



## **Reno-B Ambient Air Monitoring Station Site Documentation / Network Documentation**

**Ambient Site Doc-PRAMP-20240328-01563-V02**

## Ambient Air Monitoring Site Documentation Template

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## 1.0 General Information

### 1.1 Station

<b>Station identification/number</b>	Reno-B (Alberta Air Data Warehouse Site ID: 01563)
<b>Station Name (building name, park name, etc.)</b>	Reno-B
<b>Date station established</b>	November 7, 2012
<b>Date information last updated</b>	March 28, 2024

### 1.2 Location

<b>Station address (street address/legal land description)</b>	Hwy2, Jean Cote, AB, T0H2E0	
	Legal land description	
<b>Nearest cross-street</b>	Twp 800 and Highway 2	
<b>Air zone / Airshed zone</b>	PRAMP Airshed	
<b>Latitude</b>	55.890868	
<b>Longitude</b>	-117.137080	
<b>UTM Coordinates</b>	<b>East:</b> 491426.55	<b>North:</b> 6193942.09
<b>Community (municipality, community or county)</b>	Northern Sunrise County	
<b>Population of city or metropolitan area</b>	1711	
<b>Census year</b>	2021	

#### **DIRECTIONS:**

From Peace River, travel approx. 47 km on Hwy 2 (south) and turn onto a gravel residential road on the right. Stay on the gravel road for 250 m. The trailer will be on your left side.

### 1.3 Owner/Operator/Approval Holder

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

<b>Contact name</b>	Christopher Wesson
<b>Phone number</b>	780-446-2724
<b>Email address</b>	Christopher.WESSON@bvlabs.com

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

## 2.0 Site Description

<b>Land use by sector (use 90° as a sector)</b>	1. North: Agricultural	
	2. East: Agricultural	
	3. South: Agricultural	
	4. West: Agricultural	
<b>Site elevation (above sea level (m))</b>	623 m	
<b>Angle of elevation to nearby buildings</b>	<b>1. Greatest angle:</b> n/a	
	<b>2. Building direction:</b> n/a	
<b>Average building height in the area (m)</b>	A bungalow residential house is located 170 m of the east side of the station	
<b>Air flow restrictions (yes/no)</b>	<b>North:</b> No	<b>South:</b> No
	<b>East:</b> No	<b>West:</b> No
<b>Distance to nearest trees (m)</b>	25 m	
<b>Description of Obstruction</b>	Bungalow House on the east,	
<b>Angle of Elevation (wind system)</b>	5°	
<b>Angle of Elevation (manifold)</b>	10°	
<b>Manifold</b>	<b>1. Type:</b> Stainless Steel / Glass	
	<b>2. Distance from supporting structure:</b> 1 m	
<b>Meteorological Information</b>	<b>1. Type:</b> Aluma Tower	
	<b>2. Distance from supporting structure:</b> 7 m	
	<b>3. Distance from station:</b> 10 m	
	<b>4. Contact:</b> South 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
Highway 2	Highway 2	Unknown	250 m	Paved Rural Highway

\*Average annual weekday traffic

#### 3.3 Major point sources

Source Name	Source Type	Production Capacity	Distance from Site (km)	Compass direction (degrees)
CNRL Peacr River	H2S, TRS, THC	unknown	20 km	West
Tervita Facility	H2S, TRS, THC	unknown	44.1 km	Northeast
CNUL Cliffdale Facility	H2S, TRS, THC	unknown	75 km	Northeast

## 4.0 Instruments

Station Name: Reno-B

Instrument Type	Owner	Make	Serial No.	Sampling Height (m)	Date Installed
Sulphur dioxide	PRAMP	Thermo 43iQTL	1210190505	4	November 23, 2022
Methane / Non-methane hydrocarbons	PRAMP	Thermo 55i	12101910497	4	November 23, 2022
Total reduced sulphur	PRAMP	Thermo 43iQTL	1210190504	4	November 23, 2022
TRS convertor	PRAMP	CD Nova CDN-101	590	n/a	November 23, 2022
Wind speed/direction	PRAMP	RM Young 05305AQ	174795	10	November 23, 2022
Temperature/RH	PRAMP	Rotronic HC2-S3	20467597	3	November 23, 2022
Barometric Pressure	PRAMP	Met One 92	A17940	3	November 23, 2022
Precipitation	PRAMP	RM Young 5202	TB 15877	4	November 23, 2022
Intermittent VOCs	Innotech / PRAMP	Suma Canister	n/a	4	November 23, 2022
Data logger	PRAMP	Envista Ultimate	128	n/a	November 23, 2022
Zero Air Generator	PRAMP	Teledyne 701	70790000	n/a	November 23, 2022
Hydrogen Generator	PRAMP	AMA HG300	210467069	n/a	November 23, 2022
Station Temperature	PRAMP	COMET	18961616	n/a	November 23, 2022
AQM Trailer	PRAMP	ITB	VIN: 2C9CSB2G5F1044001 Plate #: 5VZ3-02	n/a	November 23, 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: 87 m away from the north side of trees

