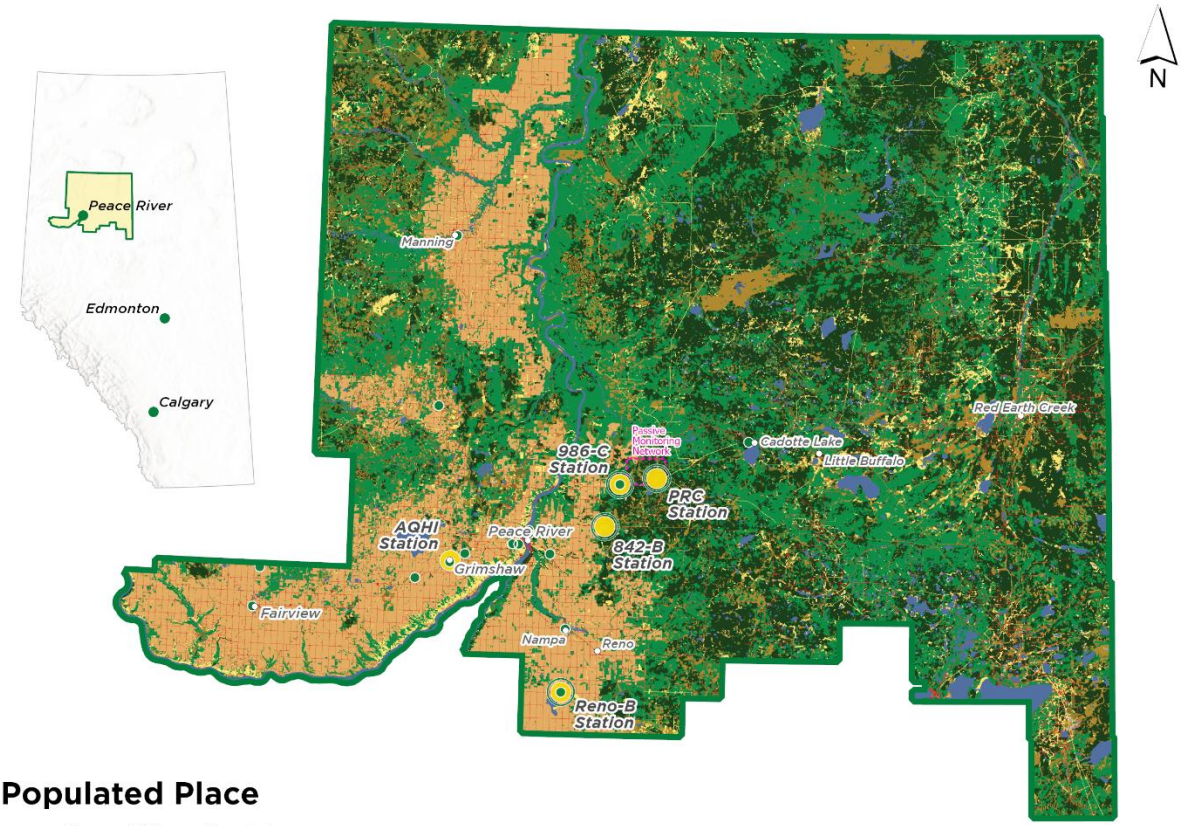


Data Period: January 1, 2025 – December 31, 2025

6.0 Network of Stations



PRAMP Network: Landcover Class (ABMI)



