

Hinton Pulp
A division of West Fraser Mills Limited
Hinton, Alberta

AIR QUALITY MONITORING
April 2018
Monthly Report

Prepared by:

West Central Airshed Society
Drayton Valley, Alberta

May 17, 2018

Hinton Pulp
A Division of West Fraser Mills Ltd.
Mr. Phil Whitney
760 Switzer Drive
Hinton, AB T7V 1V7

Dear Mr. Whitney:

**Monthly Ambient Air Quality Monitoring Report for April 2018
For Hinton Pulp – A Division of West Fraser Mills Ltd.**

Enclosed are the reports for the continuous ambient air quality monitoring station of the West Central Airshed Society network.

Network Station is AMS 906 Hinton
Identified as:

The person responsible for this reporting is Gary Redmond, Executive Director of West Central Airshed Society.

The following operational notes are included as required by the Air Monitoring Directive:

1. Concentrations in excess of the Clean Air (Maximum Levels) Regulation:

There was one 1-hour TRS Exceedence and one 1-hour H₂S of the AAAQO recorded in April.

2. Operational times less than 90 percent:

All analyzers and meteorological equipment returned operational times greater than 90%.

3. Monitoring Notes:

AMS 906 (Hinton)

All analyzers and meteorological sensors returned uptimes of 100% for the month of April.

If additional information is required, please call (587) 499-4900.

Sincerely,



Patrick Andersen
Environmental Specialist

Forest Products Industry Monthly Report Summary

Hinton

Plant Name/Location

Hinton Pulp - A Division of West Fraser Mills Ltd.

Company

License Number	Report Date	
	Year	Month
	2018	April

TOTAL EMISSIONS FOR MONTH (IN TONNES)

POLLUTANT	INCINERATOR STACK	FLARE	MISCELLANEOUS
SO ₂			

"HOURS" OF EXCEEDED STACK LICENSED LIMITS (CEM)

POLLUTANT	STACK TYPE	1-HR AVG CONCENTRATION	1-HR AVG MASS EMISSION	24-HR AVG MASS EMISSION	STACK TOP TEMP.	% TIME STACK MONITOR OPERATIONAL
SO ₂						

STATIC AMBIENT MONITORING

PARAMETER	NO. OF STATIONS	PEAK READING	AVG. OF NETWORK	NO. OF STATIONS OVER GUIDELINES
T.S.				
H ₂ S				

CONTINUOUS AMBIENT MONITORING

PARAMETER	STATION NUMBER	% TIME OPERATIONAL	1-HR AVERAGE		24-HR AVERAGE	
			MAXIMUM CONCENTRATION (ppm)	NO. READINGS > REGULATIONS	MAXIMUM CONCENTRATION (ppm)	NO. READINGS > REGULATIONS
Wind	906	100.0	n/a	n/a	n/a	n/a
TRS	906	100.0	0.019	1	0.002	0
PM _{2.5}	906	100.0	40.4 µg/m ³	0	16.71 µg/m ³	0
H ₂ S	906	100.0	0.020	1	0.002	0

SIGNATURE OF COMPANY REPRESENTATIVE

FOR ALBERTA ENVIRONMENT USE ONLY

WEST CENTRAL AIRSHED SOCIETY

**CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT
CONTINUOUS AIR QUALITY**

**AMS 906
HINTON
APRIL 2018**

Operations and Data Collection by:
West Central Airshed Society
Drayton Valley, Alberta

QA/QC, Data Validation and Reporting by:
West Central Airshed Society
Drayton Valley, Alberta

Summary Report

Continuous air quality/meteorological monitoring measurements

West Central Airshed Society

Hinton Pulp / Hinton Station 906													April 2018		24 Hour Average Max (ppm)
Parameter	Calibration Hours	Number of Data	Percent Uptime	Mean	Min	Max	Percentile					Exceedences			
							P10	Q1	Median	Q3	P90	1-hour	24-hour		
TRS (ppb)	35	685	100.0	0.9	0.0	19.0	0.3	0.4	0.5	1.0	2.1	1	0	0.002	
SO ₂ (ppb)	35	685	100.0	0.5	0.0	9.7	0.0	0.0	0.1	0.4	1.5	0	-	0.002	
H ₂ S (ppb)	35	685	100.0	0.9	0.0	20.0	0.0	0.2	0.8	1.0	1.8	1	0	0.002	
O ₃ (ppb)	35	685	100.0	35.2	0.5	56.6	11.1	26.1	39.7	46.7	50.6	0	-	0.046	
NO (ppb)	36	684	100.0	2.2	0.0	61.8	0.0	0.2	0.7	1.7	3.9	-	-	-	
NO ₂ (ppb)	36	684	100.0	7.0	0.4	34.8	1.8	2.7	4.9	9.0	16.2	0	0	0.016	
NO _x (ppb)	36	684	100.0	9.3	0.3	91.5	2.0	3.4	5.9	10.6	20.5	-	-	-	
Particulate Matter 2.5 microns (µm ³)	0	720	100.0	8.0	0.5	40.4	2.1	3.7	6.5	9.8	16.3	0	0	16.71 ug/m3	
Wind Speed (kph)	0	720	100.0	4.0	0.0	12.8	0.5	1.4	3.6	6.1	7.9	-	-	-	
Temperature (°C)	0	720	100.0	2.1	-18.9	24.6	-9.7	-3.0	1.4	8.3	13.3	-	-	-	
Relative Humidity (%)	0	720	100.0	52.5	5.9	97.3	19.8	28.8	54.5	72.2	84.7	-	-	-	
Std Dev Wind Direction (deg)	0	720	100.0	48.1	16.4	103.9	27.5	34.3	42.8	58.1	79.3	-	-	-	
Std Dev Wind Speed (kph)	0	720	100.0	2.7	0.0	7.9	1.0	1.5	2.5	3.6	4.8	-	-	-	



WCAS - Hinton
Summary of Hourly Averages

Total Reduced Sulphur (TRS) - ppb
April 2018

Maximum Value: 19.13 ppb on Apr 28 07:00		Maximum Daily Average: 2.45 ppb on Apr 28		Hours in Service: 720																													
Minimum Value: 0 ppb on Apr 19 15:00		Minimum Daily Average: 0.34 ppb on Apr 7		Hours of Data: 685																													
Maximum Diurnal Average: 1.76 ppb at hour 7		Minimum Diurnal Average: 0.41 ppb at hour 18		Hours of Missing Data: 35																													
Monthly Average: 0.933 ppb		Percentiles: P ₁ = 0.0 P ₁₀ = 0.3 Q ₁ = 0.4 Median = 0.5 Q ₃ = 1.0 P ₉₀ = 2.1 P ₉₉ = 5.9		Hours of Calibration: 35																													
				Percent Operational Time: 100.0																													
Day	Hourly Period Ending At																								Daily Average	Daily Maximum							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24									
1-Apr	0	0	0	Z	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0.41	0.74							
2-Apr	0	1	1	Z	1	1	1	1	2	2	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0.69	2.42							
3-Apr	1	1	1	Z	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.46	0.64							
4-Apr	0	0	0	Z	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.47	1.25							
5-Apr	0	0	0	Z	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.37	0.52							
6-Apr	0	0	0	Z	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.36	0.53							
7-Apr	0	0	0	Z	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.34	0.40							
8-Apr	0	0	0	Z	0	0	0	0	0	0	0	3	2	2	3	3	1	0	0	0	0	0	1	0	0.87	2.96							
9-Apr	1	5	3	Z	2	2	3	3	4	3	3	1	1	1	1	2	2	1	1	1	1	1	1	1	1.86	4.82							
10-Apr	3	2	1	Z	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.91	2.79							
11-Apr	0	0	0	Z	1	2	2	3	6	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1.22	6.22							
12-Apr	0	0	0	Z	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.39	0.43							
13-Apr	1	0	1	Z	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1.16	3.33							
14-Apr	0	1	2	Z	1	1	1	1	1	1	1	0	1	0	1	1	0	0	0	1	0	2	4	1	0.95	3.68							
15-Apr	1	1	1	Z	1	1	1	1	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.89	4.44							
16-Apr	0	0	0	Z	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.38	0.56							
17-Apr	0	0	0	Z	1	1	0	1	1	1	1	0	1	1	1	1	0	0	0	1	3	1	1	1	0.61	2.79							
18-Apr	1	2	2	Z	2	3	3	4	2	1	1	0	0	0	0	0	0	0	0	1	1	1	3	4	1.46	4.24							
19-Apr	4	4	2	Z	2	2	2	2	1	C	C	C	C	C	0	0	0	0	1	1	1	0	2	0	1.36	3.88							
20-Apr	1	1	1	Z	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	2	1	0	0	0	0.87	1.94							
21-Apr	1	0	1	Z	2	2	2	2	6	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.78	5.83							
22-Apr	2	8	5	Z	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3	3	1.05	7.79							
23-Apr	2	1	1	Z	3	3	3	1	1	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0.92	3.11							
24-Apr	0	0	2	Z	2	1	1	0	1	1	1	1	1	0	0	0	0	1	3	2	0	0	0	0	0.81	2.65							
25-Apr	0	0	1	Z	2	2	2	3	1	1	1	0	0	0	0	1	1	1	1	2	4	4	2	1	1.31	4.27							
26-Apr	1	1	1	Z	1	1	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.65	2.22							
27-Apr	4	2	3	Z	1	1	1	2	1	2	2	1	1	1	0	0	0	0	1	3	2	4	9	5	2.01	9.26							
28-Apr	2	2	1	Z	1	3	19	10	4	3	2	1	1	0	0	1	1	1	0	0	0	0	1	0	2.45	19.13							
29-Apr	0	0	0	Z	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0.48	0.90							
30-Apr	0	1	2	Z	1	2	2	7	6	2	1	1	0	0	0	0	1	1	1	1	3	0	0	0	1.60	7.11							
		0.93	1.24	1.11	--	1.14	1.23	1.76	1.74	1.72	1.20	0.86	0.64	0.56	0.50	0.50	0.54	0.51	0.41	0.50	0.72	0.90	0.80	1.06	0.87	Diurnal Average							
		3.88	7.79	4.72	--	3.33	3.34	19.13	10.48	6.22	4.74	3.30	2.95	2.31	2.17	2.79	2.96	1.94	1.07	1.32	2.65	4.27	4.39	9.26	4.55	Diurnal Maximum							
Z - zerospan		C - Calibration																															
Alberta Ambient Air Quality Objectives (AAAQO):		1-hr 10 ppb				24-hr 3 ppb																											



WCAS - Hinton
Summary of Hourly Averages

Sulphur Dioxide (SO₂) - ppb
April 2018

Maximum Value: 9.75 ppb on Apr 27 12:00		Maximum Daily Average: 1.59 ppb on Apr 27		Hours in Service: 720																																													
Minimum Value: 0.0 ppb on Apr 1 02:00		Minimum Daily Average: 0.03 ppb on Apr 16		Hours of Data: 685																																													
Maximum Diurnal Average: 1.46 ppb at hour 13		Minimum Diurnal Average: 0.08 ppb at hour 2		Hours of Missing Data: 35																																													
Monthly Average: 0.503 ppb		Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 0.1 Q ₃ = 0.4 P ₉₀ = 1.5 P ₉₉ = 4.6		Hours of Calibration: 35																																													
				Percent Operational Time: 100.0																																													
Day	Hourly Period Ending At																								Daily Average	Daily Maximum																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																									
1-Apr	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.0	0.09	0.25																							
2-Apr	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.11	0.23																							
3-Apr	0.1	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	1.5	1.9	1.3	0.9	0.8	1.2	1.7	1.5	1.3	1.0	0.7	0.71	1.89																							
4-Apr	0.5	0.2	0.2	Z	0.1	0.0	0.0	0.2	0.2	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.17	0.54																							
5-Apr	0.1	0.0	0.0	Z	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.7	1.1	1.0	0.3	0.1	0.2	0.0	0.1	0.1	0.20	1.06																							
6-Apr	0.1	0.2	0.3	Z	0.3	0.1	0.1	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.5	0.6	0.5	0.4	0.3	0.1	0.1	0.1	0.0	0.1	0.26	0.56																							
7-Apr	0.2	0.1	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.3	0.3	0.2	0.0	0.09	0.30																							
8-Apr	0.1	0.2	0.1	Z	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.6	1.8	3.2	4.6	4.2	1.7	0.8	0.5	0.4	0.4	0.3	0.3	0.2	0.90	4.61																							
9-Apr	0.2	0.2	0.2	Z	0.2	0.2	0.2	0.2	0.3	0.6	1.1	3.1	4.6	2.6	4.6	8.0	3.9	1.1	0.7	0.4	0.3	0.3	0.3	0.2	1.46	8.03																							
10-Apr	0.1	0.1	0.3	Z	0.3	0.3	0.3	0.2	0.2	0.3	0.4	0.3	0.1	0.1	0.2	0.2	0.2	0.2	0.5	0.3	0.2	0.1	0.1	0.1	0.22	0.50																							
11-Apr	0.1	0.0	0.0	Z	0.0	0.1	0.3	0.1	0.2	0.2	1.5	2.6	1.3	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.31	2.64																							
12-Apr	0.0	0.0	0.1	Z	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.05	0.15																							
13-Apr	0.1	0.1	0.1	Z	0.1	0.2	0.3	0.4	0.3	0.5	0.7	3.8	5.3	3.3	2.1	0.4	2.5	0.6	1.1	3.7	0.5	0.2	2.5	2.5	1.36	5.33																							
14-Apr	0.3	0.2	0.8	Z	0.2	0.6	0.5	0.2	1.7	1.7	3.4	1.1	3.2	0.6	4.3	1.5	0.8	2.0	0.7	1.8	0.2	0.2	0.2	0.1	1.14	4.26																							
15-Apr	0.0	0.1	0.1	Z	0.1	0.0	0.0	0.0	0.0	0.1	0.5	0.4	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.11	0.45																							
16-Apr	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.03	0.11																								
17-Apr	0.0	0.1	0.1	Z	0.0	0.1	0.0	0.0	0.1	0.1	0.2	0.0	0.1	0.7	1.0	0.3	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.14	0.98																							
18-Apr	0.0	0.0	0.0	Z	0.0	0.1	0.1	0.1	0.0	0.7	0.9	0.7	0.6	0.1	0.6	0.6	0.1	0.3	0.1	0.3	0.0	0.1	0.1	0.0	0.25	0.89																							
19-Apr	0.1	0.1	0.2	Z	0.2	0.3	0.4	0.1	0.2	C	C	C	C	C	1.0	2.1	0.6	1.4	1.6	2.2	1.4	0.9	0.1	0.1	0.71	2.20																							
20-Apr	0.1	0.1	0.0	Z	0.0	0.1	0.1	0.0	0.1	2.5	1.4	2.8	1.6	1.3	3.2	1.7	0.9	0.7	2.7	3.6	0.3	0.1	0.0	0.0	1.01	3.61																							
21-Apr	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.4	0.2	0.3	1.3	1.3	0.0	0.1	0.3	0.0	0.0	1.1	0.2	0.0	0.0	0.0	0.0	0.23	1.31																							
22-Apr	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	1.3	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.2	0.1	0.1	0.1	0.09	1.28																							
23-Apr	0.1	0.0	0.1	Z	0.0	0.1	0.2	0.2	0.1	0.1	0.1	1.0	1.1	0.5	0.4	1.6	2.7	0.3	0.1	1.5	1.3	0.3	0.1	0.1	0.53	2.74																							
24-Apr	0.1	0.2	0.2	Z	0.5	0.3	0.1	0.1	0.2	0.2	0.8	2.8	5.3	2.4	1.2	0.9	0.4	0.8	0.9	0.1	0.0	0.1	0.1	0.0	0.77	5.29																							
25-Apr	0.0	0.0	0.0	Z	0.0	0.1	0.1	0.2	2.7	1.8	1.6	0.4	0.7	1.7	1.8	2.1	2.8	3.0	0.7	2.4	0.4	0.1	0.1	0.1	1.00	3.05																							
26-Apr	0.1	0.0	0.0	Z	0.0	0.0	0.1	0.0	0.3	0.2	0.8	1.0	1.7	1.2	2.7	1.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.45	2.73																							
27-Apr	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	1.1	3.6	3.3	9.7	9.0	2.9	0.6	1.6	2.0	0.8	0.9	0.2	0.1	0.2	0.2	0.2	1.59	9.75																							
28-Apr	0.1	0.1	0.0	Z	0.0	0.0	0.2	0.2	0.6	1.7	2.9	0.2	1.2	0.0	0.0	2.0	1.5	0.1	0.1	0.0	0.1	0.1	0.2	0.0	0.49	2.88																							
29-Apr	0.1	0.1	0.1	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.2	0.0	0.0	0.0	0.0	0.07	0.90																							
30-Apr	0.0	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.1	0.9	2.7	2.1	1.2	1.5	1.8	0.3	3.3	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.62	3.28																							
																								0.09	0.08	0.10	--	0.08	0.10	0.11	0.09	0.36	0.59	0.85	1.23	1.46	0.86	1.13	1.08	0.90	0.51	0.51	0.68	0.28	0.19	0.21	0.17	Diurnal Average	
																								0.54	0.25	0.77	--	0.51	0.64	0.47	0.39	2.74	3.57	3.37	9.75	9.00	3.32	4.61	8.03	3.93	3.05	2.73	3.69	1.55	1.34	2.46	2.54	Diurnal Maximum	
Z - zerospan C - Calibration																																																	
Alberta Ambient Air Quality Objectives (AAQO): 1-hr 172 ppb 24-hr 48 ppb																																																	



WCAS - Hinton
Summary of Hourly Averages

Hydrogen Sulphide (H2S) - ppb
April 2018

Maximum Value: 19.68 ppb on Apr 28 07:00		Maximum Daily Average: 1.88 ppb on Apr 28		Hours in Service: 720																																													
Minimum Value: 0 ppb on Apr 19 15:00		Minimum Daily Average: 0.00 ppb on Apr 29		Hours of Data: 685																																													
Maximum Diurnal Average: 1.72 ppb at hour 7		Minimum Diurnal Average: 0.49 ppb at hour 18		Hours of Missing Data: 35																																													
Monthly Average: 0.915 ppb		Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.2 Median = 0.8 Q ₃ = 1.0 P ₉₀ = 1.8 P ₉₉ = 4.9		Hours of Calibration: 35																																													
				Percent Operational Time: 100.0																																													
Day	Hourly Period Ending At																								Daily Average	Daily Maximum																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																									
1-Apr	1	1	1	Z	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.84	1.03																							
2-Apr	1	1	1	Z	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.02	2.05																							
3-Apr	1	1	1	Z	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.88	1.08																							
4-Apr	1	1	1	Z	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.91	1.41																							
5-Apr	1	1	1	Z	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.87	0.95																							
6-Apr	1	1	1	Z	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.86	0.97																							
7-Apr	1	1	1	Z	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.83	0.92																							
8-Apr	1	1	1	Z	1	1	1	1	1	1	2	1	1	2	2	1	1	1	1	1	1	1	1	0	0.87	1.89																							
9-Apr	1	4	2	Z	1	2	3	2	3	3	3	1	1	1	1	2	1	1	1	1	1	1	1	1	1.79	4.45																							
10-Apr	3	2	2	Z	2	2	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.21	2.93																							
11-Apr	1	1	1	Z	1	2	2	3	5	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.38	5.40																							
12-Apr	1	1	1	Z	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.80	0.88																							
13-Apr	1	1	1	Z	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1.37	3.37																							
14-Apr	1	2	2	Z	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	1	1.16	3.39																							
15-Apr	1	1	2	Z	1	1	1	2	4	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.20	4.24																							
16-Apr	1	1	1	Z	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.79	0.87																							
17-Apr	1	1	1	Z	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	0.99	3.04																							
18-Apr	1	2	2	Z	2	3	3	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	3	4	1.69	4.16																							
19-Apr	4	4	2	Z	2	2	2	2	1	C	C	C	C	C	0	0	0	0	0	0	1	0	0	1	0	1.15	4.03																						
20-Apr	0	0	0	Z	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.20	1.03																						
21-Apr	0	0	1	Z	1	1	1	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.44	4.90																						
22-Apr	2	7	3	Z	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.71	6.61																							
23-Apr	1	1	0	Z	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.42	2.51																						
24-Apr	0	0	1	Z	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0.18	1.49																						
25-Apr	0	0	0	Z	1	1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	0	0.53	2.95																						
26-Apr	0	0	0	Z	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.19	1.67																						
27-Apr	3	1	2	Z	1	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	2	1	4	9	4	1.34	8.88																						
28-Apr	2	2	0	Z	0	3	20	10	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.88	19.68																						
29-Apr	0	0	0	Z	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.05																						
30-Apr	0	1	1	Z	1	1	2	7	5	1	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1.01	6.78																						
																								0.99	1.26	1.09	--	1.02	1.15	1.72	1.69	1.53	1.07	0.78	0.62	0.57	0.56	0.54	0.56	0.55	0.49	0.55	0.72	0.82	0.75	1.06	0.94	Diurnal Average	
																								4.03	6.61	3.47	--	3.37	3.24	19.68	9.52	5.40	4.10	2.65	1.89	1.43	1.38	1.68	1.59	1.84	1.04	1.30	1.81	3.04	3.95	8.88	4.16	Diurnal Maximum	
Z - zerospan C - Calibration																																																	
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 10 ppb 24-hr 3 ppb																																																	



WCAS - Hinton
Summary of Hourly Averages

Ozone (O₃) - ppb
April 2018

Maximum Value: 56.56 ppb on Apr 10 18:00	Maximum Daily Average: 46.12 ppb on Apr 24	Hours in Service: 720
Minimum Value: 0.5 ppb on Apr 10 06:00	Minimum Daily Average: 20.96 ppb on Apr 9	Hours of Data: 685
Maximum Diurnal Average: 47.61 ppb at hour 18	Minimum Diurnal Average: 18.91 ppb at hour 7	Hours of Missing Data: 35
Monthly Average: 35.171 ppb	Percentiles: P ₁ = 1.1 P ₁₀ = 11.1 Q ₁ = 26.1 Median = 39.7 Q ₃ = 46.7 P ₉₀ = 50.6 P ₉₉ = 55.2	Hours of Calibration: 35
		Percent Operational Time: 100.0

