

WEST CENTRAL AIRSHED SOCIETY

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

**AMS 910
GENESEE
APRIL 2015**

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

Capital Power / Genesee Station 910													April 2015
Parameter	Calibration Hours	Number of Data	Percent Uptime	Mean	Total	Min	Max	----- P10	----- Q1	Percentile Median	----- Q3	----- P90	24 Hour Average Max (ppm)
SO ₂ (ppb)	33	675	98.3	0.8	-	0.0	30.9	0.0	0.0	0.0	0.3	2.2	0.006
O ₃ (ppb)	33	675	98.3	30.0	-	4.9	53.9	18.4	23.5	28.7	36.6	44.0	0.040
NO (ppb)	35	673	98.3	0.5	-	0.0	18.2	0.0	0.0	0.2	0.5	1.0	-
NO ₂ (ppb)	35	673	98.3	2.1	-	0.0	19.2	0.0	0.3	1.2	2.6	5.5	0.005
NO _x (ppb)	35	673	98.3	2.6	-	0.0	34.3	0.1	0.5	1.4	2.9	6.4	-
Particulate Matter 2.5 microns (µ/m ³)	1	707	98.3	2.2	-	0.0	10.3	0.0	0.6	1.9	3.3	4.7	4.36 ug/m3
Wind Speed (kph)	0	708	98.3	14.7	-	0.8	50.5	6.0	8.5	12.8	17.9	27.4	-
Temperature - 2m (°C)	0	708	98.3	6.3	-	-4.7	24.4	-0.7	1.2	5.1	10.0	15.8	-
Temperature - 10m (°C)	0	708	98.3	6.0	-	-4.3	24.3	-0.9	1.6	4.7	9.6	15.0	-
Delta Temperature (°C)	0	708	98.3	-0.3	-	-3.5	3.9	-2.0	-1.3	-0.5	0.6	1.7	-
Relative Humidity (%)	0	708	98.3	54.1	-	15.4	95.4	23.4	33.9	54.4	74.3	88.3	-
Global Solar Radiation (W/m ²)	0	708	98.3	201.6	-	0.0	838.2	0.0	0.0	75.2	360.5	622.0	-
Precipitation (mm)	0	708	98.3	-	2.8	0.0	0.9	0.0	0.0	0.0	0.0	0.0	-
Std Dev Wind Direction (deg)	0	708	98.3	17.5	-	2.4	91.5	6.9	9.3	12.6	19.6	35.5	-
Std Dev Wind Speed (kph)	0	708	98.3	3.6	-	0.6	19.5	1.3	1.9	3.1	4.9	6.4	-



WCAS - Genesee
Summary of Hourly Averages

Sulphur Dioxide (SO₂) - ppb
April 2015

Maximum Value: 30.88 ppb on Apr 3 12:00		Maximum Daily Average: 5.72 ppb on Apr 3		Hours in Service: 720																							
Minimum Value: 0.0 ppb on Apr 1 01:00		Minimum Daily Average: 0.00 ppb on Apr 27		Hours of Data: 675																							
Maximum Diurnal Average: 1.87 ppb at hour 12		Minimum Diurnal Average: 0.02 ppb at hour 7		Hours of Missing Data: 45																							
Monthly Average: 0.767 ppb		Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 0.0 Q ₃ = 0.3 P ₉₀ = 2.2 P ₉₉ = 13.5		Hours of Calibration: 33																							
				Percent Operational Time: 98.3																							
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	Z	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.2	1.9	1.5	0.9	0.5	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.30	1.93	
2-Apr	2.6	0.9	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	7.8	2.7	3.1	4.8	0.0	0.1	1.1	3.9	4.1	3.2	6.4	7.4	2.14	7.80	
3-Apr	1.1	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.2	1.2	5.2	30.9	25.0	22.1	14.1	9.4	13.6	1.2	0.0	0.0	0.1	2.3	2.0	3.1	5.72	30.88	
4-Apr	2.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	2.03	
5-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.27	
6-Apr	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	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.56	
7-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	1.7	0.3	0.6	3.4	4.0	6.8	12.9	5.2	3.5	1.1	1.0	1.8	1.8	2.07	12.86	
8-Apr	1.4	0.5	Z	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.3	1.6	0.0	0.0	0.0	0.0	0.0	0.23	1.63	
9-Apr	0.0	0.0	Z	0.0	0.0	0.1	0.0	0.0	0.1	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	0.0	0.01	0.08	
10-Apr	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	0.0	0.0	0.0	0.0	PF	PF	PF	0.00	0.01	
11-Apr	PF	PF	PF	PF	PF	PF	PF	PF	PF	0.9	1.0	0.9	4.3	4.5	3.2	2.1	1.3	0.4	0.1	0.9	1.5	0.0	0.0	0.0	--	4.48	
12-Apr	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	0.2	0.0	0.0	0.0	2.9	1.1	0.0	0.0	0.0	0.0	0.18	2.94	
13-Apr	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	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.02	0.29	
14-Apr	0.3	0.0	Z	0.6	0.1	0.0	0.1	0.2	0.4	5.7	16.4	10.0	5.3	1.3	0.0	0.0	1.7	1.5	1.2	0.6	0.2	4.0	0.5	0.4	2.20	16.37	
15-Apr	0.9	0.6	Z	0.3	1.4	0.0	0.0	0.0	0.3	14.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.1	2.9	2.8	1.6	0.0	1.42	14.26	
16-Apr	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	4.8	2.0	1.2	0.0	0.0	0.0	0.0	0.0	0.35	4.77	
17-Apr	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	0.3	1.2	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.13	1.47	
18-Apr	1.2	2.4	Z	0.7	3.9	0.8	0.1	0.3	4.3	2.5	2.5	1.5	0.3	0.0	0.0	0.3	0.0	1.5	5.6	0.5	0.0	0.0	0.0	0.0	1.24	5.61	
19-Apr	0.0	0.0	Z	0.2	0.0	0.0	0.0	0.0	0.0	0.2	1.4	0.4	0.7	1.6	0.0	0.0	0.0	0.0	3.3	0.6	1.4	1.6	0.4	0.0	0.51	3.27	
20-Apr	0.0	0.0	Z	0.1	0.0	0.1	0.1	0.0	0.6	C	C	C	C	3.8	1.9	1.5	1.4	2.2	5.5	3.5	0.1	0.0	0.0	0.2	1.10	5.55	
21-Apr	0.6	0.7	Z	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.3	0.0	0.15	0.71	
22-Apr	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	0.6	1.0	0.4	0.1	0.0	0.2	2.0	1.4	2.4	2.4	0.45	2.39	
23-Apr	1.9	0.2	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.2	5.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.68	5.70	
24-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.63	
25-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.2	0.4	0.3	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.44	
26-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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	0.01	0.11	
27-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	
28-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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	0.01	0.13	
29-Apr	0.0	0.0	Z	1.1	2.9	2.3	0.0	0.0	0.0	0.1	0.0	5.2	0.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.56	5.18	
30-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.5	2.4	9.3	10.2	0.0	0.0	0.0	0.0	0.1	0.5	1.9	3.1	2.7	1.4	5.6	3.4	5.4	2.03	10.21	
		0.42	0.18	--	0.11	0.30	0.11	0.02	0.04	0.30	1.24	1.53	1.87	1.59	1.33	1.01	0.98	1.21	0.86	1.07	0.69	0.50	0.78	0.71	0.73	Diurnal Average	
		2.65	2.40	--	1.11	3.90	2.33	0.11	0.53	4.33	14.26	16.37	30.88	25.04	22.10	14.10	9.39	13.59	12.86	5.61	3.86	4.14	5.63	6.37	7.37	Diurnal Maximum	
Z - zerspan		C - Calibration		PF - Power Failure																							
Alberta Ambient Air Quality Objectives (AAAQO):		1-hr 172 ppb		24-hr 48 ppb																							



