



**pramp**  
PEACE RIVER AREA MONITORING PROGRAM



## **986C Ambient Air Monitoring Station Site Documentation / Network Documentation**

**Ambient Site Doc-PRAMP-20210408-01562**

---

April 2021

# Ambient Air Monitoring Site Documentation Template

<b>1.0</b>	<b>General Information .....</b>	<b>3</b>
1.1	Station .....	3
1.2	Location.....	3
1.3	Owner/Operator/Approval Holder .....	4
<b>2.0</b>	<b>Site Description.....</b>	<b>5</b>
<b>3.0</b>	<b>Site Influences .....</b>	<b>6</b>
3.1	Localized sources (within 20 metres of station, monitor, or sampler).....	6
3.2	Roadway influences .....	6
3.3	Major point sources.....	6
<b>4.0</b>	<b>Instruments .....</b>	<b>7</b>
<b>5.0</b>	<b>Continuous Stations .....</b>	<b>8</b>
5.1	Area Map for Continuous Station .....	8
5.2	Sketches for Continuous Stations .....	9
5.3	Photographs for Continuous Stations.....	10
5.4	Wind Rose .....	13
<b>6.0</b>	<b>Network of Stations .....</b>	<b>14</b>

## 1.0 General Information

### 1.1 Station

<b>Station identification/number</b>	986C
<b>Station Name (building name, park name, etc.)</b>	Three Creeks 986C
<b>Date station established</b>	August 1, 2019
<b>Date information last updated</b>	April 8, 2021

### 1.2 Location

<b>Station address (street address/legal land description)</b>	85240 Range Rd 193, Northern Sunrise County, AB	
	5-15-85-19-W5	
<b>Nearest cross-street</b>	Hwy 986 and Range Rd 193	
<b>Air zone / Airshed zone</b>	PRAMP Airshed	
<b>Latitude</b>	56.369988	
<b>Longitude</b>	-116.925636	
<b>UTM Coordinates</b>	<b>East:</b> 504593.51	<b>North:</b> 6247261.97
<b>Community (municipality, community or county)</b>	Peace River	
<b>Population of city or metropolitan area</b>	7215	
<b>Census year</b>	2020	

#### **DIRECTIONS:**

From Peace River, travel approx. 8 km on Hwy 2 (south) and turn onto Hwy 688 E.

Follow this for 23 km and then turn onto Hwy 986 (east).

From the junction of Hwy 688 and Hwy 986, travel about 10.1 km, turn right on Range Rd 193 and drive about 150m. The trailer is set back from the road, on the left-hand 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: Homestead	
<b>Site elevation (above sea level (m))</b>	602 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>	No buildings present in immediate area	
<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>	50 m	
<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> 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
Range Rd 193	Residential Street	Unknown - Minimal	40 m	Gravel Road
Hwy 986	Highway	Unknown – Minimal	1 km	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 Peace River Facility	H2S, THC	unknown	8.25 km	Northeast
Mercer Peace River Facility	H2S, PM2.5	unknown	10 km	West

## 4.0 Instruments

Station Name: 986C

Instrument Type	Owner	Make	Serial No.	Sampling Height (m)	Date Installed
Sulphur dioxide	PRAMP	Thermo 43iQTL	1193585646	4	July 16, 2020
Methane / Non-methane hydrocarbons	PRAMP	Thermo 55i	1193585652	4	July 16, 2020
Total reduced sulphur	PRAMP	Thermo 43iQTL	1191833341	4	July 16, 2020
TRS convertor	PRAMP	CD Nova CDN-101	516	n/a	July 16, 2020
Wind speed/direction	PRAMP	RM Young 05305L	174795	10	July 16, 2020
Temperature/RH	PRAMP	Rotronic HC2-S3	20357528	3	July 16, 2020
Barometric Pressure	PRAMP	Met One 092	Y23358	3	July 16, 2020
Precipitation	PRAMP	Campbell Scientific EML ARG100	190114	4	July 16, 2020
Hydrogen generator	PRAMP	Thermo HG300	191267063	n/a	July 16, 2020
Zero air generator	PRAMP	API 701	468	n/a	July 16, 2020
Intermittent VOCs	Innotech / PRAMP	Suma Canister	n/a	4	July 16, 2020
Data logger	PRAMP	Envista Ultimate	n/a	n/a	July 16, 2020

