



Grimshaw AQHI Ambient Air Monitoring Station Site Documentation / Network Documentation

Ambient Site Doc-PRAMP-20230331-01689

March 2023

Ambient Air Monitoring Site Documentation Template

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1.0 General Information

1.1 Station

Station identification/number	Grimshaw AQHI Station (01689)
Station Name (building name, park name, etc.)	Grimshaw AQHI Station
Date station established	December 1, 2021
Date information last updated	March 31, 2023

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	2646	
Census year	2022	

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	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 Varsity 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)	Date Installed
Sulphur dioxide	PRAMP	API T100	772	4	December 1, 2021
Methane / Non-methane hydrocarbons	PRAMP	Thermo 55i	1191032505	4	December 1, 2021
Total reduced sulphur	PRAMP	API T100	132	4	December 1, 2021
TRS convertor	PRAMP	CD Nova CDN-101	534	n/a	December 1, 2021
Nitrogen dioxide	PRAMP	API T200	837	4	December 1, 2021
Ozone	PRAMP	API T400A	445	4	December 1, 2021
Particulate Matter 2.5	PRAMP	API T640	318	6	December 1, 2021
Wind speed/direction	PRAMP	RM Young 05305AQ	174801	10.5	December 1, 2021
Temperature/RH	PRAMP	Vaisala HMP155	N2910506	4	December 1, 2021
Data logger	PRAMP	Envista Ultimate	282144	n/a	December 1, 2021
Barometric pressure	PRAMP	Met One 092	A2397	4	December 1, 2021
Hydrogen generator	PRAMP	Thermo HG300	190567058	n/a	December 1, 2021

5.0 Continuous Stations

5.1 Area Map for Continuous Station



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

Retrieved: March 2022

5.2 Sketches for Continuous Stations



5.3 Photographs for Continuous Stations

East:



North:



South:



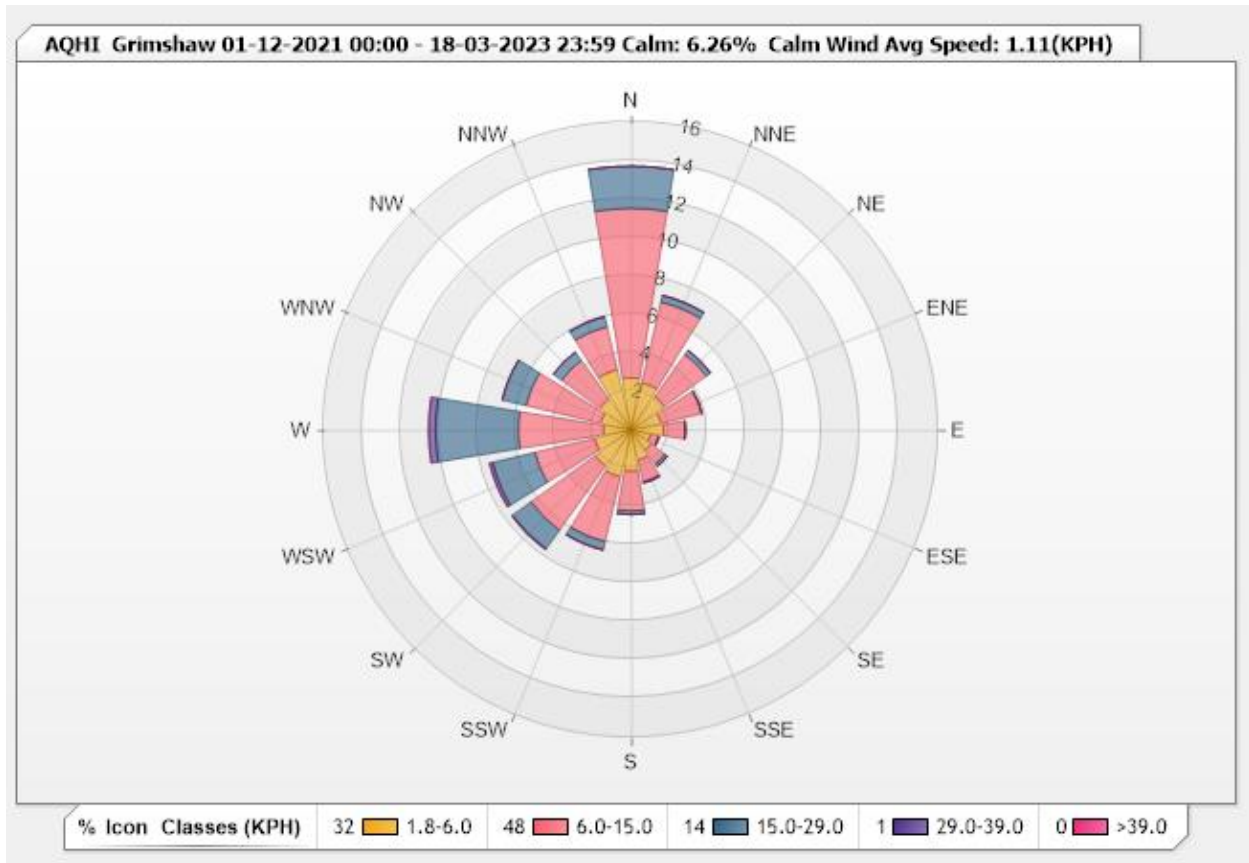
West:



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



5.4 Wind Rose



Data Period: December 1, 2021 – March 18, 2023 (AQH station was installed in December 2021.)

6.0 Network of Stations

