Environment and Protected Areas
Resource Stewardship Division
Airshed & Watershed Stewardship
Air Monitoring
4946 – 89 street
Edmonton, Alberta
T6E 5K1
Telephone: 780.427.7888
http://aep.alberta.ca/

June 2, 2025 File Numbers: 2025 - 055A – 073A

Karla Reesor
Executive Director
Peace River Air Monitoring Project

Subject: Ambient Air Audit / Closure Letter Peace River Area Monitoring Program (PRAMP)

Alberta Environment and Protected Areas (AEPA) conducted audits of the PRAMP airshed network May 21-23, 2025. Here is a summary of the findings as noted.

All stations were found to be meet all audit criteria for Sulphur's, Hydrocarbons, Oxide of Nitrogen, PM2.5 Continuous Particulate Monitoring and wind monitoring. All documentation was available for review which included monthly calibration records, station documentation, network documentation and PRAMP's QAP.

All stations with Grimshaw being the exception, met AEPA tolerances for wind, ambient and station temperature, relative humidity, barometric pressure and precipitation. The ambient temperature sensor was outside the tolerances used by AEPA of +/- 1º C at Grimshaw. This was corrected after the completion of the audit by the contractor. This is considered an opportunity for improvement.

AEPA is satisfied that the Pramp airshed at the time of the network site audits is operating as per the AMD and considers this audit closed. If you have any concerns or comments do not hesitate to contact the undersigned.

Yours truly,

Al Clark
Monitoring Systems Auditor

Environment and Protected Areas
Resource Stewardship Division
Airshed & Watershed Stewardship Branch
Air Monitoring
4946 – 89 street
Edmonton, Alberta T6E 5K1
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Cc: Marty Collins (EPA)
Mike Bisaga (PRAMP)
Lily Lin (PRAMP)
Air.Reporting@gov.ab.ca
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Audit Summary

Facility / Zone	Peace River Area Monitoring Program (PRAMP)
Total # of parameters that passed	19
Total # of parameters audited in the network	19
Date(s) of the audit	May 21-23, 2025
Issue Date of Audit Summary	June 2, 2025

Station Name	Grimshaw AQHI		
Auditor	Al Clark		
Audit Date	May 21, 2025		
Critical	**Pass**	**Fail**	
H_2S			
SO_2	X		
TRS	X		
NO / NO_2 / NO_X	X		
O_3	X		
CO			
THC			
NMHC	X		
NH_3			
Sharp / T640 $PM_{2.5}$	X		
TEOM/BAM PM_{10}			
Wind Speed / Wind Direction	X		
Wind head Orientation	X		
Manifold Fan	X		
Precipitation Sampler			
Partisol $PM_{2.5}$			
Partisol PM_{10}			
Partisol TSP			
Zero/Span Systems Operational	X		

Inspection Items	**OK**	**Need for Improvement**	
Sample pump venting/scrubbing	X		
Heating / Air Conditioning	X		
Manifold	X		
Sample Lines	X		
Sharp / T640 $PM_{2.5}$	X		
TEOM/BAM PM_{10}			
Partisol $PM_{2.5}$			
Partisol PM_{10}			
Partisol TSP			
Safety	X		
Site Conditions	X		

Non-critical	**OK**	**Opportunity for Improvement**	
RH	X		
Station Temperature	X		
Ambient Temperature		X	+/- 1˚C
Solar Radiation			
Barometric Pressure	X		
Tipping bucket	X		
TEOM 'Pump On' test			
Station Condition	X		
Station Documentation	X		

Not monitored at this location

Audit Summary

Facility / Zone	Peace River Area Monitoring Program (PRAMP)
Total # of parameters that passed	19
Total # of parameters audited in the network	19
Date(s) of the audit	May 21-23, 2025
Issue Date of Audit Summary	June 2, 2025

Station Name	986 C		
Auditor	Al Clark		
Audit Date	May 21, 2025		
Critical	**Pass**	**Fail**	
H_2S			
SO_2	X		
TRS	X		
NO / NO_2 / NO_X			
O_3			
CO			
THC			
NMHC	X		
NH_3			
Sharp / T640 $PM_{2.5}$			
TEOM/BAM PM_{10}			
Wind Speed / Wind Direction	X		
Wind head Orientation	X		
Manifold Fan	X		
Precipitation Sampler			
Partisol $PM_{2.5}$			
Partisol PM_{10}			
Partisol TSP			
Zero/Span Systems Operational	X		

Inspection Items	**OK**	**Need for Improvement**	
Sample pump venting/scrubbing	X		
Heating / Air Conditioning	X		
Manifold	X		
Sample Lines	X		
Sharp / T640 $PM_{2.5}$			
TEOM/BAM PM_{10}			
Partisol $PM_{2.5}$			
Partisol PM_{10}			
Partisol TSP			
Safety	X		
Site Conditions	X		

Non-critical	**OK**	**Opportunity for Improvement**	
RH	X		
Station Temperature	X		
Ambient Temperature	X		
Solar Radiation			
Barometric Pressure	X		
Tipping bucket	X		
TEOM 'Pump On' test			
Station Condition	X		
Station Documentation	X		

Not monitored at this location

Audit Summary

Facility / Zone	Peace River Area Monitoring Program (PRAMP)
Total # of parameters that passed	19
Total # of parameters audited in the network	19
Date(s) of the audit	May 21-23, 2025
Issue Date of Audit Summary	June 2, 2025

Station Name	Peace River Complex		
Auditor	Al Clark		
Audit Date	May 22, 2025		
Critical	**Pass**	**Fail**	
H_2S	X		
SO_2	X		
TRS	X		
NO / NO_2 / NO_X			
O_3			
CO			
THC			
NMHC	X		
NH_3			
Sharp / T640 $PM_{2.5}$			
TEOM/BAM PM_{10}			
Wind Speed / Wind Direction	X		
Wind head Orientation	X		
Manifold Fan	X		
Precipitation Sampler			
Partisol $PM_{2.5}$			
Partisol PM_{10}			
Partisol TSP			
Zero/Span Systems Operational	X		
Inspection Items	**OK**	**Need for Improvement**	
Sample pump venting/scrubbing	X		
Heating / Air Conditioning	X		
Manifold	X		
Sample Lines	X		
Sharp / T640 $PM_{2.5}$			
TEOM/BAM PM_{10}			
Partisol $PM_{2.5}$			
Partisol PM_{10}			
Partisol TSP			
Safety	X		
Site Conditions	X		
Non-critical	**OK**	**Opportunity for Improvement**	
RH	X		
Station Temperature	X		
Ambient Temperature	X		
Solar Radiation			
Barometric Pressure	X		
Tipping bucket			
TEOM 'Pump On' test			
Station Condition	X		
Station Documentation	X		

Not monitored at this location

Audit Summary

Facility / Zone	Peace River Area Monitoring Program (PRAMP)
Total # of parameters that passed	19
Total # of parameters audited in the network	19
Date(s) of the audit	May 21-23, 2025
Issue Date of Audit Summary	June 2, 2025

Station Name	842 B		
Auditor	Al Clark		
Audit Date	May 22, 2025		
Critical	**Pass**	**Fail**	
H_2S			
SO_2	X		
TRS	X		
NO / NO_2 / NO_X			
O_3			
CO			
THC			
NMHC	X		
NH_3			
Sharp / T640 $PM_{2.5}$			
TEOM/BAM PM_{10}			
Wind Speed / Wind Direction	X		
Wind head Orientation	X		
Manifold Fan	X		
Precipitation Sampler			
Partisol $PM_{2.5}$			
Partisol PM_{10}			
Partisol TSP			
Zero/Span Systems Operational	X		

Inspection Items	**OK**	**Need for Improvement**	
Sample pump venting/scrubbing	X		
Heating / Air Conditioning	X		
Manifold	X		
Sample Lines	X		
Sharp / T640 $PM_{2.5}$			
TEOM/BAM PM_{10}			
Partisol $PM_{2.5}$			
Partisol PM_{10}			
Partisol TSP			
Safety	X		
Site Conditions	X		

Non-critical	**OK**	**Opportunity for Improvement**	
RH	X		
Station Temperature	X		
Ambient Temperature	X		
Solar Radiation			
Barometric Pressure	X		
Tipping bucket	X		
TEOM 'Pump On' test			
Station Condition	X		
Station Documentation	X		

Not monitored at this location

Audit Summary

Facility / Zone	Peace River Area Monitoring Program (PRAMP)
Total # of parameters that passed	19
Total # of parameters audited in the network	19
Date(s) of the audit	May 21-23, 2025
Issue Date of Audit Summary	June 2, 2025

Station Name	Reno		
Auditor	Al Clark		
Audit Date	May 23, 2025		
Critical	**Pass**	**Fail**	
H_2S			
SO_2	X		
TRS	X		
NO / NO_2 / NO_X			
O_3			
CO			
THC			
NMHC	X		
NH_3			
Sharp / T640 $PM_{2.5}$			
TEOM/BAM PM_{10}			
Wind Speed / Wind Direction	X		
Wind head Orientation	X		
Manifold Fan	X		
Precipitation Sampler			
Partisol $PM_{2.5}$			
Partisol PM_{10}			
Partisol TSP			
Zero/Span Systems Operational	X		

Inspection Items	**OK**	**Need for Improvement**	
Sample pump venting/scrubbing	X		
Heating / Air Conditioning	X		
Manifold	X		
Sample Lines	X		
Sharp / T640 $PM_{2.5}$			
TEOM/BAM PM_{10}			
Partisol $PM_{2.5}$			
Partisol PM_{10}			
Partisol TSP			
Safety	X		
Site Conditions	X		

Non-critical	**OK**	**Opportunity for Improvement**	
RH	X		
Station Temperature	X		
Ambient Temperature	X		
Solar Radiation			
Barometric Pressure	X		
Tipping bucket	X		
TEOM 'Pump On' test			
Station Condition	X		
Station Documentation	X		