B: 170 m away from the house

C: 120 m away from the east side of trees

D: 250 m away from the east side of highway

E: 25 m away from the south side of trees

### 5.3 Photographs for Continuous Stations

East:



North:



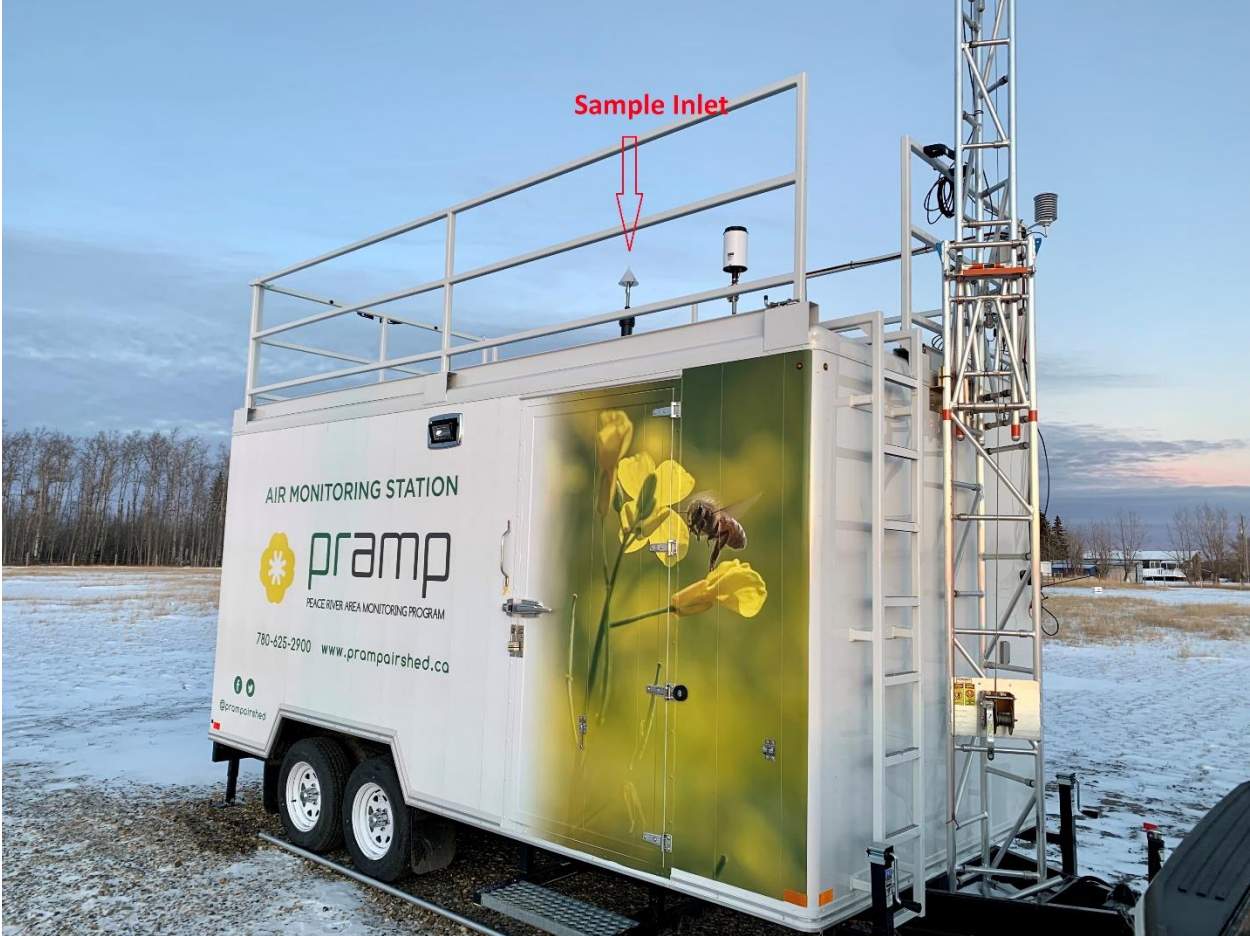
**South:**



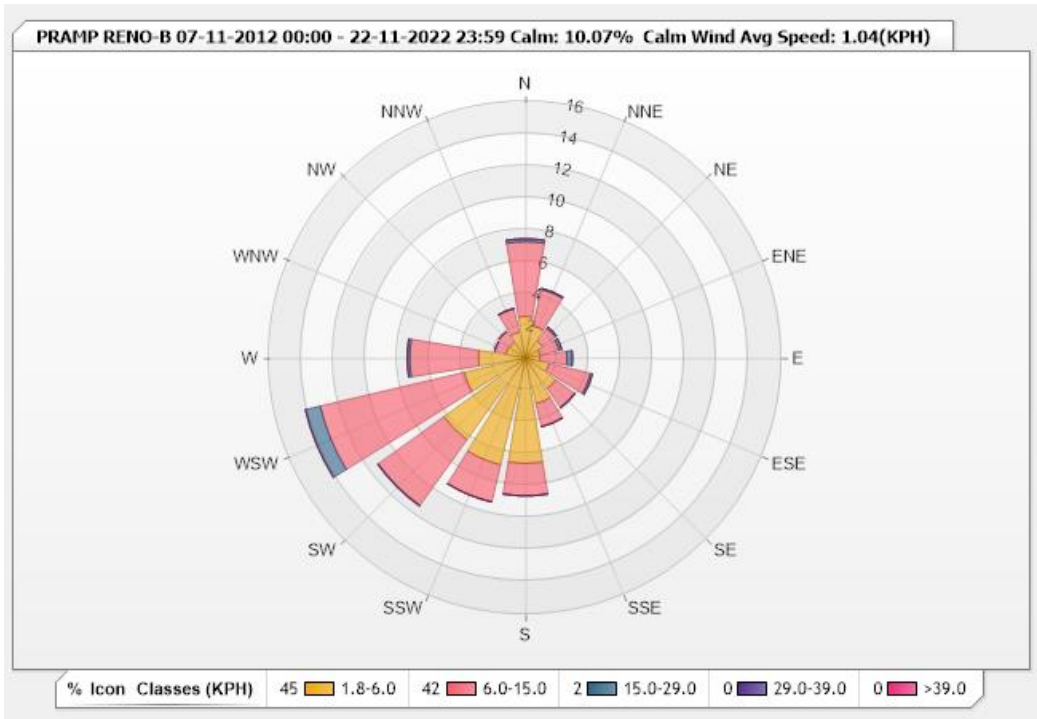
**West:**



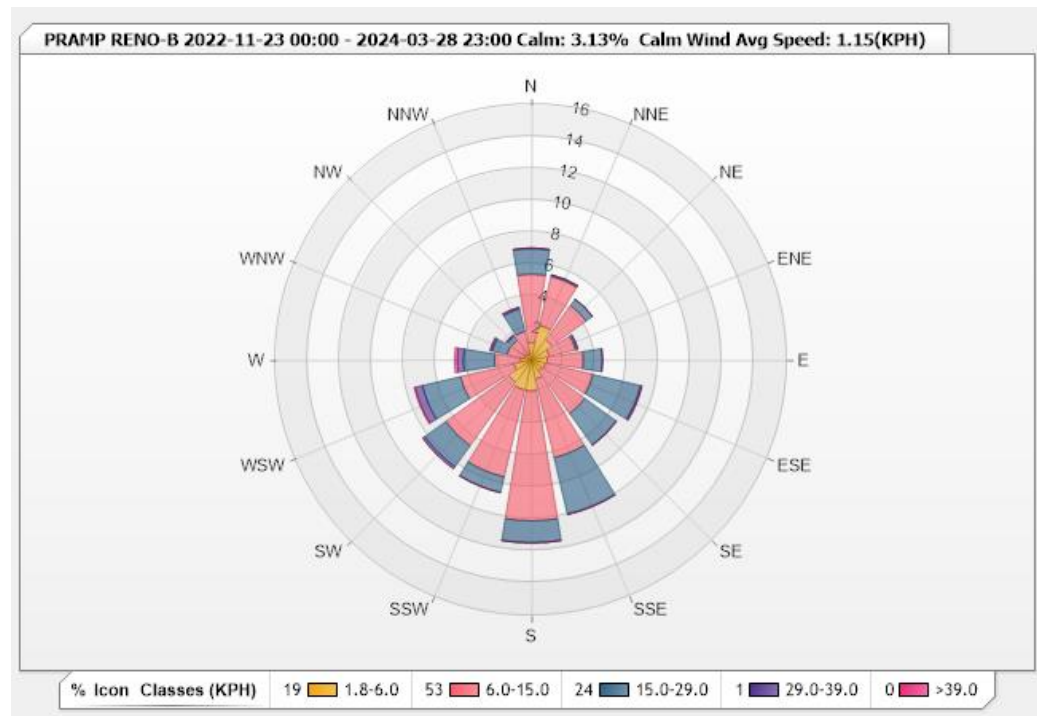
Colour picture showing the details of the sampling inlet(s) or manifold in relation to the station.