Populated Place

- Town, Village, Hamlet

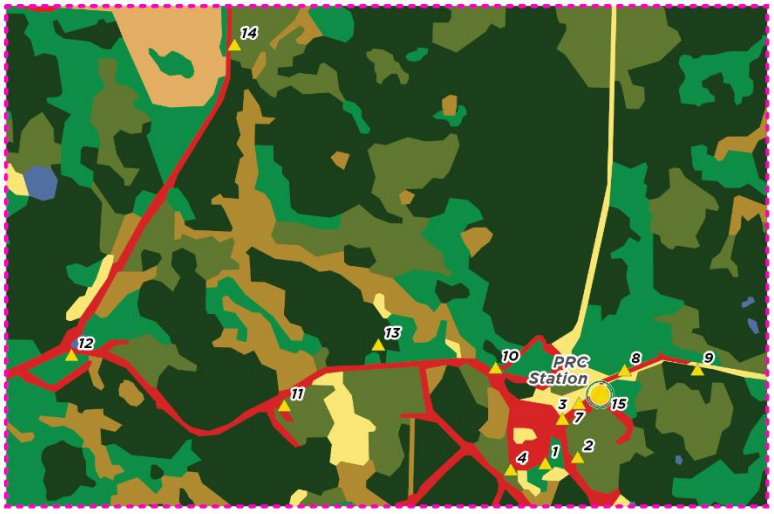
Monitoring Method

- Continuous
- Integrated Canister
- Passive
- Small Sensor

Landcover Class

- Water
- Permanent Snow/Ice
- Rock/Rubble
- Exposed land
- Developed
- Shrubland
- Grassland
- Agriculture
- Coniferous forest
- Broadleaf forest
- Mixed forest