WCAS - Genesee
Summary of Hourly Averages

Ozone (O₃) - ppb
April 2015

Maximum Value: 53.92 ppb on Apr 9 18:00																				Maximum Daily Average: 40.17 ppb on Apr 10					Hours in Service: 720																								
Minimum Value: 4.9 ppb on Apr 1 12:00																				Minimum Daily Average: 18.17 ppb on Apr 24					Hours of Data: 675																								
Maximum Diurnal Average: 36.05 ppb at hour 17																				Minimum Diurnal Average: 22.98 ppb at hour 7					Hours of Missing Data: 45																								
Monthly Average: 30.047 ppb																				Percentiles: P ₁ = 8.4 P ₁₀ = 18.4 Q ₁ = 23.5 Median = 28.7 Q ₃ = 36.6 P ₉₀ = 44.0 P ₉₉ = 52.5					Hours of Calibration: 33																								
																									Percent Operational Time: 98.3																								
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	24.7	Z	24.1	22.3	27.0	25.0	22.7	21.2	19.3	14.5	17.1	4.9	6.5	7.0	8.7	13.2	12.7	12.2	20.1	26.8	27.5	25.1	25.1	24.8	18.80	27.55																							
2-Apr	16.5	Z	25.4	24.1	20.8	17.6	18.4	18.5	19.5	22.4	23.2	23.3	18.3	19.5	28.6	21.4	33.1	33.1	28.5	21.9	20.6	17.1	11.0	10.8	21.46	33.12																							
3-Apr	20.0	Z	23.8	23.3	21.3	19.1	18.2	17.3	18.6	25.1	26.6	17.7	19.7	25.4	32.3	35.8	35.7	34.4	34.8	33.0	29.6	27.5	24.3	18.7	25.30	35.78																							
4-Apr	18.1	Z	20.4	19.6	21.6	24.6	24.6	26.7	26.8	27.5	27.0	26.1	26.6	26.4	28.4	29.0	29.4	30.6	27.0	27.8	22.8	20.0	21.2	21.2	25.15	30.56																							
5-Apr	24.7	Z	22.9	18.5	15.5	14.0	14.6	15.3	15.8	23.2	29.8	30.5	33.3	35.7	36.7	35.7	38.0	39.1	38.6	35.7	33.0	29.6	25.5	21.5	27.28	39.10																							
6-Apr	20.6	Z	23.4	25.2	27.0	26.0	24.5	22.2	24.1	29.4	30.5	30.5	32.3	32.3	35.8	33.8	36.3	36.2	36.8	34.7	32.3	31.3	32.1	31.2	29.93	36.81																							
7-Apr	30.0	Z	26.9	26.4	25.8	24.6	25.1	23.5	24.8	28.0	29.6	35.0	37.9	39.9	38.9	37.4	34.4	31.4	38.8	38.7	38.1	35.1	32.0	29.2	31.80	39.91																							
8-Apr	28.3	Z	28.0	28.2	26.9	26.3	24.9	22.7	30.6	35.9	36.5	40.3	39.2	41.1	43.1	44.3	46.0	45.9	46.2	45.9	45.4	39.9	36.2	34.3	36.35	46.22																							
9-Apr	34.6	Z	22.6	26.1	25.4	30.6	25.5	22.5	30.4	36.4	39.2	40.9	44.3	47.8	50.3	52.5	53.3	53.9	52.8	48.6	50.7	47.2	43.3	41.9	40.03	53.92																							
10-Apr	43.8	Z	35.6	30.8	25.8	24.6	24.2	25.9	28.0	36.6	44.2	48.3	49.9	52.0	50.8	48.8	50.0	49.6	49.6	44.8	40.0	PF	PF	PF	40.17	51.98																							
11-Apr	PF	PF	PF	PF	PF	PF	PF	PF	PF	30.0	36.3	44.3	34.8	12.7	21.0	21.5	26.3	26.5	32.7	37.2	31.7	34.1	34.3	31.8	--	44.34																							
12-Apr	33.2	Z	27.0	26.8	25.8	31.5	29.9	24.8	30.4	29.9	28.0	29.2	31.1	27.5	27.4	28.4	27.3	30.0	23.1	29.6	33.7	33.9	34.1	32.3	29.35	34.12																							
13-Apr	29.1	Z	27.0	28.1	27.2	25.9	23.4	24.8	29.7	36.0	39.7	41.5	43.8	45.7	47.2	49.6	50.9	50.9	50.0	46.3	42.3	37.2	33.1	29.5	37.34	50.94																							
14-Apr	27.1	Z	25.8	24.2	23.5	22.2	22.0	21.2	22.6	10.7	6.2	12.7	16.3	19.5	25.0	30.1	22.3	24.1	25.4	33.0	27.6	20.8	31.3	28.3	22.69	33.05																							
15-Apr	28.7	Z	26.0	25.7	28.5	28.9	29.3	32.7	34.0	24.5	36.6	42.3	44.6	45.5	48.4	51.1	53.1	53.5	50.8	45.8	46.6	40.7	33.7	43.1	38.87	53.47																							
16-Apr	36.1	Z	32.2	32.8	29.7	26.9	27.5	28.5	30.0	34.2	41.8	45.3	44.5	48.6	46.5	44.1	37.9	27.9	30.0	38.8	36.9	35.9	38.2	37.3	36.16	48.62																							
17-Apr	38.2	Z	29.9	30.1	23.9	24.3	26.5	27.0	33.3	36.8	36.6	38.1	41.0	45.4	45.2	43.5	28.7	26.3	29.9	34.3	32.3	27.3	22.9	22.2	32.33	45.38																							
18-Apr	18.0	Z	18.8	16.7	15.4	27.2	28.2	24.5	13.8	17.9	16.1	18.0	21.6	27.6	24.0	24.1	28.2	24.3	22.9	31.6	28.8	36.5	33.7	31.9	23.91	36.54																							
19-Apr	23.6	Z	19.7	18.9	19.3	22.6	20.9	26.2	28.9	33.8	39.0	42.8	43.3	44.6	49.6	50.9	52.3	52.5	48.0	48.0	47.5	43.9	43.0	42.6	37.48	52.52																							
20-Apr	41.8	Z	27.9	26.8	26.4	25.3	25.9	27.3	31.8	C	C	C	C	23.3	20.2	17.0	19.0	21.6	24.3	29.5	34.2	35.1	36.9	38.5	28.05	41.81																							
21-Apr	35.7	Z	30.4	28.6	24.4	20.4	17.9	19.2	22.4	24.8	32.6	39.6	41.3	42.1	41.0	41.7	41.6	41.7	41.8	36.9	35.7	34.5	33.5	31.3	33.01	42.14																							
22-Apr	28.5	Z	30.8	32.8	31.0	28.8	27.4	26.6	28.3	34.3	37.8	40.4	42.6	43.3	43.7	44.0	42.8	38.5	16.2	10.2	4.9	8.4	9.3	11.1	28.78	44.03																							
23-Apr	8.4	Z	16.0	16.7	12.3	12.4	17.5	21.5	26.0	28.4	30.0	32.1	31.1	20.2	17.1	15.0	16.1	25.8	26.3	26.2	22.2	22.8	16.6	20.7	20.93	32.10																							
24-Apr	18.9	Z	9.0	6.9	10.2	7.9	9.5	15.3	15.4	16.6	16.0	18.0	22.1	23.6	25.1	25.3	22.3	22.8	18.6	19.1	21.0	24.1	25.7	24.4	18.17	25.73																							
25-Apr	26.4	Z	25.8	27.4	28.9	26.8	25.6	25.6	24.7	25.6	30.2	29.8	27.2	28.6	29.5	28.2	34.0	33.1	33.5	31.1	28.7	24.2	21.7	24.2	27.87	34.00																							
26-Apr	25.9	Z	22.1	23.2	24.7	23.2	19.4	18.5	21.9	29.6	36.0	38.1	39.2	41.2	40.6	42.5	44.1	45.3	44.9	43.1	39.6	37.4	32.9	30.2	33.20	45.27																							
27-Apr	26.7	Z	25.4	21.3	20.2	18.3	20.0	22.4	24.1	31.5	41.6	44.2	45.5	45.1	45.4	45.7	43.7	43.6	43.5	39.6	36.2	36.2	36.2	31.7	34.27	45.65																							
28-Apr	30.1	Z	27.4	25.9	25.0	25.2	24.9	24.5	23.7	34.7	35.5	35.3	36.6	37.5	37.1	37.5	39.0	37.6	35.6	31.1	31.9	29.1	17.9	25.7	30.81	38.98																							
29-Apr	42.2	Z	29.2	30.0	29.2	20.8	27.1	26.6	25.8	26.7	37.8	33.1	38.0	34.1	32.1	39.2	42.2	43.6	44.2	41.6	34.9	28.9	26.0	25.0	32.96	44.19																							
30-Apr	22.6	Z	18.5	17.7	18.6	19.9	21.0	20.9	18.6	22.4	28.6	39.1	40.3	43.2	34.7	36.6	41.4	41.9	36.4	39.7	38.4	29.5	24.4	28.9	29.70	43.18																							
																								27.67	--	24.90	24.31	23.49	23.13	22.98	23.24	24.94	27.85	31.39	33.15	34.23	34.20	35.09	35.59	36.05	35.89	35.16	34.99	33.34	30.91	28.79	28.43	Diurnal Average	
																								43.78	--	35.60	32.80	31.00	31.50	29.87	32.70	34.03	36.83	44.23	48.27	49.86	51.98	50.77	52.53	53.30	53.92	52.76	48.59	50.69	47.20	43.29	43.13	Diurnal Maximum	
Z - zerospan C - Calibration PF - Power Failure																																																	
Alberta Ambient Air Quality Objectives (AAQO): 1-hr 82.5 ppb 24-hr -- ppb																																																	