## 5.4 Wind Rose

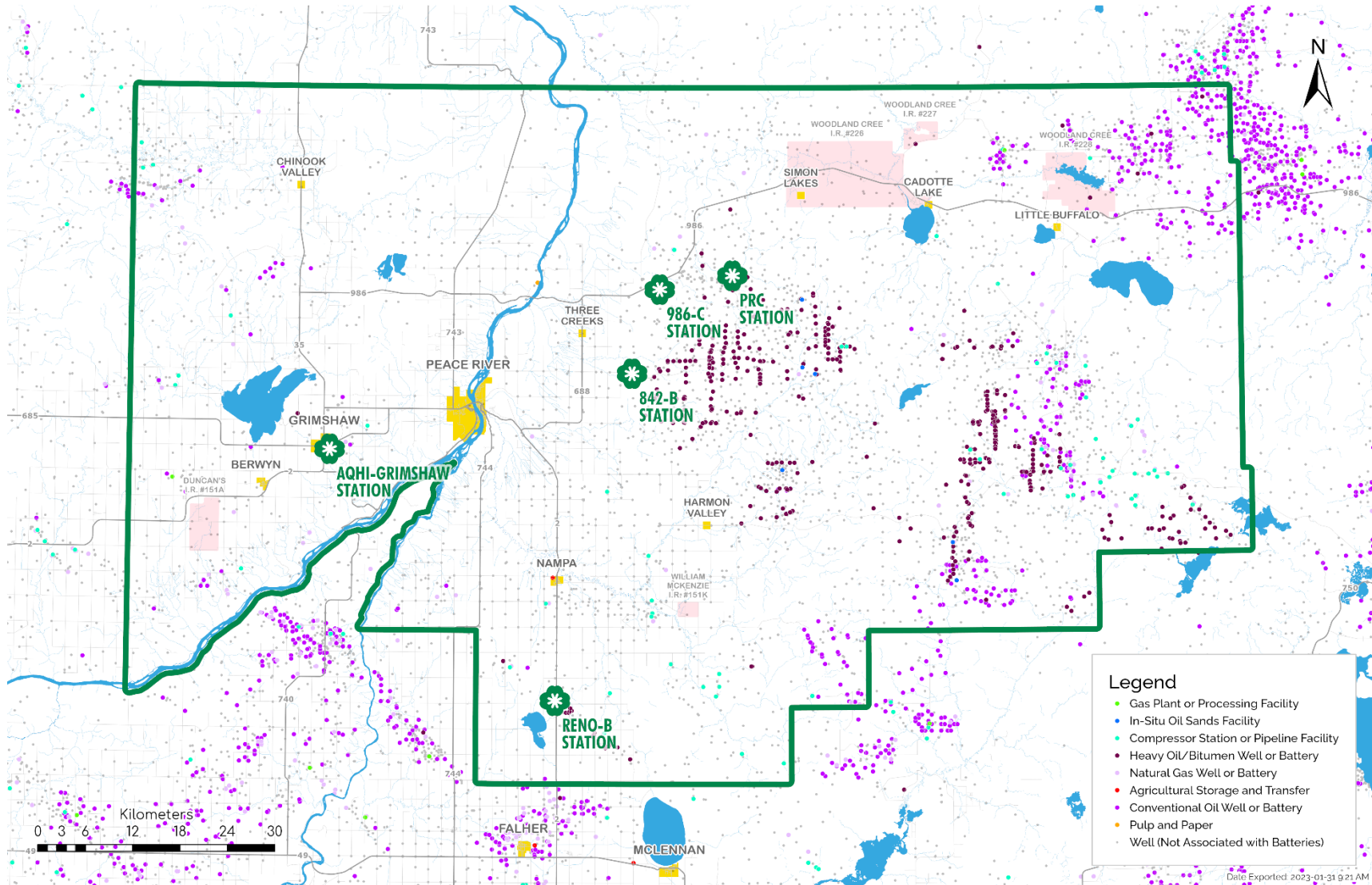


Data Period: November 7, 2012 – November 22, 2022



Data Period: November 23, 2022 – March 28, 2024

## 6.0 Network of Stations



## 7.0 REVISION

<b>Revision No.</b>	<b>Date</b>	<b>Reason For Revision</b>	<b>Prepared By</b>	<b>Approved By</b>
0	December 2017	Original	Lily Lin, Technical Program Manager	Michael Bisage, Technical Program Manager
1	March 2023	Created a new site doc due to station relocation	Lily Lin, Technical Program Manager	Michael Bisage, Technical Program Manager
2	March 2024	Update station name, instrument list and wind rose	Lily Lin, Technical Program Manager	Michael Bisage, Technical Program Manager