Day	Hourly Period Ending At																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Apr	16.3	12.9	14.2	Z	13.2	18.1	19.8	20.1	20.7	29.9	39.8	43.9	46.7	48.8	49.5	50.4	49.9	50.7	50.5	47.4	27.6	16.5	24.6	30.6	32.28	50.68
2-Apr	29.7	18.1	21.1	Z	10.1	7.2	15.7	18.1	14.9	30.6	41.7	45.3	48.3	48.4	49.7	50.1	50.8	51.5	48.7	47.4	46.0	43.6	25.9	21.3	34.10	51.46
3-Apr	17.7	12.3	9.6	Z	18.5	20.6	22.7	21.8	33.4	41.7	43.0	44.9	48.4	47.2	46.3	45.1	44.8	45.6	46.0	42.9	42.6	40.8	41.5	38.7	35.49	48.41
4-Apr	40.5	37.7	37.5	Z	25.6	30.0	29.3	34.6	32.3	31.2	40.7	41.0	42.8	42.3	42.6	44.6	44.5	45.4	45.4	44.5	42.6	40.4	40.6	39.7	38.95	45.37
5-Apr	38.0	34.4	29.2	Z	31.7	28.8	28.2	25.8	27.0	33.9	39.8	42.3	42.5	42.5	41.9	42.2	41.8	42.5	42.1	41.1	40.0	37.9	39.9	39.4	37.09	42.54
6-Apr	36.2	35.3	35.0	Z	33.4	32.3	29.4	32.2	33.1	33.0	36.6	38.3	39.5	40.8	41.1	42.6	42.6	43.4	44.7	43.8	42.3	41.7	41.8	40.1	38.22	44.66
7-Apr	39.4	39.7	37.2	Z	36.2	34.9	31.9	32.7	34.8	36.2	37.2	38.0	37.0	36.7	38.6	40.1	42.2	43.0	43.4	41.1	41.2	40.1	41.5	43.0	38.52	43.37
8-Apr	42.5	41.8	40.7	Z	38.3	37.2	36.1	35.2	34.8	36.6	36.9	40.7	41.1	40.6	41.7	39.3	41.8	42.7	39.2	32.7	12.8	9.0	3.8	11.4	33.78	42.74
9-Apr	8.2	4.1	8.9	Z	10.9	7.5	11.3	14.7	22.5	25.0	32.4	33.9	37.7	40.1	39.5	36.1	36.1	38.8	34.8	25.5	6.7	2.5	3.3	1.5	20.96	40.08
10-Apr	3.0	0.7	0.5	Z	0.7	0.5	1.0	4.4	8.1	18.8	33.4	38.3	44.0	44.2	44.3	44.8	53.0	56.6	55.2	52.1	49.9	48.1	43.4	35.6	29.58	56.56
11-Apr	36.7	27.3	20.7	Z	1.8	1.6	1.1	4.1	11.0	23.0	43.0	50.0	50.5	48.3	48.7	50.6	52.0	52.9	52.9	52.2	46.2	46.5	47.0	44.4	35.31	52.91
12-Apr	42.3	42.1	44.0	Z	48.2	49.8	46.1	41.7	50.5	52.1	46.3	39.5	39.3	38.9	39.1	40.1	40.5	40.9	41.5	41.1	40.0	36.7	38.7	35.5	42.39	52.11
13-Apr	18.8	20.4	15.2	Z	8.8	2.7	1.5	4.3	19.6	28.0	43.5	48.0	48.2	49.3	49.5	48.8	46.8	49.0	48.9	45.0	43.8	26.8	37.0	41.4	32.41	49.51
14-Apr	36.5	21.2	32.3	Z	44.2	47.5	42.9	36.0	40.7	50.5	51.5	52.3	52.3	53.0	50.9	52.3	52.5	52.0	52.4	49.1	50.1	45.7	36.6	24.3	44.64	52.98
15-Apr	26.9	23.5	21.3	Z	17.0	16.4	11.1	9.1	15.4	29.5	49.9	50.3	49.4	49.0	51.3	52.6	53.8	52.4	50.9	50.8	48.6	44.0	37.3	33.8	36.71	53.82
16-Apr	30.3	27.9	30.8	Z	29.5	28.8	26.5	26.2	29.4	34.4	33.4	32.3	35.9	39.0	38.1	36.8	35.2	33.0	29.8	29.0	25.7	23.0	18.5	17.4	30.05	39.02
17-Apr	26.1	25.6	27.1	Z	19.6	19.5	24.5	26.3	31.0	32.1	33.3	36.6	36.0	35.3	35.0	40.9	47.7	48.7	47.2	38.2	34.1	36.7	20.8	22.1	32.36	48.68
18-Apr	14.2	9.6	8.0	Z	1.1	1.9	1.9	5.4	18.9	41.0	48.3	49.3	50.0	51.5	50.8	50.5	50.3	49.2	47.1	45.9	42.6	35.0	15.5	17.1	30.66	51.51
19-Apr	13.2	5.5	3.4	Z	1.0	1.1	1.6	17.4	32.9	C	C	C	C	C	48.3	48.7	50.9	49.2	45.9	42.3	44.1	45.9	42.7	42.1	29.79	50.86
20-Apr	33.6	18.4	17.8	Z	13.2	7.2	8.9	11.8	13.0	36.4	46.5	46.6	49.2	50.5	47.3	48.6	49.0	51.4	45.7	44.8	43.2	32.0	20.7	18.1	32.78	51.42
21-Apr	13.3	12.7	11.3	Z	7.9	5.9	5.0	12.7	27.7	44.9	47.7	46.5	47.1	47.2	48.3	51.3	51.6	49.0	45.6	47.2	49.1	46.3	44.4	43.5	35.05	51.55
22-Apr	38.4	39.3	40.1	Z	44.6	41.2	43.6	44.5	43.0	46.6	47.6	47.4	47.8	47.6	47.8	47.8	47.8	47.5	49.0	46.9	46.6	38.1	30.9	18.3	43.15	49.03
23-Apr	15.2	18.5	7.8	Z	9.9	7.2	3.8	32.1	39.0	43.2	46.6	49.3	51.1	52.4	52.6	51.6	51.1	52.8	53.8	48.7	44.9	47.6	45.7	37.9	37.52	53.81
24-Apr	40.6	39.2	36.2	Z	39.1	39.4	42.4	43.3	41.9	45.2	44.6	48.4	51.3	53.7	54.4	55.3	55.1	54.6	50.3	47.7	47.3	42.8	40.2	47.4	46.12	55.34
25-Apr	50.6	44.7	36.6	Z	18.1	12.5	14.2	24.5	50.2	54.3	55.2	55.0	55.4	55.3	55.7	56.5	56.2	53.8	53.2	46.2	45.1	31.9	18.5	14.1	41.65	56.50
26-Apr	15.3	17.9	11.3	Z	8.8	6.7	5.4	20.8	40.7	46.1	47.2	47.5	48.4	48.9	49.8	50.0	49.7	49.5	49.5	47.2	42.1	24.8	26.1	16.6	33.50	50.00
27-Apr	13.1	10.6	11.1	Z	7.6	5.7	7.6	12.5	26.2	31.7	38.0	40.1	43.1	44.8	45.4	44.9	45.4	44.6	42.3	39.5	32.0	27.7	17.4	12.4	27.98	45.42
28-Apr	9.7	12.5	15.9	Z	16.2	14.3	12.4	21.4	29.7	32.6	36.5	41.3	45.4	49.2	51.5	46.7	46.8	46.0	44.3	43.5	43.1	34.3	35.1	52.0	33.94	52.02
29-Apr	53.7	48.2	44.2	Z	45.0	40.3	39.4	39.2	38.9	38.3	35.7	35.0	34.3	33.9	34.3	35.8	37.7	39.2	38.2	32.3	30.4	16.1	9.4	13.2	35.33	53.73
30-Apr	9.7	7.8	3.7	Z	1.5	1.5	2.1	8.0	16.8	26.9	36.4	48.4	51.4	51.6	53.6	54.2	51.4	52.6	51.5	48.8	43.1	49.4	51.0	52.8	33.66	54.24

26.99	23.67	22.43	--	20.06	18.94	18.91	22.70	29.27	36.34	41.81	43.80	45.32	45.90	46.25	46.65	47.31	47.61	46.34	43.49	39.79	35.06	31.33	30.20	Diurnal Average	
53.73	48.15	44.16	--	48.23	49.81	46.08	44.55	50.47	54.32	55.20	54.95	55.42	55.33	55.73	56.50	56.24	56.56	55.19	52.15	50.05	49.40	50.99	52.76	Diurnal Maximum	

Z - zerospan C - Calibration
 Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 82.5 ppb 24-hr -- ppb



WCAS - Hinton
Eight Hour Running Averages

Ozone (O₃) - ppb
April 2018

Maximum Value: 55.46 ppb on Apr 25 17:00		Maximum Daily Average: 45.83 ppb on Apr 24		Hours in Service: 720																																													
Minimum Value: 1.1 ppb on Apr 10 07:00		Minimum Daily Average: 21.38 ppb on Apr 9		Hours of Data: 711																																													
Maximum Diurnal Average: 46.12 ppb at hour 20		Minimum Diurnal Average: 21.96 ppb at hour 8		Hours of Missing Data: 9																																													
Monthly Average: 34.661 ppb		Percentiles: P ₁ = 5.0 P ₁₀ = 15.7 Q ₁ = 26.2 Median = 37.5 Q ₃ = 44.3 P ₉₀ = 48.6 P ₉₉ = 52.7		Hours of Calibration: 9																																													
				Percent Operational Time: 100.0																																													
Day	Hourly Period Ending At																								Daily Average	Daily Maximum																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																									
1-Apr	29.9	25.8	22.5	19.7	17.2	16.6	16.2	16.4	17.0	19.4	23.1	25.7	29.9	33.7	37.4	41.2	44.9	47.5	48.8	49.2	46.9	42.8	39.7	37.2	31.20	49.25																							
2-Apr	34.7	30.6	27.0	24.0	21.5	20.2	18.9	17.1	15.0	16.8	19.8	23.0	27.7	32.9	37.1	41.1	45.6	48.2	49.1	49.4	49.1	48.5	45.5	41.9	32.71	49.37																							
3-Apr	37.8	32.9	28.0	25.2	21.3	18.0	17.5	17.6	19.9	24.1	28.8	30.8	34.6	37.9	40.8	43.8	45.2	45.7	46.0	45.8	45.1	44.2	43.7	42.9	34.06	46.03																							
4-Apr	42.3	41.3	40.3	39.9	37.5	35.9	34.2	33.6	32.4	31.5	32.0	33.1	35.2	36.8	38.5	39.7	41.2	43.0	43.6	44.0	44.0	43.7	43.5	42.9	38.75	44.01																							
5-Apr	42.1	40.7	38.7	37.8	36.3	34.6	32.9	30.9	29.3	29.2	30.7	32.2	33.6	35.3	37.0	39.0	40.9	41.9	42.2	42.1	41.8	41.2	40.9	40.6	37.16	42.23																							
6-Apr	39.9	39.0	38.1	37.7	36.7	35.9	34.4	33.4	32.9	32.6	32.8	33.5	34.3	35.4	36.8	38.1	39.3	40.6	41.6	42.3	42.7	42.8	42.9	42.6	37.76	42.87																							
7-Apr	42.1	41.7	40.8	40.3	39.4	38.5	37.1	36.0	35.3	34.8	34.8	35.2	35.3	35.6	36.4	37.3	38.2	39.1	39.9	40.3	40.8	41.2	41.6	41.9	38.49	42.15																							
8-Apr	42.0	41.8	41.5	41.6	41.1	40.7	39.9	38.8	37.7	37.0	36.4	37.0	37.3	37.8	38.5	39.0	39.8	40.6	40.9	39.9	36.4	32.4	27.7	24.2	37.92	41.98																							
9-Apr	20.0	15.1	11.3	8.3	8.0	7.8	8.9	9.4	11.4	14.4	17.8	19.8	23.1	27.2	30.7	33.4	35.1	36.8	37.1	36.1	32.2	27.5	23.0	18.7	21.38	37.13																							
10-Apr	14.5	9.8	5.5	2.6	1.8	1.5	1.1	1.5	2.3	4.9	9.6	13.1	18.6	24.0	29.4	34.5	40.1	44.8	47.5	49.3	50.0	50.5	50.4	49.2	23.18	50.50																							
11-Apr	47.2	43.5	39.2	37.4	30.5	23.9	17.8	13.3	9.6	9.0	12.2	16.9	23.0	28.9	34.8	40.6	45.7	49.5	50.7	51.0	50.5	50.2	50.0	49.3	34.37	50.99																							
12-Apr	48.0	46.7	45.6	44.6	44.9	45.4	45.3	44.9	46.1	47.5	47.8	46.8	45.7	44.3	43.4	43.2	42.0	40.6	40.0	40.2	40.3	40.0	39.9	39.4	43.85	48.04																							
13-Apr	36.7	34.1	30.8	29.4	24.9	20.0	14.7	10.2	10.4	11.4	15.5	19.6	24.5	30.3	36.3	41.9	45.3	47.9	48.6	48.2	47.6	44.8	43.3	42.3	31.61	48.58																							
14-Apr	41.1	37.6	35.5	34.1	34.2	37.2	38.0	37.2	37.8	42.0	44.8	45.7	46.7	47.4	48.4	50.4	51.9	52.1	52.2	51.8	51.5	50.6	48.8	45.3	44.27	52.22																							
15-Apr	42.1	38.6	34.7	32.6	27.9	23.7	20.1	17.9	16.3	17.1	21.2	24.8	28.9	33.0	38.0	43.4	48.2	51.1	51.2	51.3	51.2	50.5	48.8	46.5	35.79	51.27																							
16-Apr	43.5	40.4	37.9	36.1	33.4	31.2	29.7	28.6	28.5	29.4	29.7	30.1	30.9	32.1	33.6	34.9	35.6	35.5	35.0	34.6	33.3	31.3	28.9	26.5	32.94	43.51																							
17-Apr	25.3	24.4	24.1	23.4	22.5	22.0	22.8	24.1	24.8	25.7	26.6	27.8	29.9	31.9	33.2	35.0	37.1	39.2	40.9	41.1	40.9	41.1	39.3	36.9	30.83	41.13																							
18-Apr	32.7	27.9	23.0	20.8	16.1	11.1	8.4	6.0	6.7	11.2	16.9	21.0	27.1	33.3	39.4	45.1	49.0	50.0	49.8	49.4	48.5	46.4	42.0	37.8	29.98	50.00																							
19-Apr	33.2	27.7	22.3	18.9	13.0	8.1	6.1	6.2	9.0	9.6	Z	C	C	C	C	C	C	C	C	C	47.5	47.0	46.9	46.2	45.4	--	47.54																						
20-Apr	43.2	39.4	35.9	34.9	30.5	25.0	20.2	15.8	12.9	15.5	19.6	22.9	27.4	32.9	37.6	42.2	46.7	48.6	48.5	48.3	47.6	45.2	41.9	38.1	34.21	48.62																							
21-Apr	33.7	28.8	24.5	21.6	16.6	12.9	10.6	9.8	11.9	16.5	21.7	24.8	29.7	34.8	40.3	45.1	48.1	48.6	48.3	48.4	48.6	48.5	48.1	47.1	32.04	48.65																							
22-Apr	45.4	44.2	43.5	43.0	42.4	41.6	41.5	41.7	42.3	43.4	44.4	44.8	45.2	46.0	46.5	46.9	47.5	47.7	47.8	47.8	47.6	46.4	44.3	40.6	44.71	47.83																							
23-Apr	36.6	32.9	27.8	25.1	19.8	15.4	11.5	13.5	16.9	20.4	26.0	28.9	34.1	39.7	45.8	48.2	49.7	51.0	51.9	51.8	51.0	50.4	49.5	47.8	35.24	51.85																							
24-Apr	46.5	44.8	42.6	41.7	40.9	39.7	39.3	40.0	40.2	41.1	42.3	43.0	44.6	46.4	47.9	49.4	51.0	52.2	52.9	52.8	52.3	50.9	49.2	48.2	45.83	52.90																							
25-Apr	47.6	46.4	44.7	44.2	40.1	35.7	32.0	28.7	28.7	30.1	32.7	35.5	40.2	45.5	50.7	54.7	55.5	55.4	55.1	54.0	52.7	49.8	45.2	39.9	43.55	55.46																							
26-Apr	34.8	30.3	25.1	22.0	16.9	13.3	11.4	12.3	16.0	20.0	25.1	27.9	32.9	38.1	43.7	47.3	48.4	48.9	49.1	49.1	48.3	45.3	42.4	38.2	32.78	49.14																							
27-Apr	33.6	28.8	24.0	20.6	15.7	13.0	10.3	9.7	11.6	14.6	18.5	21.2	25.6	30.5	35.2	39.3	41.7	43.3	43.8	43.7	42.4	40.2	36.7	32.6	28.19	43.83																							
28-Apr	28.2	24.2	20.9	18.2	16.0	14.1	13.4	14.6	17.5	20.4	23.3	25.6	29.2	33.6	38.4	41.6	43.8	45.4	46.4	46.7	46.4	44.5	42.5	43.1	30.74	46.68																							
29-Apr	44.0	44.3	44.3	44.4	44.6	45.5	46.1	44.3	42.1	40.7	39.5	39.0	37.6	36.8	36.2	35.8	35.6	35.8	36.1	35.7	35.2	33.0	29.9	27.1	38.90	46.10																							
30-Apr	23.6	19.6	15.3	12.9	8.8	6.7	5.7	4.9	5.9	8.7	13.3	17.7	24.0	30.2	36.6	42.4	46.8	50.0	51.9	51.9	50.8	50.6	50.2	50.1	28.27	51.89																							
																								37.08	34.11	31.17	29.44	26.68	24.51	22.87	21.96	22.28	23.97	27.14	29.22	32.30	35.59	38.92	41.88	44.14	45.54	46.11	46.12	45.42	44.06	42.20	40.14	Diurnal Average	
																								48.04	46.69	45.58	44.64	44.94	45.49	46.10	44.89	46.06	47.49	47.81	46.77	46.71	47.39	50.72	54.71	55.46	55.39	55.14	54.04	52.75	50.95	50.39	50.06	Diurnal Maximum	
Z - zerospan		C - Calibration																																															



WCAS - Hinton
Summary of Hourly Averages

Nitrogen Oxide (NO) - ppb
April 2018

Maximum Value: 61.84 ppb on Apr 11 07:00		Maximum Daily Average: 8.01 ppb on Apr 10		Hours in Service: 720																																													
Minimum Value: 0.0 ppb on Apr 4 20:00		Minimum Daily Average: 0.13 ppb on Apr 22		Hours of Data: 684																																													
Maximum Diurnal Average: 9.38 ppb at hour 7		Minimum Diurnal Average: 0.30 ppb at hour 20		Hours of Missing Data: 36																																													
Monthly Average: 2.209 ppb		Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.2 Median = 0.7 Q ₃ = 1.7 P ₉₀ = 3.9 P ₉₉ = 32.7		Hours of Calibration: 36																																													
				Percent Operational Time: 100.0																																													
Day	Hourly Period Ending At																								Daily Average	Daily Maximum																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																									
1-Apr	0.1	3.3	1.1	Z	3.4	0.5	1.2	2.0	6.9	5.6	2.8	1.9	1.2	0.9	0.6	0.4	1.3	0.9	0.6	0.4	9.8	3.6	1.3	1.0	2.20	9.78																							
2-Apr	0.3	0.2	0.2	Z	0.9	2.6	0.3	4.7	29.0	14.0	6.0	2.9	1.4	1.5	0.9	1.1	1.3	0.5	0.7	0.6	0.7	0.8	1.4	1.0	3.16	28.97																							
3-Apr	2.7	1.5	3.0	Z	0.6	4.8	2.6	5.9	4.1	2.0	1.8	1.8	1.5	2.1	2.2	1.3	1.3	0.7	0.7	0.8	0.5	0.8	0.3	0.3	1.89	5.89																							
4-Apr	0.9	0.6	0.7	Z	0.8	0.0	0.1	0.4	1.8	6.4	2.6	1.6	1.0	0.7	0.5	0.6	0.6	0.2	0.1	0.0	0.2	0.2	0.2	0.1	0.88	6.40																							
5-Apr	0.2	0.1	0.6	Z	0.6	1.0	1.9	4.5	6.6	2.7	1.8	1.6	1.4	1.1	1.3	1.0	1.2	0.7	0.6	0.3	0.8	0.5	0.4	0.2	1.36	6.65																							
6-Apr	0.4	0.7	1.5	Z	0.9	1.6	2.4	2.6	4.3	5.9	3.4	3.1	3.0	2.3	3.0	1.7	1.9	1.3	0.5	0.3	0.4	0.5	0.1	0.6	1.84	5.87																							
7-Apr	1.6	0.4	0.5	Z	0.8	0.4	1.8	1.8	2.0	2.2	2.0	1.9	2.0	2.1	1.5	1.6	1.3	0.8	0.4	0.5	0.4	1.1	0.2	0.2	1.19	2.17																							
8-Apr	0.4	0.2	0.5	Z	0.7	0.6	0.3	1.3	1.2	1.5	2.7	3.2	3.0	3.0	2.9	2.2	1.3	0.7	0.5	0.8	7.4	3.3	18.3	2.3	2.54	18.25																							
9-Apr	0.6	0.4	0.3	Z	3.4	1.2	1.3	3.3	4.0	7.6	6.9	2.7	2.3	0.8	2.1	2.6	1.6	0.2	0.0	1.9	13.9	15.7	8.8	10.0	3.99	15.75																							
10-Apr	2.9	12.9	22.2	Z	35.6	32.4	30.4	15.1	14.4	7.6	1.8	1.0	0.7	0.9	0.8	0.8	0.7	0.7	0.4	0.2	0.4	0.4	0.9	1.2	8.01	35.56																							
11-Apr	0.6	2.5	1.6	Z	12.4	17.3	61.8	36.3	25.9	12.8	3.0	1.1	0.5	0.8	1.0	0.2	0.2	0.2	0.1	0.0	0.4	1.1	0.1	0.3	7.82	61.84																							
12-Apr	1.5	0.2	0.3	Z	0.7	1.5	1.3	1.8	1.2	1.0	0.9	0.7	0.5	0.5	0.8	0.7	0.4	0.5	0.2	0.2	0.2	2.1	0.3	0.2	0.77	2.08																							
13-Apr	4.9	0.1	0.4	Z	2.1	16.9	34.2	39.4	10.7	6.7	2.2	1.6	1.3	0.9	0.7	0.2	0.4	0.2	0.2	0.3	0.8	3.9	0.3	0.0	5.58	39.39																							
14-Apr	0.2	1.0	0.0	Z	0.2	0.3	0.4	2.5	1.8	0.8	1.0	0.7	1.1	0.5	1.4	0.6	0.4	0.2	0.0	0.0	0.0	0.0	1.2	2.3	0.72	2.51																							
15-Apr	0.0	0.3	0.1	Z	0.5	0.3	1.4	2.9	3.2	2.0	0.4	0.6	0.7	1.0	0.5	0.4	0.4	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.67	3.20																							
16-Apr	0.1	0.1	0.2	Z	0.3	0.1	0.6	1.2	1.7	0.7	1.0	2.2	1.5	1.7	0.9	1.2	1.0	0.7	0.4	0.2	0.1	0.0	0.1	0.0	0.69	2.25																							
17-Apr	0.1	0.3	0.4	Z	2.1	4.0	2.1	2.0	1.4	2.2	1.2	0.9	2.4	2.7	2.7	0.8	0.1	0.2	0.2	0.5	0.2	0.2	1.8	1.0	1.28	4.01																							
18-Apr	1.1	1.4	1.3	Z	6.9	17.5	21.3	25.5	13.1	2.3	1.1	1.1	0.8	0.4	0.8	0.7	0.6	0.6	0.1	0.0	0.0	0.5	0.4	0.1	4.25	25.55																							
19-Apr	0.1	5.0	3.3	Z	19.0	35.7	44.0	9.0	1.4	C	C	C	C	C	C	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	43.95																							
20-Apr	0.0	3.3	0.1	Z	0.6	3.7	3.3	5.4	8.5	2.6	1.2	1.7	1.0	0.9	1.7	0.7	0.5	0.4	0.8	0.5	0.6	0.6	0.7	1.8	1.75	8.54																							
21-Apr	0.4	0.2	0.2	Z	0.5	6.9	6.9	3.8	3.1	1.1	0.5	0.9	0.8	0.8	0.3	0.4	0.2	0.1	0.6	0.1	0.0	0.0	0.0	0.1	1.21	6.92																							
22-Apr	0.1	0.0	0.0	Z	0.0	0.0	0.1	0.3	1.0	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.13	1.00																							
23-Apr	1.0	0.1	3.1	Z	1.1	4.3	30.2	1.7	1.2	0.9	1.0	1.5	1.9	1.6	0.8	0.8	0.9	0.4	0.2	0.2	0.1	0.1	0.1	0.1	2.32	30.23																							
24-Apr	0.0	0.0	0.0	Z	0.1	0.1	0.1	0.2	0.5	0.5	1.0	1.0	1.8	0.9	0.6	0.4	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.36	1.81																							
25-Apr	0.0	0.0	0.1	Z	2.3	3.2	9.1	4.1	1.1	0.6	0.6	1.1	0.9	1.0	1.5	0.8	0.8	0.7	0.2	0.2	0.0	0.4	0.6	0.1	1.28	9.06																							
26-Apr	0.0	0.1	0.4	Z	1.0	2.1	14.8	1.7	0.7	0.8	1.3	1.4	0.8	0.6	0.9	0.4	0.4	0.4	0.3	0.5	0.1	0.6	0.5	0.8	1.32	14.79																							
27-Apr	0.0	0.2	0.0	Z	0.0	0.6	1.5	5.6	1.5	2.6	1.8	2.2	2.3	1.5	1.0	0.6	1.1	1.2	0.8	0.0	0.0	0.3	0.0	0.0	1.09	5.64																							
28-Apr	1.7	0.0	0.0	Z	0.0	0.1	0.4	0.5	0.9	1.7	1.7	0.5	0.8	0.4	0.2	0.6	0.3	0.0	0.0	0.1	0.0	1.2	0.4	0.1	0.50	1.70																							
29-Apr	0.0	0.0	0.0	Z	0.1	0.0	0.0	0.1	0.0	0.0	0.3	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.4	0.2	0.0	0.6	0.3	0.1	0.23	0.67																							
30-Apr	0.1	0.1	0.5	Z	6.3	2.3	5.9	5.9	2.8	2.1	2.4	1.6	1.2	0.7	0.7	0.5	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	1.49	6.28																							
																								0.73	1.17	1.42	--	3.46	5.39	9.38	6.39	5.21	3.35	1.88	1.49	1.31	1.13	1.13	0.82	0.73	0.44	0.31	0.30	1.24	1.30	1.30	0.81	Diurnal Average	
																								4.86	12.91	22.15	--	35.56	35.68	61.84	39.39	28.97	13.96	6.91	3.21	2.99	3.03	2.96	2.57	1.89	1.31	0.85	1.91	13.92	15.75	18.25	10.03	Diurnal Maximum	
Z - zerospan C - Calibration																																																	
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr --- ppb 24-hr --- ppb																																																	