WCAS - Genesee
Summary of Hourly Averages

Nitrogen Oxide (NO) - ppb
April 2015

Maximum Value: 18.15 ppb on Apr 3 12:00		Maximum Daily Average: 2.52 ppb on Apr 3		Hours in Service: 720																							
Minimum Value: 0.0 ppb on Apr 2 05:00		Minimum Daily Average: 0.12 ppb on Apr 12		Hours of Data: 673																							
Maximum Diurnal Average: 1.37 ppb at hour 11		Minimum Diurnal Average: 0.03 ppb at hour 4		Hours of Missing Data: 47																							
Monthly Average: 0.506 ppb		Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 0.2 Q ₃ = 0.5 P ₉₀ = 1.0 P ₉₉ = 6.7		Hours of Calibration: 35																							
				Percent Operational Time: 98.3																							
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	0.2	0.0	Z	0.1	0.0	0.1	0.1	0.1	0.5	1.2	0.6	4.5	2.3	2.3	0.6	0.3	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.1	0.65	4.49	
2-Apr	0.2	0.1	Z	0.0	0.0	0.0	0.1	0.5	0.8	0.8	0.7	1.0	3.9	1.7	1.7	2.8	0.3	0.3	0.3	0.3	0.1	0.0	0.1	0.1	0.68	3.90	
3-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.6	1.3	1.5	2.6	18.2	12.8	8.6	4.9	2.6	3.4	0.6	0.2	0.2	0.1	0.1	0.1	0.2	2.52	18.15	
4-Apr	0.1	0.1	Z	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.5	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.1	0.0	0.17	0.52	
5-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.5	0.8	0.7	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.1	0.22	0.82	
6-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.5	0.7	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.1	0.0	0.0	0.0	0.16	0.68	
7-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.3	0.3	0.7	2.2	1.1	0.5	0.7	1.9	2.2	3.0	4.5	0.9	0.2	0.0	0.0	0.1	0.1	0.81	4.45	
8-Apr	0.1	0.1	Z	0.0	0.0	0.0	0.1	0.5	0.7	0.6	0.6	0.4	0.4	0.3	0.3	0.5	0.5	0.8	0.8	0.3	0.1	0.0	0.1	0.1	0.33	0.82	
9-Apr	0.1	0.0	Z	0.0	0.0	0.0	0.1	0.5	0.7	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.3	0.0	0.0	0.0	0.0	0.29	0.71	
10-Apr	0.0	0.0	Z	0.0	0.1	0.0	0.2	0.6	1.0	0.7	0.4	0.5	0.7	0.5	0.6	0.8	0.6	0.8	0.7	0.4	0.3	PF	PF	PF	0.45	0.99	
11-Apr	PF	PF	PF	PF	PF	PF	PF	PF	PF	0.7	1.1	0.8	1.8	1.3	1.0	0.8	0.6	0.5	0.3	0.1	0.1	0.1	0.1	0.0	--	1.82	
12-Apr	0.0	0.1	Z	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.7	0.1	0.0	0.0	0.0	0.0	0.12	0.69	
13-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.7	0.8	0.4	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.16	0.81	
14-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.3	0.4	4.9	13.4	3.2	1.4	0.4	0.1	0.1	0.5	0.4	0.3	0.0	0.0	0.0	0.0	0.0	1.10	13.40	
15-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.4	0.8	7.9	2.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.64	7.93	
16-Apr	0.1	0.1	Z	0.1	0.1	0.1	0.2	0.5	0.7	0.8	0.6	0.5	0.4	0.2	0.2	0.2	1.5	1.2	0.7	0.2	0.1	0.1	0.0	0.0	0.38	1.48	
17-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.3	0.3	0.2	0.3	0.4	0.6	0.4	0.2	0.3	0.6	0.4	0.2	0.1	0.1	0.1	0.1	0.0	0.21	0.63	
18-Apr	0.2	0.2	Z	0.2	0.7	0.1	0.1	0.3	2.7	1.5	1.3	0.6	0.4	0.2	0.3	0.5	0.4	0.9	1.5	0.2	0.0	0.0	0.0	0.0	0.53	2.70	
19-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.4	0.8	1.8	1.0	1.0	0.6	0.9	1.0	0.3	0.2	0.2	0.2	0.7	0.1	0.0	0.0	0.0	0.0	0.39	1.75	
20-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.2	0.8	1.2	C	C	C	C	C	C	1.7	1.5	1.3	1.8	0.6	0.4	0.3	0.2	0.1	--	1.78	
21-Apr	0.1	0.0	Z	0.0	0.0	0.0	0.1	0.7	1.6	1.9	1.2	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.39	1.91	
22-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.5	0.9	0.6	0.5	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.8	0.6	3.9	2.1	0.8	0.8	0.61	3.92	
23-Apr	1.1	0.0	Z	0.0	0.0	0.0	0.2	0.5	0.4	0.3	0.1	0.0	0.2	0.9	2.3	3.8	2.8	0.5	0.3	0.1	0.0	0.0	0.1	0.0	0.60	3.82	
24-Apr	0.0	0.0	Z	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.8	1.0	0.8	0.7	0.4	0.3	0.6	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.30	1.01	
25-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.1	0.3	0.8	1.0	0.4	0.6	0.7	0.5	0.4	0.6	0.5	0.4	0.3	0.1	0.1	0.1	0.1	0.0	0.30	1.03	
26-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.3	1.4	1.4	0.5	0.2	0.1	0.2	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.23	1.44	
27-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.4	0.8	1.3	1.0	0.3	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.1	0.1	0.1	0.0	0.30	1.29	
28-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.2	0.3	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.1	0.2	0.5	0.3	0.28	0.71	
29-Apr	0.1	0.0	Z	0.1	0.0	0.2	0.0	0.0	0.1	0.4	0.0	2.3	0.2	0.5	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.19	2.28	
30-Apr	0.0	0.0	Z	0.0	0.0	0.0	0.4	1.2	2.6	7.1	6.7	0.4	0.2	0.1	0.3	0.3	0.4	0.6	1.0	0.5	0.0	0.0	0.0	0.0	0.96	7.15	
		0.09	0.03	--	0.03	0.04	0.03	0.14	0.50	0.90	1.34	1.37	1.36	1.08	0.82	0.67	0.72	0.70	0.57	0.48	0.21	0.21	0.14	0.10	0.08	Diurnal Average	
		1.12	0.19	--	0.18	0.66	0.17	0.42	1.44	2.70	7.93	13.40	18.15	12.78	8.61	4.86	3.82	3.36	4.45	1.78	0.65	3.92	2.14	0.78	0.84	Diurnal Maximum	
Z - zerospan		C - Calibration		PF - Power Failure																							
Alberta Ambient Air Quality Objectives (AAAQO):		1-hr --- ppb		24-hr --- ppb																							



