

Peace River Air Monitoring Program Three Creeks #986b Ambient Air Monitoring Station Site Documentation







# **Ambient Air Monitoring Site Documentation Template**

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### **1.0** General Information

#### 1.1 Station

Station identification/number	986b
Station Name (building name, park name, etc.)	Three Creeks 986b
Date station established	March 18, 2010
Date information last updated	July 21, 2017

#### 1.2 Location

Station address (street	19344 Hwy 986, Northern Sunrise County, AB			
address/legal land description)	14-16-85-19, W5M			
Air zone / Airshed zone	PRAMP Airshed			
Latitude	56.376056N			
Longitude	116.940704W			
UTM Coordinates	East: 503662	North: 6247936		

#### 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).

The trailer is set back from the road, on the left hand side, 9.6 km from the junction of Hwy-688 and Hwy-986.





# 1.3 Owner/Operator/Approval Holder

Name of operating agency	Maxxam Analytics		
Address	#1 2080 39 <sup>th</sup> Ave NE		
	Calgary, AB T2E 6P7		
Contact name	Christopher Wesson		
Title	Senior Project manager, Ambient Air Services		
Phone number	Cell: 780 446 2724		
Email address	cwesson@maxxam.ca		
Contact name	Trina Whitsitt		
Title	Supervisor, Ambient Air / Edmonton Air Operations		
Phone number	Office: 780408 5309, Cell: 587 337 5880		
Email address	twhitsitt@maxxam.ca		

Name of owner/approval holder	Peace River Air Monitoring Program		
Contact name	Mike Bisaga / Lily Lin		
Title	Technical Program Managers		
Phone number	(780) 266-7068 / (587) 225-2248		
Email address	pramptech@prampairshed.ca		





### 2.0 Site Description

Land use by sector	North: Homestead		
(use 90° as a sector)	East: Agricultural		
	South: Agricultural		
	West: Agricultural		
Site elevation (above sea level (m))	610 m		
Angle of elevation to nearby	1. Greatest angle: not applicable		
buildings	2. Building direction: not applicable		
Average building height in the area (m)	No buildings present in immediate area		
Air flow restrictions (yes/no)	North: Yes	South: No	
	East: No	West: No	
Distance to nearest Obstruction (m)	~12 m (wind system) ~15 m (sample inlet)		
Description of Obstruction	Trees, ~ 10 m in height		
Angle of Elevation (wind system)	0°		
Angle of Elevation (manifold)	<b>22</b> °		
Manifold	1. Type: Stainless Steel / Glass		
	2. Distance from supporting structure: 1 m		
	3. Total Height: 4 m		
Meteorological Tower	1. Type: Aluma Tower		
(Wind System)	2. Distance from Supporting structure: 7 m		
	3. Total Height: 10 m		
	4. Position: Northwest end of station		

Notes:

Other meteorological instruments are mounted on or near the wind tower at approximately roof height (3 m)





### 3.0 Instruments

#### Station Name: Three Creeks #986b

Instrument Type	Owner	Make	Model	Serial No.	Sampling Height (m)	Date Installed
Sulphur dioxide	Maxxam	Thermo	43C	43C-62339-335	4	October 14, 2015
Methane / Non-methane hydrocarbons	Maxxam	Thermo	55i	1022143392	4	October 14, 2015
Total reduced sulphur	Maxxam	Thermo	43i-TLE	1152940011	4	March 7, 2017
TRS Converter	Maxxam	CD Nova	CDN-101	516	n/a	October 14, 2015
Intermittent VOCs	AITF / Maxxam	Suma	6 L Canister	n/a	4	n/a
Wind speed/direction	Maxxam	RM Young	05305VK	129612	10	February 15, 2017
Temperature/RH	Maxxam	RM Young	43172VC	s/n	3	October 14, 2015
Barometric Pressure	Maxxam	Met One	090D	3845	3	October 14, 2015
Data logger	Maxxam	ESC	8832	A4079K	n/a	March 18, 2010

#### Notes:

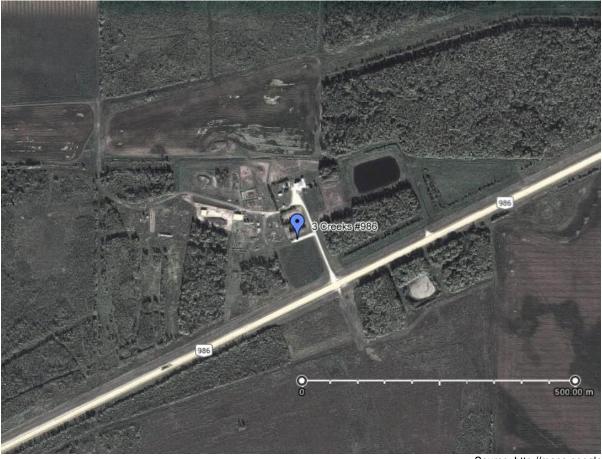
VOCs are sampled intermittently. 1-hour samples are triggered based on 5-min average NMHC threshold.





### 4.0 **Continuous Stations**

### 4.1 Area Map

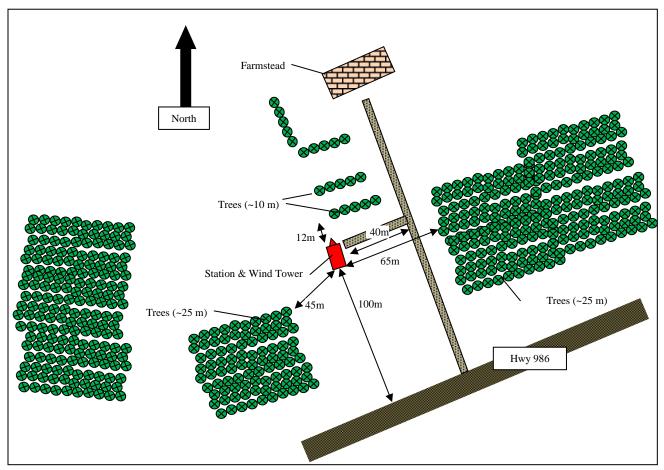


Source: http://maps.google.com Retrieved: Sept 2016





### 4.2 Plan View Sketch



Notes: Unless otherwise marked, land use is agricultural





### 4.3 **Photographs for Continuous Stations**

Colour pictures looking from the instrument/manifold:

#### North:



#### East:





### South:





#### West:







Colour picture of the structure housing the instruments from the door side / showing the details of the sampling inlet in relation to the station.



Additional photo showing obstructing trees to North Side of Station







## 5.0 Network Stations

### 5.1 Network Area Map

See Appendix 1





### 5.2 Wind Rose