Not monitored at this location

STATION AUDIT

File No. 2025 - 061A-064A

Date: May 21, 2025 Performed by: Al Clark

Station

Name: 986 Location: 986 C

Facility/Zone: PRAMP Operator: Bureau Veritas

Temp. 24.4 C Barometric Press. 707 mmHg

Location

Latitude N	56° 22' 11.0"
Longitude W	116° 55' 29.7"
Elevation	609 m
Status of Site Documentation	OK
Status of Network Documentation	OK
Status of QAP	OK

Magnetic Declination
15° 37' E

Manifold Material	Glass
Manifold Condition	Good

Meteorological

	Observed	Audit Value
Wind Speed Direction	12 kph / 231 degrees	10-15 kph / WSW
Station Temperature	24.1 C	23.8 C
Relative Humidity	22.9 %	.21.4 %
Ambient Temperature	18.7 C	19.3 C
Barometric Pressure	(942 mb) 707mmHg	707 mmHg
Precipitation	10 tips @ 0.1ml/tip	1.0 ml

Remarks:

Alberta Government

SO_2 ANALYZER AUDIT

File No. 2025 - 061A

Date: May 21, 2025 Performed by: Al Clark

Station

Name: 986 Location: Peace River

Facility/Zone: PRAMP Operator: Bureau Veritas

Temp. 24.4 C Barometric Press. 707 mmHg

Monitor

Make/Model: Thermo 43iQ Serial No: 1193585646

Inlet flow (sccm): 431 Full Scale Range ppm: 0.5

Last cal. Date: May 8, 2025 Old Correction Factor: 1.000

Zero/Bkg 22.7

Span Coef 1.079

Calibrator

Calibration Method: GAS DILUTION Make/Model: Sabio 2010

Cylinder # : T1XY16R AMU # : 2092

CGA Date: October 2025 SO_2 Concentration PPM: 50.48

Calibrator Flow (sccm)			Calculated Conc. (ppm)	Indicated Concentration (ppm)	% Difference	
Air	Gas	Total			vs Audit Gas	Limits
4883	0.0	4883	0.000	0.000		
4857	39.5	4896	0.407	0.426	5%	± 10%
4878	20.2	4898	0.208	0.216	4%	± 10%
4908	10.5	4918	0.108	0.114	6%	± 10%
				Absolute Average Percent Difference	5%	

Linear Regression Analysis:

y=mx+b (where x=calculated concentration, y=indicated concentration)

		LIMITS
Correlation Coeff.=	1.0000	**≥ 0.995**
m (Slope)=	1.0440	**0.90-1.10**
b (Intercept as % of full scale)=	0.0561	**± 3% F.S.**

Remarks:

Range on analyzer set to 50.0ppb, changed after audit.

Alberta Government

TRS ANALYZER AUDIT

File No. 2025 - 062A

Date: May 21, 2025 Performed by: Al Clark

Station

Name: 986 Location: Peace River

Facility/Zone: PRAMP Operator: Bureau Veritas

Temp. 24.4 C Barometric Press. 707 mmHg

Monitor

Make/Model: Thermo 43i TLE Serial No: 1152940011

Inlet flow (sccm): 476 Full Scale Range ppm: 0.1

Last cal. Date: May 15, 2025 Old Correction Factor: 0.998

Zero/Bkg 1.89

Span Coef 1.104

Calibrator

Calibration Method: GAS DILUTION Make/Model: Sabio 2010

Cylinder # : T3CH4GL AMU # : 2092

CGA Date: October 2024 H_2S Concentration PPM: 10.14

Calibrator Flow (sccm)			Calculated Conc. (ppm)	Indicated Concentration (ppm)	% Difference	
Air	Gas	Total			vs Audit Gas	Limits
4883	0.0	4883	0.0000	0.0000		
4856	40.4	4896	0.0837	0.0814	-3%	± 10%
4878	20.1	4898	0.0416	0.0409	-2%	± 10%
4908	9.9	4918	0.0204	0.0202	-1%	± 10%
				Absolute Average Percent Difference	2%	

Linear Regression Analysis:

y=mx+b (where x=calculated concentration, y=indicated concentration)

		LIMITS
Correlation Coeff.=	1.0000	**≥ 0.995**
m (Slope)=	0.9720	**0.90-1.10**
b (Intercept as % of full scale)=	0.2214	**± 3% F.S.**

Remarks:

Range on analyzer set to 500 ppb, adjusted after the audit.

Non Methane Analyzer Audit

File No. 2025 - 063

Date: May 21, 2025 Performed by: Al Clark

Station:

Name: 986 Location: 986 C Operator: Bureau Veritas

Facility/Zone: PRAMP Temp. 25.2 C BP: 707 mmHg

Monitor:

Make/Model: Thermo 55i Serial No. 1191032505

Inlet flow (sccm): na CH_4 Range ppm: 20.0

Last cal. Date: May 8, 2025 Non CH_4 Range ppm: 20.0

THC Range ppm: 40.0

Old Correction Factor: CH_4: 1.004

Non CH_4: 0.998

THC: 1.001

Calibration Method: Gas Dilution

Calibrator: Make/Model Sabio 2010 AMU# 2270

HC cylinder # T30Y8NP CH_4 conc. (ppm) 994.5 CH_4 Equiv (C_3H_8 only) (ppm) 827.2

CGA Date October 2024 C_3H_8 conc. (ppm) 300.8 Total CH_4 Equiv. (ppm) 1821.7

Calibrator Flows			Calc. Conc.			Indicated Concentration			% Difference vs Audit Gas		
									Limit ± 10%		
Air	Gas	Total	CH_4 (ppm)	Non CH_4 (ppm)	THC (ppm)	CH_4 (ppm)	Non CH_4 (ppm)	THC (ppm)	CH_4	Non CH_4	THC
4866	0.0	4866	0.00	0.00	0.00	0.00	0.00	0.00			
4800	78.7	4879	16.04	13.34	29.38	16.08	13.12	29.19	0%	-2%	-1%
4846	39.5	4885	8.04	6.69	14.73	8.00	6.52	14.53	-1%	-3%	-1%
4878	19.6	4898	3.98	3.31	7.29	3.95	3.24	7.19	-1%	-2%	-1%
								Absolute Average Percent Difference	0%	2%	1%

Linear Regression Analysis: *y=mx+b (where x=calculated concentration, y=indicated concentration)*

	CH_4	Non CH_4	THC	LIMITS
Correlation Coeff.=	1.0000	1.0000	1.0000	**≥ 0.995**
m (Slope)=	1.0028	0.9832	0.9936	**0.90-1.10**
b (Intercept as % of FS)=	-0.1389	-0.0863	-0.1027	**± 3% F.S.**

Remarks:

Station Performance Audit Summary

Company: PRAMP Facility Name: 986 C

Approval No.: N/A Site Name: 986

Region: Upper Peace River District: Peace River

Parameters audited:

TRS	**X**	SO_2	**X**	NO_x		NH_3	
CO		CH_4	**X**	$NonCH_4$	**X**	THC	**X**
PM2.5		PM10		TSP		W. Speed	**X**
W. Direction	**X**	AmbTmp	**X**	Stn. Temp	**X**	RH	**X**
O_3		Ethylene		BTEX		BP	**X**
Rainfall	**X**	Precip		VWS		Other	
All parameters monitored as per approva		Yes / No		N/A		**X**	

	YES	NO	N/A
GENERAL			
Has the location remained unchanged from previous audit?	**X**		
Is site secure?	**X**		
Are station operating conditions adequate?	**X**		
DATA ACQUISITION			
Are strip charts in use?		**X**	
Is a telemetry system for data acquisition in use?	**X**		
SYSTEM COMPONENTS			
Is a glass sampling manifold installed?	**X**		
Is sampling manifold clean?	**X**		
Is a manifold trap in place?	**X**		
Are spare manifold ports capped	**X**		
Is manifold oriented so it is not exactly horizontal?	**X**		
Are manifold ports situated to prevent water entering monitors?	**X**		
Is manifold pump properly installed and operative?	**X**		
Do sample lines extend at least 3/4"into manifold?	**X**		
Are monitor sampling lines connected to manifold?	**X**		
Are sampling lines clean?	**X**		
Are monitors properly mounted and secure?	**X**		
Are monitors properly exhausted from room or scrubbed?	**X**		
Are zero and span systems operational?	**X**		
WIND EQUIPMENT			
Is wind sensor properly oriented?	**X**		
Does wind equipment appear to be functioning properly?	**X**		
Date of last calibration. Date: August 2024			

COMMENTS: Manifold dirty at elbow and trap

AUDITOR: Al Clark DATE: May 21, 2025

Station Site Documents Audit Checklist

Station

Name: 986 Location: 986 C

Facility/Zone: PRAMP Operator: Bureau Veritas

Required Elements of AMD Chapter 3 *SS 4-B*

Do the Site Documents Contain the Following:

	Meets AMD		NA	Current	
	YES	NO		YES	NO
(a) Name of Owner/ Approval Holder	X				
(b) Name of Operating Agency	X				
(c) Contact Information	X				
(d) Date the Site or Station was Established	X				
(e) Date the information was last updated	X				
(f) Location including Latitude and Longitude	X				
(g) Four Colour Photos Looking N, E, S, W From Manifold Inlet	X				
(h) Additional Photos/Sketches of AMD Standard Site Non-Conformance			X		
(i) List of Instruments Located at the Site	X				
(j) Site Description Including the following:					
(i) Land Use By Sector	X				
(ii) Site Elevation	X				
(iii) Greatest Angle of Elevation & Direction to Nearby Buildings		X			
(iv) Average Building height in the area		X			
(v) Distance to Nearest Trees	X				

Required Elements of AMD Chapter 3 *SS 4-D*

Do the Station Site Documents Contain the Following:

	Meets AMD		NA	Current	
	YES	NO		YES	NO
(a) Recent Area Map Covering Approximately 1Km^2	X				
(b) Plan View Sketch	X				
(c) Cross-Sectional Sketch of Area Within 500 m Radius		X			
(d) Colour Photos Showing Sample Manifold/Inlet		X			
(e) Colour Photo of the Station	X				
(f) Additional Photos/Sketches of AMD Standard Station Non-Conformance			X		

COMMENTS:

AUDITOR: Al Clark DATE: May 29, 2025

Alberta Government

Network Site Documents Audit Checklist

Network

Name: 986 Location: 986 C

Facility/Zone: PRAMP Operator: Bureau Veritas

Required Elements of AMD Chapter 3 *SS 4-C*

Do the Network Site Documents Contain the Following:

	Meets AMD YES	Meets AMD NO	NA	Current YES	Current NO
(a) A Recent Area Map Showing the Following:					
(i) Station Locations	X				
(ii) Roadways	X				
(iii) Railway Lines		X			
(iv) Airports		X			
(v) Lakes	X				
(vi) Rivers	X				
(vii) Human Settlements	X				
(viii) Locations of Identified Industrial & Non-Industrial Pollutant Sources	X				
(ix) Other Significant Landmarks			X		
(b) A windrose for each Continuous Ambient Air Monitoring Station	X				

COMMENTS: _____

AUDITOR: Al Clark DATE: May 29, 2025

Station Checklist

Station

Name: 986 Location: 986 C

Facility/Zone: PRAMP Operator: Bureau Veritas

	Yes	No	N/A
Are all Particulate Sampler Heads put back in the correct			X
Has the existing or new TEOM filter been installed?			X
Has the flow bypass line on Teom Been reinstalled?			X
Has the Sharp Filter Tape been installed back on spool?			X
Has the BAM sampler been put back into the sample mode?			X
Have all intermittent particulate samplers been returned to an as found condition?			X
Have all sample lines been reconnected as found?	X		
Have all parameters that were marked down on the DAS been marked up?	X		
Are all ambient gas analyzers back in sample mode?	X		
Is everything left as it was at the start of the audit?	X		
Is the station properly secured upon departure?	X		

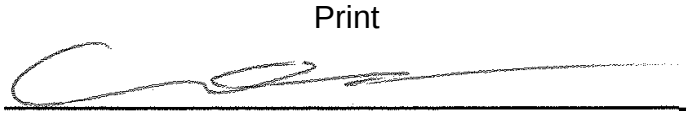
Auditor: Al Clark Date: May 21, 2025

Print

Signature

Operator: Chris Wesson Date: May 21, 2025

Print



Signature

Alberta Government

STATION AUDIT

File No. 2025 - 068A - 070A

Date: May 22, 2025 Performed by: Al Clark

Station

Name: 842 Location: Peace River

Facility/Zone: PRAMP Operator: Bureau Veritas

Temp: 23.6 C Barometric Press: 706 mmHg

Location

Latitude N	56° 16' 27.6"
Longitude W	116° 58' 53.2"
Elevation	623m
Status of Site Documentation	OK
Status of Network Documentation	OK
Status of QAP	OK

Magnetic Declination: 15^0 37' E

Manifold Material	Glass
Manifold Condition	Good

Meteorological

	Observed	Audit Value
Wind Speed Direction	22.3 kph / 202 degrees	20-25 kph / SW
Station Temperature	22.4 C	22.2 C
Relative Humidity	21.7 %	22.6 %
Ambient Temperature	16.9 C	16.8 C
Barometric Pressure	(940 mb) 706 mmHg	706 mmHg
Precipitation	10 tip @0.1 ml/tip	1.0 ml

Remarks:

Alberta Government

SO_2 ANALYZER AUDIT

File No. 2025 - 068A

Date: May 22, 2025 Performed by: Al Clark

Station

Name: 842 Location: Peace River

Facility/Zone: PRAMP Operator: Bureau Veritas

Temp: 23.6 C Barometric Press: 706 mmHg

Monitor

Make/Model: Thermo 43iQ Serial No: 1200736629

Inlet flow (sccm): 425 Full Scale Range ppm: 0.5

Last cal. Date: May 14, 2025 Old Correction Factor: 1.004

Zero/Bkg 9.6

Span Coef 1.133

Calibrator

Calibration Method: GAS DILUTION Make/Model: Sabio 2010

Cylinder # : T1XY16R AMU # : 2092

CGA Date: October 2024 SO_2 Concentration PPM: 50.48

Calibrator Flow (sccm)			Calculated Conc. (ppm)	Indicated Concentration (ppm)	% Difference	
Air	Gas	Total			vs Audit Gas	Limits
4903	0.0	4903	0.000	0.000		
4889	39.5	4928	0.405	0.414	2%	± 10%
4908	20.0	4928	0.205	0.212	3%	± 10%
4943	10.5	4953	0.107	0.110	3%	± 10%
				Absolute Average Percent Difference	3%	

Linear Regression Analysis:

y=mx+b (where x=calculated concentration, y=indicated concentration)

		LIMITS
Correlation Coeff.=	1.0000	**≥ 0.995**
m (Slope)=	1.0235	**0.90-1.10**
b (Intercept as % of full scale)=	0.1342	**± 3% F.S.**

Remarks:

Alberta Government

TRS ANALYZER AUDIT

File No. 2025 - 069A

Date: May 22, 2025 Performed by: Al Clark

Station

Name: 842 Location: Peace River

Facility/Zone: PRAMP Operator: Bureau Veritas

Temp: 23.6 C Barometric Press: 706 mmHg

Monitor

Make/Model: Thermo 433iQ Serial No: 1200736630

Inlet flow (sccm): 376 Full Scale Range ppm: 0.1

Last cal. Date: May 14, 2025 Old Correction Factor: 1.004

Zero/Bkg 15.8

Span Coef 0.924

Calibrator

Calibration Method: GAS DILUTION Make/Model: Sabio 2010

Cylinder # : T3CH4GL AMU # : 2092

CGA Date: October 2024 H_2S Concentration PPM: 10.14

Calibrator Flow (sccm)			Calculated Conc. (ppm)	Indicated Concentration (ppm)	% Difference	
Air	Gas	Total			vs Audit Gas	Limits
4902	0.0	4902	0.0000	0.0001		
4888	40.3	4928	0.0829	0.0805	-3%	± 10%
4908	20.2	4928	0.0416	0.0409	-2%	± 10%
4943	10.0	4953	0.0205	0.0202	-2%	± 10%
				Absolute Average Percent Difference	2%	

Linear Regression Analysis:

y=mx+b (where x=calculated concentration, y=indicated concentration)

		LIMITS
Correlation Coeff.=	1.0000	**≥ 0.995**
m (Slope)=	0.9692	**0.90-1.10**
b (Intercept as % of full scale)=	0.3000	**± 3% F.S.**

Remarks:

Non Methane Analyzer Audit

File No. 2025 - 070A

Date: May 22, 2025 Performed by: Al Clark

Station:

Name: 842 Location: Peace River Operator: Bureau Veritas

Facility/Zone: PRAMP Temp. 23.7 C BP: 706 mmHg

Monitor:

Make/Model: Thermo 55i Serial No. 12208316589

Inlet flow (sccm): N/A CH_4 Range ppm: 20.0

Last cal. Date: May 14, 2025 Non CH_4 Range ppm: 20.0

THC Range ppm: 40.0

Old Correction Factor: CH_4: 1.001

Non CH_4: 0.998

THC: 1.000

Calibration Method: Gas Dilution

Calibrator: Make/Model Sabio 2010 AMU# 2092

HC cylinder # T30Y8NP CH_4 conc. (ppm) 994.5 CH_4 Equiv (C_3H_8 only) (ppm) 827.2

CGA Date October 2024 C_3H_8 conc. (ppm) 300.8 Total CH_4 Equiv. (ppm) 1821.7

Calibrator Flows			Calc. Conc.			Indicated Concentration			% Difference vs Audit Gas		
									Limit ± 10%		
Air	Gas	Total	CH_4 (ppm)	Non CH_4 (ppm)	THC (ppm)	CH_4 (ppm)	Non CH_4 (ppm)	THC (ppm)	CH_4	Non CH_4	THC
4885	0.0	4885	0.00	0.00	0.00	0.00	0.00	0.00			
4827	78.8	4906	15.97	13.29	29.26	16.00	12.92	28.88	0%	-3%	-1%
4882	39.4	4921	7.96	6.62	14.59	7.99	6.42	14.40	0%	-3%	-1%
4923	19.6	4943	3.94	3.28	7.22	3.99	3.18	7.16	1%	-3%	-1%
								Absolute Average Percent Difference	1%	3%	1%

Linear Regression Analysis: *y=mx+b (where x=calculated concentration, y=indicated concentration)*

	CH_4	Non CH_4	THC	LIMITS
Correlation Coeff.=	1.0000	1.0000	1.0000	**≥ 0.995**
m (Slope)=	1.0009	0.9725	0.9867	**0.90-1.10**
b (Intercept as % of FS)=	0.0948	-0.0395	0.0325	**± 3% F.S.**

Remarks:

Station Performance Audit Summary

Company: PRAMP Facility Name: 842

Approval No.: N/A Site Name: 842

Region: Upper Peace River District: Peace River

Parameters audited:

TRS	**X**	SO_2	**X**	NO_x		NH_3	
CO		CH_4	**X**	$NonCH_4$	**X**	THC	**X**
PM2.5		PM10		TSP		W. Speed	**X**
W. Direction	**X**	Amb Tmp	**X**	Stn. Temp	**X**	RH	**X**
O_3		Ethylene		BTEX		BP	**X**
Rainfall	**X**	Precip		VWS		Other	
All parameters monitored as per approva		Yes / No		N/A		**X**	