## 5.0 Continuous Stations

### 5.1 Area Map for Continuous Station

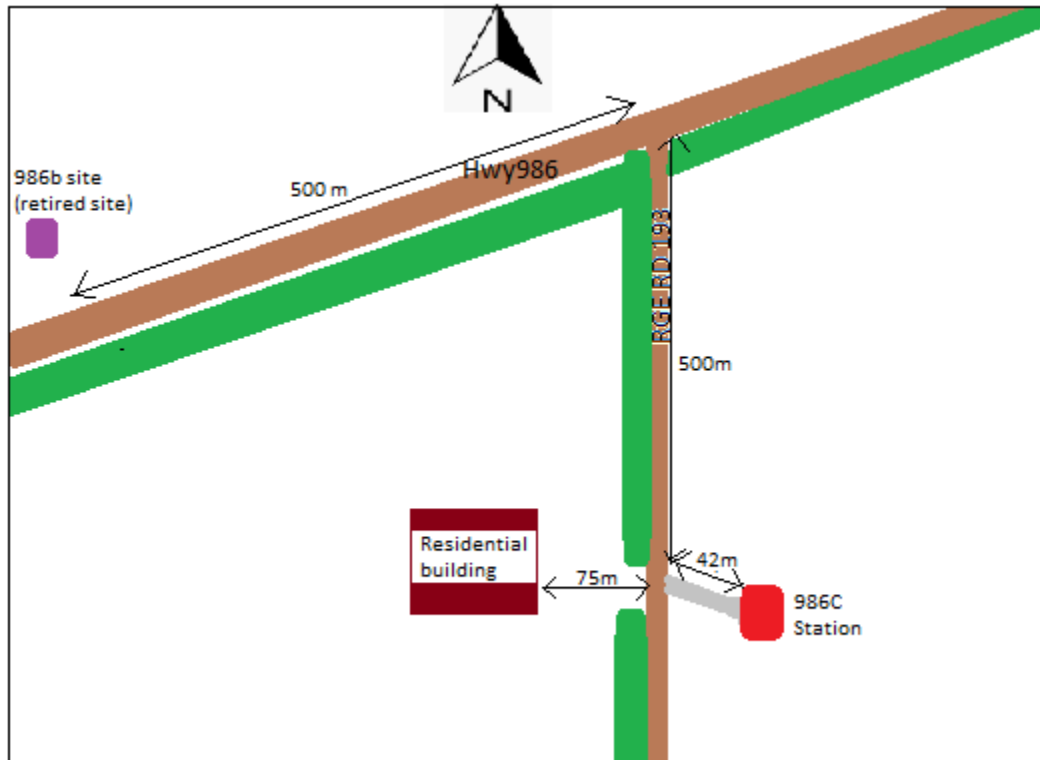


Source: <http://maps.google.com>

Retrieved: August 2019



## 5.2 Sketches for Continuous Stations



Notes:

Unless otherwise marked, land use is agricultural

### 5.3 Photographs for Continuous Stations

East:



North:



**South:**



**West:**

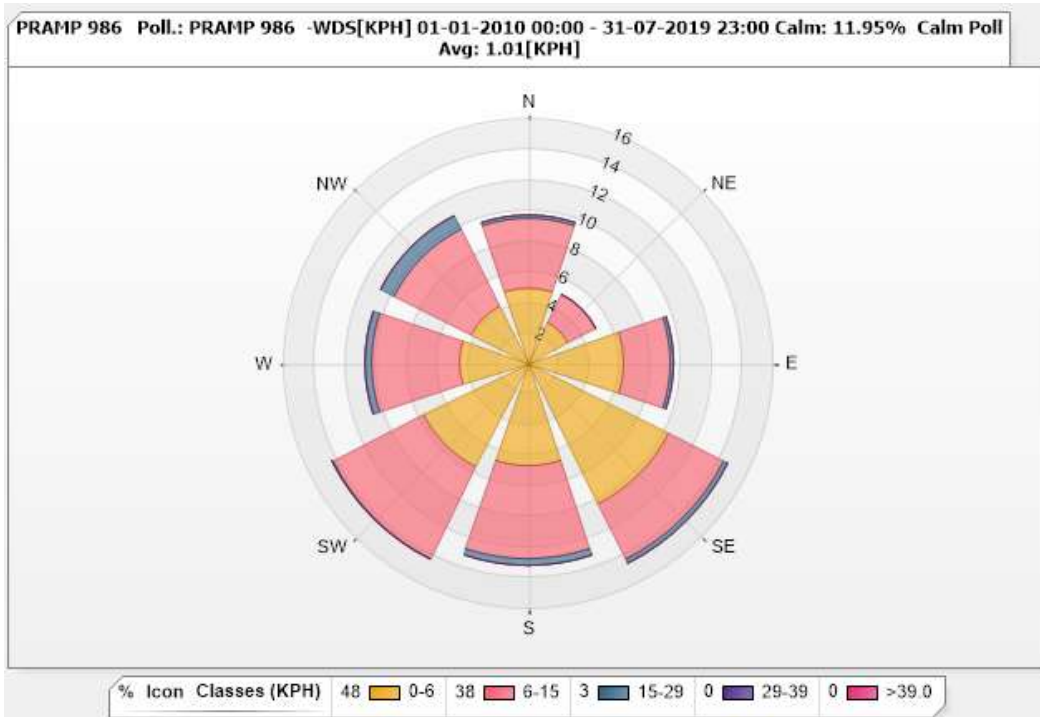




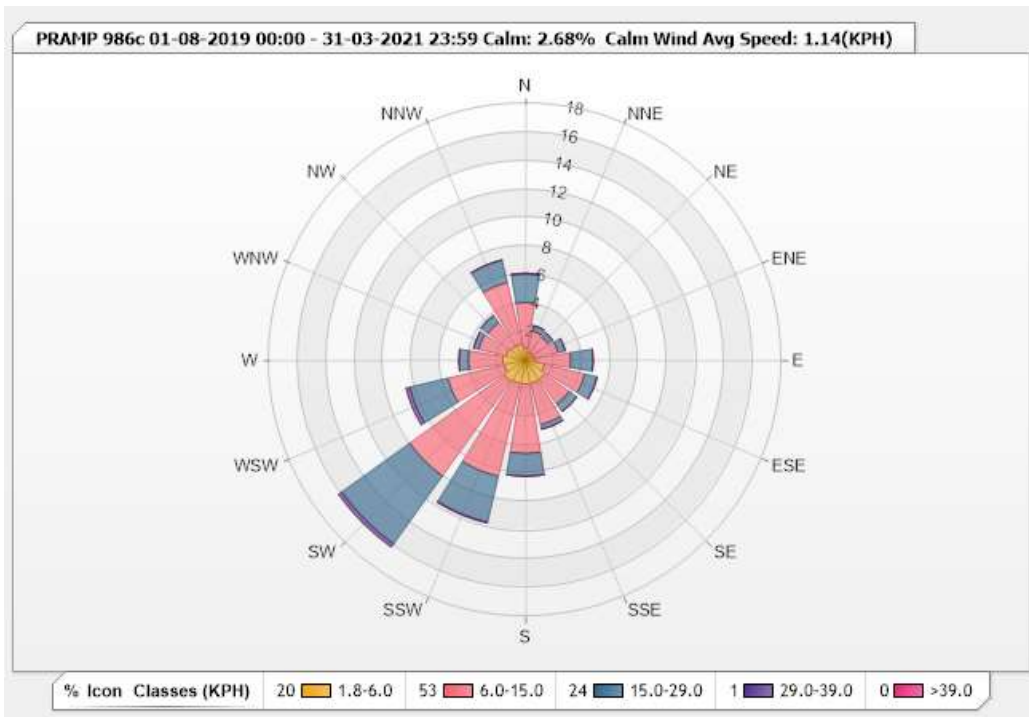
Colour picture showing the details of the sampling inlet(s) or manifold in relation to the station.