WCAS - Genesee
Summary of Hourly Averages

Nitrogen Dioxide (NO₂) - ppb
April 2015

Maximum Value: 19.22 ppb on Apr 14 11:00																								Maximum Daily Average: 5.03 ppb on Apr 2																								Hours in Service: 720	
Minimum Value: 0.0 ppb on Apr 1 02:00																								Minimum Daily Average: 0.49 ppb on Apr 4																								Hours of Data: 673	
Maximum Diurnal Average: 2.85 ppb at hour 10																								Minimum Diurnal Average: 1.55 ppb at hour 15																								Hours of Missing Data: 47	
Monthly Average: 2.138 ppb																								Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.3 Median = 1.2 Q ₃ = 2.6 P ₉₀ = 5.5 P ₉₉ = 14.2																								Hours of Calibration: 35	
Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.3 Median = 1.2 Q ₃ = 2.6 P ₉₀ = 5.5 P ₉₉ = 14.2																								Percent Operational Time: 98.3																									
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	0.6	0.0	Z	0.5	0.0	0.0	0.0	0.5	1.4	6.6	1.8	12.2	8.9	8.7	6.0	1.3	1.8	3.1	0.7	0.0	2.0	2.0	2.2	2.5	2.73	12.19																							
2-Apr	12.0	7.7	Z	0.8	0.3	1.8	2.1	2.6	1.9	1.6	1.0	1.7	7.2	5.5	3.5	7.1	0.0	0.2	2.7	8.1	10.4	9.8	13.4	14.2	5.03	14.19																							
3-Apr	3.7	1.3	Z	1.9	1.6	1.8	2.1	2.2	2.4	2.3	4.3	16.4	16.1	14.2	10.5	8.3	10.6	1.6	0.3	0.7	1.8	3.1	3.4	4.2	4.99	16.36																							
4-Apr	3.7	1.1	Z	1.1	0.6	0.3	0.4	0.3	0.4	0.6	0.5	0.4	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.49	3.65																							
5-Apr	0.0	0.0	Z	1.8	3.5	4.8	4.0	2.2	1.3	0.8	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.1	0.2	0.6	1.2	0.6	1.0	0.99	4.84																							
6-Apr	0.8	0.9	Z	1.8	1.6	1.9	1.7	2.9	2.4	1.0	0.7	0.5	0.3	0.2	0.0	0.0	0.2	0.0	0.0	0.8	0.6	0.1	0.1	0.1	0.81	2.88																							
7-Apr	0.2	0.9	Z	1.0	0.4	0.4	0.6	0.9	0.6	1.0	4.0	2.0	0.7	0.9	3.9	4.9	8.4	14.3	7.2	5.7	2.7	2.9	3.7	4.0	3.10	14.31																							
8-Apr	3.5	2.8	Z	2.5	1.7	1.2	1.6	1.8	1.8	1.2	0.9	0.2	0.0	0.0	0.0	0.3	0.1	1.5	1.6	0.2	0.1	0.7	1.1	0.6	1.10	3.48																							
9-Apr	0.8	1.3	Z	2.0	1.7	1.5	1.7	2.2	1.8	1.0	0.4	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.1	0.6	1.3	1.3	0.87	2.19																							
10-Apr	0.7	1.1	Z	2.4	2.5	1.9	2.5	2.5	2.3	1.2	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	PF	PF	PF	0.90	2.55																							
11-Apr	PF	PF	PF	PF	PF	PF	PF	PF	PF	4.7	4.2	1.5	4.7	11.8	6.9	4.2	2.7	2.3	0.9	1.4	4.9	2.0	0.8	1.5	--	11.82																							
12-Apr	0.2	0.4	Z	1.9	1.4	1.3	1.1	1.2	0.7	0.2	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	4.4	2.3	0.0	0.0	0.0	0.0	0.70	4.38																							
13-Apr	0.1	0.4	Z	0.9	0.5	0.8	1.9	3.0	1.9	0.6	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.4	1.9	0.8	1.5	1.3	1.2	0.76	2.97																							
14-Apr	1.1	1.0	Z	1.6	1.2	1.3	1.7	3.4	2.6	10.0	19.2	15.2	9.3	3.4	0.8	0.5	3.9	3.3	3.0	2.4	1.7	8.2	4.0	4.5	4.50	19.22																							
15-Apr	2.7	4.5	Z	5.7	4.6	4.1	4.2	1.5	2.3	14.1	4.6	0.0	0.1	0.2	0.0	0.0	0.0	0.0	1.2	3.9	3.5	4.3	7.6	0.5	3.02	14.09																							
16-Apr	0.7	1.5	Z	1.7	1.6	1.7	2.1	2.0	2.3	2.0	1.0	0.2	0.0	0.0	0.0	0.0	5.7	4.4	2.9	0.3	0.3	0.2	0.2	0.4	1.35	5.65																							
17-Apr	0.3	1.1	Z	1.7	2.0	2.2	1.3	1.6	1.8	1.0	2.3	1.7	1.8	1.1	0.6	1.1	4.1	1.1	0.5	0.4	0.7	1.0	4.4	1.0	1.51	4.42																							
18-Apr	5.2	8.2	Z	4.3	11.5	1.9	0.3	0.7	9.6	5.8	6.3	4.2	1.5	0.0	0.2	1.1	0.0	2.9	8.6	3.7	8.4	0.0	2.9	2.5	3.90	11.45																							
19-Apr	2.3	1.2	Z	2.8	2.6	4.2	5.5	3.7	6.0	3.8	2.4	1.1	1.6	2.4	0.6	0.6	0.5	0.8	4.4	1.5	2.6	3.2	2.0	1.8	2.50	5.97																							
20-Apr	1.5	1.8	Z	2.4	2.4	2.7	3.7	3.6	3.9	C	C	C	C	C	C	5.5	4.9	5.6	9.9	7.0	2.1	0.8	0.9	1.3	--	9.92																							
21-Apr	1.3	1.3	Z	1.5	1.1	0.9	1.2	2.1	3.2	3.3	2.4	0.9	0.7	0.6	0.5	0.6	0.7	0.8	1.0	1.1	1.3	1.4	1.7	1.9	1.37	3.32																							
22-Apr	2.2	2.4	Z	2.4	1.9	1.8	2.3	3.0	3.0	1.6	1.0	0.6	0.3	0.3	0.3	0.2	0.1	0.2	3.0	8.4	14.2	8.5	10.3	9.1	3.34	14.22																							
23-Apr	7.2	0.6	Z	0.4	0.6	1.1	0.6	0.5	0.2	0.1	0.0	0.0	0.0	2.2	6.6	8.7	7.4	0.2	0.0	0.3	1.0	1.0	5.2	0.7	1.94	8.66																							
24-Apr	1.4	7.2	Z	5.8	4.2	4.8	2.1	1.1	1.3	1.4	3.5	4.8	4.2	3.6	2.0	1.9	3.2	3.1	3.9	2.1	1.2	0.8	0.3	0.2	2.78	7.21																							
25-Apr	0.0	0.0	Z	0.5	0.3	0.5	1.0	1.1	1.2	1.2	0.3	0.7	1.4	1.3	0.9	0.9	0.8	0.8	0.7	0.2	0.1	0.1	0.1	0.0	0.61	1.44																							
26-Apr	0.0	0.2	Z	0.8	0.4	0.5	1.2	2.8	2.2	0.5	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.7	0.8	2.0	2.0	1.1	1.2	1.0	0.78	2.84																							
27-Apr	0.8	1.5	Z	2.1	2.3	3.6	2.8	2.5	2.7	1.8	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.5	1.7	1.4	1.6	1.8	1.5	1.27	3.63																							
28-Apr	1.7	1.7	Z	2.3	1.6	1.5	1.3	1.3	1.7	0.5	0.6	0.5	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.4	0.9	0.7	0.6	0.1	0.78	2.25																							
29-Apr	0.0	4.9	Z	6.7	8.1	9.1	0.9	0.9	1.8	3.1	0.3	6.8	0.9	1.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	0.8	2.05	9.12																							
30-Apr	1.2	2.6	Z	2.8	2.1	1.8	2.0	3.4	6.4	9.9	9.7	0.1	0.0	0.0	0.3	0.6	0.7	2.9	5.2	4.3	2.3	8.9	6.8	7.3	3.53	9.87																							
1.93 2.05 -- 2.21 2.22 2.12 1.86 1.98 2.44 2.85 2.48 2.51 2.09 2.02 1.55 1.61 1.89 1.67 2.13 2.09 2.28 2.28 2.71 2.25																								Diurnal Average																									
12.03 8.17 -- 6.68 11.45 9.12 5.55 3.68 9.58 14.09 19.22 16.36 16.09 14.20 10.46 8.66 10.62 14.31 9.92 8.37 14.22 9.77 13.41 14.19																								Diurnal Maximum																									
Z - zerospan C - Calibration PF - Power Failure																																																	
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb 24-hr 106 ppb																																																	