WCAS - Hinton
Summary of Hourly Averages

Nitrogen Dioxide (NO₂) - ppb
April 2018

Maximum Value: 34.81 ppb on Apr 1 22:00		Maximum Daily Average: 15.75 ppb on Apr 9		Hours in Service: 720																																													
Minimum Value: 0.4 ppb on Apr 21 21:00		Minimum Daily Average: 2.56 ppb on Apr 28		Hours of Data: 684																																													
Maximum Diurnal Average: 12.26 ppb at hour 7		Minimum Diurnal Average: 2.64 ppb at hour 18		Hours of Missing Data: 36																																													
Monthly Average: 7.007 ppb		Percentiles: P ₁ = 0.4 P ₁₀ = 1.8 Q ₁ = 2.7 Median = 4.9 Q ₃ = 9.0 P ₉₀ = 16.2 P ₉₉ = 28.7		Hours of Calibration: 36																																													
				Percent Operational Time: 100.0																																													
Day	Hourly Period Ending At																								Daily Average	Daily Maximum																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																									
1-Apr	14.2	12.1	11.4	Z	14.4	8.2	8.7	6.8	9.6	7.5	4.5	3.4	2.5	2.0	2.0	2.0	3.4	2.9	3.5	6.1	28.2	34.8	23.5	13.4	9.79	34.81																							
2-Apr	11.0	24.5	18.8	Z	26.2	27.9	17.7	14.0	27.7	18.5	8.6	4.3	2.7	2.9	2.3	2.4	2.6	1.8	3.2	3.7	3.8	5.0	19.7	20.7	11.74	27.90																							
3-Apr	22.8	26.2	28.2	Z	17.7	16.6	14.7	17.4	10.5	4.7	4.0	3.7	3.4	5.1	5.4	6.1	6.4	5.6	5.3	8.0	7.9	10.0	9.2	11.3	10.89	28.24																							
4-Apr	9.0	10.2	10.1	Z	17.4	13.7	14.2	9.8	13.0	17.4	5.8	3.7	2.5	2.1	1.8	2.3	2.5	1.5	1.5	1.5	3.7	4.7	3.5	4.1	6.79	17.45																							
5-Apr	5.5	7.7	12.0	Z	7.6	10.6	9.4	11.6	11.8	6.5	3.4	2.4	2.0	1.9	2.4	2.1	2.7	2.3	2.2	2.3	4.5	5.8	3.8	3.5	5.40	11.99																							
6-Apr	5.6	6.0	6.0	Z	7.3	8.7	11.0	7.9	7.8	8.9	5.5	4.5	4.8	4.6	5.2	4.3	5.0	4.8	4.2	4.5	4.6	5.0	4.6	6.0	5.95	11.04																							
7-Apr	6.4	5.1	6.9	Z	7.1	7.5	9.5	8.1	6.0	4.8	4.2	3.8	4.2	4.2	4.0	4.2	3.9	3.4	3.2	4.8	5.2	7.1	5.0	3.7	5.32	9.51																							
8-Apr	3.9	3.5	4.1	Z	4.7	5.2	5.1	5.7	6.5	4.8	5.3	7.1	7.2	8.6	9.6	10.1	6.5	5.0	7.1	11.8	30.4	28.0	30.5	18.5	9.97	30.53																							
9-Apr	20.9	24.6	16.2	Z	20.1	22.5	19.1	17.0	11.7	18.3	15.7	7.8	7.5	3.8	5.6	10.4	9.2	3.0	5.2	12.9	30.7	28.9	26.7	24.5	15.75	30.65																							
10-Apr	18.8	20.6	20.1	Z	17.5	18.8	15.5	13.5	12.2	9.2	5.0	3.3	2.9	2.7	2.9	5.4	5.5	5.7	5.9	6.8	7.1	7.7	10.3	11.0	9.92	20.58																							
11-Apr	11.4	15.4	13.8	Z	30.4	28.7	29.2	24.1	23.6	16.0	7.7	3.5	2.2	3.0	3.2	2.5	2.2	3.2	2.9	2.9	5.7	5.5	3.8	3.9	10.64	30.37																							
12-Apr	5.1	4.5	5.0	Z	5.9	6.7	9.1	10.7	6.4	5.6	6.5	5.7	5.6	6.1	6.8	6.4	5.6	5.5	4.4	4.9	5.7	7.3	4.4	5.6	6.07	10.75																							
13-Apr	18.2	8.1	16.1	Z	16.4	19.5	21.1	18.4	12.3	11.1	5.3	4.4	4.4	3.7	3.1	1.4	3.5	1.2	1.2	4.4	5.6	17.0	8.3	4.4	9.09	21.07																							
14-Apr	4.3	11.9	7.5	Z	3.0	4.4	5.1	11.6	7.8	4.0	3.4	2.1	3.2	1.5	3.9	2.2	1.9	2.6	1.8	3.9	3.4	4.2	7.7	13.0	4.98	12.96																							
15-Apr	5.4	6.5	5.2	Z	7.9	8.9	15.0	12.9	13.2	9.6	3.4	3.6	3.1	3.5	2.5	2.1	1.9	1.8	1.6	1.7	3.2	4.6	6.4	8.6	5.76	14.98																							
16-Apr	6.9	5.4	4.3	Z	4.9	3.6	5.9	9.0	6.7	3.8	4.1	5.1	3.6	4.4	2.7	3.5	3.3	3.1	2.9	2.5	3.7	1.3	5.8	7.3	4.52	9.03																							
17-Apr	2.0	4.2	4.2	Z	10.8	12.4	9.0	7.6	4.6	4.7	3.8	1.9	3.7	4.2	4.5	2.0	0.8	0.7	0.7	8.3	10.5	4.4	15.2	14.3	5.85	15.20																							
18-Apr	15.7	18.8	22.0	Z	23.3	18.6	16.3	19.3	15.2	6.3	3.4	3.1	2.4	1.0	2.3	2.6	2.2	1.8	0.9	3.8	5.2	7.4	17.2	8.4	9.45	23.31																							
19-Apr	8.2	14.7	16.6	Z	19.8	23.6	25.3	12.3	5.5	C	C	C	C	C	C	5.6	2.8	4.6	7.5	9.1	6.6	4.6	5.5	3.5	--	25.30																							
20-Apr	4.5	18.0	12.8	Z	8.3	15.5	12.1	10.9	12.8	10.6	6.3	7.0	3.7	3.2	6.9	4.2	3.0	1.9	6.5	7.5	7.6	13.5	18.8	15.2	9.17	18.81																							
21-Apr	15.4	11.0	12.2	Z	9.6	10.1	13.1	10.4	11.9	3.6	2.0	3.1	2.1	1.7	1.3	1.3	0.5	0.5	4.2	1.2	0.4	1.4	2.8	4.7	5.40	15.36																							
22-Apr	4.9	1.9	1.9	Z	1.2	3.4	3.3	3.4	4.9	1.0	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	1.0	0.9	8.9	9.4	10.7	2.64	10.75																							
23-Apr	14.0	11.0	17.9	Z	12.5	13.0	21.0	6.0	3.6	2.2	2.1	2.6	2.8	2.4	2.0	2.6	3.3	1.8	1.3	6.1	6.5	3.2	4.2	7.4	6.50	21.00																							
24-Apr	2.3	2.4	2.3	Z	2.6	2.0	5.0	4.8	7.2	4.2	5.7	5.0	6.3	3.3	2.6	2.1	2.6	2.6	3.6	1.4	2.1	5.0	5.1	2.8	3.61	7.17																							
25-Apr	2.0	2.2	5.7	Z	12.6	26.7	28.6	13.0	5.8	2.5	2.3	2.0	1.9	2.8	3.2	3.4	4.0	4.1	2.5	5.3	1.9	11.4	16.1	14.1	7.56	28.57																							
26-Apr	10.5	5.4	6.7	Z	5.8	7.9	9.7	5.5	3.4	2.5	3.2	2.6	2.1	1.9	2.5	1.7	1.9	2.2	1.7	3.4	3.5	12.3	9.7	10.5	5.07	12.31																							
27-Apr	6.2	5.6	3.9	Z	4.0	5.8	5.1	7.1	3.8	6.4	5.6	6.4	6.2	3.5	2.4	1.9	3.1	2.1	2.9	1.5	6.4	3.8	4.4	5.5	4.51	7.09																							
28-Apr	4.5	2.1	2.0	Z	2.2	2.7	3.4	2.8	3.3	5.0	4.6	1.3	2.3	1.3	1.1	3.0	2.4	0.6	0.5	2.2	0.5	5.3	4.8	1.2	2.56	5.29																							
29-Apr	1.0	1.0	0.9	Z	1.6	1.6	1.5	1.4	1.1	0.9	1.5	2.2	2.2	2.1	1.6	1.6	1.7	2.0	3.9	3.2	1.9	10.5	9.7	5.2	2.62	10.47																							
30-Apr	2.7	2.2	6.2	Z	9.2	6.5	4.1	5.9	5.0	4.4	4.8	3.6	2.7	2.3	2.4	1.7	3.5	0.5	0.5	1.8	0.9	1.0	1.5	0.7	3.22	9.16																							
																								8.78	9.76	10.03	--	11.06	12.04	12.26	10.30	9.17	7.07	4.76	3.79	3.48	3.11	3.34	3.38	3.27	2.64	3.12	4.62	6.94	8.98	9.93	8.79	Diurnal Average	
																								22.83	26.22	28.24	--	30.37	28.72	29.25	24.08	27.74	18.46	15.69	7.81	7.47	8.60	9.58	10.36	9.18	5.66	7.46	12.94	30.65	34.81	30.53	24.48	Diurnal Maximum	
Z - zerospan C - Calibration																																																	
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb 24-hr 106 ppb																																																	



WCAS - Hinton
Summary of Hourly Averages

NOx (NO_x) - ppb
April 2018

Maximum Value: 91.48 ppb on Apr 11 07:00		Maximum Daily Average: 19.88 ppb on Apr 9		Hours in Service: 720																						
Minimum Value: 0.3 ppb on Apr 21 21:00		Minimum Daily Average: 2.74 ppb on Apr 22		Hours of Data: 684																						
Maximum Diurnal Average: 21.79 ppb at hour 7		Minimum Diurnal Average: 3.10 ppb at hour 18		Hours of Missing Data: 36																						
Monthly Average: 9.278 ppb		Percentiles: P ₁ = 0.4 P ₁₀ = 2.0 Q ₁ = 3.4 Median = 5.9 Q ₃ = 10.6 P ₉₀ = 20.5 P ₉₉ = 53.7		Hours of Calibration: 36																						
				Percent Operational Time: 100.0																						
Day	Hourly Period Ending At																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Apr	14.5	15.5	12.7	Z	18.0	8.9	10.0	8.9	16.7	13.3	7.4	5.4	3.7	2.9	2.6	2.4	4.7	3.8	4.1	6.6	38.2	38.7	25.0	14.4	12.11	38.73
2-Apr	11.4	24.9	19.1	Z	27.3	30.6	18.1	18.8	57.1	32.6	14.7	7.3	4.2	4.4	3.2	3.5	4.0	2.3	3.9	4.3	4.5	5.9	21.3	21.8	15.01	57.05
3-Apr	25.7	27.9	31.5	Z	18.4	21.6	17.5	23.4	14.7	6.8	5.9	5.5	4.9	7.3	7.7	7.4	7.8	6.3	6.1	8.9	8.5	10.9	9.6	11.8	12.89	31.49
4-Apr	10.0	10.9	11.0	Z	18.4	13.9	14.5	10.4	15.0	24.0	8.5	5.4	3.5	2.8	2.4	3.0	3.2	1.8	1.6	1.5	3.8	4.9	3.7	4.2	7.75	24.00
5-Apr	5.7	7.9	12.7	Z	8.4	11.7	11.4	16.3	18.7	9.3	5.3	4.1	3.4	3.0	3.7	3.1	3.9	3.0	2.8	2.7	5.4	6.4	4.2	3.8	6.82	18.65
6-Apr	6.1	6.7	7.6	Z	8.3	10.4	13.6	10.6	12.3	14.9	9.0	7.7	7.7	6.9	8.2	6.0	6.9	6.2	4.7	4.8	5.0	5.5	4.7	6.7	7.84	14.90
7-Apr	8.1	5.5	7.5	Z	8.0	7.9	11.4	9.9	8.1	7.0	6.2	5.8	6.2	6.3	5.5	5.8	5.2	4.2	3.6	5.4	5.6	8.3	5.2	3.9	6.55	11.37
8-Apr	4.3	3.7	4.6	Z	5.5	5.9	5.4	7.0	7.8	6.4	8.1	10.4	10.4	11.8	12.6	12.5	7.8	5.8	7.7	12.7	38.1	31.5	49.1	21.0	12.61	49.11
9-Apr	21.6	25.2	16.7	Z	23.7	23.9	20.6	20.5	15.9	26.0	22.8	10.6	9.8	4.6	7.8	13.1	10.9	3.2	5.3	14.9	44.9	44.9	35.8	34.7	19.88	44.89
10-Apr	21.9	33.7	42.4	Z	53.3	51.4	46.1	28.8	26.7	17.0	6.9	4.3	3.7	3.7	3.7	6.3	6.2	6.4	6.3	7.1	7.5	8.2	11.3	12.4	18.05	53.28
11-Apr	12.1	18.0	15.5	Z	43.0	46.3	91.5	60.8	49.8	29.0	10.8	4.6	2.7	3.8	4.2	2.7	2.4	3.5	3.1	2.9	6.1	6.7	3.9	4.2	18.59	91.48
12-Apr	6.6	4.7	5.3	Z	6.6	8.3	10.5	12.7	7.7	6.7	7.5	6.5	6.1	6.7	7.6	7.2	6.1	6.0	4.7	5.1	6.0	9.5	4.7	5.9	6.91	12.73
13-Apr	23.3	8.3	16.7	Z	18.6	36.6	55.5	58.1	23.2	18.0	7.6	6.1	5.8	4.6	3.9	1.7	3.9	1.4	1.4	4.7	6.5	21.1	8.7	4.5	14.79	58.07
14-Apr	4.6	13.1	7.6	Z	3.2	4.8	5.5	14.2	9.8	4.9	4.4	2.8	4.4	2.0	5.4	2.8	2.4	2.9	1.7	3.8	3.3	4.1	9.0	15.4	5.74	15.40
15-Apr	5.5	6.9	5.3	Z	8.5	9.3	16.5	16.0	16.5	11.8	3.8	4.2	3.8	4.6	3.0	2.5	2.3	2.0	1.8	1.8	3.3	4.7	6.7	8.9	6.51	16.55
16-Apr	7.0	5.5	4.6	Z	5.2	3.8	6.6	10.3	8.6	4.5	5.1	7.4	5.2	6.2	3.6	4.7	4.3	3.9	3.3	2.7	3.9	1.3	6.0	7.4	5.27	10.32
17-Apr	2.1	4.6	4.6	Z	13.0	16.6	11.2	9.7	6.1	7.0	5.1	2.8	6.2	6.9	7.3	2.9	1.0	0.9	1.0	9.0	10.9	4.6	17.2	15.4	7.21	17.19
18-Apr	17.1	20.4	23.5	Z	30.5	36.3	37.8	45.1	28.5	8.7	4.5	4.2	3.2	1.4	3.2	3.3	2.9	2.4	1.1	3.8	5.3	8.0	17.8	8.6	13.81	45.10
19-Apr	8.4	19.8	20.0	Z	39.0	59.8	69.8	21.7	7.3	C	C	C	C	C	C	6.7	2.7	4.6	7.4	8.9	6.3	4.3	5.2	3.2	--	69.85
20-Apr	4.3	21.5	13.0	Z	8.9	19.3	15.5	16.5	21.6	13.4	7.5	8.8	4.7	4.1	8.7	4.9	3.4	2.3	7.3	8.0	8.2	14.3	19.7	17.1	11.00	21.55
21-Apr	15.9	11.3	12.5	Z	10.2	17.2	20.1	14.3	15.1	4.6	2.4	4.0	2.9	2.4	1.6	1.7	0.7	0.5	4.8	1.3	0.3	1.4	2.9	4.7	6.64	20.13
22-Apr	5.0	1.9	1.9	Z	1.2	3.4	3.4	3.7	5.9	1.2	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	1.0	0.9	9.1	9.6	11.0	2.74	10.97
23-Apr	15.1	11.2	21.2	Z	13.8	17.4	51.5	7.7	4.8	3.1	3.1	4.1	4.7	4.1	2.9	3.4	4.2	2.2	1.5	6.3	6.6	3.3	4.2	7.5	8.86	51.48
24-Apr	2.3	2.4	2.3	Z	2.7	2.1	5.1	5.0	7.7	4.7	6.7	6.0	8.2	4.1	3.2	2.5	3.0	2.9	3.8	1.4	2.0	5.0	5.1	2.8	3.95	8.18
25-Apr	2.0	2.1	5.7	Z	14.9	30.0	37.9	17.3	6.9	3.1	2.9	3.1	2.8	3.8	4.6	4.2	4.7	4.8	2.7	5.5	1.9	11.9	16.9	14.4	8.87	37.88
26-Apr	10.6	5.5	7.2	Z	6.8	10.1	24.6	7.2	4.2	3.3	4.5	4.0	2.8	2.5	3.4	2.2	2.3	2.7	2.0	3.9	3.6	13.0	10.3	11.4	6.43	24.60
27-Apr	6.2	5.9	3.8	Z	4.0	6.4	6.6	12.8	5.3	9.1	7.4	8.7	8.6	5.0	3.4	2.5	4.2	3.4	3.8	1.6	6.5	4.2	4.4	5.6	5.62	12.85
28-Apr	6.2	2.0	1.9	Z	2.2	2.7	3.8	3.3	4.2	6.7	6.3	1.8	3.1	1.7	1.3	3.5	2.8	0.6	0.5	2.3	0.5	6.6	5.2	1.3	3.07	6.75
29-Apr	1.0	1.0	1.0	Z	1.6	1.6	1.5	1.5	1.1	0.9	1.8	2.9	2.9	2.6	2.0	2.0	2.0	2.2	4.2	3.4	1.9	11.2	10.1	5.3	2.85	11.17
30-Apr	2.8	2.3	6.8	Z	15.6	8.9	10.1	11.9	7.8	6.5	7.2	5.2	3.9	3.0	3.1	2.1	4.5	0.5	0.5	1.9	0.9	0.9	1.5	0.7	4.73	15.56
																								Diurnal Average		
																								Diurnal Maximum		
9.57 11.01 11.54 -- 14.62 17.57 21.79 16.82 14.49 10.49 6.69 5.31 4.82 4.26 4.50 4.23 4.02 3.10 3.44 4.93 8.21 10.34 11.31 9.66																										
25.70 33.68 42.43 -- 53.28 59.80 91.48 60.78 57.05 32.63 22.77 10.63 10.36 11.77 12.62 13.07 10.90 6.40 7.71 14.93 44.86 44.89 49.11 34.71																										
Z - zerospan C - Calibration																										
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr --- ppb 24-hr --- ppb																										



WCAS - Hinton
Summary of Hourly Averages

PM2.5 (PM_{2.5}) - µg/m³
April 2018

Maximum Value: 40.43 µg/m ³ on Apr 3 16:00		Maximum Daily Average: 16.71 µg/m ³ on Apr 12		Hours in Service: 720																																													
Minimum Value: 0.5 µg/m ³ on Apr 14 05:00		Minimum Daily Average: 2.56 µg/m ³ on Apr 16		Hours of Data: 720																																													
Maximum Diurnal Average: 11.04 µg/m ³ at hour 23		Minimum Diurnal Average: 5.42 µg/m ³ at hour 18		Hours of Missing Data: 0																																													
Monthly Average: 7.957 µg/m ³		Percentiles: P ₁ = 1.0 P ₁₀ = 2.1 Q ₁ = 3.7 Median = 6.5 Q ₃ = 9.8 P ₉₀ = 16.3 P ₉₉ = 30.5		Hours of Calibration: 0																																													
				Percent Operational Time: 100.0																																													
Day	Hourly Period Ending At																								Daily Average	Daily Maximum																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																									
1-Apr	4.2	3.1	4.0	3.9	7.8	2.9	2.7	3.8	3.6	3.2	2.8	3.1	3.1	3.1	3.9	3.6	3.5	3.1	3.5	3.5	12.1	11.4	7.6	7.3	4.61	12.07																							
2-Apr	8.4	7.9	3.3	5.0	6.2	5.7	4.2	8.1	15.6	15.1	6.5	3.6	3.5	4.0	3.7	3.8	3.7	3.4	2.8	4.4	3.4	4.2	5.2	13.2	6.04	15.65																							
3-Apr	8.2	6.3	6.6	4.7	5.7	4.5	3.6	4.9	3.7	3.5	3.9	4.2	5.2	11.1	30.5	40.4	23.6	10.9	8.2	5.2	5.6	12.7	19.7	6.4	9.98	40.43																							
4-Apr	8.2	9.3	9.3	8.2	13.8	12.2	14.2	14.5	18.0	19.8	15.4	5.6	3.8	4.3	3.9	4.2	3.4	2.8	2.6	2.3	2.7	3.6	5.9	2.7	7.95	19.82																							
5-Apr	2.5	4.4	4.8	7.2	8.8	5.1	3.2	8.5	8.1	4.4	3.3	3.1	3.0	3.3	3.8	4.6	4.7	4.2	4.8	5.6	10.2	7.8	9.9	6.1	5.47	10.16																							
6-Apr	4.3	4.8	6.3	6.6	7.9	7.9	9.6	7.8	6.4	7.1	8.2	20.8	7.4	7.4	8.6	7.9	7.7	8.4	6.2	5.6	5.4	5.6	5.7	5.6	7.47	20.77																							
7-Apr	5.2	5.7	6.4	7.8	12.2	9.9	8.8	8.3	8.5	8.6	17.5	10.8	9.1	10.4	11.4	9.2	7.0	7.6	8.4	8.2	7.5	7.2	6.6	6.0	8.68	17.55																							
8-Apr	6.6	7.0	7.5	7.5	7.2	8.7	7.0	7.8	12.2	36.2	26.2	32.3	23.7	28.2	31.7	28.9	17.2	14.5	7.9	8.1	20.1	14.4	15.2	10.8	16.12	36.22																							
9-Apr	13.5	17.4	14.8	17.4	15.8	16.2	14.6	14.3	13.7	30.2	39.5	12.8	10.6	4.0	7.0	15.1	15.6	3.6	5.6	6.8	19.7	20.6	12.3	8.5	14.57	39.54																							
10-Apr	6.7	9.3	4.5	6.3	6.4	5.3	9.5	11.9	8.8	10.9	5.7	3.4	4.1	3.4	3.0	4.1	6.1	10.9	11.4	10.8	9.8	11.6	21.7	16.6	8.43	21.73																							
11-Apr	18.3	17.2	22.8	32.3	24.7	24.9	25.8	25.7	33.7	27.7	7.7	2.2	1.8	3.2	3.5	3.3	3.2	4.2	4.3	4.1	5.2	5.9	5.8	7.5	13.12	33.74																							
12-Apr	8.1	9.2	11.8	13.1	15.6	19.0	20.7	18.7	21.0	20.3	19.7	20.4	19.6	17.3	18.6	17.1	16.6	16.9	14.9	16.7	16.0	17.3	17.0	15.7	16.71	21.03																							
13-Apr	16.4	17.5	21.9	18.8	26.0	23.6	29.4	25.1	24.8	18.1	4.5	2.7	2.4	1.8	1.7	0.9	2.2	0.8	0.9	2.6	2.7	6.9	5.7	2.8	10.85	29.41																							
14-Apr	1.9	5.1	3.5	1.3	0.5	1.7	1.5	1.2	4.5	2.7	2.9	1.6	2.8	1.4	3.5	2.0	2.1	2.6	1.6	3.0	2.3	2.6	2.7	6.6	2.58	6.65																							
15-Apr	7.4	5.6	4.2	4.4	10.9	7.4	8.8	6.6	8.4	6.6	4.2	3.3	1.9	1.8	1.6	1.9	1.9	1.4	1.1	1.2	1.9	4.5	9.9	7.9	4.77	10.86																							
16-Apr	4.2	1.7	1.3	1.4	1.8	2.2	3.9	4.9	4.8	4.0	5.1	4.9	3.0	1.6	1.4	1.4	1.2	1.1	0.9	0.7	1.5	1.5	3.2	3.3	2.56	5.13																							
17-Apr	1.5	2.0	2.9	4.4	3.2	16.3	2.4	2.9	2.4	2.8	3.2	1.6	4.8	5.6	4.8	2.6	1.3	1.3	1.3	3.8	6.5	3.4	18.9	5.0	4.37	18.94																							
18-Apr	4.9	6.1	5.9	5.6	6.6	6.3	10.7	14.2	14.2	6.7	3.9	3.8	3.2	2.2	4.1	4.1	4.0	2.9	2.1	6.0	7.1	9.8	28.2	3.5	6.92	28.25																							
19-Apr	6.5	7.1	5.7	7.4	9.8	23.7	9.2	4.4	3.1	3.7	3.8	3.0	3.3	4.2	4.4	6.9	5.4	7.3	9.8	11.5	8.7	6.4	7.7	4.5	6.97	23.70																							
20-Apr	6.2	12.4	7.3	7.7	8.3	8.6	9.6	9.1	9.2	14.8	9.5	10.6	6.8	6.6	11.2	7.7	6.1	4.8	10.7	11.4	7.3	18.8	13.0	13.3	9.63	18.79																							
21-Apr	12.2	7.5	7.1	8.0	8.5	11.0	11.6	7.2	14.1	3.3	2.5	4.7	3.5	2.1	2.6	2.4	1.3	0.6	6.3	1.6	0.9	1.8	3.0	4.5	5.34	14.14																							
22-Apr	5.1	1.6	1.3	1.1	1.8	4.7	3.9	4.8	7.6	1.9	1.1	1.4	1.4	1.5	2.0	2.1	2.1	1.5	1.9	1.7	1.5	15.9	14.5	9.6	3.83	15.93																							
23-Apr	9.7	3.6	8.8	4.8	4.3	5.3	16.6	2.5	2.4	1.9	2.1	4.3	6.1	6.2	5.6	6.6	7.1	6.1	5.5	10.7	10.6	5.7	4.8	7.6	6.20	16.59																							
24-Apr	5.4	5.1	5.1	6.1	5.1	4.7	7.6	6.5	9.8	7.9	10.2	11.9	16.5	10.1	8.9	9.1	9.5	9.2	9.2	6.6	5.6	7.6	8.1	9.1	8.12	16.50																							
25-Apr	8.7	8.4	10.9	11.4	13.7	19.2	25.3	14.9	13.0	7.5	7.9	7.7	6.9	7.2	7.1	8.5	9.2	8.5	6.4	11.3	8.0	12.6	18.4	17.6	11.26	25.31																							
26-Apr	10.0	6.5	6.6	5.6	5.9	9.9	10.1	6.5	6.7	5.9	7.0	8.7	6.0	6.4	7.5	8.0	7.6	6.6	7.0	7.7	7.5	14.1	17.9	15.5	8.39	17.93																							
27-Apr	13.7	9.6	6.5	5.5	5.4	5.8	6.2	9.5	8.1	14.6	15.0	14.8	13.7	8.8	5.2	5.8	6.4	6.1	5.9	5.2	12.0	6.4	12.5	10.9	8.90	14.96																							
28-Apr	6.3	4.5	3.6	3.2	3.0	3.2	7.2	5.4	6.8	8.8	9.7	4.5	6.2	6.2	8.3	10.7	8.2	5.2	5.2	5.9	6.8	11.1	11.1	7.5	6.61	11.15																							
29-Apr	8.1	6.9	4.8	4.7	4.4	3.9	2.5	1.6	1.8	1.6	1.7	2.5	2.3	2.6	2.6	2.6	3.4	3.4	8.4	5.1	3.9	14.4	9.0	7.0	4.56	14.45																							
30-Apr	7.8	5.6	13.9	11.0	11.3	7.9	6.7	11.2	10.6	8.2	8.6	7.0	6.5	6.4	7.0	5.5	7.5	2.9	2.9	5.0	5.2	7.7	9.8	8.4	7.69	13.91																							
																								7.68	7.28	7.45	7.75	8.75	9.59	9.90	9.10	10.20	10.28	8.64	7.38	6.41	6.08	7.30	7.71	6.62	5.42	5.59	6.08	7.26	9.12	11.04	8.36	Diurnal Average	
																								18.31	17.50	22.81	32.29	25.95	24.86	29.41	25.73	33.74	36.22	39.54	32.28	23.71	28.18	31.67	40.43	23.55	16.86	14.86	16.72	20.14	20.64	28.25	17.58	Diurnal Maximum	
Alberta Ambient Air Quality Objectives (AAQO): 1-hr 80 ul/m ³ 24-hr 30 ul/m ³																																																	

