PEACE RIVER AREA MONITORING PROGRAM

PRC Ambient Air Monitoring Station
Site Documentation / Network Documentation

Ambient Site Doc-PRAMP-20230331-01698-V00

March 2023

Ambient Air Monitoring Site Documentation Template

1.0 General Information

1.1 Station

Station identification/number	PRC (Alberta's Data Warehouse Site ID: 01698)
Station Name (building name, park name, etc.)	PRC
Date station established	March 1, 2022
Date information last updated	March 31, 2023

1.2 Location

Station address (street address/legal land description)	Northern Sunrise County, AB T8S 1V1
	Legal land description

Nearest cross-street	CNRL Peace River Plant Complex site, east of Seal Lake Rd.	
Air zone / Airshed zone	PRAMP Airshed	
Latitude	56.38257, -116.769283	
Longitude	-117.137080	
UTM Coordinates	**East:** 514246.83	**North:** 6248683.81

Community (municipality, community or county)	Northern Sunrise County
Population of city or metropolitan area	1711
Census year	2021

DIRECTIONS:
From Peace River, head west on AB-2W, turn right onto 75 St/ AB-743 N (sign for Weberville Rd / Peace River/ Pulp Mill) , travel for 14.6km. Turn right onto AB-986E. Travel 30.2 km. Turn right and travel for 5.2 km. The trailer will be 1.4km on the right.

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	Christopher Wesson
Phone number	780-446-2724
Email address	Christopher.WESSON@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: Pond / Forested area	
	2. East: Forested area	
	3. South: Forested area	
	4. West: Forested area	

Site elevation (above sea level (m))	610 m

Angle of elevation to nearby buildings	**1. Greatest angle:** n/a
	2. Building direction: n/a
Average building height in the area (m)	No buildings present in immediate area

Air flow restrictions (yes/no)	**North:** No	**South:** No
	East: No	**West:** No
Distance to nearest trees (m)	60 m	
Description of Obstruction	Trees, ~ 11m height	
Angle of Elevation (wind system)	<0°	
Angle of Elevation (manifold)	7°	
Manifold	**1. Type:** Stainless Steel / Glass	
	2. Distance from supporting structure: 1 m	
	3. Total Height: 4 m	

Meteorological Information	**1. Type:** Steel Tower
	2. Distance from supporting structure: 17 m
	3. Distance from station: 20 m
	4. Contact: Adjacent to SW end of 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
Unknown	Facility use road	Unknown - Minimum	575 m	Unpaved Rural Road
Seal Lake Road	Facility use road	Unknown - Minimum	1.5 km	Paved Road

*Average annual weekday traffic

3.3 Major point sources

Source Name	Source Type	Production Capacity	Distance from Site (km)	Compass direction (degrees)
Transalta Three Creeks Facility	H2S, TRS, THC	unknown	500 m	Southeast
CNUL Peace River Complex Facility	H2S, TRS, THC	unknown	500 m	West

4.0 Instruments

Station Name: Reno-B

Instrument Type	Owner	Make	Serial No.	Sampling Height (m)	Date Installed (Date PRAMP took over the station)
Sulphur dioxide	CNRL	Thermo 43i	1034746225	4	March 1, 2022
Methane / Non-methane hydrocarbons	CNRL	Thermo 55i	1022143392	4	March 1, 2022
Total reduced sulphur	CNRL	Thermo 450i	1034746224	4	March 1, 2022
Hydrogen Sulphide	CNRL	Thermo 450i	1308857354	4	March 1, 2022
TRS convertor	CNRL	CD Nova CDN-101	506	n/a	March 1, 2022
Wind speed/direction	CNRL	RM Young 05305VK	129612	10	March 1, 2022
Temperature/RH	PRAMP	Rotronic HC2-S3	20558318	3	March 1, 2022
Barometric Pressure	PRAMP	Met One 92	B19577	3	March 1, 2022
Data logger	PRAMP	Envista Ultimate	n/a	n/a	March 1, 2022
Zero Air Generator	PRAMP	Teledyne 701	n/a	n/a	March 1, 2022
Hydrogen Generator	PRAMP	AMA HG300	n/a	n/a	March 1, 2022
Station Temperature	CNRL	COMET	n/a	n/a	March 1, 2022

5.0 Continuous Stations

5.1 Area Map for Continuous Station

Source: http://maps.google.com
Retrieved: March 19, 2023

5.2 Sketches for Continuous Stations

Distances from the Reno-B Station:
A: 75 m away from the north side of trees
B: 70 m away from the east side of trees
C: 60 m away from the south side of trees
D: 60 m away from the west side of trees
E: 60 m away from the unpaved road to the station

Notes:

* The station is surrounded by trees.