WCAS - Genesee
Summary of Hourly Averages

NOx (NO_x) - ppb
April 2015

Maximum Value: 34.31 ppb on Apr 3 12:00		Maximum Daily Average: 7.40 ppb on Apr 3		Hours in Service: 720																							
Minimum Value: 0.0 ppb on Apr 1 02:00		Minimum Daily Average: 0.61 ppb on Apr 4		Hours of Data: 673																							
Maximum Diurnal Average: 4.17 ppb at hour 10		Minimum Diurnal Average: 1.98 ppb at hour 1		Hours of Missing Data: 47																							
Monthly Average: 2.573 ppb		Percentiles: P ₁ = 0.0 P ₁₀ = 0.1 Q ₁ = 0.5 Median = 1.4 Q ₃ = 2.9 P ₉₀ = 6.4 P ₉₉ = 18.5		Hours of Calibration: 35																							
Percentiles: P ₁ = 0.0 P ₁₀ = 0.1 Q ₁ = 0.5 Median = 1.4 Q ₃ = 2.9 P ₉₀ = 6.4 P ₉₉ = 18.5		Percent Operational Time: 98.3																									
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	0.6	0.0	Z	0.6	0.0	0.0	0.1	0.6	1.8	7.6	2.4	16.5	11.1	10.9	6.5	1.6	2.2	3.6	1.0	0.2	2.1	2.2	2.4	2.5	3.33	16.47	
2-Apr	12.0	7.6	Z	0.8	0.3	1.8	2.1	3.1	2.6	2.3	1.7	2.6	10.9	7.0	5.1	9.7	0.0	0.4	3.0	8.2	10.3	9.6	13.3	14.0	5.59	14.05	
3-Apr	3.6	1.2	Z	1.9	1.6	1.7	2.1	2.7	3.7	3.7	6.8	34.3	28.6	22.5	15.1	10.8	13.8	2.2	0.5	0.8	1.8	3.1	3.4	4.2	7.40	34.31	
4-Apr	3.6	1.2	Z	1.1	0.6	0.3	0.4	0.4	0.5	0.7	1.1	0.9	0.7	0.7	0.6	0.3	0.1	0.1	0.0	0.0	0.4	0.2	0.0	0.0	0.61	3.64	
5-Apr	0.0	0.0	Z	1.8	3.4	4.7	4.0	2.6	2.1	1.4	0.6	0.4	0.0	0.0	0.2	0.6	0.5	0.3	0.2	0.3	0.6	1.2	0.6	1.0	1.15	4.73	
6-Apr	0.8	0.9	Z	1.8	1.6	1.9	1.7	3.3	3.0	1.4	1.1	0.8	0.5	0.3	0.2	0.0	0.3	0.0	0.0	1.1	0.7	0.2	0.1	0.2	0.95	3.31	
7-Apr	0.2	0.9	Z	1.0	0.4	0.5	0.7	1.1	0.9	1.6	6.1	3.1	1.2	1.6	5.8	7.0	11.2	18.5	8.0	5.8	2.7	2.8	3.7	4.0	3.86	18.51	
8-Apr	3.5	2.8	Z	2.5	1.7	1.2	1.6	2.2	2.4	1.8	1.5	0.7	0.4	0.3	0.1	0.6	0.3	1.9	2.1	0.1	0.1	0.7	1.2	0.6	1.31	3.47	
9-Apr	0.9	1.3	Z	2.0	1.7	1.5	1.8	2.7	2.4	1.5	0.9	1.2	0.5	0.1	0.0	0.2	0.2	0.2	0.1	1.8	0.1	0.6	1.3	1.3	1.06	2.72	
10-Apr	0.8	1.1	Z	2.4	2.6	1.9	2.6	3.0	3.2	1.9	0.9	0.4	0.3	0.0	0.0	0.4	0.2	0.3	0.3	0.2	0.1	PF	PF	PF	1.12	3.24	
11-Apr	PF	PF	PF	PF	PF	PF	PF	PF	PF	5.1	5.0	2.1	6.3	13.1	7.9	4.9	3.2	2.7	1.0	1.5	4.9	2.0	0.8	1.5	--	13.12	
12-Apr	0.2	0.4	Z	1.9	1.4	1.2	1.1	1.4	0.9	0.4	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	5.1	2.4	0.0	0.0	0.0	0.0	0.76	5.14	
13-Apr	0.1	0.4	Z	0.8	0.3	0.7	1.9	3.6	2.7	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.7	0.6	1.3	1.2	1.0	0.78	3.59	
14-Apr	1.0	0.8	Z	1.5	1.1	1.2	1.7	3.6	2.9	14.9	32.6	18.5	10.8	3.8	0.9	0.5	4.3	3.6	3.3	2.4	1.7	8.3	4.0	4.5	5.56	32.61	
15-Apr	2.7	4.5	Z	5.6	4.5	4.0	4.3	1.7	3.0	22.0	6.8	0.2	0.3	0.3	0.0	0.0	0.0	0.0	1.2	3.9	3.3	4.2	7.6	0.5	3.50	21.99	
16-Apr	0.6	1.5	Z	1.6	1.5	1.7	2.2	2.4	2.9	2.7	1.4	0.3	0.1	0.0	0.0	0.0	6.8	5.3	3.4	0.3	0.2	0.2	0.2	0.4	1.55	6.84	
17-Apr	0.3	1.0	Z	1.7	2.0	2.2	1.4	2.0	2.3	1.4	2.6	2.0	2.2	1.3	0.6	1.2	4.4	1.2	0.6	0.5	0.8	1.0	4.5	1.1	1.66	4.48	
18-Apr	5.5	8.5	Z	4.4	12.2	2.1	0.4	0.9	12.3	7.3	7.6	4.8	1.8	0.2	0.5	1.5	0.1	3.6	10.0	3.8	8.5	0.1	2.9	2.5	4.40	12.30	
19-Apr	2.3	1.2	Z	2.7	2.6	4.1	5.9	4.4	7.7	4.9	3.3	1.6	2.2	3.2	0.7	0.7	0.5	0.8	4.9	1.5	2.5	3.1	1.9	1.7	2.81	7.75	
20-Apr	1.4	1.8	Z	2.4	2.5	2.8	4.1	4.6	5.3	C	C	C	C	C	C	6.4	5.8	6.3	11.1	7.1	2.1	0.7	0.9	1.3	--	11.13	
21-Apr	1.3	1.3	Z	1.5	1.1	1.0	1.4	2.9	4.8	5.2	3.6	1.3	1.0	0.9	0.7	0.9	1.0	0.9	1.1	1.2	1.4	1.5	1.8	1.9	1.73	5.23	
22-Apr	2.2	2.4	Z	2.4	1.9	1.9	2.5	3.4	3.9	2.3	1.4	0.8	0.5	0.5	0.6	0.4	0.2	0.4	3.7	9.0	18.0	10.7	11.0	9.9	3.92	18.03	
23-Apr	8.3	0.7	Z	0.5	0.8	1.2	0.8	1.0	0.6	0.3	0.0	0.0	0.0	3.1	8.9	12.4	10.2	0.7	0.3	0.4	1.1	1.1	5.3	0.7	2.54	12.41	
24-Apr	1.4	7.2	Z	5.9	4.2	4.8	2.3	1.3	1.6	1.8	4.3	5.7	5.0	4.2	2.4	2.1	3.7	3.5	4.1	2.1	1.2	0.8	0.3	0.3	3.06	7.20	
25-Apr	0.0	0.0	Z	0.5	0.3	0.4	1.2	1.4	2.1	2.2	0.7	1.4	2.1	1.8	1.4	1.5	1.3	1.1	1.0	0.3	0.2	0.2	0.2	0.0	0.93	2.21	
26-Apr	0.0	0.3	Z	0.8	0.5	0.5	1.5	4.3	3.6	1.0	0.2	0.0	0.0	0.0	0.5	0.6	0.9	0.9	2.1	2.1	1.2	1.3	1.0	1.01	4.28		
27-Apr	0.8	1.4	Z	2.1	2.3	3.7	3.1	3.3	4.0	2.8	0.3	0.0	0.1	0.1	0.3	0.4	0.5	0.5	0.7	1.8	1.4	1.7	1.9	1.6	1.52	4.02	
28-Apr	1.8	1.8	Z	2.3	1.6	1.5	1.4	1.6	2.4	0.9	1.0	0.9	0.7	0.5	0.4	0.3	0.1	0.2	0.1	0.6	1.0	0.9	1.0	0.3	1.01	2.35	
29-Apr	0.0	4.9	Z	6.7	8.1	9.3	1.0	1.0	2.0	3.4	0.4	9.1	1.2	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.9	0.8	2.23	9.26	
30-Apr	1.2	2.7	Z	2.8	2.1	1.9	2.4	4.6	9.0	17.0	16.4	0.6	0.0	0.0	0.7	0.9	1.2	3.5	6.2	4.8	2.4	8.9	6.8	7.3	4.50	16.99	
		1.98	2.06	--	2.21	2.24	2.13	1.99	2.46	3.34	4.17	3.81	3.80	3.05	2.70	2.10	2.19	2.43	2.09	2.47	2.19	2.41	2.37	2.77	2.29	Diurnal Average	
		12.02	8.47	--	6.70	12.18	9.26	5.90	4.65	12.30	21.99	32.61	34.31	28.59	22.53	15.11	12.41	13.78	18.51	11.13	8.96	18.03	10.66	13.27	14.05	Diurnal Maximum	
Z - zerospan		C - Calibration		PF - Power Failure																							
Alberta Ambient Air Quality Objectives (AAQO):		1-hr --- ppb		24-hr --- ppb																							