Calibration Data Summary

West Central Airshed Society

Operator: WCAS

Location: Station 906, Hinton
 Calibration Date: April 19, 2018
 Parameter: SO₂

Instrument: Teco 43i	Serial Number: CM 12499009	Previous Calibration Date: March 15 2018
Calibration: Routine	Calibration Equipment: SABIO 2010 sn # 11100113	Barometric Pressure: 26.70" Hg
Calibration Method: Std.Gas Dilution	Cylinder ID: EX0012497	Temperature: 23.0° C
Cylinder Concentration: 24.4 ppm SO ₂	In Service: Dec 6/17 exp: Oct/20	Technician: Dean Yustak

Instrument Settings	SO ₂ bkg ppb	SO ₂ Coefficient	Monitoring Range
Previous	27.9	1.010	500 ppb
Current	28.4	1.010	500 ppb

Final Zero: -0.9 ppm Final Span: 74.6 ppm As Found Correction Factor: 0.996

SO ₂ Flow Rate (LPM)	Dilution Flow Rate (LPM)	Calculated Concentration C _c (ppm)	Raw Count Output R _c	Indicated Concentration C _i (ppm)	Correction Factor C _c /C _i
0.0740	4.986	356.8	21583.7	355.8	1.003
0.0496	4.980	240.8	14693.6	241.9	0.995
0.0252	4.988	122.5	7510.7	123.2	0.994
0.0000	4.956	0.0	4.3	-0.9	

Results of Linear Regression			
R _c vs C _c	Slope	Intercept	R ²
Previous	60.166570	23.629210	0.999974
Current	60.500360	56.312600	0.999949
C _i vs C _c			
Current	1.000000	0.000043	0.999949

Average Correction Factor: 0.997

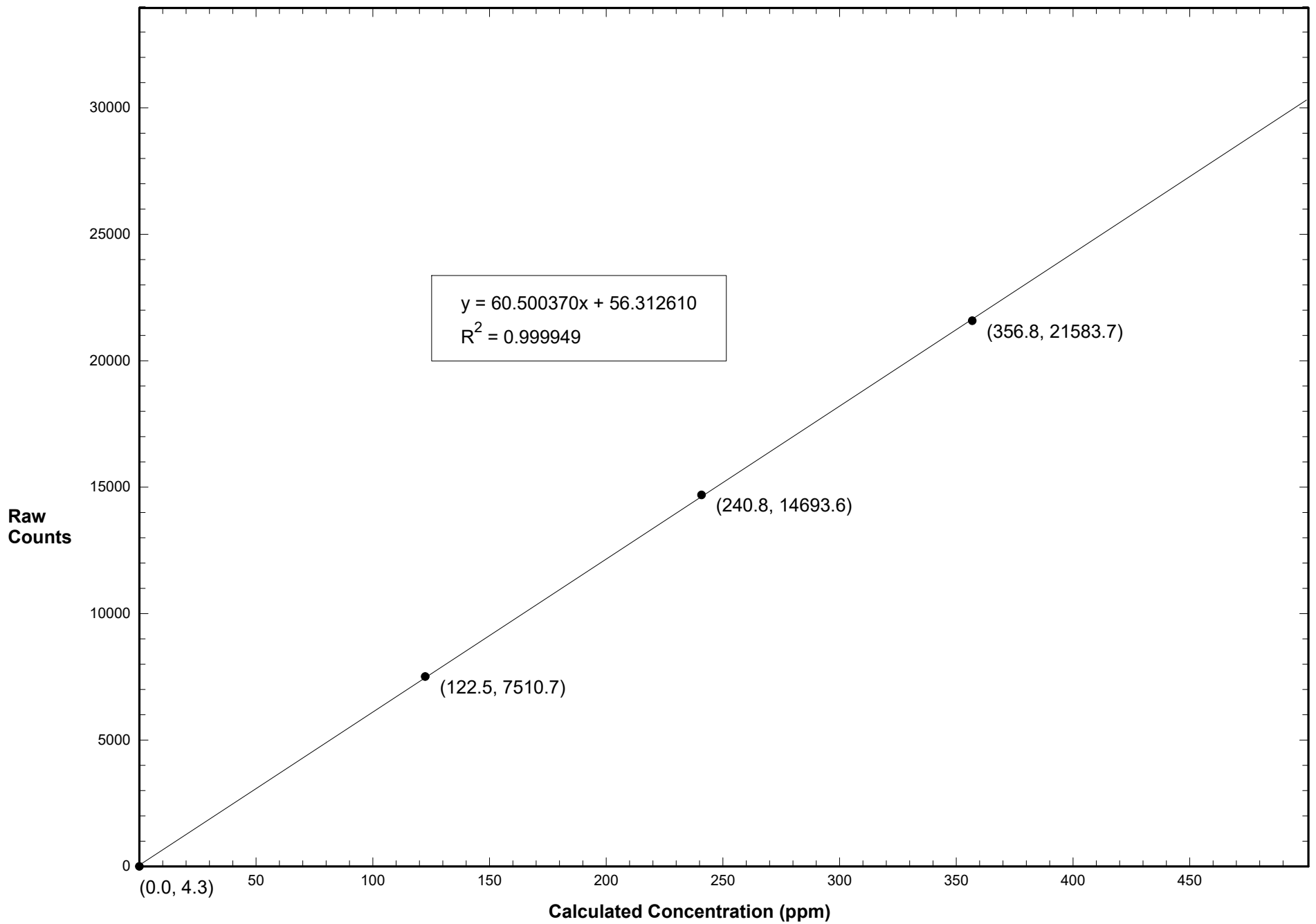
Previous Correction Factor: 1.002

Current Correction Factor: 1.003

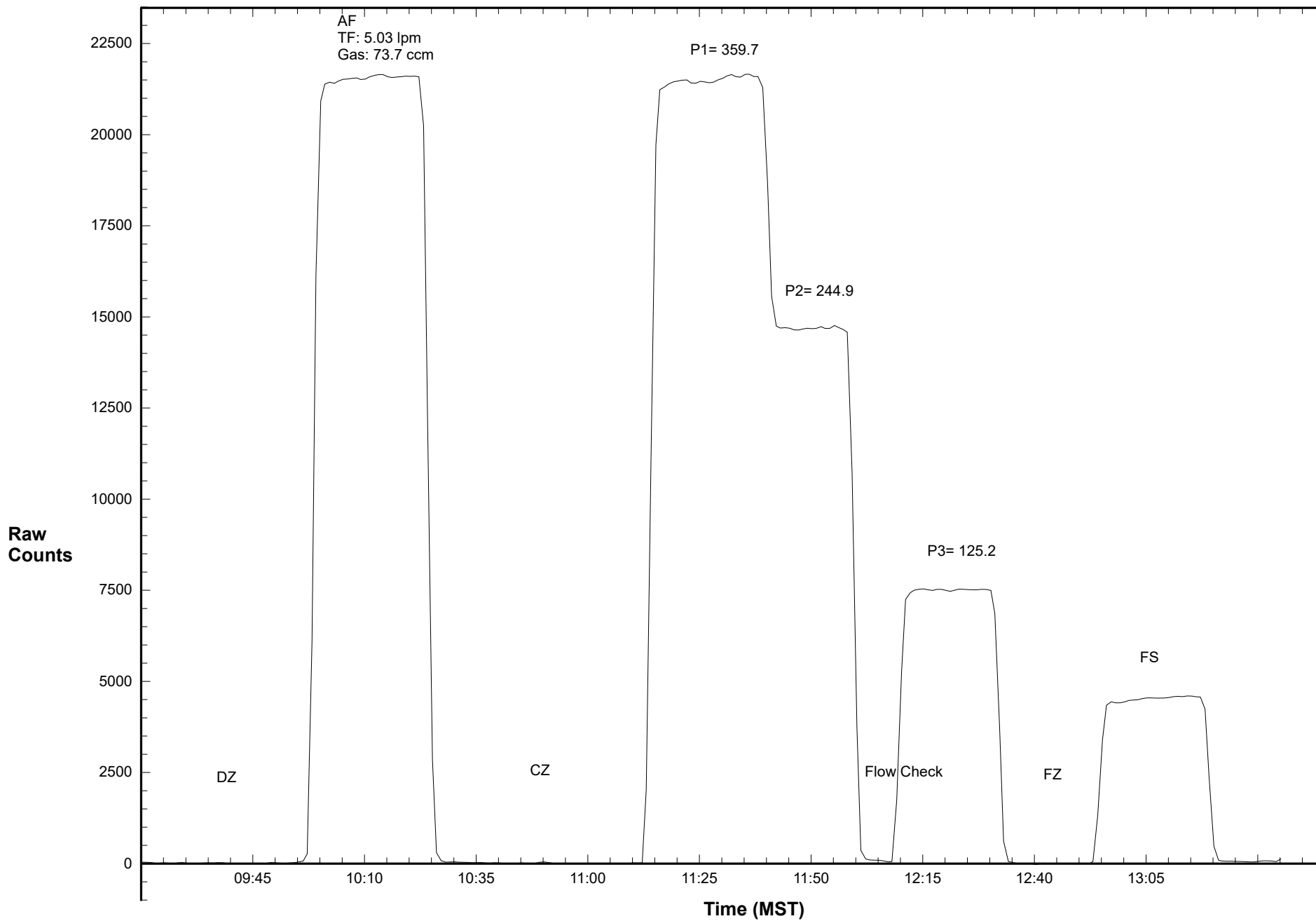
Percent Change of Correction Factor: 0.1

Comments: Sample Flow: 0.422 lpm

Station 906 SO2 April 19, 2018: Linear Regression



Station 906 SO2 April 19, 2018: Calibration Graph



Calibration Data Summary

West Central Airshed Society

Operator: WCAS

Location: Station 906, Hinton

Calibration Date: April 19, 2018

Parameter: H₂S

Instrument: Teco 43C

Serial Number: 45c-71671-369

Previous Calibration Date: March 15 2018

Calibration: Routine

Calibration Equipment: SABIO 2010 sn # 11100113

Barometric Pressure: 26.70" Hg

Calibration Method: Std.Gas Dilution

Permeation Device ID: Cyl DT0014794 10.5 ppm H₂S

Temperature: 23.0° C

Permeation Rate: 0 ng/min

In Service: Oct 21 2016; Exp Oct 2019

Technician: Dean Yustak

Instrument Settings	H ₂ S bkg ppb	H ₂ S Coefficient	Monitoring Range
Previous	18.9	1.346	100 ppb
Current	20.6	1.413	100 ppb

Final Zero: -0.4 ug/m³

Final Span: 44.8 ug/m³

As Found Correction Factor: 1.027

Calibration System Flow Rate (LPM)	Calculated Concentration C _c (ug/m ³)	Raw Count Output R _c	Indicated Concentration C _i (ug/m ³)	Correction Factor C _c /C _i
0.039	81.3	24656.9	81.0	1.004
0.027	55.7	17052.2	56.0	0.993
0.016	32.9	10048.9	33.0	0.997
0.000	0.0	-57.0	-0.2	

Results of Linear Regression

R _c vs C _c	Slope	Intercept	R ²
Previous	301.649500	92.768780	0.999981
Current	304.413400	-5.477973	0.999929
C _i vs C _c			
Current	1.000000	0.000000	0.999929

Average Correction Factor: 0.998

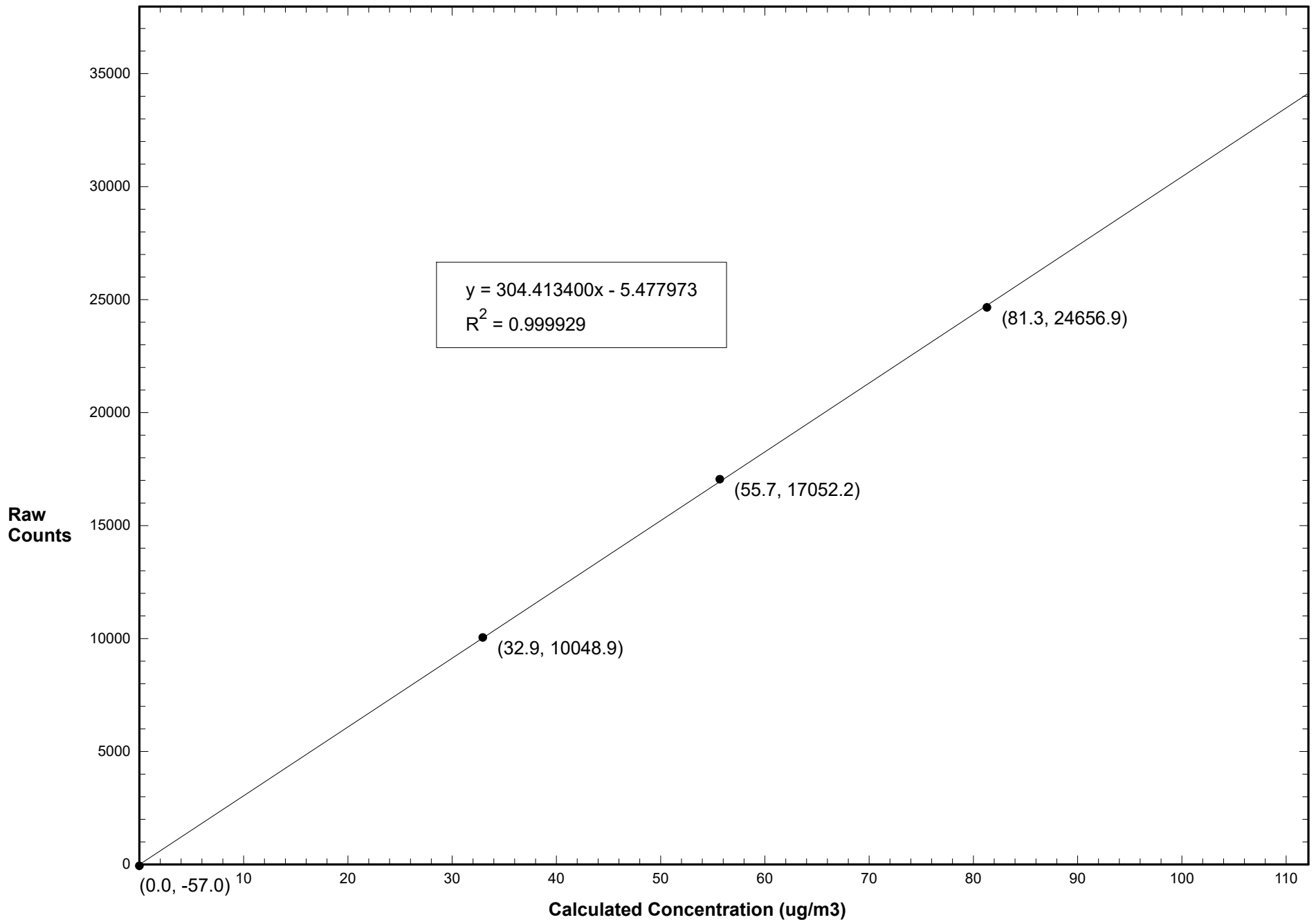
Previous Correction Factor: 0.999

Current Correction Factor: 1.004

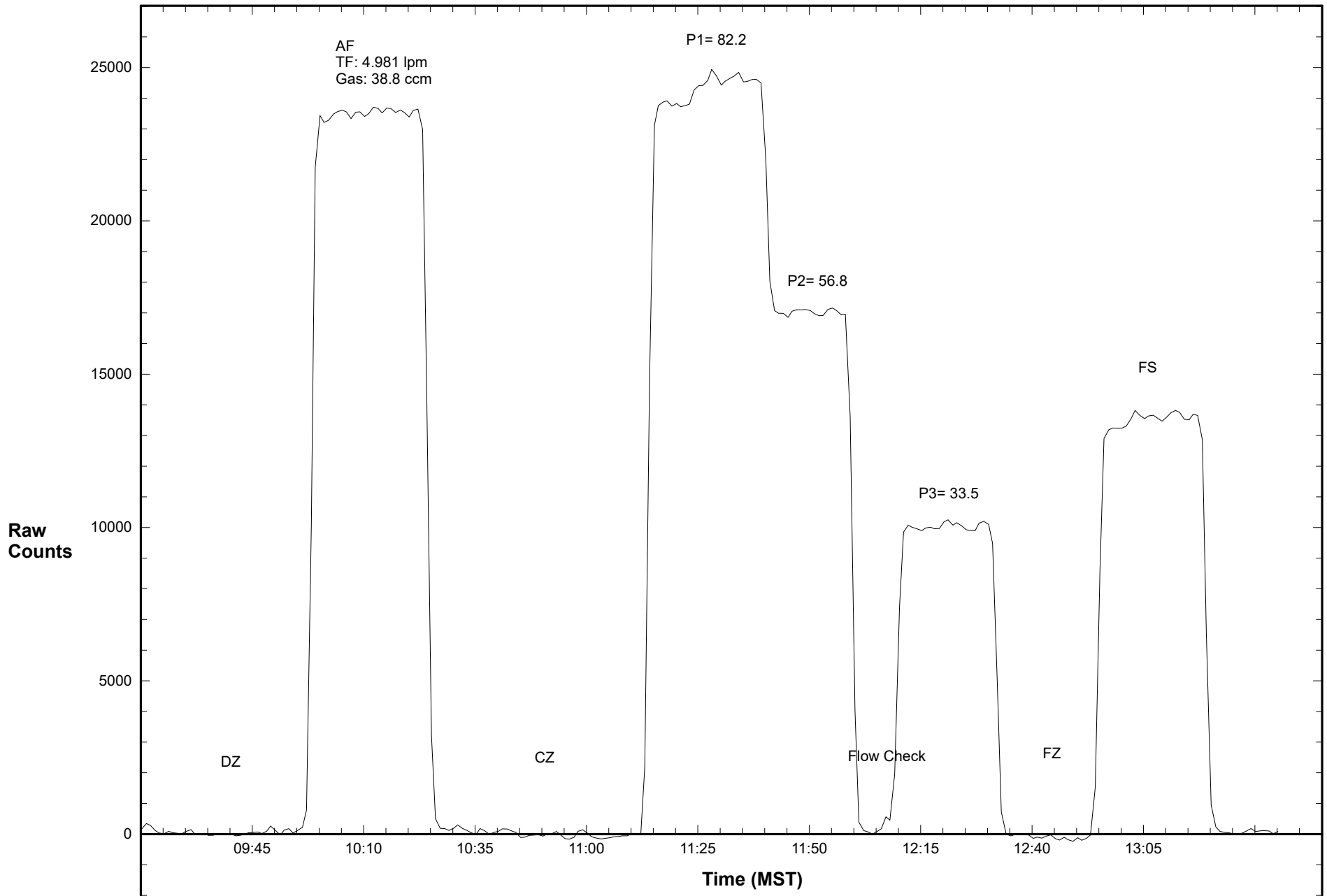
Percent Change of Correction Factor: 0.5

Comments: Sample Flow: 0.448 lpm

Station 906 H2S April 19, 2018: Linear Regression



Station 906 H2S April 19, 2018: Calibration Graph



Calibration Data Summary

West Central Airshed Society

Operator: WCAS

Location: Station 906, Hinton

Calibration Date: April 19, 2018

Parameter: NO/NO₂/NO_x

Instrument: Teco 42i

Serial Number: 09505034785

Previous Calibration Date: March 15 2018

Calibration: Routine

Calibration Equipment: SABIO 2010 sn # 11100113

Barometric Pressure: 26.70" Hg

Calibration Method: Std.Gas Dilution / GPT

Cylinder ID: EX0012497

Temperature: 23.0° C

Cylinder Concentration: 27.4 ppm NO & 27.5 ppm NO_x In Service: Dec 6/17 exp: Oct/20

Technician: Dean Yustak

Instrument Settings	NO bkg ppb	NO _x bkg ppb	Pre-reactor bkg ppb	NO Coefficient	NO _x Coefficient	NO ₂ Coefficient	Monitoring Range
Previous	15.3	15.5	na	1.383	0.993	0.995	500 ppb
Current	14.8	15.6	na	1.348	0.993	0.995	500 ppb

NO	Final Zero: -1.7 ppb	Final Span: 162.4 ppb	As Found Correction Factor: 0.980
NO ₂	Final Zero: -0.4 ppb	Final Span: 0.3 ppb	As Found Correction Factor: NA
NO _x	Final Zero: -2.3 ppb	Final Span: 162.9 ppb	As Found Correction Factor: 0.976