## 5.4 Wind Rose

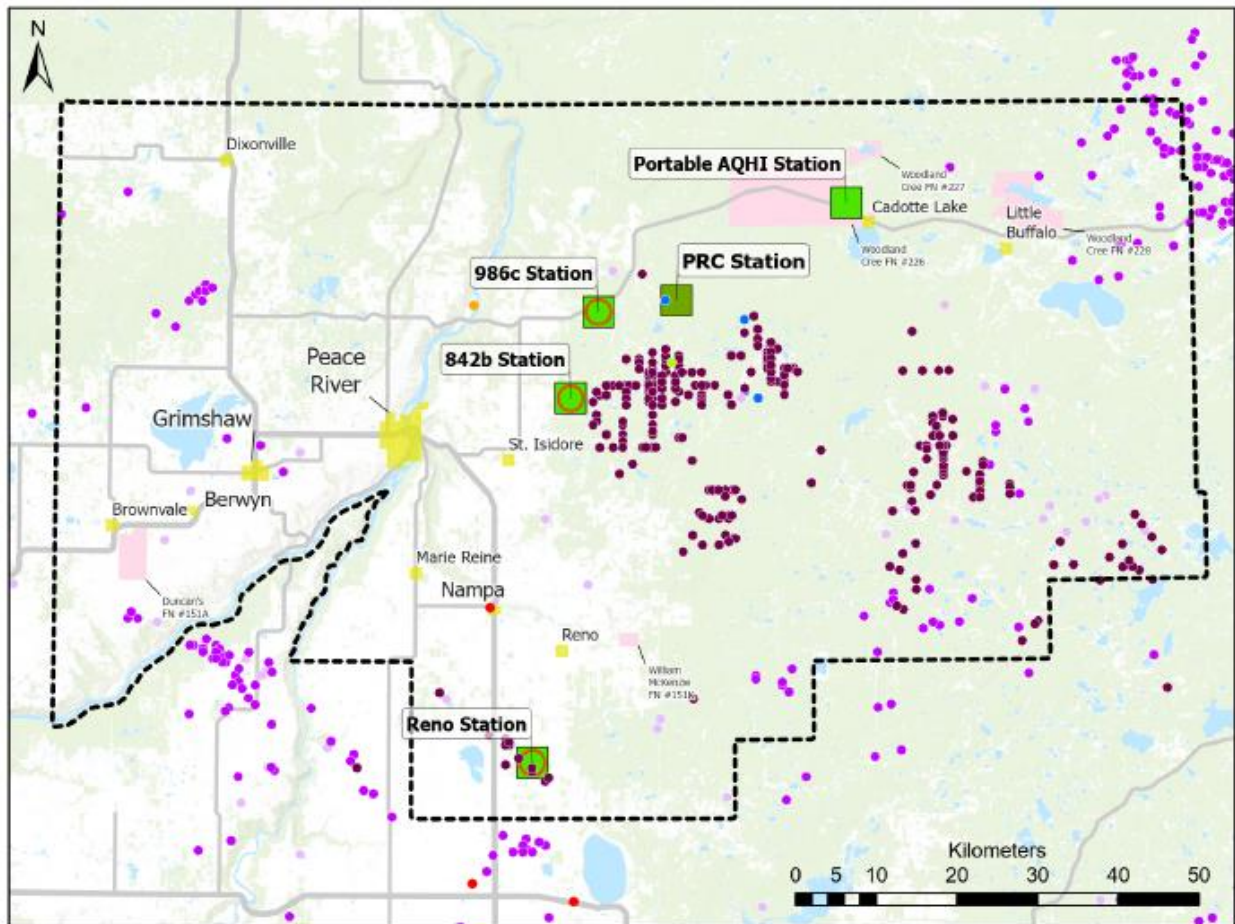


Data Period: January 1, 2010 – July 31, 2019  
 Data Collected at 986a and 986b



Data Period: August 1, 2019 – March 31, 2021  
 Data Collected at 986c

## 6.0 Network of Stations



# Peace River Area Monitoring Program



**Contact:** [pramp@prampairshed.ca](mailto:pramp@prampairshed.ca)

**Date Exported:** 2021-04-08 1:56 AM

**Sources:** Esri Canada, Esri, HERE, Garmin, FAO, METI/NASA, USGS, EPA, NRCAN, Parks Canada, Esri, CGIAR, USGS, Sources: NRCAN, Esri Canada, and Canadian Community Maps contributors., Esri Canada

## Map Legend

### Monitoring Methods

- Continuous (existing)
- Continuous (planned)
- Triggered Canister (existing)

### Industrial Facilities

- Heavy Oil/Bitumen Wells and Batteries
- Conventional Oil Wells and Batteries
- Natural Gas Wells and Batteries
- In-Situ Oil Sands Facilities
- Compressor Stations and Pipeline Facilities
- Power Plants and Generating Stations
- Pulp and Paper
- Agricultural Storage and Transfer