Passive Monitoring Network Detail

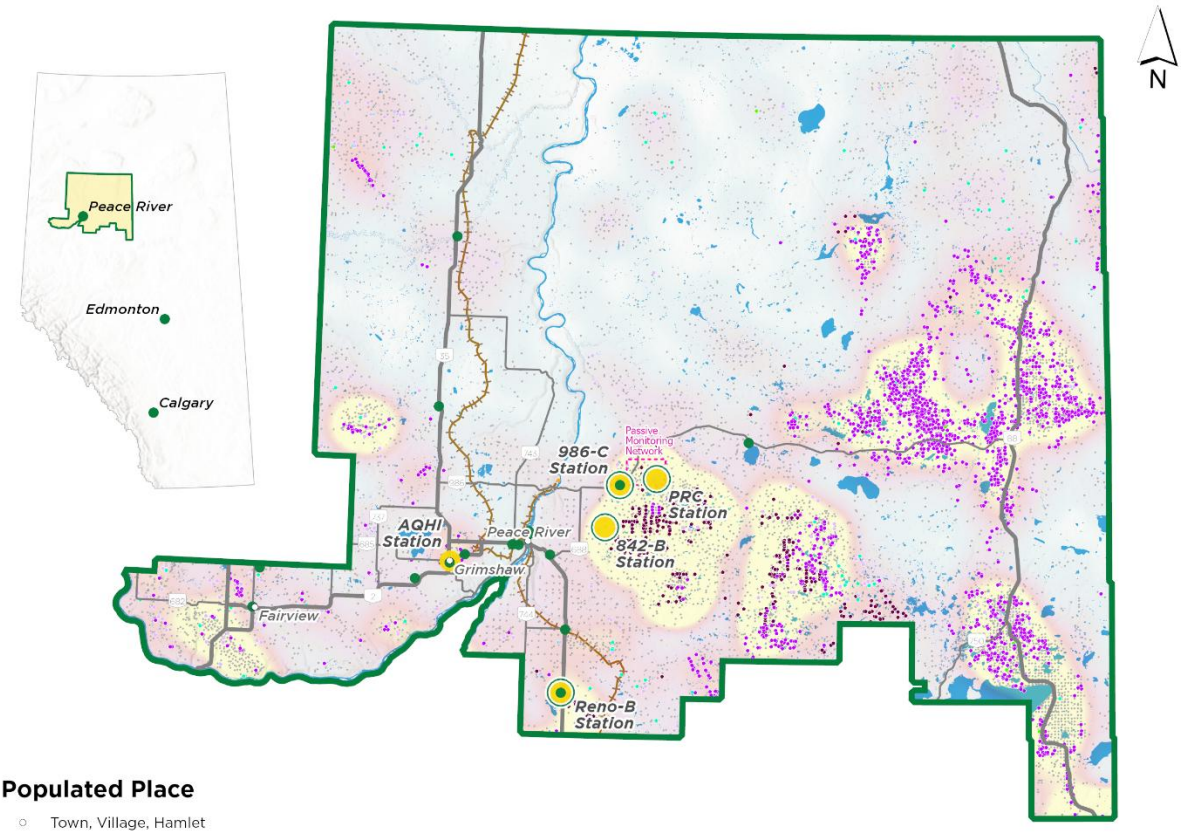


Cartography By: Michael Braga

Date Exported: 2026-04-01 2:46 AM

Service Layer Credit: Esri, CGIAR, USGS, Esri, NASA, NGA, USGS, FEMA, Esri, USGS

PRAMP Network: Industrial and Transportation Features



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Transportation

- Roadway
- Railway
- Airport

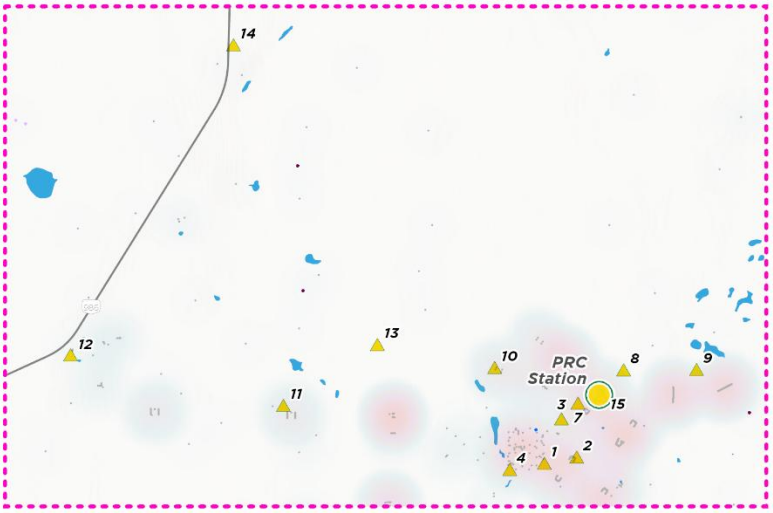
Industrial Facilities (Count)

- Pulp and Paper (1)
- Conventional Oil Well or Battery (1,877)
- Natural Gas Well or Battery (262)
- Bitumen Well or Battery (1,024)
- Compressor Station or Pipeline Facility (166)
- In Situ Oil Sands Facility (8)
- Gas Plant or Processing Facility (18)
- Agricultural Storage and Transfer (1)
- Well (Not Associated with Battery) (16,967)