Results of Linear Regression			Slope	Intercept	R ²
NO	R _c vs C _c	Previous	60.193680	53.769890	0.999959
		Current	60.303320	94.998090	0.999893
	C _i vs C _c	Current	1.000000	0.000035	0.999892
NO ₂	R _c vs C _c	Previous	60.463470	15.338280	0.999959
		Current	60.670590	-12.213330	0.999997
	C _i vs C _c	Current	1.000000	0.000004	0.999997
NO _x	R _c vs C _c	Previous	60.135770	44.755330	0.999959
		Current	60.242500	85.847450	0.999896
	C _i vs C _c	Current	1.000000	-0.000043	0.999896

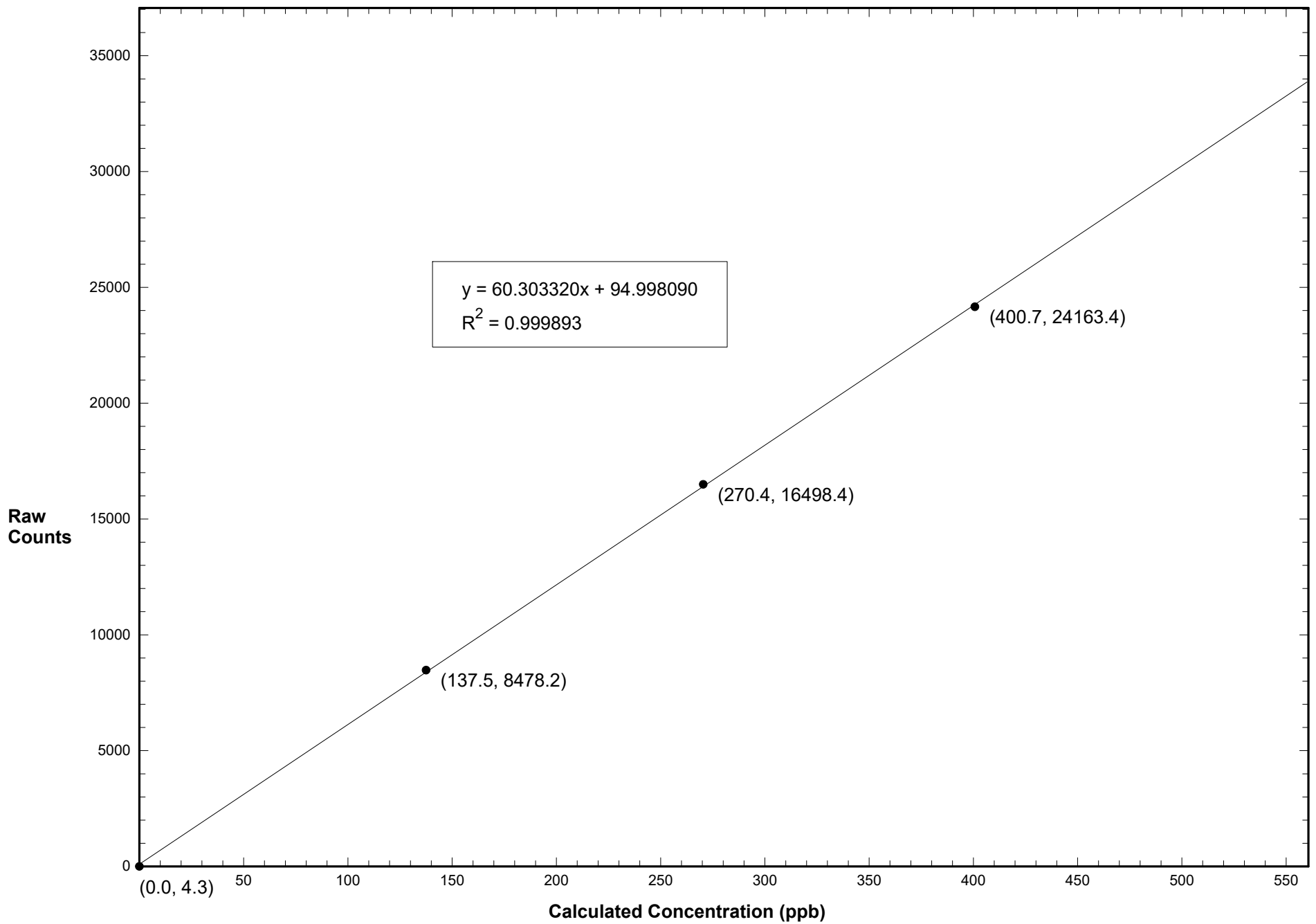
Comments: Sample Flow: 0.456 lpm

Calibration Data Summary (Page 2)

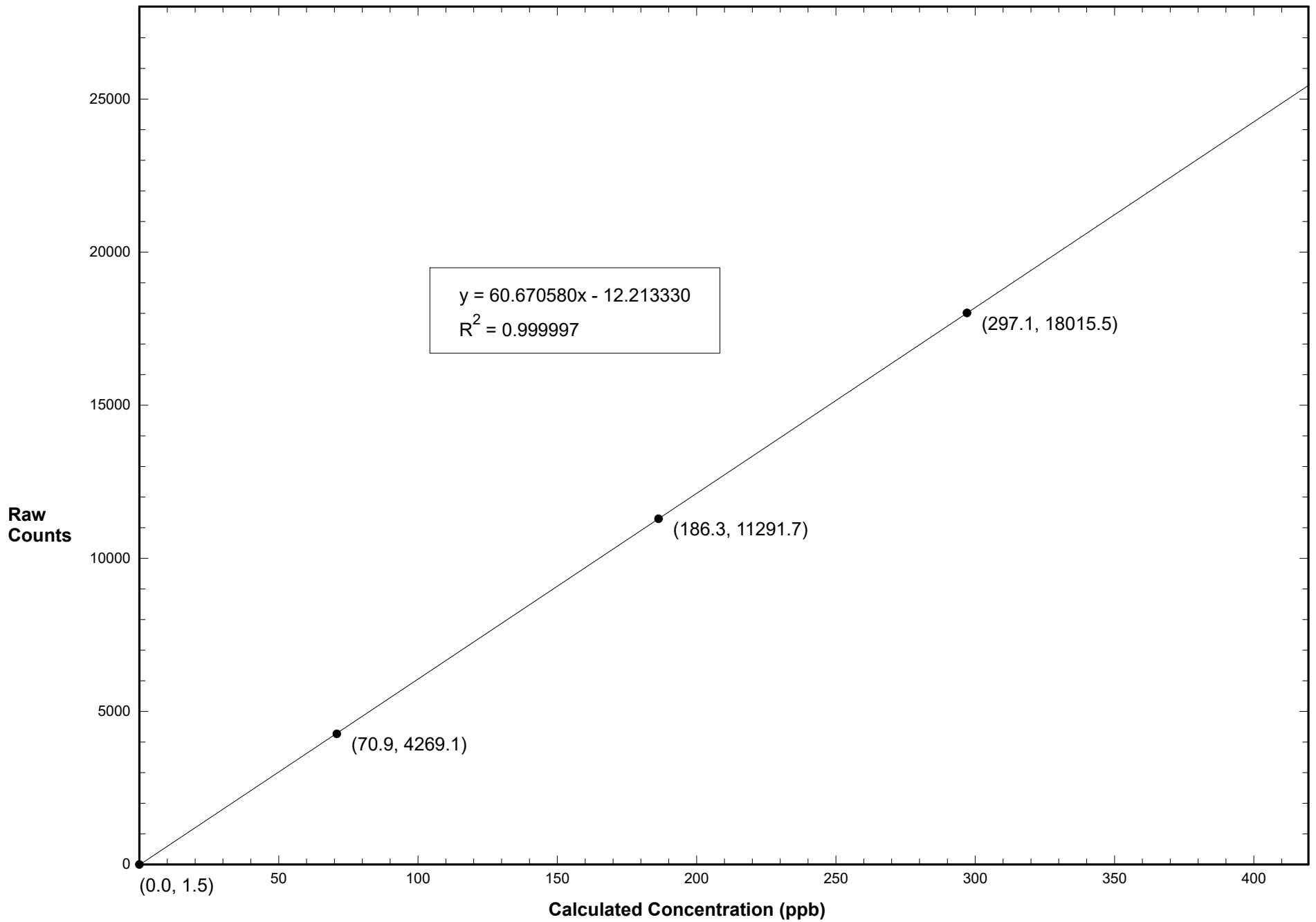
April 19, 2018 - Station 906

NO Flow Rate (LPM)	Dilution Flow Rate (LPM)	Calculated Concentration C _c (ppb)	Raw Count Output R _c	Indicated Concentration C _i (ppb)	Correction Factor C _c /C _i			
0.07400	4.986	400.7	24163.4	399.1	1.004			
0.04964	4.980	270.4	16498.4	272.0	0.994			
0.02516	4.988	137.5	8478.2	139.0	0.989			
0.00000	4.956	0.0	4.3	-1.5				
NO Calibration					Average Correction Factor:	0.996		
0.07400	4.986	402.2	24222.1	400.7	1.004			
0.04964	4.980	271.4	16522.5	272.8	0.995			
0.02516	4.988	138.0	8498.1	139.6	0.988			
0.00000	4.956	0.0	-6.4	-1.5				
NO _x Calibration					Average Correction Factor:	0.996		
Reference Concentration NO (ppb)	Raw Count Output NO	Calculated Concentration NO (ppb)	Calculated Concentration NO ₂ , C _c (ppb)	Raw Count Output R _c	Indicated Concentration C _i (ppb)	Correction Factor C _c /C _i	Converter Efficiency C _i /C _c	
406.4	6685.8	109.3	297.1	18015.5	297.1	1.000	1.000	
406.4	13363.3	220.0	186.3	11291.7	186.3	1.000	1.000	
406.4	20326.8	335.5	70.9	4269.1	70.6	1.004	0.996	
			0.0	1.5	0.2			
						Average Correction Factor:	1.001	
NO ₂ Gas Phase Titration						Average Converter Efficiency:	0.999	
Parameter	Correction Factor (Previous)	Correction Factor: (Current)	Percent Change of Correction Factor					
NO	1.002	1.004	0.2					
NO ₂	1.000	1.000	0.0					
NO _x	1.002	1.004	0.2					

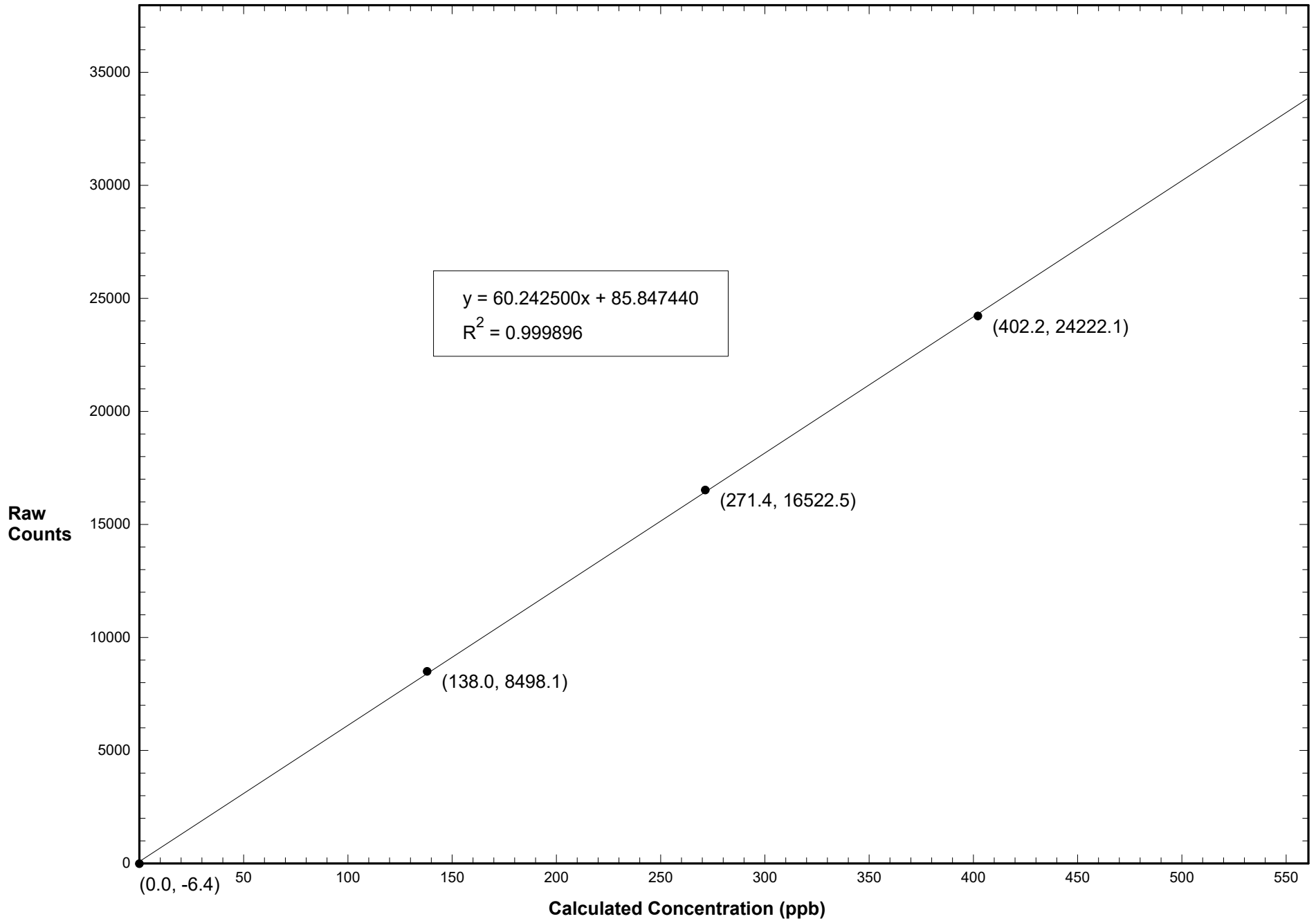
Station 906 NO April 19, 2018: Linear Regression



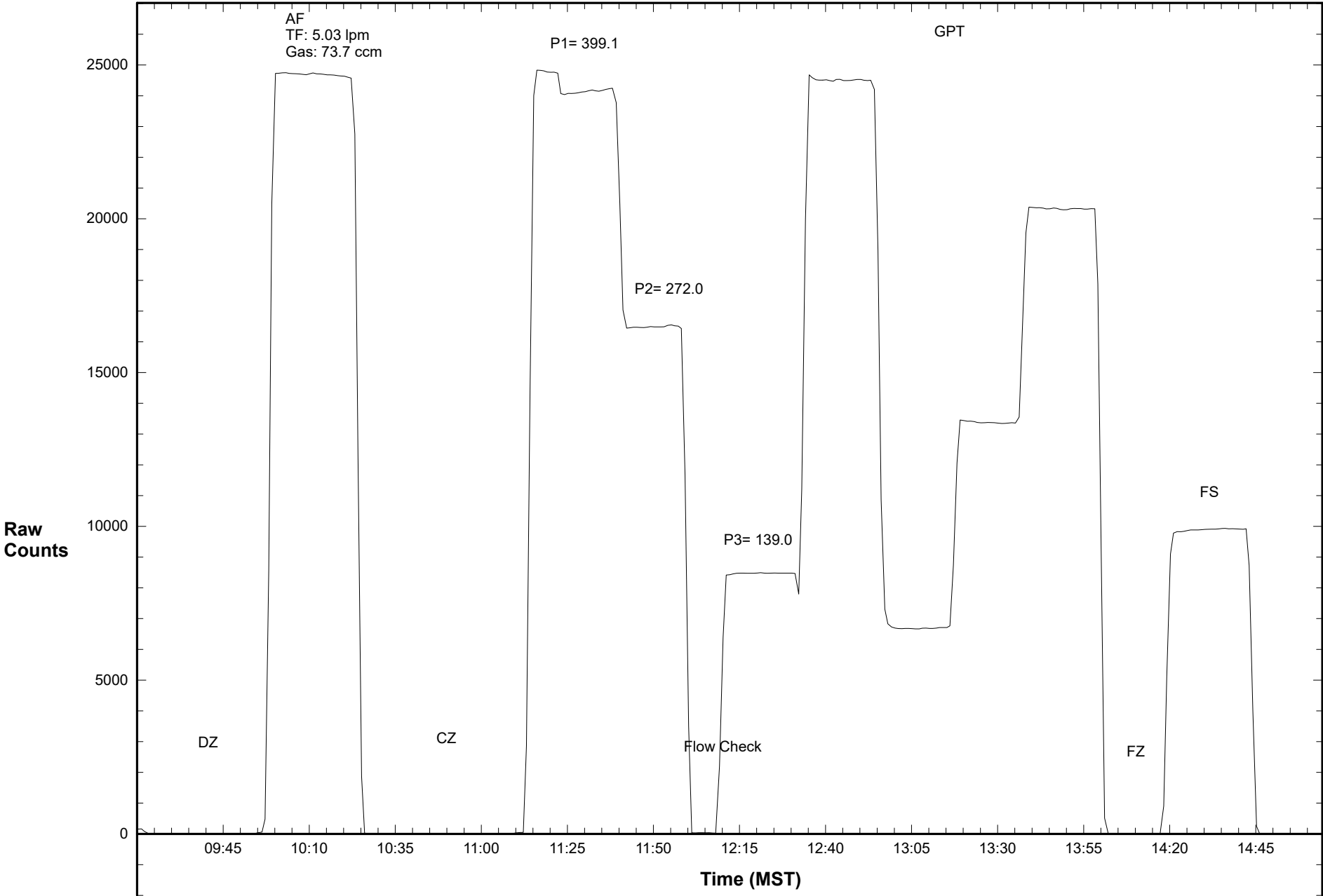
Station 906 NO2 April 19, 2018: Linear Regression



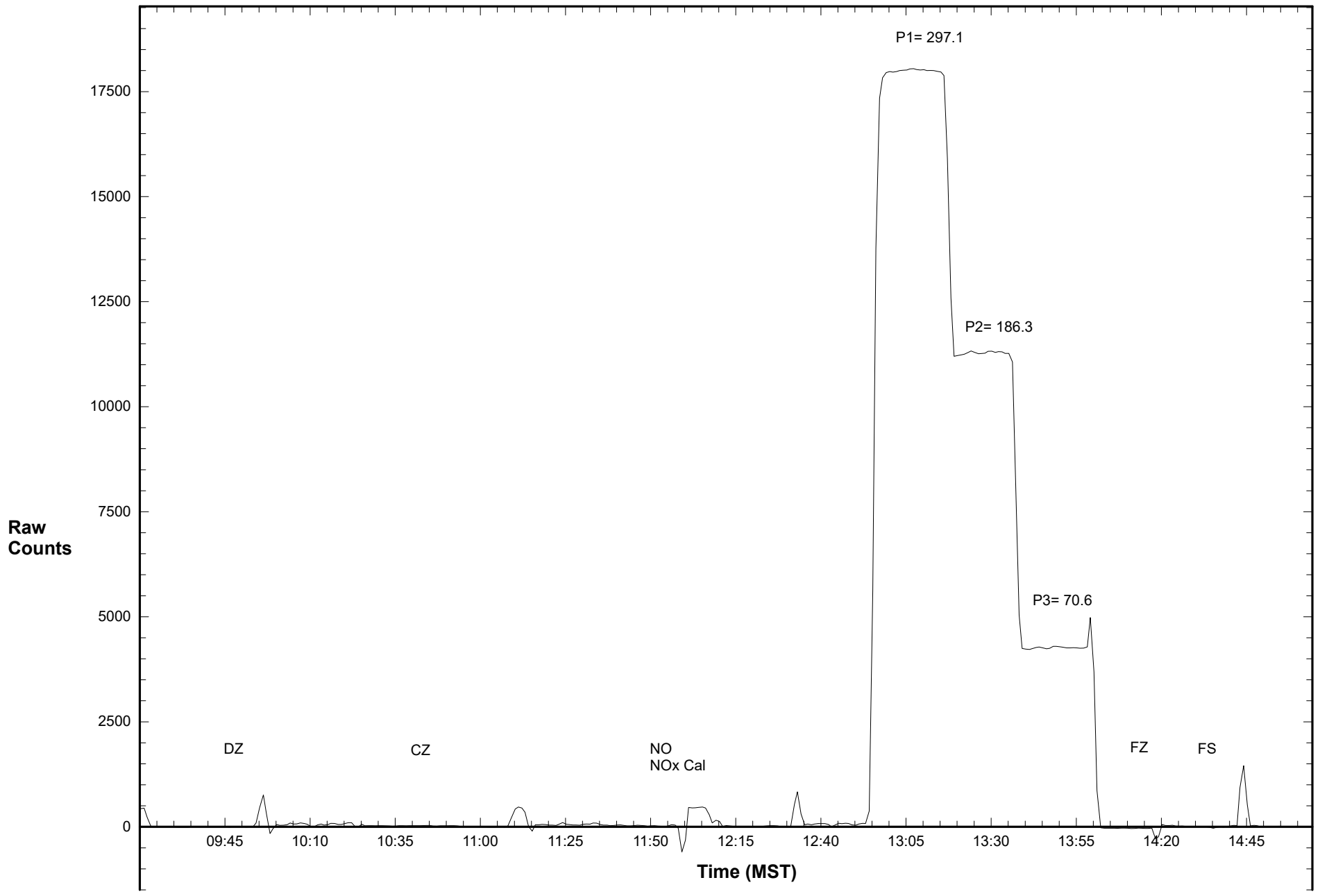
Station 906 NOX April 19, 2018: Linear Regression



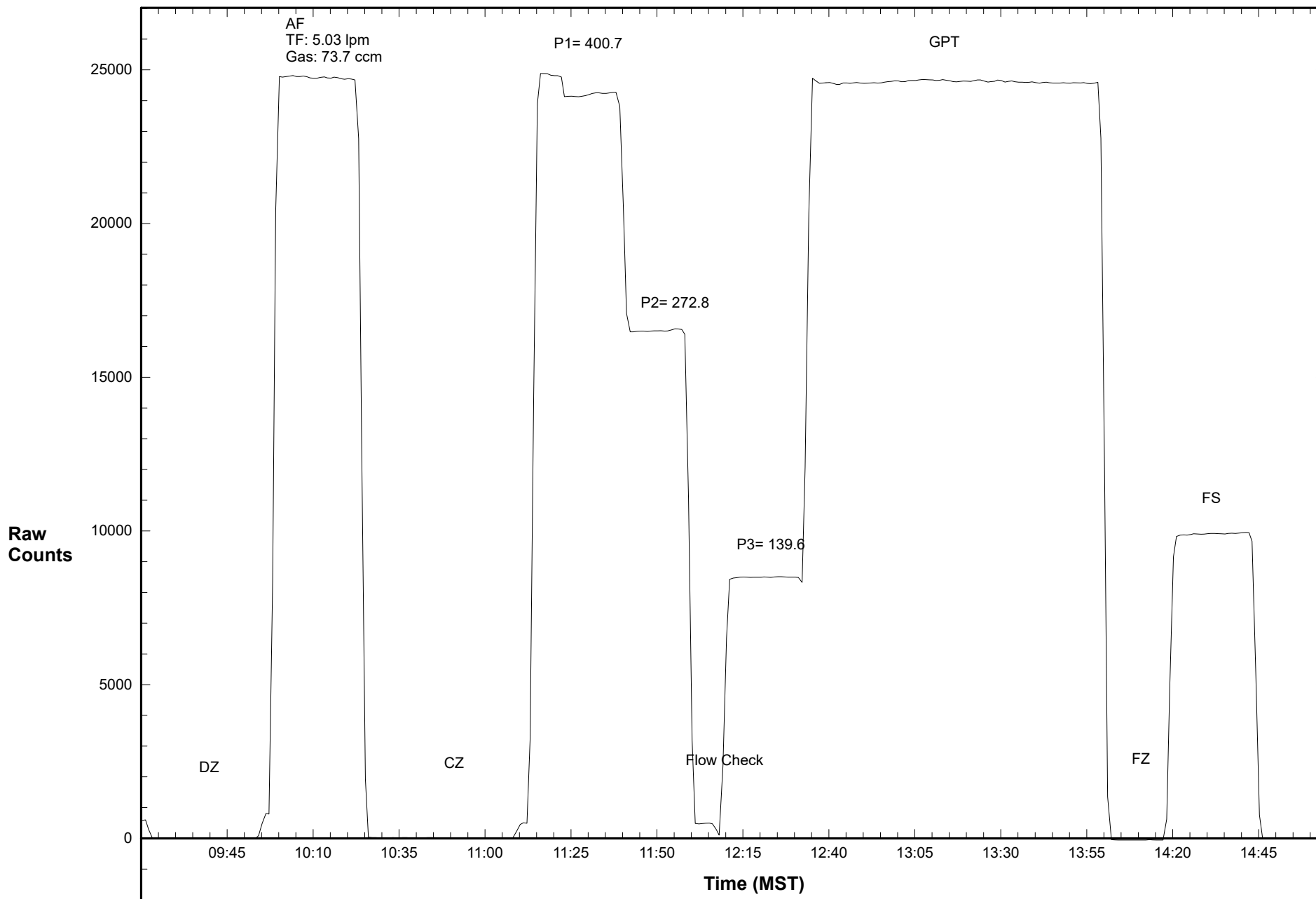
Station 906 NO April 19, 2018: Calibration Graph