	YES	NO	N/A
GENERAL			
Has the location remained unchanged from previous audit?	**X**		
Is site secure?	**X**		
Are station operating conditions adequate?	**X**		
DATA ACQUISITION			
Are strip charts in use?		**X**	
Is a telemetry system for data acquisition in use?	**X**		
SYSTEM COMPONENTS			
Is a glass sampling manifold installed?	**X**		
Is sampling manifold clean?	**X**		
Is a manifold trap in place?	**X**		
Are spare manifold ports capped	**X**		
Is manifold oriented so it is not exactly horizontal?	**X**		
Are manifold ports situated to prevent water entering monitors?	**X**		
Is manifold pump properly installed and operative?	**X**		
Do sample lines extend at least 3/4"into manifold?	**X**		
Are monitor sampling lines connected to manifold?	**X**		
Are sampling lines clean?	**X**		
Are monitors properly mounted and secure?	**X**		
Are monitors properly exhausted from room or scrubbed?	**X**		
Are zero and span systems operational?	**X**		
WIND EQUIPMENT			
Is wind sensor properly oriented?	**X**		
Does wind equipment appear to be functioning properly?	**X**		
Date of last calibration. Date: August 2024			

COMMENTS: _____

AUDITOR: Al Clark DATE: May 22, 2025

Station Site Documents Audit Checklist

Station

Name: 842 Location: Peace River

Facility/Zone: PRAMP Operator: Bureau Veritas

Required Elements of AMD Chapter 3 *SS 4-B*

Do the Site Documents Contain the Following:

	Meets AMD		NA	Current	
	YES	NO		YES	NO
(a) Name of Owner/ Approval Holder	X				
(b) Name of Operating Agency	X				
(c) Contact Information	X				
(d) Date the Site or Station was Established	X				
(e) Date the information was last updated	X				
(f) Location including Latitude and Longitude	X				
(g) Four Colour Photos Looking N, E, S, W From Manifold Inlet	X				
(h) Additional Photos/Sketches of AMD Standard Site Non-Conformance			X		
(i) List of Instruments Located at the Site	X				
(j) Site Description Including the following:					
(i) Land Use By Sector	X				
(ii) Site Elevation	X				
(iii) Greatest Angle of Elevation & Direction to Nearby Buildings			X		
(iv) Average Building height in the area			X		
(v) Distance to Nearest Trees	X				

Required Elements of AMD Chapter 3 *SS 4-D*

Do the Station Site Documents Contain the Following:

	Meets AMD		NA	Current	
	YES	NO		YES	NO
(a) Recent Area Map Covering Approximately 1Km^2	X				
(b) Plan View Sketch	X				
(c) Cross-Sectional Sketch of Area Within 500 m Radius	X				
(d) Colour Photos Showing Sample Manifold/Inlet	X				
(e) Colour Photo of the Station	X				
(f) Additional Photos/Sketches of AMD Standard Station Non-Conformance			X		

COMMENTS:

AUDITOR: Al Clark DATE: May 29, 2025

Alberta Government

Network Site Documents Audit Checklist

Network

Name: 842 Location: Peace River

Facility/Zone: PRAMP Operator: Bureau Veritas

Required Elements of AMD Chapter 3 *SS 4-C*

Do the Network Site Documents Contain the Following:

	Meets AMD YES	Meets AMD NO	NA	Current YES	Current NO
(a) A Recent Area Map Showing the Following:					
(i) Station Locations	X				
(ii) Roadways	X				
(iii) Railway Lines		X			
(iv) Airports		X			
(v) Lakes	X				
(vi) Rivers	X				
(vii) Human Settlements	X				
(viii) Locations of Identified Industrial & Non-Industrial Pollutant Sources	X				
(ix) Other Significant Landmarks			X		
(b) A windrose for each Continuous Ambient Air Monitoring Station	X				

COMMENTS: _____

AUDITOR: Al Clark DATE: May 29, 2025

Alberta Government

Station Checklist

Station

Name: 842 Location: Peace River

Facility/Zone: PRAMP Operator: Bureau Veritas

	Yes	No	N/A
Are all Particulate Sampler Heads put back in the correct			X
Has the existing or new TEOM filter been installed?			X
Has the flow bypass line on Teom Been reinstalled?			X
Has the Sharp Filter Tape been installed back on spool?			X
Has the BAM sampler been put back into the sample mode?			X
Have all intermittent particulate samplers been returned to an as found condition?			X
Have all sample lines been reconnected as found?	X		
Have all parameters that were marked down on the DAS been marked up?	X		
Are all ambient gas analyzers back in sample mode?	X		
Is everything left as it was at the start of the audit?	X		
Is the station properly secured upon departure?	X		

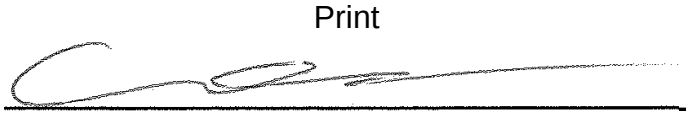
Auditor: Al Clark Date: May 22, 2025

Print

Signature

Operator: Chris Wesson Date: May 22, 2025

Print



Signature

Alberta Government

STATION AUDIT

File No. 2025 -071A - 073A

Date: May 23, 2025 Performed by: Al Clark

Station

Name: Reno Location: Reno

Facility/Zone: PRAMP Operator: Bureau Veritas

Temp. 21.0 C Barometric Press. 706 mmHg

Location

Latitude N	55° 53' 26.8"
Longitude W	117° 08' 13.8"
Elevation	634 m
Status of Site Documentation	OK
Status of Network Documentation	OK
Status of QAP	OK

Magnetic Declination
15^0 34' E

Manifold Material	Glass
Manifold Condition	Good

Meteorological

	Observed	Audit Value
Wind Speed Direction	23 kph / 160 degrees	20-25 kph / SE
Station Temperature	22.6 C	21.9 C
Relative Humidity	49.8 %	45.7 %
Ambient Temperature	14.8 C	15.8 C
Barometric Pressure	(940 mb) 706 mmHg	706 mmHg
Precipitation	10 tips @ 0.1 ml/tip	1.0 ml

Remarks:

Alberta Government

SO_2 ANALYZER AUDIT

File No. 2025- 071A

Date: May 23, 2025 Performed by: Al Clark

Station

Name: Reno Location: Reno

Facility/Zone: PRAMP Operator: Bureau Veritas

Temp. 21.0 C Barometric Press. 706 mmHg

Monitor

Make/Model: Thermo 43iQ Serial No: 12101910505

Inlet flow (sccm): 438 Full Scale Range ppm: 0.5

Last cal. Date: May 13, 2025 Old Correction Factor: 0.997

Zero/Bkg 1.43

Span Coef 0.909

Calibrator

Calibration Method: GAS DILUTION Make/Model: Sabio 2010

Cylinder # : T1XY16R AMU # : 2092

CGA Date: October 2024 SO_2 Concentration PPM: 50.48

Calibrator Flow (sccm)			Calculated Conc. (ppm)	Indicated Concentration (ppm)	% Difference	
Air	Gas	Total			vs Audit Gas	Limits
4865	0.0	4865	0.000	0.000		
4862	39.5	4901	0.407	0.413	2%	± 10%
4885	20.2	4905	0.208	0.210	1%	± 10%
4917	10.5	4927	0.108	0.110	2%	± 10%
				Absolute Average Percent Difference	2%	

Linear Regression Analysis:

y=mx+b (where x=calculated concentration, y=indicated concentration)

		LIMITS
Correlation Coeff.=	1.0000	**≥ 0.995**
m (Slope)=	1.0142	**0.90-1.10**
b (Intercept as % of full scale)=	0.0227	**± 3% F.S.**

Remarks:

Alberta Government

TRS ANALYZER AUDIT

File No. 2025 - 072A

Date: May 23, 2025 Performed by: Al Clark

Station

Name: Reno Location: Reno

Facility/Zone: PRAMP Operator: Bureau Veritas

Temp. 21.0 C Barometric Press. 706 mmHg

Monitor

Make/Model: Thermo 43iQ Serial No: 12101910505

Inlet flow (sccm): 385 Full Scale Range ppm: 0.1

Last cal. Date: May 13, 2025 Old Correction Factor: 1.001

Zero/Bkg 1.38

Span Coef 0.945

Calibrator

Calibration Method: GAS DILUTION Make/Model: Sabio 2010

Cylinder # : T3CH4GL AMU # : 2092

CGA Date: October 2024 H_2S Concentration PPM: 10.14

Calibrator Flow (sccm)			Calculated Conc. (ppm)	Indicated Concentration (ppm)	% Difference	
Air	Gas	Total			vs Audit Gas	Limits
4865	0.0	4865	0.0000	-0.0003		
4861	40.3	4901	0.0834	0.0800	-4%	± 10%
4885	20.1	4905	0.0416	0.0401	-3%	± 10%
4917	9.9	4927	0.0204	0.0199	-1%	± 10%
				Absolute Average Percent Difference	2%	

Linear Regression Analysis:

y=mx+b (where x=calculated concentration, y=indicated concentration)

		LIMITS
Correlation Coeff.=	1.0000	**≥ 0.995**
m (Slope)=	0.9612	**0.90-1.10**
b (Intercept as % of full scale)=	0.0088	**± 3% F.S.**

Remarks:

Non Methane Analyzer Audit

File No. 2025 - 073A

Date: May 23, 2025 Performed by: Al Clark

Station:

Name: Reno Location: Reno Operator: Bureau Veritas

Facility/Zone: PRAMP Temp. 22.2 C BP: 706 mmHg

Monitor:

Make/Model: Thermo 55i Serial No. 1501663728

Inlet flow (sccm): N/A CH_4 Range ppm: 20.0

Last cal. Date: May 14, 2025 Non CH_4 Range ppm: 20.0

THC Range ppm: 40.0

Old Correction Factor: CH_4: 0.999

Non CH_4: 1.001

THC: 1.000

Calibration Method: Gas Dilution

Calibrator: Make/Model Sabio 2010 AMU# 2270

HC cylinder # T30Y8NP CH_4 conc. (ppm) 994.5 CH_4 Equiv (C_3H_8 only) (ppm) 827.2