* In order to meet the AQM siting requirements, the wind tower is a stand-alone tower with a height of m.

5.3 Photographs for Continuous Stations

East:

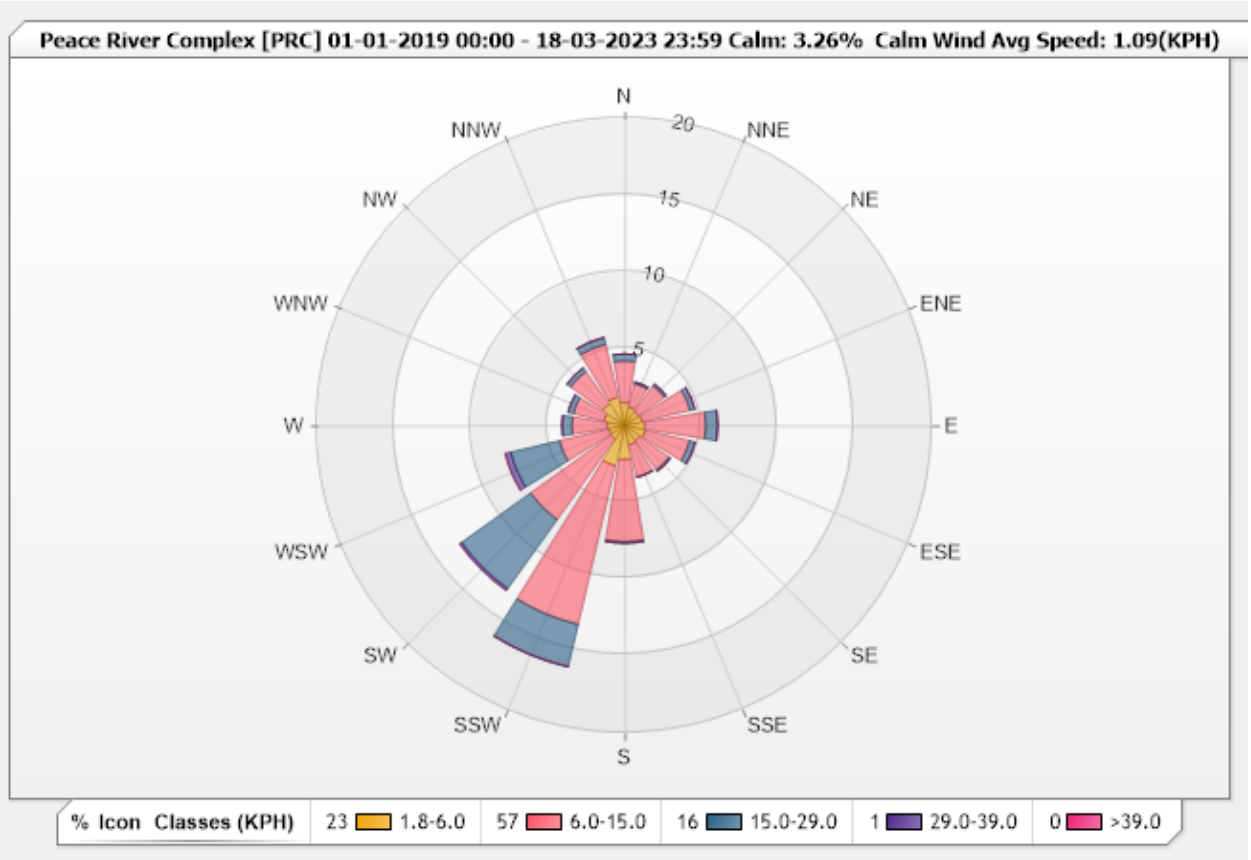
North:

South:

West:

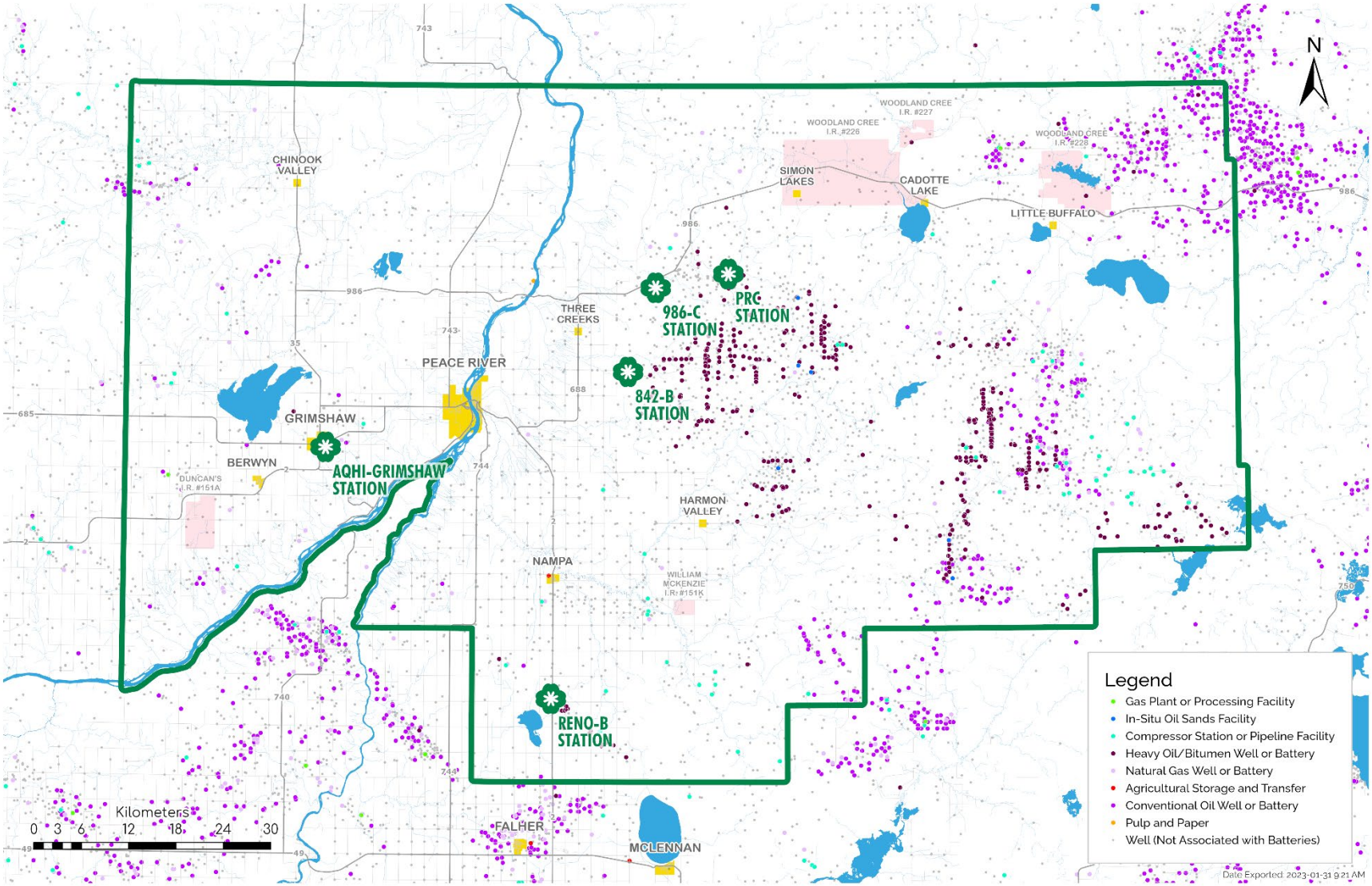
Colour picture showing the details of the sampling inlet(s) or manifold in relation to the station.

5.4 Wind Rose



Data Period: January 1, 2019 – March 18, 2023 (PRAMP obtained the PRC site wind data from CNRL back to January 1, 2019)

6.0 Network of Stations



7.0 Revisions

Revision No.	Date	Reason For Revision	Prepared By	Approved By
0	March 2023	Original	Lily Lin, Technical Program Manager	Michael Bisage, Technical Program Manager