Station 906 NO2 April 19, 2018: Calibration Graph



Station 906 NOX April 19, 2018: Calibration Graph



Calibration Data Summary

West Central Airshed Society

Operator: WCAS

Location: Station 906, Hinton

Calibration Date: April 19, 2018

Parameter: O₃

Instrument: Teco 49i

Serial Number: 1150790050

Previous Calibration Date: March 15 2018

Calibration: Routine

Calibration Equipment: 2B Tech 306 SN-135

Barometric Pressure: 26.70" Hg

Calibration Method: Certified Ozone Generator In service: Jan 16/17

Temperature: 23.0° C

Technician: Dean Yustak

Instrument Settings	Background	Coefficient	Monitoring Range
Previous	-0.4	1.010	500 ppb
Current	-0.0	1.025	500 ppb

Final Zero: -1.5 ppb

Final Span: 384.6 ppb

As Found Correction Factor: 1.012

Calibration System Flow Rate (LPM)	Calculated Concentration C _c (ppb)	Raw Count Output R _c	Indicated Concentration C _i (ppb)	Correction Factor C _c /C _i
3.000	403.0	24185.9	402.2	1.002
3.000	254.0	15346.7	254.7	0.997
3.000	100.1	6173.4	101.6	0.986
3.000	0.0	8.1	-1.3	

Results of Linear Regression

R _c vs C _c	Slope	Intercept	R ²
Previous	60.098930	114.717900	0.999909
Current	59.911430	88.790860	0.999946
C _i vs C _c			
Current	1.000000	-0.000007	0.999946

Average Correction Factor: 0.995

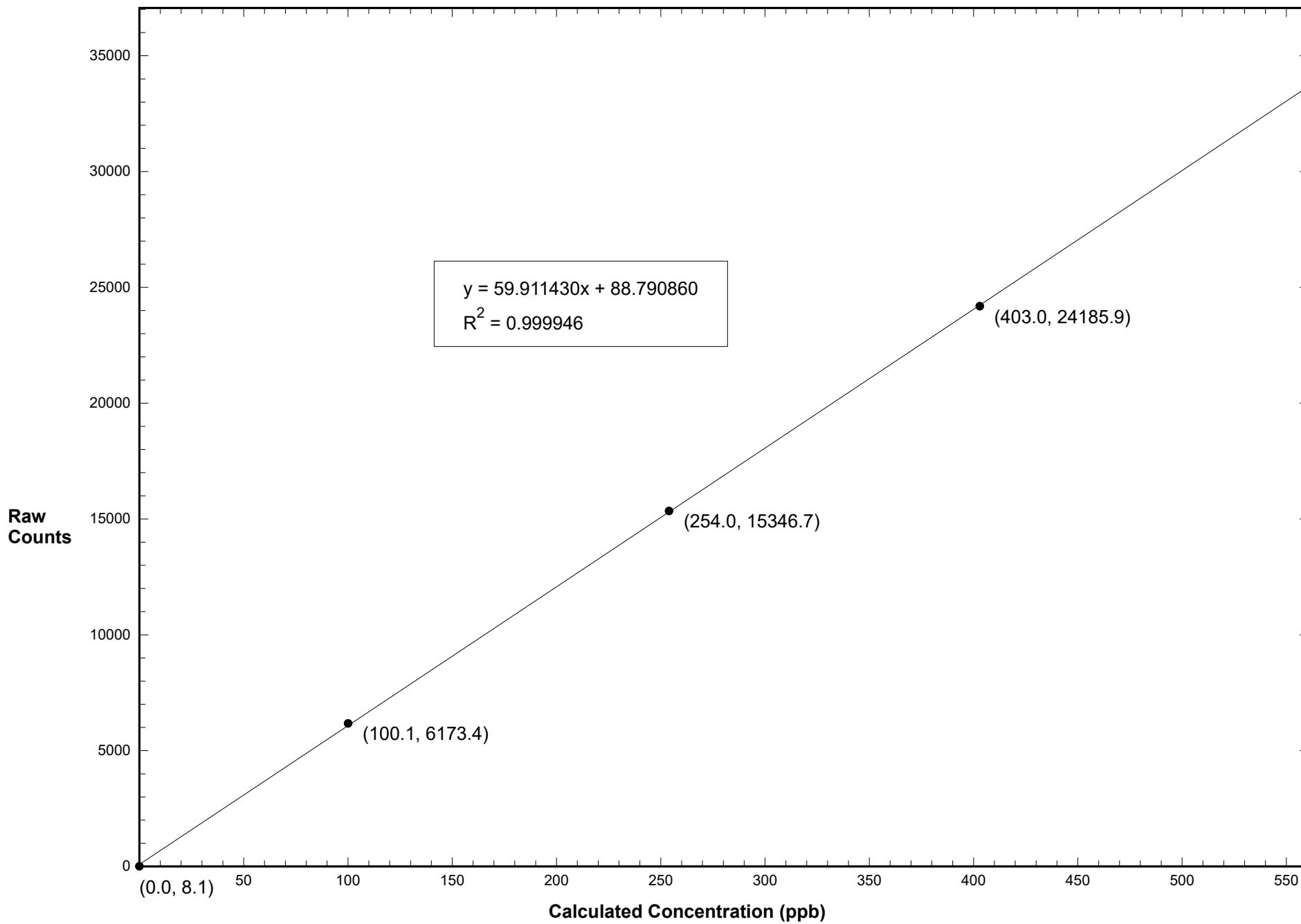
Previous Correction Factor: 1.003

Current Correction Factor: 1.002

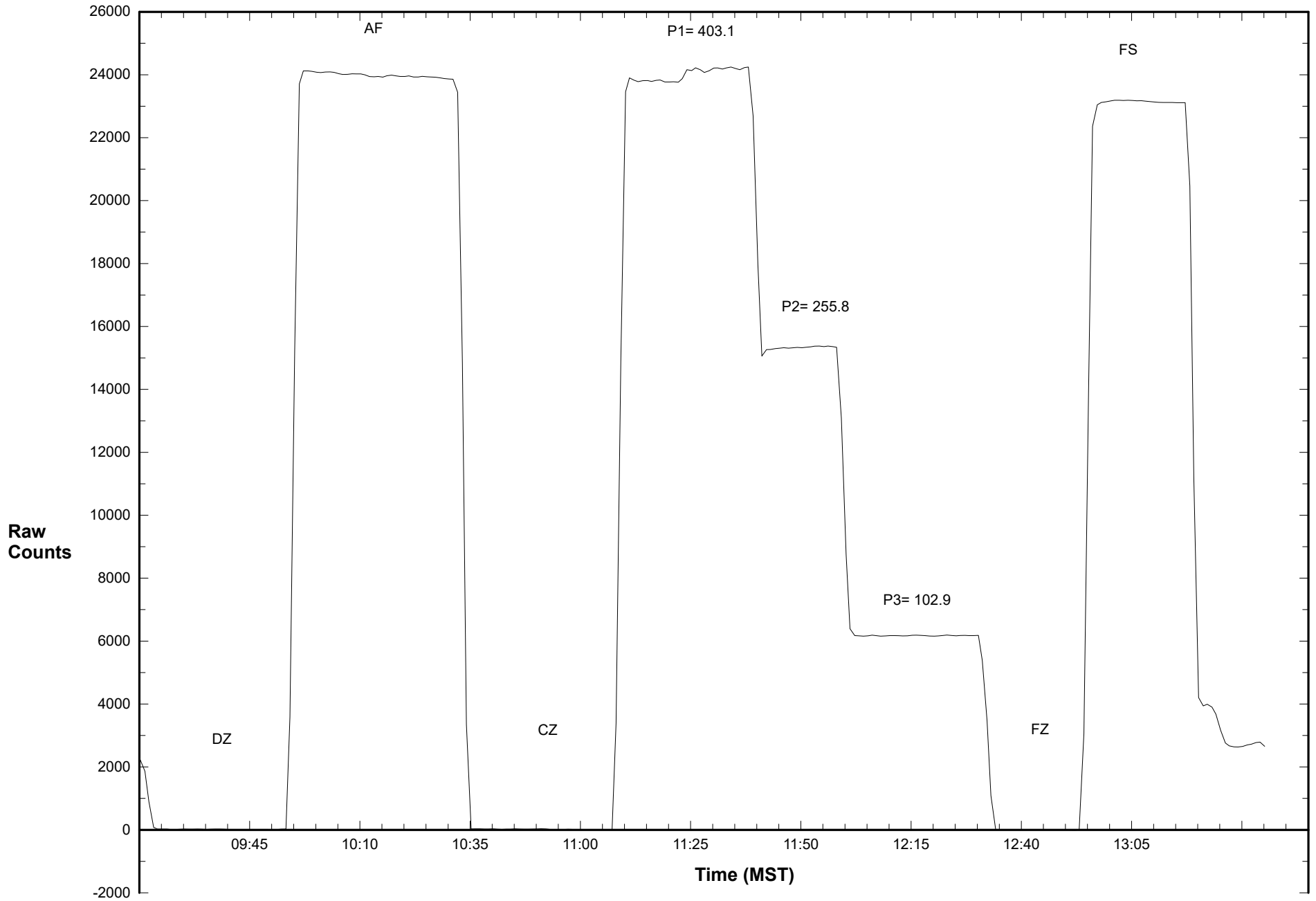
Percent Change of Correction Factor: -0.1

Comments: Sample Flows:0.684 & 0.664 lpm

Station 906 O3 April 19, 2018: Linear Regression



Station 906 O3 April 19, 2018: Calibration Graph



Calibration Data Summary

West Central Airshed Society

Operator: WCAS

Location: Station 906, Hinton
 Calibration Date: April 19, 2018
 Parameter: TRS

Instrument: Teco 43C	Serial Number: 43CTL - 60324 - 326	Previous Calibration Date: March 15 2018
Calibration: Routine	Calibration Equipment: SABIO 2010 sn # 11100113	Barometric Pressure: 26.70" Hg
Calibration Method: Std.Gas Dilution	Permeation Device ID: Cyl DT0014794 10.5 ppm H2S	Temperature: 23.0° C
Permeation Rate: 0 ng/min	In Service: Oct 21 2016; Exp Oct 2019	Technician: Dean Yustak

Instrument Settings	H ₂ S bkg ppb	H ₂ S Coefficient	Monitoring Range
Previous	2.06	0.852	100 ppb
Current	2.02	0.726	100 ppb

Final Zero: 0.4 ppb Final Span: 55.5 ppb As Found Correction Factor: 0.902

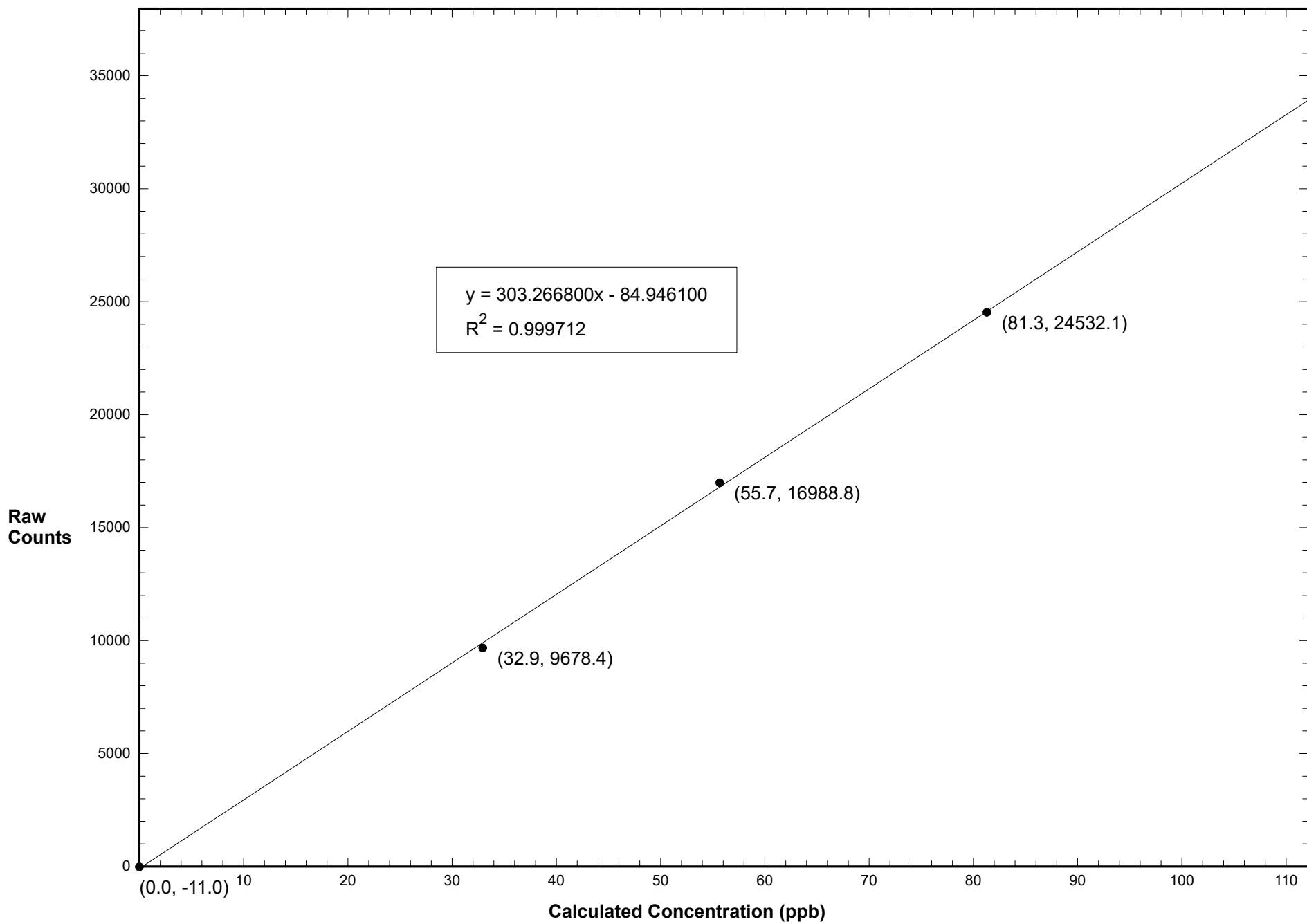
Calibration System Flow Rate (LPM)	Calculated Concentration C _c (ppb)	Raw Count Output R _c	Indicated Concentration C _i (ppb)	Correction Factor C _c /C _i
0.039	81.3	24532.1	81.2	1.002
0.027	55.7	16988.8	56.3	0.989
0.016	32.9	9678.4	32.2	1.023
0.000	0.0	-11.0	0.2	

Results of Linear Regression			
R _c vs C _c	Slope	Intercept	R ²
Previous	301.054900	107.243200	0.999484
Current	303.266800	-84.946100	0.999712
C _i vs C _c			
Current	1.000000	0.000012	0.999712

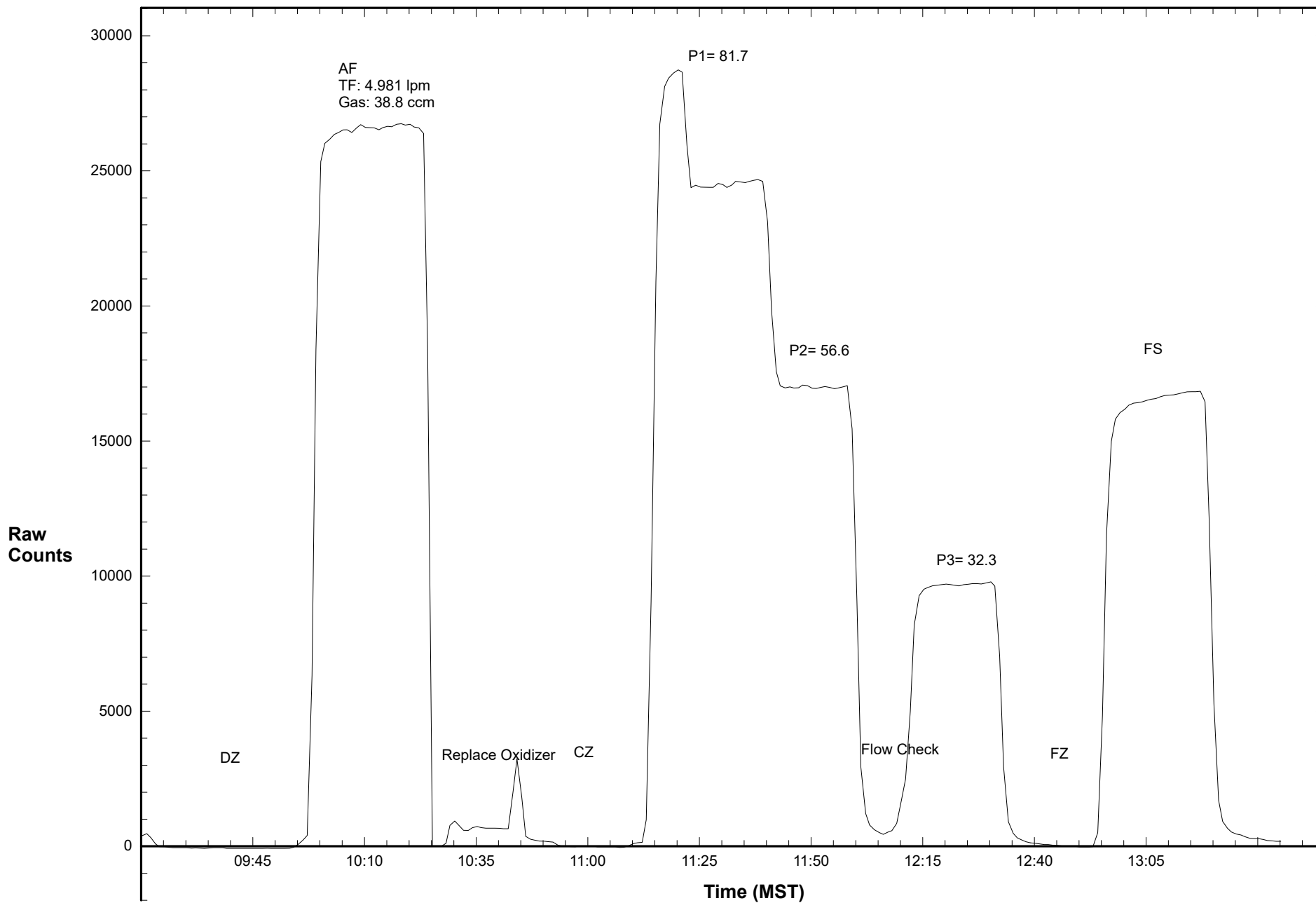
Average Correction Factor: 1.005
 Previous Correction Factor: 1.007
 Current Correction Factor: 1.002
 Percent Change of Correction Factor: -0.5

Comments: Sample Flow: 0.630 lpm

Station 906 TRS April 19, 2018: Linear Regression



Station 906 TRS April 19, 2018: Calibration Graph



WEST CENTRAL AIRSHED SOCIETY

**CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT
METEOROLOGICAL DATA**

**AMS 906
HINTON
APRIL 2018**

Operations and Data Collection by:
West Central Airshed Society
Drayton Valley, Alberta

QA/QC, Data Validation and Reporting by:
West Central Airshed Society
Drayton Valley, Alberta