Relative Well Density

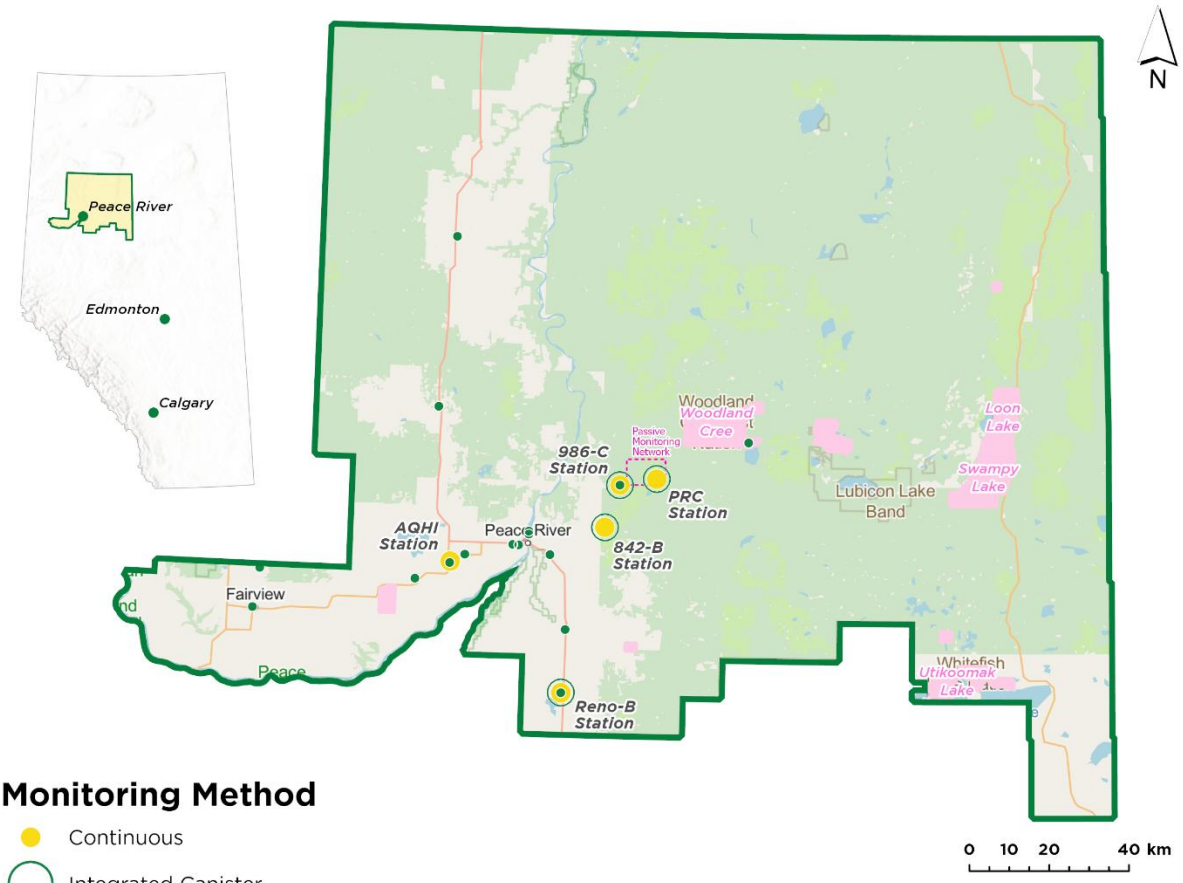
- Sparse
- Dense

Passive Monitoring Network Detail



Cartography By: Michael Raaga
Date Exported: 2026-04-01 3:20 AM
Service Layer Credit: Esri, USGS, Esri, NASA, NGA, USGS

PRAMP Network: Topographic Base



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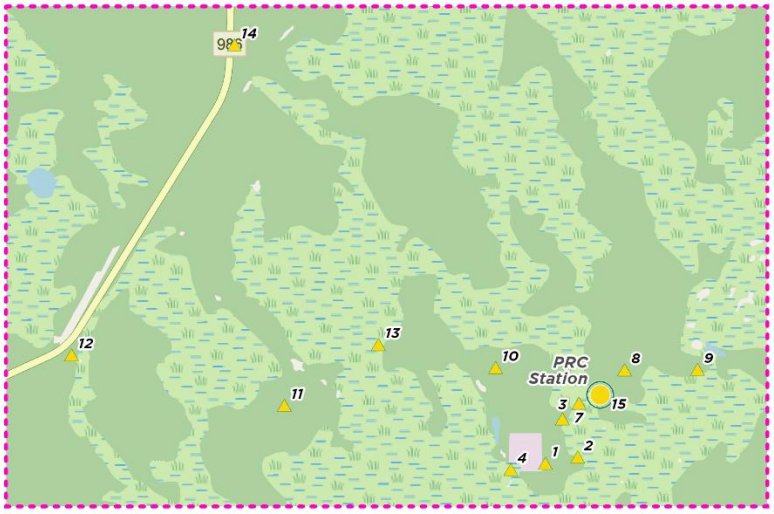
Passive Monitoring Network Detail



Cartography By: Michael Raaga

Date Exported: 2026-04-01 2:46 AM

Service Layer Credit: Sources: Map data © OpenStreetMap contributors, Microsoft, Esri Community Maps contributors, Map layer by Esri, Esri, USGS

7. 0 REVISION

Revision No.	Date	Reason For Revision	Prepared By	Approved By
0	March 2023	Created a new site	Lily Lin, Technical Program Manager	Michael Bisage, Technical Program Manager
1	March 2024	Updated station name, instrument list and wind roses	Lily Lin, Technical Program Manager	Michael Bisage, Technical Program Manager
2	March 2025	Updated population #, instrument list and wind roses	Lily Lin, Technical Program Manager	Michael Bisage, Technical Program Manager
3	April 2026	Updated operator contact, population #, instrument list, wind roses and network documentation maps	Lily Lin, Technical Program Manager	Michael Bisage, Technical Program Manager