CGA Date October 2024 C_3H_8 conc. (ppm) 300.8 Total CH_4 Equiv. (ppm) 1821.7

Calibrator Flows			Calc. Conc.			Indicated Concentration			% Difference vs Audit Gas		
			CH_4	Non CH_4	THC	CH_4	Non CH_4	THC	Limit ± 10%		
Air	Gas	Total	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	CH_4	Non CH_4	THC
4871	0.0	4871	0.00	0.00	0.00	0.00	0.00	0.00			
4805	78.6	4884	16.00	13.31	29.32	15.25	12.50	27.74	-5%	-6%	-5%
4862	39.1	4901	7.93	6.60	14.53	7.52	6.20	13.72	-5%	-6%	-6%
4892	19.5	4911	3.95	3.28	7.23	3.71	3.06	6.78	-6%	-7%	-6%
								Absolute Average Percent Difference	5%	6%	6%

Linear Regression Analysis: *y=mx+b (where x=calculated concentration, y=indicated concentration)*

	CH_4	**Non CH_4**	**THC**	**LIMITS**
Correlation Coeff.=	1.0000	1.0000	1.0000	**≥ 0.995**
m (Slope)=	0.9537	0.9396	0.9468	**0.90-1.10**
b (Intercept as % of FS)=	-0.1456	-0.0448	-0.0802	**± 3% F.S.**

Remarks:

Station Performance Audit Summary

Company: PRAMP Facility Name: Reno

Approval No.: N/A Site Name: Reno

Region: Upper Peace River District: Peace River

Parameters audited:

TRS	**X**	SO_2	**X**	NO_x		NH_3	
CO		CH_4	**X**	$NonCH_4$	**X**	THC	**X**
PM2.5		PM10		TSP		W. Speed	**X**
W. Direction	**X**	Amb Tmp	**X**	Stn. Temp	**X**	RH	**X**
O_3		Ethylene		BTEX		BP	**X**
Rainfall	**X**	Precip		VWS		Other	
All parameters monitored as per approva		Yes / No		YES	N/A	**X**	

	YES	NO	N/A
GENERAL			
Has the location remained unchanged from previous audit?	**X**		
Is site secure?	**X**		
Are station operating conditions adequate?	**X**		
DATA ACQUISITION			
Are strip charts in use?		**X**	
Is a telemetry system for data acquisition in use?	**X**		
SYSTEM COMPONENTS			
Is a glass sampling manifold installed?	**X**		
Is sampling manifold clean?	**X**		
Is a manifold trap in place?	**X**		
Are spare manifold ports capped	**X**		
Is manifold oriented so it is not exactly horizontal?	**X**		
Are manifold ports situated to prevent water entering monitors?	**X**		
Is manifold pump properly installed and operative?	**X**		
Do sample lines extend at least 3/4"into manifold?	**X**		
Are monitor sampling lines connected to manifold?	**X**		
Are sampling lines clean?	**X**		
Are monitors properly mounted and secure?	**X**		
Are monitors properly exhausted from room or scrubbed?	**X**		
Are zero and span systems operational?	**X**		
WIND EQUIPMENT			
Is wind sensor properly oriented?	**X**		
Does wind equipment appear to be functioning properly?	**X**		
Date of last calibration. Date: August 2024			

COMMENTS: _____

AUDITOR: Al Clark DATE: May 23, 2025

Station Site Documents Audit Checklist

Station

Name: Reno Location: Reno

Facility/Zone: PRAMP Operator: Bureau Veritas

Required Elements of AMD Chapter 3 *SS 4-B*

Do the Site Documents Contain the Following:

	Meets AMD		NA	Current	
	YES	NO		YES	NO
(a) Name of Owner/ Approval Holder	X				
(b) Name of Operating Agency	X				
(c) Contact Information	X				
(d) Date the Site or Station was Established	X				
(e) Date the information was last updated	X				
(f) Location including Latitude and Longitude	X				
(g) Four Colour Photos Looking N, E, S, W From Manifold Inlet	X				
(h) Additional Photos/Sketches of AMD Standard Site Non-Conformance			X		
(i) List of Instruments Located at the Site	X				
(j) Site Description Including the following:					
(i) Land Use By Sector	X				
(ii) Site Elevation	X				
(iii) Greatest Angle of Elevation & Direction to Nearby Buildings	X				
(iv) Average Building height in the area	X				
(v) Distance to Nearest Trees	X				

Required Elements of AMD Chapter 3 *SS 4-D*

Do the Station Site Documents Contain the Following:

	Meets AMD		NA	Current	
	YES	NO		YES	NO
(a) Recent Area Map Covering Approximately 1Km^2	X				
(b) Plan View Sketch	X				
(c) Cross-Sectional Sketch of Area Within 500 m Radius	X				
(d) Colour Photos Showing Sample Manifold/Inlet	X				
(e) Colour Photo of the Station	X				
(f) Additional Photos/Sketches of AMD Standard Station Non-Conformance			X		

COMMENTS:

AUDITOR: Al Clark DATE: May 29, 2025

Alberta Government

Network Site Documents Audit Checklist

Network

Name: Reno Location: Reno

Facility/Zone: PRAMP Operator: Bureau Veritas

Required Elements of AMD Chapter 3 *SS 4-C*

Do the Network Site Documents Contain the Following:

	Meets AMD YES	Meets AMD NO	NA	Current YES	Current NO
(a) A Recent Area Map Showing the Following:					
(i) Station Locations	X				
(ii) Roadways	X				
(iii) Railway Lines		X			
(iv) Airports		X			
(v) Lakes	X				
(vi) Rivers	X				
(vii) Human Settlements	X				
(viii) Locations of Identified Industrial & Non-Industrial Pollutant Sources	X				
(ix) Other Significant Landmarks			X		
(b) A windrose for each Continuous Ambient Air Monitoring Station	X				

COMMENTS: _____

AUDITOR: Al Clark DATE: May 23, 2025

Station Checklist

Station

Name: Reno Location: Reno

Facility/Zone: PRAMP Operator: Bureau Veritas

	Yes	No	N/A
Are all Particulate Sampler Heads put back in the correct			X
Has the existing or new TEOM filter been installed?			X
Has the flow bypass line on Teom Been reinstalled?			X
Has the Sharp Filter Tape been installed back on spool?			X
Has the BAM sampler been put back into the sample mode?			X
Have all intermittent particulate samplers been returned to an as found condition?			X
Have all sample lines been reconnected as found?	X		
Have all parameters that were marked down on the DAS been marked up?	X		
Are all ambient gas analyzers back in sample mode?	X		
Is everything left as it was at the start of the audit?	X		
Is the station properly secured upon departure?	X		

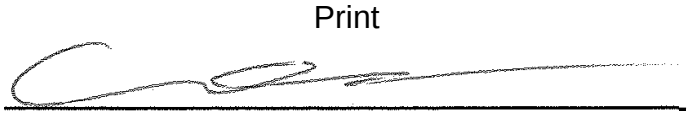
Auditor: Al Clark Date: May 23, 2025

Print

Signature

Operator: Chris Wesson Date: May 23, 2025

Print



Signature

Alberta Government

STATION AUDIT

File No. 2025 - 064A-067A

Date: May 22, 2025 Performed by: Al Clark

Station

Name: Peace River Complex Location: Peace River

Facility/Zone: PRAMP Operator: Bureau Veritas

Temp: 22.8 C Barometric Press: 706 mmHg

Location

Latitude N	56° 22' 57.3"
Longitude W	116° 46' 08.5"
Elevation	630 m
Status of Site Documentation	OK
Status of Network Documentation	OK
Status of QAP	OK

Magnetic Declination: 15° 34' E

Manifold Material	Glass
Manifold Condition	Good

Meteorological

	Observed	Audit Value
Wind Speed Direction	21 kph / 209 degrees	20-25 kph / SW
Station Temperature	24.2 C	24.2 C
Relative Humidity	35.1 %	34.6 %
Ambient Temperature	15.0 C	15.2 C
Barometric Pressure	(943 mb) 707 mmHg	706 mmHg
Precipitation	N/A	N/A

Remarks:

Alberta Government

SO_2 ANALYZER AUDIT

File No. 2025 - 064A

Date: May 22, 2025 Performed by: Al Clark

Station

Name: Peace River Complex Location: Peace River

Facility/Zone: PRAMP Operator: Bureau Veritas

Temp. 22.8 C Barometric Press. 706 mmHg

Monitor

Make/Model: Thermo 43i Serial No: 1034746225

Inlet flow (sccm): 448 Full Scale Range ppm: 0.5

Last cal. Date: May 1, 2025 Old Correction Factor: 0.998

Zero/Bkg 21.0

Span Coef 1.156

Calibrator

Calibration Method: GAS DILUTION Make/Model: Sabio 2010

Cylinder # : T1XY16R AMU # : 2092

CGA Date: October 2024 SO_2 Concentration PPM: 50.48

Calibrator Flow (sccm)			Calculated Conc. (ppm)	Indicated Concentration (ppm)	% Difference	
Air	Gas	Total			vs Audit Gas	Limits
4882	0.0	4882	0.000	0.000		
4868	39.6	4908	0.407	0.417	2%	± 10%
4859	20.2	4879	0.209	0.213	2%	± 10%
4903	10.5	4913	0.108	0.111	3%	± 10%
				Absolute Average Percent Difference	2%	

Linear Regression Analysis:

y=mx+b (where x=calculated concentration, y=indicated concentration)

		LIMITS
Correlation Coeff.=	1.0000	**≥ 0.995**
m (Slope)=	1.0223	**0.90-1.10**
b (Intercept as % of full scale)=	0.0545	**± 3% F.S.**

Remarks:

Alberta Government

H_2S ANALYZER AUDIT

File No. 2025 - 065A

Date: May 22, 2025 Performed by: Al Clark

Station

Name: Peace River Complex Location: Peace River

Facility/Zone: PRAMP Operator: Bureau Veritas

Temp. 22.8 C Barometric Press. 706 mmHg

Monitor

Make/Model: Teledyne T101 Serial No: 1014

Inlet flow (sccm): 508 Full Scale Range ppm: 0.1

Last cal. Date: May 1, 2025 Old Correction Factor: 1.002

Zero/Bkg 15.4

Span Coef 0.970

Calibrator

Calibration Method: GAS DILUTION Make/Model: Sabio 2010

Cylinder # : T3CH4GL AMU # : 2092

CGA Date: October 2024 H_2S Concentration PPM: 10.14

Calibrator Flow (sccm)			Calculated Conc. (ppm)	Indicated Concentration (ppm)	% Difference	
Air	Gas	Total			vs Audit Gas	Limits
4882	0.0	4882	0.0000	0.0000		
4868	40.5	4908	0.0837	0.0814	-3%	± 10%
4859	20.0	4879	0.0416	0.0413	-1%	± 10%
4903	9.9	4913	0.0204	0.0202	-1%	± 10%
				Absolute Average Percent Difference	1%	

Linear Regression Analysis:

y=mx+b (where x=calculated concentration, y=indicated concentration)

		LIMITS
Correlation Coeff.=	0.9999	**≥ 0.995**
m (Slope)=	0.9726	**0.90-1.10**
b (Intercept as % of full scale)=	0.3032	**± 3% F.S.**

Remarks:

Alberta Government

TRS ANALYZER AUDIT

File No. 2025 - 066A

Date: May 22, 2025 Performed by: Al Clark

Station

Name: Peace River Complex Location: Peace River

Facility/Zone: PRAMP Operator: Bureau Veritas

Temp. 22.8 C Barometric Press. 706 mmHg

Monitor

Make/Model: Thermo 43i TLE Serial No: 116460022

Inlet flow (sccm): 467 Full Scale Range ppm: 0.1

Last cal. Date: May 1, 2025 Old Correction Factor: 0.998

Zero/Bkg 2.64

Span Coef 1.029

Calibrator

Calibration Method: GAS DILUTION Make/Model: Sabio 2010

Cylinder # : T3CH4GL AMU # : 2092

CGA Date: October 2024 H_2S Concentration PPM: 10.14

Calibrator Flow (sccm)			Calculated Conc. (ppm)	Indicated Concentration (ppm)	% Difference	
Air	Gas	Total			vs Audit Gas	Limits
4882	0.0	4882	0.0000	0.0004		
4868	40.5	4908	0.0837	0.0798	-5%	± 10%
4859	20.0	4879	0.0416	0.0400	-5%	± 10%
4903	9.9	4913	0.0204	0.0199	-5%	± 10%
				Absolute Average Percent Difference	5%	

Linear Regression Analysis:

y=mx+b (where x=calculated concentration, y=indicated concentration)

		LIMITS
Correlation Coeff.=	1.0000	**≥ 0.995**
m (Slope)=	0.9487	**0.90-1.10**
b (Intercept as % of full scale)=	0.4761	**± 3% F.S.**

Remarks:

Alberta Government

Non Methane Analyzer Audit

File No. 2025 - 067A

Date: May 22, 2025 Performed by: Al Clark

Station:

Name: PRC Location: Peace River Operator: Bureau Veritas

Facility/Zone: PRAMP Temp. 21.8 C BP: 707 mmHg

Monitor:

Make/Model: Thermo 55i Serial No. 1034745845

Inlet flow (sccm): N/A CH_4 Range ppm: 20.0

Last cal. Date: May 1, 2025 Non CH_4 Range ppm: 20.0

THC Range ppm: 40.0

Old Correction Factor: CH_4: 1.000

Non CH_4: 0.999

THC: 1.000

Calibration Method: Gas Dilution

Calibrator: Make/Model Sabio 2010 AMU# 2270

HC cylinder # T30Y8NP CH_4 conc. (ppm) 994.5 CH_4 Equiv (C_3H_8 only) (ppm) 827.2

CGA Date October 2024 C_3H_8 conc. (ppm) 300.8 Total CH_4 Equiv. (ppm) 1821.7

Calibrator Flows			Calc. Conc.			Indicated Concentration			% Difference vs Audit Gas		
			CH_4	Non CH_4	THC	CH_4	Non CH_4	THC	Limit ± 10%		
Air	Gas	Total	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	CH_4	Non CH_4	THC
4868	0.0	4868	0.00	0.00	0.00	0.00	0.00	0.00			
4796	79.1	4875	16.14	13.42	29.56	16.29	13.17	29.46	1%	-2%	0%
4834	39.2	4873	8.00	6.65	14.65	8.10	6.56	14.66	1%	-1%	0%
4865	19.5	4884	3.97	3.30	7.27	4.01	3.26	7.27	1%	-1%	0%
								Absolute Average Percent Difference	1%	2%	0%

Linear Regression Analysis: *y=mx+b (where x=calculated concentration, y=indicated concentration)*

	CH_4	Non CH_4	THC	LIMITS
Correlation Coeff.=	1.0000	1.0000	1.0000	**≥ 0.995**
m (Slope)=	1.0096	0.9810	0.9966	**0.90-1.10**
b (Intercept as % of FS)=	0.0271	0.0695	0.0483	**± 3% F.S.**

Remarks:

Station Performance Audit Summary

Company: PRAMP

Facility Name: Peace River Complex

Approval No.: N/A

Site Name: Peace River Complex

Region: Upper Peace River

District: Peace River

Parameters audited:

H_2S	**X**	SO_2	**X**	NO_x		NH_3	
TRS	**X**	CH_4	**X**	NonCH_4	**X**	THC	**X**
PM2.5		PM10		TSP		W. Speed	**X**
W. Direction	**X**	Amb Tmp	**X**	Stn. Temp	**X**	RH	**X**
O_3		Ethylene		BTEX		BP	**X**
Rainfall		Precip		VWS		Other	
All parameters monitored as per approva		Yes / No		N/A		**X**	

GENERAL	YES	NO	N/A
Has the location remained unchanged from previous audit?	**X**		
Is site secure?	**X**		
Are station operating conditions adequate?	**X**		

DATA ACQUISITION			
Are strip charts in use?		**X**	
Is a telemetry system for data acquisition in use?	**X**		

SYSTEM COMPONENTS			
Is a glass sampling manifold installed?	**X**		
Is sampling manifold clean?	**X**		
Is a manifold trap in place?	**X**		
Are spare manifold ports capped	**X**		
Is manifold oriented so it is not exactly horizontal?	**X**		
Are manifold ports situated to prevent water entering monitors?	**X**		
Is manifold pump properly installed and operative?	**X**		
Do sample lines extend at least 3/4"into manifold?	**X**		
Are monitor sampling lines connected to manifold?	**X**		
Are sampling lines clean?	**X**		
Are monitors properly mounted and secure?	**X**		
Are monitors properly exhausted from room or scrubbed?	**X**		
Are zero and span systems operational?	**X**		

WIND EQUIPMENT			
Is wind sensor properly oriented?	**X**		
Does wind equipment appear to be functioning properly?	**X**		
Date of last calibration. Date: September 2024			

COMMENTS: _____

AUDITOR: Al Clark

DATE: May 22, 2025

Station Site Documents Audit Checklist

Station

Name: Peace River Complex Location: Peace River

Facility/Zone: PRAMP Operator: Bureau Veritas

Required Elements of AMD Chapter 3 *SS 4-B*

Do the Site Documents Contain the Following:

	Meets AMD		NA	Current	
	YES	NO		YES	NO
(a) Name of Owner/ Approval Holder	X				
(b) Name of Operating Agency	X				
(c) Contact Information	X				
(d) Date the Site or Station was Established	X				
(e) Date the information was last updated	X				
(f) Location including Latitude and Longitude	X				
(g) Four Colour Photos Looking N, E, S, W From Manifold Inlet	X				
(h) Additional Photos/Sketches of AMD Standard Site Non-Conformance			X		
(i) List of Instruments Located at the Site	X				
(j) Site Description Including the following:					
(i) Land Use By Sector	X				
(ii) Site Elevation	X				
(iii) Greatest Angle of Elevation & Direction to Nearby Buildings			X		
(iv) Average Building height in the area			X		
(v) Distance to Nearest Trees	X				

Required Elements of AMD Chapter 3 *SS 4-D*

Do the Station Site Documents Contain the Following:

	Meets AMD		NA	Current	
	YES	NO		YES	NO
(a) Recent Area Map Covering Approximately 1Km^2	X				
(b) Plan View Sketch	X				
(c) Cross-Sectional Sketch of Area Within 500 m Radius	X				
(d) Colour Photos Showing Sample Manifold/Inlet	X				
(e) Colour Photo of the Station	X				
(f) Additional Photos/Sketches of AMD Standard Station Non-Conformance			X		

COMMENTS:

AUDITOR: Al Clark DATE: May 29, 2025

Alberta Government

Network Site Documents Audit Checklist

Network

Name: Peace River Complex Location: Peace River

Facility/Zone: PRAMP Operator: Bureau Veritas

Required Elements of AMD Chapter 3 *SS 4-C*

Do the Network Site Documents Contain the Following:

	Meets AMD YES	Meets AMD NO	NA	Current YES	Current NO
(a) A Recent Area Map Showing the Following:					
(i) Station Locations	X				
(ii) Roadways	X				
(iii) Railway Lines		X			
(iv) Airports		X			
(v) Lakes	X				
(vi) Rivers	X				
(vii) Human Settlements	X				
(viii) Locations of Identified Industrial & Non-Industrial Pollutant Sources	X				
(ix) Other Significant Landmarks			X		
(b) A windrose for each Continuous Ambient Air Monitoring Station	X				

