

## CERTIFICATE OF ANALYSIS-COMPRESSED BREATHING AIR

SAMPLE NO.: L2334-1

SAMPLE DESCRIPTION: Bullard 212621

DATE SAMPLE COLLECTED/RECEIVED: January 28, 2021

ANALYTE	CSA ALLOWABLE CONCENTRATIONS*	RESULT	DETECTION LIMIT	UNITS
Oxygen	20-22	21	0.1	%
Carbon Dioxide	≤ 600	430	10	mL/m <sup>3</sup> (ppm)
Carbon Monoxide	≤ 5	<2.5	2.5	mL/m <sup>3</sup> (ppm)
Methane	≤ 10	<5	5	mL/m <sup>3</sup> (ppm)
Volatile Non-Methane Hydrocarbons	≤ 5	<4	4	mL/m <sup>3</sup> (ppm) <sup>vv</sup>
Volatile Halogenated Hydrocarbons	≤ 5	<4	4	mL/m <sup>3</sup> (ppm)
Nitrogen	78-80	79.2	1	% <sup>vvv</sup>
Oil, Particulate, and Condensates	≤ 1	<0.2	0.2	mg/m <sup>3</sup>
Water (Atmospheric)	vv	-40	-70	°C
Water (Line pressure)	vv	N.A.	-70	°C
Odour	***	N.D.	--	--

N.D.: Not detected

N.A.: Result not available, analysis not requested.

\*: CSA Standard Z180.1-19

v: As methane equivalents. Results are reported as a Total Hydrocarbon value. Detection limit is 4 ppm as total methane equivalents. The CSA standard specifies individual compounds should not exceed 1 ppm methane equivalents. Unless otherwise stated in this report no individual compounds were detected above 1 ppm methane equivalents.

\*\*: The Recommended Concentration Range is based on the Alberta General Safety Regulations, section 249(b), which specifies these substances should not exceed one tenth of the current Alberta Occupational Exposure Limit for these compounds.

vv: The pressure dew point of compressed breathing air at pressures <15.3 Mpa (2216 psig) shall be at least 5°C (9°F) below the lowest temperature to which any part of the compressed breathing air pipeline or the accepted respirator may be exposed to during any season of the year. The air delivered by an ambient air system operating at pressures at or below 103.4 kPa (15 psig) is not required to meet this pressure dew point requirement.

Compressed breathing air in cylinders and piping operating at pressures ≥15.3 Mpa (2216 psig)

a) shall have an atmospheric dew point not exceeding -53°C (-63°F) or a water vapour concentration not exceeding 27 ppm ±10%; and

b) should have a pressure dew point not exceeding 5°C (9°F) below the lowest temperature to which the cylinder and piping may be exposed to during any season of the year.

\*\*\*: Any pronounced odour detected by smell in a compressed breathing air sample being analyzed shall be cause for failure of the sample. The source and nature of the odour shall be investigated and resolved.

vvv: Reported as a balance.

APPROVED BY:

Jim Haeberle  
Manager - Edmonton

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY

ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

### LABORATORY ACCREDITATIONS:

- STANDARDS COUNCIL OF CANADA IN COOPERATION WITH THE CANADIAN ASSOCIATION FOR ENVIRONMENTAL ANALYTICAL LABORATORIES (CAEAL): FOR SPECIFIC TESTS AS REGISTERED BY THE COUNCIL (EDMONTON, CALGARY, GRANDE PRAIRIE, SASKATOON, WINNIPEG, THUNDER BAY, WATERLOO)
- AMERICAN INDUSTRIAL HYGIENE ASSOCIATION (AIHA): IN THE INDUSTRIAL HYGIENE PROGRAM (EDMONTON, WINNIPEG)
- STANDARDS COUNCIL OF CANADA IN COOPERATION WITH THE CANADIAN FOOD INSPECTION AGENCY (CFIA) FOR FERTILIZER AND FEED TESTING (SASKATOON) AND FOR MICROBIOLOGICAL TESTING IN FOOD (WINNIPEG)

### LABORATORY RECOGNITIONS:

- STANDARDS COUNCIL OF CANADA – GLP COMPLIANT FACILITY (EDMONTON, OTTAWA)



**Mailing Address:** Suite 157, 9768 170 St.  
Edmonton, Alberta T5T 5L4

**Phone:** 1.888.524.2012  
**Fax:** 1.780.486.4046  
**Email:** jhaeberle@nor-alta.com

## Carbon Monoxide Monitor Certificate of Calibration

**CALIBRATION DATE:** January 28, 2021  
**CLIENT:** Pro Paint Canada  
**ADDRESS:** 4016 Charles Street  
Red Deer, AB, T4S 2A8  
**MONITOR INFORMATION:** Carbon Monoxide Monitor  
Model RP 050 BMST  
S/N RP-01-9588  
Monitor S/N A200-10118

**FILE REFERENCE #:** 45233

GAS TYPE	CONCENTRATION	GAS EXPIRY DATE	READING	ADJUSTED	PASS/FAIL
Zero Air	0 ppm CO	Jan 2024	0	Yes	Pass
Carbon Monoxide	95 ppm CO	Jan 2024	38	Yes	Pass

Audible Alarm Functioning	Yes	Alarm Level Set	5ppm
Visual Alarm Functioning	Yes	Monitor Detection Limit	<1ppm
Battery Tested	Yes	Monitor Instrument Resolution	1ppm
Battery Replacement	No	Odour	None
Filters Replaced	No	Normal Battery mode operational	Yes

**NEXT REQUIRED CALIBRATION DATE:** July 2021

- All calibration procedures have been appropriately certified to comply with the CSA Standard Z180.19, Alberta Occupational Health and Safety Act Requirements, and Manufacturers Specifications
- All calibration procedures are performed by a qualified individual.

**Calibrated By:**

  
Katie Haeberle, B.Sc., P.Biol., AIT  
Environmental Scientist

**Approved By:**

  
Jim Haeberle  
President



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## Carbon Monoxide Monitor Certificate of Calibration

**CALIBRATION DATE:** January 27, 2021  
**CLIENT:** Pro Paint Canada  
**ADDRESS:** 4016 Charles Street  
Red Deer, AB, T4S 2A8  
**MONITOR INFORMATION:** Carbon Monoxide Monitor  
Model RP 050 BMST  
S/N RP-01-8692  
Monitor S/N A200-9526

**FILE REFERENCE #:** 45231

GAS TYPE	CONCENTRATION	GAS EXPIRY DATE	READING	ADJUSTED	PASS/FAIL
Zero Air	0 ppm CO	Jan 2024	0	Yes	Pass
Carbon Monoxide	95 ppm CO	Jan 2024	33	Yes	Pass

Audible Alarm Functioning	Yes	Alarm Level Set	5ppm
Visual Alarm Functioning	Yes	Monitor Detection Limit	<1ppm
Battery Tested	Yes	Monitor Instrument Resolution	1ppm
Battery Replacement	No	Odour	None
Filters Replaced	No	Normal Battery mode operational	Yes

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