WCAS - Genesee
Summary of Hourly Averages

PM2.5 (PM_{2.5}) - µg/m³
April 2015

Maximum Value: 10.32 µg/m ³ on Apr 17 17:00		Maximum Daily Average: 4.36 µg/m ³ on Apr 21		Hours in Service: 720																							
Minimum Value: 0.0 µg/m ³ on Apr 1 01:00		Minimum Daily Average: 0.43 µg/m ³ on Apr 23		Hours of Data: 707																							
Maximum Diurnal Average: 3.23 µg/m ³ at hour 8		Minimum Diurnal Average: 1.63 µg/m ³ at hour 15		Hours of Missing Data: 13																							
Monthly Average: 2.185 µg/m ³		Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.6 Median = 1.9 Q ₃ = 3.3 P ₉₀ = 4.7 P ₉₉ = 8.0		Hours of Calibration: 1																							
				Percent Operational Time: 98.3																							
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	0.8	2.0	0.0	0.0	0.0	1.4	2.4	1.9	1.8	2.0	2.2	3.8	6.4	2.8	3.0	0.7	1.1	1.4	1.6	1.8	0.2	1.0	1.60	6.40	
2-Apr	1.7	0.9	0.9	0.2	0.1	0.0	1.2	1.1	1.4	1.8	1.8	0.7	2.3	1.9	0.8	1.7	0.1	0.0	0.5	1.1	2.2	0.8	0.0	0.0	0.97	2.31	
3-Apr	0.0	0.0	0.0	0.0	0.0	0.2	1.0	2.5	2.8	0.0	0.7	2.3	2.1	2.4	3.7	2.7	4.9	5.7	1.5	1.1	1.6	2.6	4.4	3.9	1.92	5.65	
4-Apr	3.0	0.5	0.8	1.4	1.2	0.0	1.7	2.3	1.5	1.7	2.7	2.4	2.4	2.0	1.7	1.0	1.9	0.8	0.6	1.2	2.4	2.8	2.0	0.3	1.61	2.95	
5-Apr	1.5	1.1	1.8	1.7	3.4	3.3	3.4	3.7	3.1	1.2	0.0	0.0	0.0	0.0	1.2	2.6	2.6	2.6	3.6	2.3	3.2	2.2	2.9	2.5	2.08	3.68	
6-Apr	1.5	1.5	0.1	0.2	0.4	1.2	1.4	2.5	1.8	1.3	2.0	2.0	1.4	2.0	0.0	2.1	2.8	0.9	2.3	2.6	3.9	2.9	2.6	1.7	1.71	3.92	
7-Apr	1.9	1.1	3.9	4.5	5.0	4.2	5.5	8.2	3.1	2.7	1.9	2.8	2.0	2.1	2.8	1.7	3.1	3.3	3.2	4.2	5.8	5.6	4.7	4.5	3.66	8.22	
8-Apr	4.1	5.4	4.1	2.6	2.9	2.2	3.1	4.7	2.1	2.1	1.7	1.4	0.5	0.0	0.3	0.9	1.8	2.3	2.1	1.7	3.8	3.0	3.1	3.5	2.48	5.41	
9-Apr	2.9	3.6	4.0	4.6	5.0	4.0	5.3	5.8	4.5	4.3	1.5	1.9	0.3	1.8	3.0	3.5	6.4	7.1	6.2	4.8	5.0	5.8	6.0	6.4	4.33	7.13	
10-Apr	6.6	7.4	5.7	6.7	7.0	5.7	5.6	5.6	5.9	3.2	3.4	2.4	1.4	2.0	0.8	2.7	0.0	0.4	0.1	3.6	2.8	PF	PF	PF	3.76	7.42	
11-Apr	PF	PF	PF	PF	PF	PF	PF	PF	PF	3.1	4.1	1.3	7.5	4.6	0.3	0.0	0.2	0.0	0.1	0.0	2.5	0.4	0.7	1.1	--	7.50	
12-Apr	1.6	0.9	1.6	0.7	2.2	0.8	1.4	1.7	0.0	0.0	0.0	0.0	0.0	1.2	2.6	1.1	2.9	0.4	2.2	1.0	2.4	1.7	1.2	1.4	1.21	2.90	
13-Apr	1.2	1.6	0.9	0.6	0.9	0.6	1.1	2.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	1.1	3.2	3.4	3.3	3.4	3.4	1.17	3.45	
14-Apr	3.1	2.4	1.9	1.9	2.1	1.7	1.7	1.6	3.6	3.0	3.1	4.4	2.9	3.2	3.0	1.9	2.9	2.1	0.5	1.2	2.8	2.0	2.4	1.9	2.38	4.36	
15-Apr	2.6	0.7	1.6	1.4	0.8	1.9	2.7	1.9	1.3	1.8	0.0	0.0	0.1	0.0	0.6	0.4	0.9	1.9	3.2	2.7	3.4	4.4	4.5	2.3	1.71	4.49	
16-Apr	2.9	2.8	2.4	2.4	2.2	1.9	2.1	2.5	2.1	0.5	0.0	0.0	0.0	0.0	0.0	2.5	0.3	3.9	3.0	3.7	4.6	2.5	1.4	1.4	1.88	4.56	
17-Apr	1.3	0.9	0.0	0.0	0.0	0.0	0.6	0.7	0.0	0.0	0.0	0.0	0.5	1.6	0.0	1.8	10.3	3.6	1.6	2.6	2.0	3.0	0.1	2.9	1.40	10.32	
18-Apr	1.2	0.0	1.3	1.3	1.4	0.5	2.3	1.5	1.2	0.5	0.1	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.7	1.4	1.2	0.8	1.7	1.8	0.89	2.39	
19-Apr	1.9	1.8	1.1	1.5	1.2	1.2	2.6	3.1	1.4	0.2	0.0	0.0	0.0	0.0	0.1	0.3	0.7	1.2	2.2	1.9	2.7	5.1	3.0	1.38	5.10		
20-Apr	3.3	2.8	2.0	2.7	2.7	3.4	4.8	5.2	4.6	5.2	4.1	3.9	3.8	C	0.0	0.0	1.0	0.9	1.9	0.0	3.6	0.0	2.8	4.0	2.73	5.20	
21-Apr	4.3	3.7	1.8	4.5	0.0	1.9	4.2	5.6	5.6	7.0	4.2	4.4	3.9	2.3	4.1	3.1	3.7	2.6	5.4	5.2	5.5	6.9	6.6	8.5	4.36	8.52	
22-Apr	7.9	6.4	3.4	3.7	2.6	4.3	4.9	4.6	4.2	3.6	4.5	2.6	5.1	2.4	3.3	8.6	5.9	8.1	4.2	3.4	3.2	0.0	0.0	0.9	4.07	8.58	
23-Apr	0.0	1.1	0.0	0.0	0.0	0.2	0.5	0.0	0.0	0.6	1.2	0.3	0.0	0.9	1.2	0.2	2.2	0.3	0.0	1.6	0.0	0.0	0.0	0.0	0.43	2.16	
24-Apr	0.0	0.0	4.2	0.0	0.1	0.7	1.9	4.6	4.6	4.5	9.0	10.2	7.1	6.0	3.5	2.6	5.0	4.0	4.5	2.2	4.2	2.7	2.8	1.4	3.56	10.24	
25-Apr	2.8	1.7	1.8	2.4	2.4	3.1	3.0	3.6	3.2	2.4	1.9	3.6	4.5	4.6	4.3	4.3	3.2	2.9	4.1	3.9	5.0	3.1	3.3	1.1	3.18	5.01	
26-Apr	6.3	4.0	3.9	4.5	5.3	4.2	5.0	6.0	5.0	5.4	1.7	0.4	1.1	0.0	3.9	0.0	3.4	5.2	1.9	5.0	3.5	7.0	4.8	2.7	3.76	7.01	
27-Apr	3.4	2.8	2.4	3.9	3.6	2.2	4.0	2.6	3.3	1.1	0.0	0.0	0.0	0.6	0.2	3.7	3.5	0.8	2.6	2.9	1.0	2.7	0.0	3.4	2.11	3.96	
28-Apr	4.6	2.9	3.3	1.8	2.2	1.5	1.4	2.4	1.2	0.0	0.0	0.0	0.8	1.8	0.0	0.4	0.5	0.6	1.5	1.2	2.2	3.4	3.3	0.0	1.55	4.64	
29-Apr	0.0	0.0	1.9	1.6	4.7	2.4	4.0	5.0	0.6	0.6	0.0	2.0	0.0	1.8	1.1	0.0	0.0	0.6	0.0	0.0	0.3	0.3	1.9	1.7	1.27	4.96	
30-Apr	0.0	0.9	1.0	0.9	0.0	0.0	0.9	1.7	2.0	1.2	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.9	2.2	0.0	1.3	0.0	0.2	0.6	0.74	4.03	
																								Diurnal Average			
																								Diurnal Maximum			
2.47 2.04 2.03 2.07 2.04 1.85 2.66 3.23 2.50 2.02 1.72 1.69 1.73 1.78 1.63 1.88 2.44 2.13 2.10 2.25 2.87 2.57 2.48 2.32																											
7.86 7.42 5.70 6.65 6.96 5.68 5.55 8.22 5.94 6.96 8.99 10.24 7.50 6.02 6.40 8.58 10.32 8.10 6.24 5.19 5.77 7.01 6.56 8.52																											
C - Calibration		PF - Power Failure																									
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 80 ul/m ³ 24-hr 30 ul/m ³																											