COMMENTS: _____

AUDITOR: Al Clark DATE: May 29, 2025

Station Checklist

Station

Name: Peace River Complex Location: Peace River

Facility/Zone: PRAMP Operator: Bureau Veritas

	Yes	No	N/A
Are all Particulate Sampler Heads put back in the correct			X
Has the existing or new TEOM filter been installed?			X
Has the flow bypass line on Teom Been reinstalled?			X
Has the Sharp Filter Tape been installed back on spool?			X
Has the BAM sampler been put back into the sample mode?			X
Have all intermittent particulate samplers been returned to an as found condition?			X
Have all sample lines been reconnected as found?	X		
Have all parameters that were marked down on the DAS been marked up?	X		
Are all ambient gas analyzers back in sample mode?	X		
Is everything left as it was at the start of the audit?	X		
Is the station properly secured upon departure?	X		

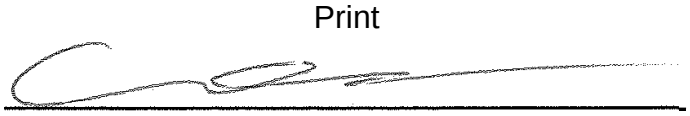
Auditor: Al Clark Date: May 22, 2025

Print

Signature

Operator: Chris Wesson Date: May 22, 2025

Print



Signature

Alberta Government

STATION AUDIT

File No. 2025 - 055A-060A

Date: May 21, 2025 Performed by: Al Clark

Station

Name: Grimshaw Location: Grimshaw

Facility/Zone: PRAMP Operator: Bureau Veritas

Temp: 21.9°C Barometric Press: 707 mmHg

Location

Latitude N	56° 11' 11.5"
Longitude W	117° 36' 17.6"
Elevation	600 m
Status of Site Documentation	OK
Status of Network Documentation	OK
Status of QAP	OK

Magnetic Declination
15° 49' E

Manifold Material	Glass
Manifold Condition	Good

Meteorological

	Observed	Audit Value
Wind Speed Direction	15.2km/h / 221 degrees	15-20 km/hr / SW
Station Temperature	20.3 C	22.1 C
Relative Humidity	26.3 %	24.8 %
Ambient Temperature	17.6 C	17.7 C
Barometric Pressure	(943 mb) 707 mmHg	707 mmHg
Precipitation	N/A	N/A

Remarks:
Temperature corrected after the completion of the audit.

Alberta Government

SO_2 ANALYZER AUDIT

File No. 2025 - 055A

Date: May 21, 2025 Performed by: Al Clark

Station

Name: Grimshaw Location: Grimshaw

Facility/Zone: PRAMP Operator: Bureau Veritas

Temp. 24.9 C Barometric Press. 709 mmHg

Monitor

Make/Model: Teledyne T100 Serial No: 722

Inlet flow (sccm): 430 Full Scale Range ppm: 0.5

Last cal. Date: May 7, 2025 Old Correction Factor: 1.002

Zero/Bkg 37.2

Span Coef 0.919

Calibrator

Calibration Method: GAS DILUTION Make/Model: Sabio 2010

Cylinder # : T1XY16R AMU # : 2092

CGA Date: October 2024 SO_2 Concentration PPM: 50.48

Calibrator Flow (sccm)			Calculated Conc. (ppm)	Indicated Concentration (ppm)	% Difference	
Air	Gas	Total			vs Audit Gas	Limits
4882	0.0	4882	0.000	0.000		
4852	39.7	4892	0.410	0.411	0%	± 10%
4864	20.2	4884	0.209	0.209	0%	± 10%
4905	10.5	4915	0.108	0.109	1%	± 10%
				Absolute Average Percent Difference	1%	

Linear Regression Analysis:

y=mx+b (where x=calculated concentration, y=indicated concentration)

		LIMITS
Correlation Coeff.=	1.0000	**≥ 0.995**
m (Slope)=	1.0025	**0.90-1.10**
b (Intercept as % of full scale)=	0.0457	**± 3% F.S.**

Remarks:

Alberta Government

TRS ANALYZER AUDIT

File No. 2025 - 056A

Date: May 21, 2025 Performed by: Al Clark

Station

Name: Grimshaw Location: Grimshaw

Facility/Zone: PRAMP Operator: Bureau Veritas

Temp. 24.9 C Barometric Press. 709 mmHg

Monitor

Make/Model: Thermo 43iQ TLE Serial No: 12409233394

Inlet flow (sccm): 373 Full Scale Range ppm: 0.1

Last cal. Date: May 7, 2025 Old Correction Factor: 0.998

Zero/Bkg 1.73

Span Coef 1.050

Calibrator

Calibration Method: GAS DILUTION Make/Model: Sabio 2010

Cylinder # : T3CH4GL AMU # : 2092

CGA Date: October 2024 H_2S Concentration PPM: 10.14

Calibrator Flow (sccm)			Calculated Conc. (ppm)	Indicated Concentration (ppm)	% Difference	
Air	Gas	Total			vs Audit Gas	Limits
4882	0.0	4882	0.0000	-0.0001		
4852	40.2	4892	0.0833	0.0804	-3%	± 10%
4864	19.9	4884	0.0413	0.0402	-2%	± 10%
4905	9.8	4915	0.0202	0.0195	-3%	± 10%
				Absolute Average Percent Difference	3%	

Linear Regression Analysis:

y=mx+b (where x=calculated concentration, y=indicated concentration)

		LIMITS
Correlation Coeff.=	1.0000	**≥ 0.995**
m (Slope)=	0.9663	**0.90-1.10**
b (Intercept as % of full scale)=	0.0048	**± 3% F.S.**

Remarks:

Alberta Government

Non Methane Analyzer Audit

File No. 2025 - 057A

Date: May 21, 2025 Performed by: Al Clark

Station:

Name: Grimshaw Location: Grimshaw Operator: Bureau Veritas

Facility/Zone: PRAMP Temp. 20.4 C BP: 707 mmHg

Monitor:

Make/Model: Thermo 55i Serial No. 12101910497

Inlet flow (sccm): N/A CH_4 Range ppm: 20.0

Last cal. Date: May 7, 2025 Non CH_4 Range ppm: 20.0

THC Range ppm: 40.0

Old Correction Factor: CH_4: 0.997

Non CH_4: 0.997

THC: 0.997

Calibration Method: Gas Dilution

Calibrator: Make/Model Sabio 2010 AMU# 2092

HC cylinder # T30Y8NP CH_4 conc. (ppm) 994.5 CH_4 Equiv (C_3H_8 only) (ppm) 827.2

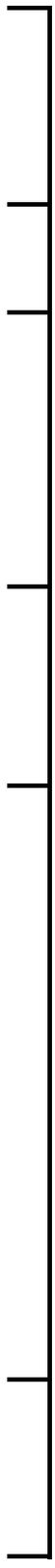
CGA Date October 2024 C_3H_8 conc. (ppm) 300.8 Total CH_4 Equiv. (ppm) 1821.7

Calibrator Flows			Calc. Conc.			Indicated Concentration			% Difference vs Audit Gas		
			CH_4	Non CH_4	THC	CH_4	Non CH_4	THC	Limit ± 10%		
Air	Gas	Total	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	CH_4	Non CH_4	THC
4904	0.0	4904	0.00	0.00	0.00	0.00	0.00	0.00			
4816	78.5	4894	15.95	13.27	29.22	16.18	12.92	29.10	1%	-3%	0%
4853	39.6	4893	8.05	6.69	14.74	8.16	6.51	14.68	1%	-3%	0%
4885	20.2	4905	4.10	3.41	7.50	4.16	3.32	7.48	2%	-3%	0%
								Absolute Average Percent Difference	1%	3%	0%

Linear Regression Analysis: *y=mx+b (where x=calculated concentration, y=indicated concentration)*

	CH_4	**Non CH_4**	**THC**	**LIMITS**
Correlation Coeff.=	1.0000	1.0000	1.0000	**≥ 0.995**
m (Slope)=	1.0142	0.9736	0.9958	**0.90-1.10**
b (Intercept as % of FS)=	0.0078	-0.0032	0.0072	**± 3% F.S.**

Remarks:



Alberta Government

NO-NOx-NO2 Analyzer Audit

File No. 2025 - 058A

Date: May 21, 2025 Performed by: Al Clark

Station:

Name: Grimshaw Location: Grimshaw Operator: Bureau Veritas

Facility/Zone: PRAMP Temp. 24.3 C BP: 709 mmHg

Monitor:

Make/Model: Teledyne T200 Serial No. 837

Inlet flow (sccm): 445 Range ppm: 0.5

Last cal. Date: May 7, 2025 Old CF: NO: 0.998

NOx: 1.004

NO2: 1.005

NO Bkg -0.8

NOx Bkg 0.5

NO Coef 1.011

NOx Coef 1.011

NO2 Coef N/A

Calibration Method: Gas Dilution / GPT

Calibrator: Make/Model: Sabio 2010 AMU# 2270

NO cylinder # T1FE4LK NO conc. ppm 49.19 NOx conc. ppm 50.04

CGA Date April 2025

Calibrator Flows			Calc. Conc.		Indicated Concentration		% Difference vs Audit Gas	
Air	Gas	Total	NO (ppm)	NOx (ppm)	NO (ppm)	NOx (ppm)	NO	NOx
4870	0.0	4870	0.000	0.000	0.000	-0.001	Limit ± 10%	
4835	39.4	4874	0.398	0.405	0.399	0.410	0%	2%
4851	19.5	4870	0.197	0.200	0.199	0.203	1%	2%
4873	9.7	4883	0.098	0.099	0.098	0.099	0%	1%
						Absolute Average Percent Difference	1%	1%

Linear Regression Analysis: *y=mx+b (where x=calculated concentration, y=indicated concentration)*

	NO	NOx	NO_2	LIMITS
Correlation Coeff.=	1.0000	1.0000	1.0000	**≥ 0.995**
m (Slope)=	1.0038	1.0170	0.9892	**0.90-1.10**
b (Intercept as % of full scale)=	0.0512	-0.2631	-0.1348	**± 3% F.S.**