WCAS - Hinton
Summary of Hourly Averages

External Temperature (ET) - C
April 2018

Maximum Value: 24.63 C on Apr 27 18:00		Maximum Daily Average: 13.80 C on Apr 28		Hours in Service: 720																							
Minimum Value: -18.9 C on Apr 2 07:00		Minimum Daily Average: -10.24 C on Apr 6		Hours of Data: 720																							
Maximum Diurnal Average: 8.11 C at hour 16		Minimum Diurnal Average: -4.25 C at hour 7		Hours of Missing Data: 0																							
Monthly Average: 2.136 C		Percentiles: P ₁ = -15.3 P ₁₀ = -9.7 Q ₁ = -3.0 Median = 1.4 Q ₃ = 8.3 P ₉₀ = 13.3 P ₉₉ = 23.5		Hours of Calibration: 0																							
				Percent Operational Time: 100.0																							
Day	Hourly Period Ending At																								Daily Average	Daily Maximum	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1-Apr	-12.5	-13.5	-13.6	-13.7	-14.0	-14.5	-14.9	-14.9	-13.5	-10.4	-6.6	-4.1	-2.9	-2.0	-2.0	-2.2	-1.8	-1.8	-2.5	-3.9	-6.1	-8.1	-8.4	-9.9	-8.24	-1.76	
2-Apr	-11.9	-14.0	-15.4	-16.5	-17.5	-18.3	-18.9	-18.0	-13.7	-9.1	-6.3	-4.2	-3.0	-1.7	-0.6	-0.5	-0.5	-0.3	-1.6	-3.3	-4.6	-6.2	-8.2	-10.0	-8.51	-0.26	
3-Apr	-11.6	-13.0	-13.5	-13.4	-13.6	-13.6	-13.5	-12.7	-11.1	-9.4	-7.5	-5.4	-3.2	-1.7	-0.5	-1.0	-1.0	-1.4	-1.6	-3.0	-4.4	-5.6	-7.1	-8.7	-7.40	-0.50	
4-Apr	-10.0	-11.2	-11.5	-11.9	-11.6	-11.3	-11.3	-10.9	-10.4	-8.8	-7.3	-6.5	-5.8	-5.4	-5.1	-5.9	-5.7	-5.6	-6.2	-6.9	-7.2	-7.7	-8.3	-8.8	-8.39	-5.12	
5-Apr	-9.2	-9.3	-9.4	-9.7	-10.2	-10.7	-12.6	-13.5	-10.7	-9.3	-6.8	-5.7	-4.8	-3.8	-3.0	-2.8	-2.6	-3.1	-4.3	-5.9	-7.2	-8.3	-9.3	-10.3	-7.60	-2.63	
6-Apr	-11.5	-12.2	-12.8	-13.5	-14.1	-14.9	-15.5	-15.7	-14.6	-13.1	-11.4	-9.8	-8.0	-6.6	-5.7	-5.1	-5.0	-4.8	-5.3	-7.3	-9.0	-9.5	-9.8	-10.6	-10.24	-4.79	
7-Apr	-11.1	-11.2	-11.6	-12.0	-12.2	-12.3	-12.3	-12.2	-11.4	-10.0	-7.8	-6.4	-5.9	-4.7	-3.5	-2.2	-1.9	-2.6	-4.0	-5.5	-6.5	-7.2	-7.6	-8.0	-7.92	-1.87	
8-Apr	-8.4	-8.7	-9.1	-9.4	-9.6	-9.8	-9.9	-9.7	-8.5	-7.2	-5.6	-3.4	-1.5	0.2	1.7	2.4	3.3	4.3	4.3	3.4	2.3	0.6	-1.3	-1.5	-3.38	4.32	
9-Apr	-1.9	-2.3	-2.5	-2.5	-2.2	-2.0	-1.9	-1.4	-0.4	1.6	4.4	8.0	10.5	11.7	12.5	11.4	11.4	11.1	9.1	7.6	5.3	2.7	1.1	-0.7	3.77	12.51	
10-Apr	-1.7	-2.5	-2.8	-3.2	-3.6	-4.1	-4.3	-2.8	-0.7	4.0	7.2	10.0	10.5	11.2	11.1	9.2	7.2	6.1	4.4	2.6	1.2	0.0	-0.5	-0.7	2.41	11.23	
11-Apr	-0.5	-1.7	-2.8	-3.4	-3.6	-3.8	-4.3	-2.9	-0.6	3.3	8.1	9.5	9.8	9.5	10.0	8.9	9.0	8.4	7.3	6.2	4.5	3.4	2.4	0.7	3.22	9.96	
12-Apr	0.0	-0.1	-0.1	-0.2	-0.2	-0.1	-0.2	-0.2	0.1	0.2	0.2	-0.4	-0.6	-0.7	-0.5	-0.5	-0.6	-0.6	-0.7	-1.0	-1.4	-1.6	-1.7	-2.0	-0.54	0.22	
13-Apr	-2.3	-2.4	-2.2	-2.2	-2.0	-2.4	-3.0	-2.0	0.7	3.5	6.7	8.2	8.6	8.6	9.4	8.6	7.8	9.1	8.8	6.7	6.3	3.8	4.5	5.4	3.66	9.36	
14-Apr	3.0	0.5	1.7	2.8	3.9	2.5	1.9	1.7	3.8	6.0	7.9	8.2	9.3	9.4	9.4	9.7	8.8	7.8	7.1	5.8	4.8	3.1	1.2	-0.6	4.99	9.71	
15-Apr	-1.6	-1.7	-1.6	-1.4	-1.5	-1.6	-1.6	-0.9	0.3	2.2	3.3	3.2	3.5	3.7	3.9	4.1	4.7	4.2	3.4	3.3	2.7	1.8	0.1	-0.1	1.34	4.66	
16-Apr	0.0	0.1	0.3	0.3	0.0	-0.2	-0.2	-0.1	0.0	0.0	0.3	0.5	0.8	1.5	1.5	1.3	1.0	0.5	0.3	0.1	-0.1	-0.3	-0.4	-0.4	0.28	1.54	
17-Apr	-0.9	-1.1	-1.6	-2.0	-2.2	-2.4	-2.5	-2.4	-1.8	-1.0	-0.2	0.0	0.6	1.8	3.0	5.6	5.7	5.7	5.4	3.7	2.1	1.0	-1.3	-1.6	0.58	5.71	
18-Apr	-2.6	-3.1	-3.5	-4.3	-5.2	-5.7	-5.8	-2.9	1.4	5.1	7.0	7.7	8.5	9.1	9.9	9.3	9.1	9.7	8.7	8.1	6.2	3.2	0.3	-1.7	2.84	9.86	
19-Apr	-2.6	-3.1	-3.6	-4.1	-4.7	-5.0	-4.9	-1.3	2.4	5.5	7.8	10.3	11.4	11.8	12.7	13.4	12.3	10.9	9.9	9.1	8.7	8.3	6.7	5.5	4.90	13.43	
20-Apr	2.5	1.8	1.0	-0.4	-1.2	-1.6	-1.4	0.1	3.4	8.8	10.8	11.4	12.4	12.5	12.6	12.3	12.5	12.4	11.5	10.1	9.3	7.0	5.9	4.1	6.58	12.59	
21-Apr	3.1	2.5	2.6	2.4	1.9	1.6	1.4	2.7	6.4	10.3	10.7	11.6	11.3	9.6	7.4	10.4	10.2	9.6	8.7	7.7	5.6	3.9	3.7	3.1	6.18	11.56	
22-Apr	1.4	0.0	1.8	2.5	2.5	2.0	3.0	4.0	5.2	6.3	7.5	8.5	9.2	10.8	10.1	10.9	10.2	10.0	9.5	7.2	5.0	4.0	1.2	-1.7	5.47	10.87	
23-Apr	-2.3	-2.7	-3.7	-4.3	-4.8	-5.4	-5.0	0.2	3.4	5.7	8.3	10.8	12.8	14.0	15.2	16.3	16.8	16.6	16.0	14.7	12.4	11.0	9.7	6.8	6.76	16.80	
24-Apr	5.7	3.1	2.5	4.5	3.9	3.4	5.3	6.0	6.7	8.2	10.7	14.7	17.5	18.0	18.7	18.6	18.0	17.7	16.2	14.1	12.8	11.0	9.8	8.7	10.65	18.67	
25-Apr	7.2	6.2	4.7	3.3	2.4	2.0	2.3	4.2	8.1	10.6	10.9	12.4	13.7	15.3	16.8	18.1	19.1	19.2	17.7	15.5	13.0	10.4	7.1	4.9	10.21	19.18	
26-Apr	3.0	1.4	0.4	-0.6	-1.3	-1.4	-0.5	5.0	10.2	12.8	15.3	17.5	18.7	20.0	21.1	21.9	22.3	21.5	20.7	19.3	16.0	12.4	10.8	7.6	11.42	22.28	
27-Apr	5.1	3.3	2.0	1.1	0.0	-0.6	0.1	4.8	9.3	13.1	16.4	19.4	21.7	22.8	23.8	24.4	24.6	24.6	23.6	21.8	19.1	14.5	10.4	7.4	13.03	24.63	
28-Apr	5.3	4.1	3.1	2.4	1.1	0.4	1.2	6.3	11.0	14.8	17.9	20.5	22.4	22.9	23.9	23.6	23.7	22.5	21.1	19.8	17.7	15.7	15.3	14.8	13.80	23.92	
29-Apr	13.2	10.5	8.5	6.9	6.0	4.8	3.8	3.7	3.6	3.6	3.9	3.9	4.5	5.1	5.7	6.1	6.7	7.4	7.4	6.8	5.3	3.9	3.0	2.6	5.71	13.25	
30-Apr	2.0	1.0	-1.0	-2.2	-2.3	-2.5	-1.9	0.8	5.2	8.9	11.5	13.9	14.9	16.6	17.2	17.1	18.0	16.9	14.6	13.5	11.2	10.6	10.4	9.5	8.50	18.03	
		-1.70	-2.64	-3.13	-3.50	-3.87	-4.25	-4.25	-2.83	-0.54	1.88	3.91	5.47	6.57	7.32	7.89	8.11	8.11	7.87	6.98	5.67	4.16	2.60	1.31	0.12	Diurnal Average	
		13.25	10.53	8.46	6.86	5.95	4.81	5.30	6.27	11.02	14.79	17.93	20.47	22.38	22.86	23.92	24.43	24.57	24.63	23.61	21.82	19.14	15.68	15.33	14.76	Diurnal Maximum	



WCAS - Hinton
Summary of Hourly Averages

Wind Speed (WS) - kph
April 2018

Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1 Spd	0.1	0.2	1.1	0.7	2.0	1.4	2.0	2.1	3.3	4.6	5.6	6.0	7.0	6.2	6.8	5.7	6.4	6.0	6.4	4.1	1.4	0.5	1.0	1.7	3.15	6.96
Dir	NNW	NW	ENE	WNW	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ESE	ESE	ESE	E	ESE	ESE	E	NE	ENE	ENE
2 Spd	0.1	1.4	1.3	0.3	0.6	0.1	1.1	1.0	1.1	2.9	5.6	3.8	4.0	2.1	1.9	2.2	3.2	1.7	5.7	6.1	7.4	5.9	1.2	0.5	0.75	7.37
Dir	WSW	WSW	WSW	ESE	WSW	N	W	NNW	NW	WSW	SSW	SE	S	WSW	WNW	S	SSE	SSW	ENE	ENE	ENE	ENE	ENE	E	SE	ENE
3 Spd	0.6	0.2	0.4	1.3	1.9	3.2	3.1	3.4	4.9	3.9	3.4	5.2	6.2	7.3	7.4	6.0	6.1	6.7	7.9	7.9	6.3	5.9	4.3	4.3	4.38	7.94
Dir	E	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE	ENE	ENE	NE	NE	ENE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	E	E	ENE	ENE
4 Spd	4.6	3.1	3.3	0.3	0.5	1.2	0.8	1.0	1.5	1.6	1.0	3.0	4.8	5.5	5.2	4.2	3.4	4.7	3.4	3.9	1.5	3.0	3.3	3.9	2.00	5.51
Dir	ENE	ENE	ENE	N	SSW	W	WNW	WNW	WNW	WSW	SSW	NNE	N	N	N	NE	NNE	NNE	N	N	NNE	ENE	ENE	E	NNE	N
5 Spd	2.6	0.2	0.4	0.4	2.6	2.4	5.0	3.9	2.1	4.4	3.5	2.8	4.0	5.5	5.6	7.2	7.0	8.1	9.3	10.5	6.9	5.6	7.8	6.5	4.55	10.49
Dir	E	ENE	SSE	ENE	ENE	ENE	ENE	ENE	E	ENE	E	SE	SE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
6 Spd	5.2	6.1	8.3	8.0	7.2	6.8	4.5	6.9	6.9	6.5	6.5	9.2	9.2	8.5	8.4	8.6	6.7	7.2	6.7	6.6	7.6	7.2	8.0	7.8	6.82	9.19
Dir	ENE	ENE	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE	ENE	ESE	E	ESE	ESE	ESE	ESE	ESE	ESE	ENE	NE	ENE	ENE	ENE	E	ESE
7 Spd	7.3	7.6	7.9	8.3	8.4	7.2	7.0	6.8	8.6	8.0	6.8	6.9	7.4	7.6	7.2	6.9	8.9	8.7	9.2	8.4	7.2	5.4	5.0	5.3	7.24	9.23
Dir	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NNE	NNE	NNE	NE	NE	ENE	ENE	ENE	ENE	ENE	NE	NE	ENE	ENE	ENE
8 Spd	6.9	6.8	6.3	6.0	6.0	6.1	4.4	4.8	2.9	1.8	1.5	3.8	1.1	1.6	2.8	0.4	1.1	3.4	1.9	0.6	0.5	0.7	0.3	0.9	2.08	6.92
Dir	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	ESE	SSW	WNW	SW	W	NW	ESE	NNE	NE	NE	NE	E	S	N	SSW	ENE	ENE
9 Spd	1.1	0.3	0.5	1.1	1.9	1.0	1.6	1.1	1.2	1.3	1.0	1.8	1.0	3.8	8.7	7.5	5.5	5.4	2.4	1.6	3.2	1.1	1.9	0.9	1.93	8.67
Dir	W	WNW	W	WSW	SE	W	SW	WSW	WSW	SSE	W	ESE	SW	WSW	SW	WSW	WSW	WSW	W	SSW	S	SSE	SSW	WSW	SW	SW
10 Spd	0.3	0.1	0.3	0.4	0.3	0.3	0.7	0.1	1.4	2.7	1.3	5.6	7.4	7.0	7.1	9.2	8.7	7.9	7.5	5.8	4.6	3.9	2.0	0.9	3.34	9.22
Dir	SW	SSE	E	WSW	W	E	ENE	ENE	NE	ENE	ENE	ENE	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	ESE	ENE	ENE
11 Spd	0.5	1.5	0.6	0.4	2.1	1.5	0.4	0.7	1.2	1.9	3.5	5.4	1.5	8.3	10.4	6.9	9.9	6.8	7.9	9.1	5.3	6.5	6.6	4.5	2.85	10.37
Dir	SE	E	SE	SW	SW	SW	SW	W	SW	S	SW	SW	NNW	ENE	ENE	NE	ENE	E	ENE	ENE	ENE	ENE	NE	ENE	ENE	ENE
12 Spd	5.9	6.1	5.8	4.3	4.8	5.4	3.5	3.6	5.0	5.9	5.2	6.6	4.2	4.5	4.9	5.5	3.9	4.1	3.8	4.2	5.3	5.3	4.9	3.7	4.60	6.58
Dir	ENE	ENE	ENE	ENE	ESE	ESE	E	ENE	E	E	ENE	ENE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
13 Spd	1.0	0.8	2.1	0.7	1.1	0.3	1.0	0.9	0.4	1.3	4.9	9.7	7.9	7.9	6.8	3.4	3.9	4.1	3.8	1.2	4.1	1.2	2.9	5.1	2.68	9.70
Dir	ENE	SW	SW	WSW	SW	E	S	SE	SSE	SE	WSW	WSW	WSW	WSW	WSW	W	W	W	W	WSW	S	SE	SW	SW	WSW	WSW
14 Spd	5.4	0.2	4.0	1.9	2.4	6.8	2.4	1.3	1.6	7.7	10.1	12.8	12.6	12.6	11.0	10.4	11.8	11.2	9.8	6.0	7.9	1.8	0.8	1.2	6.05	12.83
Dir	SSW	ENE	WSW	WNW	WSW	SW	W	SSW	NE	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	W	ENE	WSW	SW
15 Spd	0.7	0.7	1.2	1.5	0.8	1.0	0.2	0.8	1.1	2.2	2.3	3.8	5.2	5.7	6.2	6.2	5.8	4.0	3.1	2.6	2.4	2.4	1.6	1.6	1.86	6.21
Dir	ENE	SW	WSW	ENE	NE	E	SE	WNW	NW	NW	W	ESE	ENE	ENE	ENE	ENE	ENE	NE	NNE	NNE	ENE	E	E	ESE	ENE	ENE
16 Spd	1.0	1.3	2.0	3.2	3.2	2.7	2.6	3.3	5.1	6.4	6.3	5.1	4.7	4.6	3.6	4.2	4.1	3.6	2.0	2.2	0.2	0.2	0.2	0.1	2.89	6.35
Dir	E	NE	NE	ENE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	NE	NE	NE	NE	WNW	WSW	W	ENE	ENE
17 Spd	0.1	0.0	0.1	0.2	0.2	0.1	0.2	0.1	2.1	3.7	1.5	1.0	2.8	4.4	5.7	4.6	7.1	7.5	5.6	2.9	2.6	2.4	1.5	3.8	1.94	7.50
Dir	N	W	S	SE	ESE	SSE	SSW	WSW	WSW	WSW	W	SE	SSW	SW	SW	WNW	NW	WNW	WNW	W	W	W	S	SW	W	WNW
18 Spd	2.0	2.1	2.0	1.2	0.3	0.2	0.1	0.3	0.3	3.7	6.7	6.5	5.1	5.6	6.4	4.8	6.8	4.8	2.7	3.5	3.8	2.1	0.6	1.4	2.90	6.80
Dir	SW	WSW	WSW	W	SSW	SSW	S	N	NNW	W	WSW	WSW	W	W	W	WSW	WSW	W	W	WSW	SW	WSW	SSW	WSW	WSW	WSW
19 Spd	0.1	0.5	0.4	0.2	0.6	0.3	0.2	2.0	3.0	3.5	5.3	4.9	5.9	7.9	6.8	8.2	12.7	10.9	7.8	5.6	6.5	7.3	3.1	2.7	4.17	12.67
Dir	SW	ENE	ESE	SW	E	E	ESE	W	WNW	WNW	WSW	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
20 Spd	1.2	0.7	0.6	1.4	1.4	2.0	1.1	1.9	1.2	5.0	7.8	7.6	8.1	9.6	8.8	4.7	3.6	5.7	5.3	5.5	2.4	2.0	2.6	1.9	2.89	9.63
Dir	WNW	E	S	ENE	ENE	E	ENE	ENE	ENE	W	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	SW	S	SSW	SSW	WSW	WSW
21 Spd	1.4	0.0	1.0	0.1	0.1	0.5	1.2	1.7	4.4	9.1	9.3	6.6	2.8	4.7	8.2	5.9	7.2	9.3	6.6	5.8	5.2	3.1	2.5	4.6	3.29	9.33
Dir	SW	NNW	WSW	SE	SE	WNW	SW	WSW	WSW	WSW	WSW	WSW	NNW	E	NW	WNW	WNW	NW	W	WNW	WNW	W	WSW	SW	W	WSW
22 Spd	1.9	1.0	2.3	2.8	3.0	2.1	6.1	5.7	4.4	5.3	5.6	7.5	7.2	6.2	5.1	4.6	3.8	5.5	7.2	3.6	2.2	4.4	2.2	0.2	3.56	7.46
Dir	WSW	WNW	WNW	WNW	W	W	WSW	WSW	W	WNW	WNW	NNW	NNW	NW	NW	NW	NW	WNW	NW	WNW	WSW	SW	SW	WSW	WNW	NNW



WCAS - Hinton
Summary of Hourly Averages

Wind Speed (WS) - kph
April 2018

Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
23 Spd	2.4	1.7	0.1	0.5	1.0	0.2	0.5	5.3	5.5	7.9	10.5	9.2	9.8	9.4	8.2	7.5	8.0	12.3	12.6	7.3	4.9	7.7	5.5	1.2	5.72	12.61	
Dir	SW	SW	ESE	WSW	WSW	S	WNW	WSW	WSW	WSW	SW	WSW	SW	SW	SW	SW	SW	SW	WSW	SW	SW	SW	SW	SW	SW	SW	SW
24 Spd	3.0	1.8	1.4	3.7	3.1	3.2	3.9	4.4	4.6	3.5	1.8	4.3	9.1	10.8	7.1	8.3	12.0	10.3	4.6	1.7	1.7	1.3	0.7	5.0	3.73	11.97	
Dir	WSW	WNW	NW	W	NW	WNW	W	WSW	WSW	WSW	NW	W	WSW	SW	WSW	SW	SW	SW	WSW	W	ENE	NNE	WNW	NNE	WSW	SW	
25 Spd	2.9	0.9	1.0	0.2	0.3	3.8	1.2	3.5	4.1	2.9	5.7	7.1	7.6	9.3	8.2	7.8	5.1	4.6	8.4	3.3	1.3	1.5	1.4	0.4	3.46	9.29	
Dir	E	SW	WSW	NNW	SSW	SW	SSW	WSW	SW	W	SW	SW	SW	SW	SW	SW	W	W	WSW	WSW	W	SSW	SW	SSE	SW	SW	
26 Spd	0.1	0.4	0.2	0.8	0.2	1.3	0.4	1.9	2.9	4.5	4.3	5.4	4.7	1.7	4.9	5.0	6.0	7.0	7.5	7.2	3.5	1.5	0.3	1.0	1.02	7.46	
Dir	ESE	NNW	ESE	SW	NW	NW	NNW	WNW	W	WSW	SW	S	SW	ESE	ESE	ENE	ENE	ENE	ENE	ENE	ENE	E	WNW	W	E	ENE	
27 Spd	0.2	0.6	1.6	2.5	3.1	2.1	1.2	0.6	2.9	3.2	3.5	3.7	3.5	8.4	5.8	9.1	6.9	4.5	4.8	1.6	2.5	1.6	0.8	1.3	2.64	9.09	
Dir	NW	W	W	W	W	W	W	NW	WNW	WNW	WNW	WNW	SW	SSW	S	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW
28 Spd	0.6	1.4	1.8	2.3	2.5	2.3	1.3	2.3	2.6	3.3	3.6	9.1	7.7	10.5	11.5	5.6	5.6	4.9	3.5	5.4	4.2	2.2	0.8	3.5	2.97	11.54	
Dir	WSW	WNW	W	W	W	W	W	WNW	WNW	WNW	WSW	SW	SW	SW	SW	WSW	WSW	WNW	WNW	NW	N	S	E	ENE	WSW	SW	
29 Spd	5.1	6.5	3.7	1.6	3.4	2.4	1.5	1.4	2.8	3.1	2.7	4.2	3.6	2.4	3.9	1.2	0.2	1.8	2.4	1.7	0.9	0.7	0.5	0.4	1.63	6.52	
Dir	N	NNW	NNW	NNE	NNE	N	N	NNE	N	N	NNE	E	E	ENE	ENE	E	ESE	WNW	W	NW	WSW	S	NNE	N	NNE	NNW	
30 Spd	0.4	1.9	0.2	0.2	0.6	0.8	1.0	1.8	3.1	3.9	5.6	4.8	8.3	4.9	9.5	11.6	6.1	4.6	4.3	2.4	1.3	3.4	3.7	6.6	3.11	11.60	
Dir	NNW	WSW	E	ENE	SSW	WSW	W	WNW	WNW	W	WSW	WSW	SW	WSW	SW	SW	W	WNW	WNW	WNW	WNW	NW	WNW	NNW	W	SW	
Spd	0.79	0.77	0.60	0.67	0.79	0.50	0.41	0.39	0.49	0.86	1.72	1.32	1.30	1.21	1.22	0.80	0.83	1.04	0.71	1.13	0.65	0.68	0.72	0.80	Diurnal Average		
Dir	ENE	NE	NE	NE	ENE	ENE	ENE	NNE	N	W	WSW	WSW	SW	SW	SW	WSW	W	WNW	NW	NNE	ENE	E	E	ENE	Diurnal Maximum		
Spd	7.33	7.61	8.29	8.34	8.40	7.18	7.03	6.88	8.56	9.10	10.52	12.83	12.57	12.61	11.54	11.60	12.67	12.26	12.61	10.49	7.92	7.69	8.01	7.79	Diurnal Maximum		
Dir	66.22	66.09	76.37	67.33	67.59	64.91	64.90	78.11	68.16	240.59	233.83	236.24	232.36	236.77	228.42	235.83	247.97	232.53	231.24	71.22	232.51	228.63	64.68	67.27	Diurnal Maximum		
Maximum Speed Value: 12.8 kph on Apr 14 12:00		Minimum Speed Value: 0.0 kph on Apr 17 02:00										Hours in Service: 720															
Maximum Daily Speed Average: 7.24 kph on Apr 7		Minimum Daily Speed Average: 0.75 kph on Apr 9										Hours of Data: 720															
Maximum Diurnal Speed Average: 1.72 kph at hour 11		Minimum Diurnal Speed Average: 0.39 kph at hour 8										Hours of Missing Data: 0															
Monthly Average Velocity: 0.127 kph 307.27 deg		Speed Percentiles: P ₁ = 0.1 P ₁₀ = 0.5 Q ₁ = 1.4 Median = 3.6 Q ₃ = 6.1 P ₉₀ = 7.9 P ₉₉ = 11.8										Percent Operational Time: 100.0															
All monthly, daily, and diurnal averages have been calculated using vector methods																											
Frequency Distribution																											
		Speed Range (kph)																									
Direction	0 to 5	5 to 11	11 to 19	19 to 28	28 to 38	> 38	Total																				
North	27	4	0	0	0	0	31																				
NorthEast	71	74	0	0	0	0	145																				
East	77	52	0	0	0	0	129																				
SouthEast	28	5	0	0	0	0	33																				
South	26	3	0	0	0	0	29																				
SouthWest	80	62	11	0	0	0	153																				
West	112	27	1	0	0	0	140																				
NorthWest	42	18	0	0	0	0	60																				
Total	463	245	12	0	0	0	720																				