WEST CENTRAL AIRSHED SOCIETY

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

**AMS 910
GENESEE
APRIL 2015**

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 - Genesee
Summary of Hourly Averages

External Temperature (ET) - C
April 2015

Maximum Value: 24.38 C on Apr 28 16:00		Maximum Daily Average: 15.76 C on Apr 28		Hours in Service: 720																						
Minimum Value: -4.7 C on Apr 5 07:00		Minimum Daily Average: -0.09 C on Apr 4		Hours of Data: 708																						
Maximum Diurnal Average: 12.14 C at hour 16		Minimum Diurnal Average: 0.51 C at hour 6		Hours of Missing Data: 12																						
Monthly Average: 6.304 C		Percentiles: P ₁ = -3.3 P ₁₀ = -0.7 Q ₁ = 1.2 Median = 5.1 Q ₃ = 10.0 P ₉₀ = 15.8 P ₉₉ = 22.2		Hours of Calibration: 0																						
				Percent Operational Time: 98.3																						
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	3.5	3.0	3.9	3.2	2.4	3.3	3.9	3.4	2.6	0.9	0.9	0.7	0.6	0.7	0.7	0.9	1.5	2.1	1.8	1.5	1.0	0.8	0.4	0.0	1.82	3.93
2-Apr	-0.5	-1.3	-1.7	-2.0	-2.3	-2.7	-1.5	-0.9	0.7	1.6	2.9	3.6	4.7	3.9	2.8	4.0	3.6	3.7	2.7	2.0	1.0	0.2	-1.4	-2.5	0.86	4.70
3-Apr	-2.9	-3.1	-3.2	-3.0	-3.2	-3.4	-3.0	-1.3	0.6	2.3	4.0	5.0	6.5	7.6	8.1	8.0	8.3	6.0	4.6	2.7	1.7	0.9	0.7	0.6	1.85	8.27
4-Apr	0.1	-0.4	-1.0	-1.3	-1.6	-2.0	-2.4	-2.3	-1.9	-1.3	-0.7	-0.4	0.1	0.8	1.5	3.0	2.3	2.1	1.9	1.3	1.0	0.2	-0.2	-0.8	-0.09	2.98
5-Apr	-1.6	-2.1	-2.1	-2.8	-3.4	-3.6	-4.7	-2.3	-0.2	2.0	3.4	4.9	5.1	6.0	6.8	6.1	6.4	5.3	3.9	1.9	1.2	0.7	-0.8	-1.9	1.17	6.75
6-Apr	-2.3	-2.8	-2.7	-2.7	-2.9	-3.3	-3.6	-1.9	0.4	2.8	4.4	4.9	4.6	4.4	4.8	5.5	3.5	4.0	3.2	1.4	0.2	-0.2	-0.1	-0.5	0.87	5.54
7-Apr	-0.8	-0.6	-0.5	-0.5	-1.3	-2.6	-2.4	-1.4	1.2	3.0	4.7	5.7	6.6	7.6	8.8	9.4	9.4	9.1	8.4	6.1	3.6	2.0	1.8	0.4	3.24	9.44
8-Apr	0.2	-0.4	0.1	-0.5	-0.9	-1.1	-1.2	1.1	4.9	7.4	9.4	10.9	11.8	12.5	13.2	13.2	13.2	13.2	12.3	10.6	8.4	6.0	4.5	4.1	6.38	13.22
9-Apr	3.9	0.0	-0.3	1.1	0.1	2.3	1.0	2.5	7.1	10.3	12.8	14.2	15.4	16.6	17.0	17.5	17.6	16.9	15.6	12.6	10.9	8.3	6.5	5.6	8.98	17.62
10-Apr	5.6	5.1	4.3	2.6	0.4	0.0	1.0	4.4	8.5	12.6	14.5	16.4	17.7	18.4	18.8	16.7	17.8	17.3	14.9	12.3	8.7	PF	PF	PF	10.38	18.81
11-Apr	PF	PF	PF	PF	PF	PF	PF	PF	PF	8.8	10.0	12.7	11.8	5.1	7.7	10.2	10.1	9.7	8.6	7.2	4.9	3.8	3.5	2.6	--	12.73
12-Apr	1.6	0.2	-1.8	-2.1	-2.1	0.3	0.3	0.4	3.8	5.7	7.8	7.2	7.5	8.4	7.3	8.1	7.6	6.7	5.8	5.2	4.1	3.0	2.1	1.3	3.68	8.42
13-Apr	-2.0	-2.6	-3.3	-2.5	-3.1	-3.9	-3.0	1.3	5.1	7.2	8.7	10.4	11.1	12.1	12.5	13.1	13.1	12.2	11.2	9.1	7.4	5.7	3.9	2.9	5.28	13.10
14-Apr	2.4	1.9	1.6	1.0	1.1	0.8	1.0	1.9	3.2	4.8	6.5	6.8	8.2	8.6	9.5	10.6	10.2	10.2	9.9	8.7	7.5	6.6	5.4	4.4	5.53	10.56
15-Apr	3.1	1.9	1.6	0.9	0.2	-0.4	0.2	2.1	5.0	7.0	8.7	10.0	11.2	12.3	13.6	14.4	14.9	14.9	14.2	11.3	10.1	8.1	7.5	8.3	7.55	14.93
16-Apr	4.4	2.4	2.7	2.8	1.3	0.8	1.8	5.4	8.3	12.1	15.4	17.6	18.6	19.3	19.8	19.3	17.9	17.5	15.8	14.0	11.2	8.2	5.3	3.9	10.24	19.81
17-Apr	4.2	3.6	4.0	2.6	0.5	0.3	1.6	4.4	7.9	9.7	9.1	11.4	14.7	17.5	17.7	17.3	14.3	10.0	9.6	7.2	6.4	5.9	8.0	7.0	8.11	17.66
18-Apr	5.5	5.1	4.4	3.8	3.1	2.7	2.6	4.0	6.1	7.8	9.1	9.8	10.1	8.9	10.1	11.5	11.0	10.5	9.7	7.5	4.9	4.0	2.9	1.7	6.53	11.51
19-Apr	0.5	0.5	0.9	0.6	-0.6	-0.3	-0.5	3.8	6.3	8.5	10.1	11.3	12.0	12.4	14.2	14.6	14.3	14.7	14.0	11.3	9.0	7.5	5.9	5.5	7.35	14.66