O_3 Setting	Flow Rate	Indicated Conc. (ppm)			NO Decrease	NO_2 Increase	% Difference vs Audit Gas	
		NO	NOx	NO_2				
0.000	4874	0.399	0.402	0.003				%Dif Limit
0.300	4874	0.121	0.398	0.277	0.278	0.274	-1%	± 10%
0.200	4874	0.215	0.399	0.185	0.184	0.182	-1%	± 10%
0.100	4874	0.307	0.400	0.093	0.092	0.090	-2%	± 10%
						Absolute Average Percent Difference	2%	

Converter Efficiency

Average Converter Efficiency 98.4%

Remarks:

O_3 ANALYZER AUDIT

File No. 2025 - 059A

Date: May 21, 2025 Performed by: Al Clark

Station

Name: Grimshaw Location: Grimshaw

Facility/Zone: PRAMP Operator: Bureau Veritas

Temp. 20.4°C Barometric Press. 707 mmHg

Monitor

Make/Model: Thermo 49iQ Serial No: 12326230141

Inlet flow (sccm): 1050 Full Scale Range ppm: 0.5

Last cal. Date: May 7, 2025 Old Correction Factor: 0.999

Zero/Bkg 4.2

Span Coeff. 1.016

Calibrator

Calibration Method: Photometer

Make/Model: Thermo 49i PS AMU # : 2247

NO cylinder # : N/A NO concentration ppm: N/A

Ozone Setting PPB/Current	Calibrator Flow (sccm) Air	Gas	Total	Calculated Conc. (ppm)	Indicated Conc. (ppm)	% Difference vs Audit Gas	% Difference Limits
0	1191		0	0.000	0.002		
400	0		0	0.400	0.410	2%	± 10%
200	0		0	0.200	0.206	2%	± 10%
100	0		0	0.100	0.103	1%	± 10%
				Absolute Average Percent Difference		2%	

Linear Regression Analysis:

y=mx+b (where x=calculated concentration, y=indicated concentration)

		LIMITS
Correlation Coeff.=	1.0000	**≥ 0.995**
m (Slope)=	1.0209	**0.90-1.10**
b (Intercept as % of full scale)=	0.3200	**± 3% F.S.**

Remarks:

Alberta Government

Teledyne API T-640 Instrument Audit

File No. 2025 - 060A

Date: May 21, 2025 **Performed by:** Al Clark

Station

Name:	Grimshaw	Location:	Grimshaw
Site Name:	Grimshaw	Operator:	Bureau Veritas
Station Temperature:	22.1 C	Station Pressure:	707 mmHg
Last Audit:	N/A		

Calibration Flowmeter Standard

Make/Model:	DeltaCal
Serial Number:	1002

Instrument Details

Make/Model	T640
AMU #	N/A
S/N #	318
DOE #	N/A

As-found Recordings

Flow (l/min)	5.04
PM2.5 (ug/m3)	2.3
Pump PMW (%)	30
Sample RH (%)	22
Temp (°C)	19.2
Press (mmHg)	707

Zero Test (Leak Check)

PM2.5 Reading (ug/m3): 0.0

Time to reach zero **(min)**: 10 seconds

(must read 0.0 for leak check to pass)

Ambient Temperature	*(°C)*		
	T640 Temp	Acceptable (°C)	Result (°C)
	19.2	2.0	1.9
	Measured Temp		
	17.3		

Ambient Pressure	*(mmHg)*		
	T640 Pressure	Acceptable	Result
	707	5%	0%
	Measured Press		
	706		

Flow Audit

T640 Flow (l/min)	5.08	Acceptable	
Measure Flow (l/min)	5.04	5.0 LPM ± 0.25LPM	0.04

PMT Performance Check

Span Dust Lot #	1001128-050-036	Last Checked	May 7, 2024
Span Dust Peak at Channel	10.9	Peak Channel Reading	11.0
Expiry Date	December 28, 2023	PMT Setting (V)	As-found: 1547 / As-left: 1547

(Adjust PMT if reading > ± 0.5)

Remarks:

Ambient Temp sensor adjusted after the audit was complete.

Preventative Maintenance	**Date**
Sample Inlet Cleaning	February 2025
DFU Replacement	October 2024
Optical Chamber Cleaning	May 2025

Station Performance Audit Summary

Company: PRAMP Facility Name: Grimshaw

Approval No.: N/A Site Name: Grimshaw

Region: Upper Peace River District: Peace River

Parameters audited:

TRS	**X**	SO_2	**X**	NO_x	**X**	NH_3	
CO		CH_4	**X**	NonCH_4	**X**	THC	**X**
PM2.5	**X**	PM10		TSP		W. Speed	**X**
W. Direction	**X**	Amb Tmp	**X**	Stn. Temp	**X**	RH	**X**
O_3	**X**	Ethylene		BTEX		BP	**X**
Rainfall		Precip		VWS		Other	
All parameters monitored as per approva		Yes / No		N/A		**X**	

GENERAL	YES	NO	N/A
Has the location remained unchanged from previous audit?	**X**		
Is site secure?	**X**		
Are station operating conditions adequate?	**X**		

DATA ACQUISITION			
Are strip charts in use?		**X**	
Is a telemetry system for data acquisition in use?	**X**		

SYSTEM COMPONENTS			
Is a glass sampling manifold installed?	**X**		
Is sampling manifold clean?	**X**		
Is a manifold trap in place?	**X**		
Are spare manifold ports capped	**X**		
Is manifold oriented so it is not exactly horizontal?	**X**		
Are manifold ports situated to prevent water entering monitors?	**X**		
Is manifold pump properly installed and operative?	**X**		
Do sample lines extend at least 3/4"into manifold?	**X**		
Are monitor sampling lines connected to manifold?	**X**		
Are sampling lines clean?	**X**		
Are monitors properly mounted and secure?	**X**		
Are monitors properly exhausted from room or scrubbed?	**X**		
Are zero and span systems operational?	**X**		

WIND EQUIPMENT			
Is wind sensor properly oriented?	**X**		
Does wind equipment appear to be functioning properly?	**X**		
Date of last calibration. Date: August 2024			

COMMENTS: Trap is dusty.

AUDITOR: Al Clark DATE: May 21, 2025

Station Site Documents Audit Checklist

Station

Name: Grimshaw Location: Grimshaw

Facility/Zone: PRAMP Operator: Bureau Veritas

Required Elements of AMD Chapter 3 *SS 4-B*

Do the Site Documents Contain the Following:

	Meets AMD		NA	Current	
	YES	NO		YES	NO
(a) Name of Owner/ Approval Holder	X				
(b) Name of Operating Agency	X				
(c) Contact Information	X				
(d) Date the Site or Station was Established	X				
(e) Date the information was last updated	X				
(f) Location including Latitude and Longitude	X				
(g) Four Colour Photos Looking N, E, S, W From Manifold Inlet	X				
(h) Additional Photos/Sketches of AMD Standard Site Non-Conformance			X		
(i) List of Instruments Located at the Site	X				
(j) Site Description Including the following:					
(i) Land Use By Sector	X				
(ii) Site Elevation	X				
(iii) Greatest Angle of Elevation & Direction to Nearby Buildings	X				
(iv) Average Building height in the area	X				
(v) Distance to Nearest Trees	X				

Required Elements of AMD Chapter 3 *SS 4-D*

Do the Station Site Documents Contain the Following:

	Meets AMD		NA	Current	
	YES	NO		YES	NO
(a) Recent Area Map Covering Approximately 1Km^2	X				
(b) Plan View Sketch	X				
(c) Cross-Sectional Sketch of Area Within 500 m Radius	X				
(d) Colour Photos Showing Sample Manifold/Inlet	X				
(e) Colour Photo of the Station	X				
(f) Additional Photos/Sketches of AMD Standard Station Non-Conformance			X		

COMMENTS:

AUDITOR: Al Clark DATE: May 29, 2025

Alberta Government

Network Site Documents Audit Checklist

Network

Name: Grimshaw Location: Grimshaw

Facility/Zone: PRAMP Operator: Bureau Veritas

Required Elements of AMD Chapter 3 *SS 4-C*

Do the Network Site Documents Contain the Following:

	Meets AMD YES	Meets AMD NO	NA	Current YES	Current NO
(a) A Recent Area Map Showing the Following:					
(i) Station Locations	X				
(ii) Roadways	X				
(iii) Railway Lines		X			
(iv) Airports		X			
(v) Lakes	X				
(vi) Rivers	X				
(vii) Human Settlements	X				
(viii) Locations of Identified Industrial & Non-Industrial Pollutant Sources	X				
(ix) Other Significant Landmarks			X		
(b) A windrose for each Continuous Ambient Air Monitoring Station	X				

COMMENTS: _____

AUDITOR: Al Clark DATE: May 29, 2025

Station Checklist

Station

Name: Grimshaw Location: Grimshaw

Facility/Zone: PRAMP Operator: Bureau Veritas

	Yes	No	N/A
Are all Particulate Sampler Heads put back in the correct			X
Has the existing or new TEOM filter been installed?			X
Has the flow bypass line on Teom Been reinstalled?			X
Has the Sharp Filter Tape been installed back on spool?			X
Has the BAM sampler been put back into the sample mode?			X
Have all intermittent particulate samplers been returned to an as found condition?			X
Have all sample lines been reconnected as found?	X		
Have all parameters that were marked down on the DAS been marked up?	X		
Are all ambient gas analyzers back in sample mode?	X		
Is everything left as it was at the start of the audit?	X		
Is the station properly secured upon departure?	X		

Auditor: Al Clark Date: May 21, 2025

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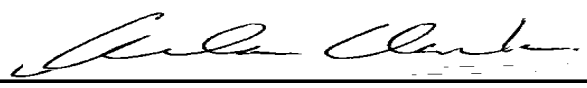

Signature

Operator: Chris Wesson Date: May 21, 2025

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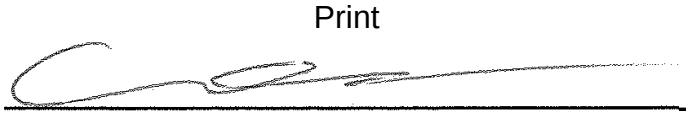

Signature

Alberta Government