WCAS - Hinton
Summary of Hourly Averages

Relative Humidity (RH) - %
April 2018

Maximum Value: 97.26 % on Apr 16 10:00 Maximum Daily Average: 92.94 % on Apr 16																								Hours in Service: 720		
Minimum Value: 5.9 % on Apr 24 16:00 Minimum Daily Average: 22.80 % on Apr 24																								Hours of Data: 720		
Maximum Diurnal Average: 77.11 % at hour 7 Minimum Diurnal Average: 32.28 % at hour 17																								Hours of Missing Data: 0		
Monthly Average: 52.470 % Percentiles: P₁ = 7.8 P₁₀ = 19.8 Q₁ = 28.8 Median = 54.5 O₃ = 72.2 P₉₀ = 84.7 P₉₉ = 96.4																								Hours of Calibration: 0		
Percent Operational Time: 100.0																										
Day	Hourly Period Ending At																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Apr	84.4	85.3	84.4	84.7	84.3	84.0	83.1	82.5	78.7	66.8	50.6	43.9	40.3	36.2	33.3	31.6	29.8	28.5	27.6	31.8	46.5	58.6	59.9	62.1	58.29	85.35
2-Apr	70.3	75.8	78.2	80.2	80.9	80.7	80.0	79.2	70.1	52.6	35.6	30.3	26.1	25.6	22.9	22.7	20.6	19.7	25.5	29.9	36.1	41.7	52.3	61.1	49.91	80.85
3-Apr	65.8	70.3	73.1	69.9	71.9	71.9	71.4	69.9	60.3	54.2	51.1	47.0	41.6	39.9	36.6	36.4	37.8	38.6	36.3	39.3	43.0	46.9	52.0	56.8	53.41	73.06
4-Apr	60.6	65.1	66.7	70.1	72.4	72.2	80.5	82.3	82.7	79.9	69.6	63.4	53.6	48.8	47.9	47.5	47.4	45.2	45.6	46.9	47.3	50.1	51.0	53.9	60.44	82.73
5-Apr	55.7	58.3	60.7	63.2	62.5	64.0	66.8	66.4	55.1	47.2	36.9	32.3	30.6	28.8	27.5	26.3	25.9	25.9	28.0	31.3	35.3	41.7	46.4	51.3	44.50	66.76
6-Apr	56.5	59.3	61.1	63.6	66.1	67.6	69.3	68.9	64.9	60.3	56.0	52.7	49.8	50.7	52.4	53.1	61.4	59.4	65.3	77.2	79.0	77.2	77.8	80.3	63.75	80.25
7-Apr	78.9	77.1	77.9	78.6	78.6	78.4	77.6	76.3	72.6	66.7	59.5	56.8	56.7	54.9	52.4	48.7	47.3	48.0	52.1	59.8	64.7	67.2	67.5	67.4	65.24	78.94
8-Apr	68.3	71.4	76.7	80.0	81.0	81.2	82.3	80.8	74.3	69.3	63.6	59.6	53.3	48.2	45.0	42.1	38.9	35.8	36.4	38.5	47.5	58.2	68.4	68.2	61.21	82.33
9-Apr	70.3	72.0	72.2	72.2	71.0	70.8	70.2	68.3	64.3	59.3	53.4	42.7	33.1	30.4	27.1	30.2	31.4	33.1	42.2	45.8	55.8	65.8	72.0	79.5	55.54	79.49
10-Apr	82.8	85.7	87.0	88.4	90.7	91.9	92.8	89.3	78.4	61.4	45.9	35.7	29.0	28.4	29.3	40.5	47.7	51.0	54.3	58.0	62.6	70.8	77.2	79.3	64.92	92.81
11-Apr	85.5	88.9	91.7	92.9	93.9	93.8	93.6	91.2	83.8	67.8	40.9	28.4	28.2	33.1	33.2	34.0	30.7	35.7	40.5	42.9	50.2	54.9	61.4	70.9	61.16	93.85
12-Apr	74.3	74.9	74.9	75.0	75.4	75.3	75.8	76.4	74.1	72.1	72.2	78.3	79.9	81.3	80.8	81.3	81.2	81.7	82.1	86.9	91.3	93.0	93.7	93.5	80.23	93.67
13-Apr	94.0	94.8	94.8	94.8	94.4	94.9	95.4	93.2	77.6	62.4	39.4	26.2	23.8	22.6	21.9	25.6	28.8	27.7	30.2	34.8	35.1	45.9	44.6	41.1	56.00	95.36
14-Apr	52.5	64.1	67.9	63.9	56.8	70.8	73.3	76.3	63.8	40.4	29.6	28.7	21.6	20.9	21.8	21.4	22.3	25.7	28.4	34.0	36.3	44.0	51.3	61.5	44.89	76.33
15-Apr	66.9	68.8	70.6	69.8	71.6	71.9	72.7	74.4	68.6	60.9	57.3	53.6	56.6	59.8	60.4	58.7	59.0	62.9	66.4	63.8	65.2	68.6	75.7	77.3	65.89	77.34
16-Apr	79.2	81.2	82.9	85.3	93.0	95.7	96.7	97.0	97.1	97.3	97.1	95.9	95.2	89.2	90.3	91.3	93.3	94.7	95.8	96.0	96.0	96.5	97.1	97.0	92.94	97.26
17-Apr	95.4	89.3	91.3	92.2	91.9	89.4	86.8	85.2	76.3	70.2	68.9	73.3	69.7	66.3	63.6	50.5	36.9	32.0	32.6	44.1	50.7	55.0	68.1	68.3	68.67	95.45
18-Apr	75.0	78.1	79.5	82.7	86.1	91.7	93.0	86.1	62.7	41.0	28.8	26.0	23.7	21.1	19.8	20.6	21.2	20.9	24.4	24.7	28.8	39.6	56.5	66.8	49.96	93.01
19-Apr	72.8	76.3	79.0	81.9	83.9	85.2	86.3	71.6	53.2	39.5	29.8	24.4	22.9	21.4	20.4	18.9	18.8	21.5	24.6	27.5	28.3	29.1	34.5	38.2	45.42	86.29
20-Apr	50.0	55.5	61.2	68.7	71.8	74.3	74.7	70.6	60.0	37.0	28.2	27.0	25.3	23.9	24.7	26.1	27.2	25.4	28.2	31.2	32.9	42.0	47.2	55.1	44.51	74.74
21-Apr	60.1	64.3	66.1	66.8	69.8	72.1	73.8	67.9	54.7	32.8	26.9	24.6	32.7	39.1	43.7	27.0	24.4	25.3	27.8	27.5	30.4	38.0	37.3	36.6	44.57	73.79
22-Apr	42.9	47.9	41.0	36.2	31.7	34.2	30.0	28.2	26.1	22.6	20.0	19.9	18.8	17.3	16.7	15.8	16.1	16.1	15.2	20.0	22.7	25.2	36.1	53.2	27.25	53.21
23-Apr	57.7	59.1	66.3	71.9	75.3	77.7	77.7	51.3	37.1	28.2	21.1	15.8	12.5	10.1	8.9	9.2	9.3	8.6	8.2	10.8	14.6	15.5	18.0	25.1	32.91	77.73
24-Apr	28.2	35.3	43.2	36.5	40.5	42.1	31.8	28.6	27.6	24.2	20.9	12.9	7.4	6.8	6.3	5.9	6.3	7.1	11.8	17.5	18.5	21.8	25.4	40.6	22.80	43.17
25-Apr	55.2	59.7	65.8	70.7	73.6	69.5	65.1	61.7	39.1	26.2	25.1	20.3	16.9	13.7	10.6	8.1	7.8	9.5	12.8	19.0	24.4	29.3	41.5	50.4	36.50	73.64
26-Apr	58.0	62.9	69.5	73.7	77.1	79.1	76.9	60.2	36.0	26.4	22.0	18.7	17.4	16.1	14.9	14.2	14.7	16.4	17.7	19.8	26.7	38.2	42.5	55.6	39.78	79.09
27-Apr	65.7	71.9	78.3	81.3	84.5	87.2	84.9	66.4	47.8	35.5	26.4	20.5	14.7	11.4	9.0	8.5	8.5	8.2	9.1	13.5	16.9	26.5	43.3	53.8	40.57	87.25
28-Apr	63.4	67.6	68.1	67.9	72.1	75.3	81.4	60.8	41.1	28.5	21.0	14.1	9.8	8.8	7.4	8.8	8.6	10.8	13.6	15.6	20.0	25.1	26.2	20.9	34.87	81.37
29-Apr	21.6	35.4	49.5	54.3	60.5	71.8	76.1	71.1	70.2	68.7	67.4	67.8	64.5	61.0	58.1	55.5	52.1	48.8	49.4	54.9	62.3	69.7	74.8	76.3	60.07	76.26
30-Apr	80.0	84.6	88.5	92.0	93.0	93.1	93.5	84.7	65.7	49.6	38.3	26.2	22.0	19.5	17.1	15.3	13.4	15.2	18.8	20.9	29.8	25.7	25.0	37.9	47.91	93.49
65.74 69.36 72.27 73.64 75.21 76.93 77.11 72.23 62.13 51.63 43.45 38.89 35.93 34.51 33.48 32.53 32.28 32.64 35.03 38.79 43.30 48.72 54.15 59.33																								Diurnal Average		
95.45 94.81 94.78 94.82 94.43 95.73 96.66 97.00 97.13 97.26 97.11 95.91 95.16 89.23 90.32 91.26 93.31 94.69 95.76 96.01 96.00 96.50 97.07 96.96																								Diurnal Maximum		



WCAS - Hinton
Summary of Hourly Standard Deviations

Wind Speed (WS) - kph
April 2018

Maximum Value: 7.87 kph on Apr 14 11:00 Maximum Daily Average: 4.39 kph on Apr 14		Hours in Service: 720 Hours of Data: 720 Hours of Missing Data: 0 Hours of Calibration: 0 Percent Operational Time: 100.0																								
Minimum Value: 0.0 kph on Apr 16 22:00 Maximum Diurnal Average: 4.23 kph at hour 15 Monthly Average: 2.664 kph		Minimum Daily Average: 1.79 kph on Apr 17 Minimum Diurnal Average: 1.47 kph at hour 2 Percentiles: P ₁ = 0.0 P ₁₀ = 1.0 Q ₁ = 1.5 Median = 2.5 Q ₃ = 3.6 P ₉₀ = 4.8 P ₉₉ = 6.7																								
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Apr	0.6	0.4	1.5	1.0	1.6	1.2	1.5	1.4	1.4	1.8	2.6	3.1	3.8	3.6	3.5	3.1	3.5	3.1	2.9	1.8	1.4	1.7	1.7	1.6	2.08	3.77
2-Apr	0.6	1.2	1.3	0.8	0.9	0.2	1.3	1.2	1.6	2.7	2.2	2.2	2.7	2.5	2.3	2.6	2.7	2.6	3.0	2.8	3.4	3.2	1.5	0.8	1.93	3.44
3-Apr	0.9	0.3	0.7	1.3	1.5	1.7	1.3	1.6	2.4	2.2	2.4	2.9	3.1	3.7	4.1	3.7	3.4	3.7	3.5	3.0	2.3	2.4	1.9	1.6	2.32	4.11
4-Apr	2.1	1.6	2.1	0.6	1.8	1.3	1.0	1.1	1.4	1.7	2.0	2.8	3.0	3.7	3.5	2.7	2.7	3.1	2.5	2.3	1.9	2.1	2.0	2.1	2.13	3.69
5-Apr	1.6	0.7	0.8	0.9	1.4	1.5	1.7	1.6	1.2	2.3	2.2	3.0	3.3	3.4	3.3	3.2	4.2	4.2	4.2	4.0	3.1	2.6	3.8	3.4	2.56	4.20
6-Apr	3.3	3.6	3.1	3.6	3.1	2.6	1.9	2.3	3.0	2.9	3.2	4.0	4.1	3.8	4.0	3.9	3.1	3.1	3.4	3.8	3.5	3.1	3.8	3.1	3.30	4.05
7-Apr	2.9	3.2	2.9	2.9	2.9	2.9	3.1	3.2	3.2	3.6	3.6	4.2	4.8	4.8	4.1	4.9	4.9	4.6	4.1	3.8	3.8	3.4	2.7	3.0	3.65	4.91
8-Apr	3.0	3.0	2.7	2.3	2.5	2.5	1.9	1.9	1.8	1.7	1.5	1.9	1.8	1.9	1.8	1.4	1.6	1.8	1.8	1.0	0.8	1.3	0.9	1.6	1.85	3.01
9-Apr	1.1	0.6	0.9	1.4	2.0	1.2	1.8	1.6	1.3	1.3	1.4	2.0	3.3	3.8	6.6	5.7	4.4	4.0	2.7	1.9	2.0	2.0	1.8	1.7	2.35	6.56
10-Apr	1.1	0.5	1.1	0.8	1.0	0.5	0.9	0.5	1.4	1.7	2.0	3.3	3.7	3.8	3.9	4.9	4.3	3.7	3.8	3.5	2.5	2.8	1.5	1.5	2.27	4.85
11-Apr	2.1	1.3	1.5	0.9	1.8	1.4	1.0	1.1	1.5	1.7	3.5	4.6	3.8	3.7	4.3	4.3	4.5	3.4	3.2	3.6	3.3	3.1	3.8	3.2	2.77	4.64
12-Apr	3.1	2.7	2.4	2.1	2.5	2.7	2.3	2.2	2.0	2.5	2.7	3.5	3.0	3.0	3.2	3.3	3.0	2.7	2.8	2.4	2.3	2.0	2.0	1.6	2.57	3.51
13-Apr	1.0	1.4	1.7	0.9	1.3	0.7	1.8	1.2	1.5	1.7	5.8	6.1	5.1	5.4	5.2	2.8	3.6	3.1	2.9	2.1	3.1	1.9	3.6	3.4	2.81	6.12
14-Apr	2.5	1.7	2.9	2.8	3.7	4.9	2.7	1.6	2.0	5.4	7.9	7.0	7.5	7.5	7.2	6.8	6.6	6.1	5.7	4.5	3.8	1.8	1.4	1.3	4.39	7.87
15-Apr	1.3	1.3	1.3	1.5	1.3	1.4	0.4	0.9	1.1	1.4	1.8	2.8	3.0	3.1	3.2	2.9	3.3	2.6	2.2	2.2	2.0	1.8	1.4	1.3	1.90	3.33
16-Apr	1.2	1.3	1.7	2.1	2.3	2.1	2.2	2.2	3.0	2.9	2.4	2.5	3.0	3.0	2.5	2.6	2.8	2.4	1.9	1.7	0.4	0.0	0.0	0.0	1.93	3.03
17-Apr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	2.8	1.8	1.8	1.7	2.5	2.7	3.3	3.6	3.6	3.5	2.7	2.9	2.7	1.7	2.6	1.79	3.57
18-Apr	1.9	1.6	1.2	1.4	1.0	1.2	1.1	1.1	0.9	4.0	4.8	4.8	3.3	4.0	4.8	3.8	4.5	4.0	2.5	3.1	2.3	1.3	1.2	1.2	2.54	4.85
19-Apr	0.8	0.8	1.2	0.8	1.0	0.9	0.7	1.5	1.8	2.3	3.6	4.1	4.4	5.5	5.6	6.3	6.8	7.2	5.9	4.5	4.6	5.0	2.7	2.4	3.35	7.18
20-Apr	1.5	1.0	1.6	1.7	2.0	1.7	1.1	1.4	1.5	5.0	5.1	5.2	5.9	6.3	6.5	3.7	3.1	4.2	4.8	4.6	2.4	1.7	1.7	1.6	3.13	6.47
21-Apr	1.3	1.5	1.4	0.6	0.7	0.9	1.6	1.4	2.5	4.2	5.3	5.5	4.5	3.7	5.8	4.4	5.2	4.6	5.3	3.5	4.3	2.7	2.5	2.4	3.16	5.77
22-Apr	2.1	1.7	1.8	2.3	2.7	2.2	4.5	4.3	4.0	3.9	3.3	4.3	4.1	3.9	3.6	3.2	2.5	3.0	3.1	2.4	1.6	2.3	1.9	0.8	2.89	4.47
23-Apr	1.5	1.5	0.0	0.8	1.2	0.5	1.0	4.1	4.1	4.3	4.9	5.6	5.6	5.2	4.3	4.9	5.3	6.2	6.0	5.6	2.7	2.8	3.4	2.2	3.49	6.23
24-Apr	3.1	1.5	1.4	3.5	1.9	1.9	3.0	3.0	2.9	2.8	2.0	4.9	6.5	6.2	5.2	6.3	6.0	5.6	5.0	1.9	2.6	1.2	1.4	4.7	3.52	6.51
25-Apr	2.5	1.1	2.0	1.2	1.6	1.9	1.3	4.1	2.9	3.0	3.6	4.4	4.1	4.9	5.0	5.7	4.5	4.2	5.9	3.9	1.7	1.2	1.3	1.3	3.05	5.89
26-Apr	0.7	0.9	1.3	1.2	0.6	1.4	1.1	1.3	2.3	3.1	3.0	3.4	4.1	3.2	2.9	3.2	3.8	4.0	3.6	2.4	2.3	2.2	2.1	1.4	2.30	4.06
27-Apr	1.1	1.2	1.2	1.0	0.7	1.6	1.2	1.3	1.7	2.0	2.6	2.6	2.7	3.9	3.9	4.2	4.1	3.3	3.8	2.1	1.5	1.3	1.2	1.1	2.13	4.15
28-Apr	1.0	1.3	1.5	1.4	1.2	1.3	1.1	1.4	2.0	2.5	3.0	5.1	4.2	5.3	6.0	5.7	4.4	3.0	2.3	2.2	2.9	2.2	3.4	2.9	2.80	6.04
29-Apr	4.4	4.2	3.0	3.3	3.0	1.8	2.2	1.9	2.1	2.2	2.0	2.1	2.2	2.1	2.2	2.0	1.9	1.7	1.6	1.2	0.9	1.3	1.2	1.3	2.17	4.43
30-Apr	1.1	1.0	0.4	0.6	1.0	0.9	1.2	1.5	2.2	3.1	3.5	3.7	4.6	4.1	6.1	6.2	4.9	3.9	3.3	2.7	1.4	2.3	2.7	4.4	2.79	6.18
																								Diurnal Average		
																								Diurnal Maximum		



WCAS - Hinton
Summary of Hourly Standard Deviations

Wind Direction (WD) - deg
April 2018

Maximum Value: 103.93 deg on Apr 29 17:00		Maximum Daily Average: 59.01 deg on Apr 26		Hours in Service: 720																																													
Minimum Value: 16.4 deg on Apr 27 05:00		Minimum Daily Average: 29.11 deg on Apr 6		Hours of Data: 720																																													
Maximum Diurnal Average: 59.16 deg at hour 1		Minimum Diurnal Average: 37.16 deg at hour 19		Hours of Missing Data: 0																																													
Monthly Average: 48.098 deg		Percentiles: P ₁ = 21.2 P ₁₀ = 27.5 Q ₁ = 34.3 Median = 42.8 Q ₃ = 58.1 P ₉₀ = 79.3 P ₉₉ = 98.8		Hours of Calibration: 0																																													
				Percent Operational Time: 100.0																																													
Day	Hourly Period Ending At																								Daily Average	Daily Maximum																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																									
1-Apr	79.4	60.0	34.2	49.6	36.0	34.3	38.7	34.3	20.4	27.0	31.3	34.7	35.1	37.7	33.9	31.0	38.7	28.3	24.8	24.1	41.6	80.1	74.5	33.9	40.14	80.07																							
2-Apr	84.5	30.4	52.0	78.9	54.1	66.4	68.1	64.1	86.8	49.0	38.7	46.1	40.1	75.4	68.9	66.6	63.3	82.5	33.2	27.7	27.3	23.4	36.8	64.2	55.35	86.80																							
3-Apr	71.1	35.3	20.0	34.2	32.0	24.9	21.7	29.4	31.1	35.6	43.4	41.6	41.9	35.8	36.7	41.6	37.4	35.4	26.4	22.9	21.3	24.2	22.1	21.5	32.81	71.05																							
4-Apr	25.6	24.2	39.1	60.0	70.6	38.0	44.1	38.0	36.1	63.0	89.4	63.8	46.8	42.2	40.4	47.6	54.3	42.4	39.5	32.1	66.1	38.3	36.0	31.9	46.23	89.40																							
5-Apr	29.7	81.4	81.7	69.9	25.1	29.1	24.7	26.2	26.3	23.1	47.2	76.2	60.1	43.9	46.2	34.1	36.2	33.4	27.8	24.5	26.6	28.4	29.8	38.6	40.42	81.75																							
6-Apr	40.2	41.0	23.6	25.6	27.0	22.1	22.8	21.1	28.6	33.2	35.6	29.1	28.4	28.2	30.4	27.0	26.7	28.7	29.4	36.3	29.9	28.3	29.4	25.9	29.11	41.03																							
7-Apr	25.1	27.3	27.3	26.0	26.2	28.1	27.2	31.2	27.4	32.5	39.5	42.5	44.7	44.1	41.4	46.1	37.7	36.0	27.2	30.7	36.5	40.0	35.2	37.5	34.06	46.12																							
8-Apr	30.6	30.1	29.9	27.1	28.9	28.6	28.6	27.4	37.9	57.3	64.4	32.3	74.3	68.1	39.4	97.6	74.8	35.1	37.9	44.1	45.9	90.4	80.4	82.3	49.72	97.58																							
9-Apr	31.9	61.4	46.1	42.0	71.6	53.0	47.2	51.0	51.7	53.0	69.5	74.1	99.5	52.5	39.7	41.6	43.1	43.4	49.2	62.7	27.8	70.4	57.3	88.4	55.33	99.48																							
10-Apr	99.6	67.7	76.0	60.5	84.2	51.7	37.6	89.6	51.5	46.7	93.3	39.6	29.6	32.4	39.2	34.2	34.3	36.7	36.2	41.9	39.8	40.1	52.1	69.0	53.49	99.56																							
11-Apr	91.6	42.5	77.2	84.8	28.2	42.9	91.7	64.7	69.4	65.9	62.6	55.6	90.9	34.5	31.8	43.8	34.7	29.3	28.4	27.2	38.1	32.3	39.2	45.4	52.19	91.66																							
12-Apr	37.3	34.5	26.8	29.6	34.7	28.8	34.1	44.3	33.4	32.5	40.8	39.8	48.5	47.4	44.8	45.1	49.1	45.8	48.6	41.9	34.3	28.8	30.1	27.5	37.85	49.15																							
13-Apr	29.0	57.0	57.1	54.2	66.7	64.0	93.1	51.6	92.3	61.3	70.6	39.1	39.6	40.7	46.6	46.4	53.6	45.4	41.3	81.4	50.3	95.9	73.6	35.3	57.75	95.85																							
14-Apr	29.1	100.4	42.3	74.4	78.0	44.1	60.2	77.9	76.3	58.2	44.2	31.7	37.6	36.3	38.9	40.5	31.2	29.3	36.1	41.0	27.3	61.3	74.6	48.4	50.80	100.38																							
15-Apr	76.0	90.0	56.6	75.7	70.6	55.3	62.3	42.2	45.4	32.9	51.0	53.4	47.0	42.5	40.6	38.2	41.3	47.0	40.8	45.0	40.7	38.3	52.1	61.5	51.94	89.98																							
16-Apr	70.3	53.0	50.5	36.8	48.3	51.0	56.0	44.3	38.8	34.0	30.6	37.7	47.2	44.7	47.6	43.8	46.7	46.2	49.4	45.5	72.9	35.9	45.1	56.8	47.21	72.90																							
17-Apr	82.3	96.5	76.9	25.3	30.6	50.8	42.8	48.3	35.5	58.1	79.7	98.6	67.6	44.8	40.7	45.2	26.3	26.0	31.3	47.0	47.4	80.9	67.4	36.1	53.58	98.60																							
18-Apr	70.4	44.2	39.7	85.6	84.8	94.0	89.8	79.2	88.6	52.8	44.2	40.9	42.1	43.9	42.9	51.9	42.3	48.1	43.8	41.1	25.2	34.7	74.1	34.9	55.80	94.03																							
19-Apr	72.6	57.2	73.0	100.6	75.6	70.5	84.8	43.0	31.2	39.7	46.0	51.2	44.9	40.9	49.3	42.3	30.7	36.2	41.2	40.9	36.8	37.2	38.2	68.6	52.20	100.57																							
20-Apr	65.4	74.4	93.9	63.7	77.9	67.6	71.5	49.5	73.3	69.1	38.2	38.0	42.3	39.5	39.7	48.2	48.1	42.6	50.1	47.5	62.6	62.7	48.7	49.8	56.84	93.88																							
21-Apr	55.1	91.0	52.3	67.1	92.1	88.0	67.6	45.1	31.0	26.2	33.0	42.9	80.8	57.3	41.6	39.1	34.4	24.1	41.4	31.5	41.9	45.4	46.0	26.2	50.04	92.06																							
22-Apr	35.5	39.6	34.8	37.7	47.5	48.3	36.9	46.2	48.5	40.6	33.3	31.0	33.5	42.8	52.7	45.5	46.3	30.2	23.0	36.8	29.3	27.2	32.9	84.3	40.17	84.26																							
23-Apr	28.4	33.1	72.3	51.3	37.9	64.7	96.2	36.9	43.0	36.9	28.6	36.9	35.3	39.0	36.6	45.1	42.4	28.6	25.1	40.2	30.4	18.4	22.4	86.9	42.36	96.23																							
24-Apr	68.0	38.4	51.2	40.9	36.2	29.7	40.5	39.3	37.2	46.0	69.8	61.2	41.1	32.6	45.5	44.0	26.8	31.0	51.7	44.3	86.4	42.5	83.2	61.7	47.88	86.37																							
25-Apr	73.7	82.6	79.0	83.0	99.7	36.2	64.9	56.1	53.1	66.0	48.2	46.2	39.8	38.5	45.8	43.0	51.5	51.4	38.8	56.8	55.6	51.9	52.8	95.7	58.75	99.70																							
26-Apr	87.1	65.3	92.4	64.6	79.0	65.2	90.1	32.4	44.5	42.6	54.7	46.9	78.1	83.1	48.5	49.6	41.8	37.4	33.4	19.0	23.2	58.4	99.0	79.9	59.01	98.98																							
27-Apr	97.0	93.8	38.1	20.5	16.4	27.0	44.6	82.0	35.1	42.7	48.3	50.6	59.3	37.7	53.1	30.3	34.4	50.2	46.1	38.1	25.0	33.3	68.1	40.7	46.35	96.99																							
28-Apr	55.1	33.8	28.2	23.6	24.6	27.1	26.7	30.1	42.4	42.3	51.0	30.4	36.7	33.9	31.8	53.1	46.8	33.6	33.6	19.4	35.6	86.7	98.9	58.2	40.98	98.88																							
29-Apr	47.0	33.3	43.0	82.1	47.5	36.9	73.6	76.1	43.1	39.4	49.8	34.2	47.3	60.5	50.7	86.5	103.9	70.2	41.1	29.9	50.8	87.5	77.9	89.4	58.41	103.93																							
30-Apr	86.1	22.6	66.3	56.6	83.2	21.4	43.0	35.3	41.4	47.1	44.2	51.3	43.0	60.1	40.8	31.3	47.5	46.0	38.1	44.3	48.8	35.0	42.0	32.8	46.18	86.10																							
																								59.16	54.73	52.72	54.39	53.84	46.34	54.37	47.90	46.71	45.14	50.69	46.58	50.10	45.36	42.87	46.01	44.22	40.01	37.16	38.87	40.85	48.60	53.99	53.78	Diurnal Average	
																								99.56	100.38	93.88	100.57	99.70	94.03	96.23	89.65	92.28	69.07	93.34	98.60	99.48	83.05	68.86	97.58	103.93	82.49	51.65	81.43	86.37	95.85	98.98	95.74	Diurnal Maximum	

WEST CENTRAL AIRSHED SOCIETY

**CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT**

**END OF REPORT
APRIL 2018**