20-Apr	5.1	3.2	0.1	-0.5	0.7	0.8	1.7	5.3	8.9	11.4	14.1	16.1	17.0	17.8	18.3	19.1	18.9	17.5	17.1	15.6	13.3	12.5	9.4	11.1	10.61	19.06
21-Apr	10.0	8.2	7.2	5.0	3.9	2.4	2.9	5.8	9.3	13.2	16.9	19.0	20.0	20.9	21.8	20.8	21.7	21.5	20.5	18.1	15.5	13.8	12.7	11.2	13.42	21.84
22-Apr	10.0	9.1	9.2	9.6	9.1	8.0	8.3	9.7	12.2	15.8	18.6	19.4	21.3	22.3	22.3	21.9	22.4	19.1	9.1	7.1	5.3	3.4	3.1	3.3	12.48	22.42
23-Apr	3.2	3.0	2.8	2.2	1.5	0.9	1.8	3.8	5.1	5.5	6.1	6.6	7.6	7.8	7.7	8.9	9.1	8.7	7.2	5.4	2.5	1.9	0.4	0.9	4.60	9.08
24-Apr	0.7	0.4	0.5	1.6	2.3	1.9	2.2	2.3	2.7	3.5	3.9	4.6	5.1	5.6	6.2	6.4	5.7	5.4	4.2	3.6	3.1	2.6	1.9	0.7	3.21	6.36
25-Apr	1.0	0.9	0.7	0.1	-0.3	-0.6	-0.7	-0.6	0.0	0.8	1.2	2.0	2.3	2.7	3.2	5.0	5.8	6.0	5.9	3.1	0.9	-0.6	-1.7	-1.8	1.47	6.05
26-Apr	-1.9	-2.3	-2.8	-2.8	-2.2	-2.7	-1.9	0.4	2.8	5.1	6.8	7.8	8.9	9.8	10.6	11.0	11.1	10.6	9.5	7.2	4.5	2.9	1.7	0.8	3.95	11.09
27-Apr	0.2	0.0	0.6	0.9	2.0	1.5	2.8	5.8	9.6	14.5	16.8	17.3	18.3	19.5	20.1	20.5	21.2	21.1	18.9	14.7	11.4	9.2	8.3	6.8	10.91	21.18
28-Apr	8.1	7.9	8.1	7.6	6.8	6.5	7.5	9.2	12.3	17.2	19.0	20.5	21.9	23.5	24.2	24.4	24.2	24.3	22.8	21.4	18.2	16.8	13.9	12.3	15.76	24.38
29-Apr	10.8	9.7	9.2	9.1	8.3	7.7	7.5	7.1	5.3	5.9	7.1	8.0	9.0	10.2	9.4	11.5	12.9	12.8	12.3	10.7	8.1	5.7	4.0	3.9	8.59	12.89
30-Apr	3.5	3.1	2.0	1.3	1.7	1.2	3.3	6.3	7.1	9.2	12.3	14.8	14.8	13.7	12.3	11.4	11.0	12.3	11.5	9.8	5.5	5.2	5.9	5.0	7.67	14.83
																								Diurnal Average		
																								Diurnal Maximum		
2.60 1.85 1.54 1.22 0.74 0.51 0.91 2.74 4.99 7.18 8.81 9.96 10.83 11.23 11.70 12.14 12.03 11.51 10.24 8.34 6.38 5.00 3.98 3.33																										
10.85 9.71 9.19 9.60 9.08 8.01 8.31 9.66 12.25 17.19 19.00 20.48 21.90 23.53 24.22 24.38 24.17 24.26 22.78 21.41 18.15 16.83 13.86 12.25																										
PF - Power Failure																										



WCAS - Genesee
Summary of Hourly Averages

External Temperature 10 m (ET_10) - C
April 2015

Maximum Value: 24.26 C on Apr 28 18:00		Maximum Daily Average: 16.31 C on Apr 28		Hours in Service: 720																						
Minimum Value: -4.3 C on Apr 5 07:00		Minimum Daily Average: -0.78 C on Apr 4		Hours of Data: 708																						
Maximum Diurnal Average: 10.60 C at hour 17		Minimum Diurnal Average: 1.04 C at hour 7		Hours of Missing Data: 12																						
Monthly Average: 5.978 C		Percentiles: P ₁ = -2.7 P ₁₀ = -0.9 Q ₁ = 1.6 Median = 4.7 Q ₃ = 9.6 P ₉₀ = 15.0 P ₉₉ = 22.2		Hours of Calibration: 0																						
				Percent Operational Time: 98.3																						
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	3.4	3.0	3.7	2.9	2.1	3.0	3.6	3.0	2.2	0.4	0.4	0.1	0.0	0.1	0.1	0.3	1.1	1.7	1.6	1.3	0.9	0.6	0.3	0.0	1.49	3.70
2-Apr	-0.4	-1.2	-1.6	-1.7	-2.3	-2.7	-2.3	-1.9	-0.4	0.8	1.9	2.6	3.4	2.8	1.9	2.8	2.3	2.9	2.7	2.0	0.5	0.2	-0.2	-1.1	0.46	3.45
3-Apr	-1.2	-1.5	-2.1	-2.1	-2.4	-2.7	-2.6	-2.0	-0.6	1.4	2.9	3.9	5.2	6.0	6.7	6.8	7.0	5.1	4.1	2.8	1.8	1.1	0.6	0.2	1.59	7.03
4-Apr	-0.3	-0.9	-1.6	-1.9	-2.2	-2.6	-3.0	-3.0	-2.7	-2.3	-2.0	-1.5	-1.1	-0.4	0.2	1.3	1.3	1.4	1.2	1.2	0.9	0.3	-0.3	-0.5	-0.78	1.36
5-Apr	-0.9	-1.1	-1.5	-2.7	-3.2	-3.7	-4.3	-3.4	-1.9	0.1	1.3	2.2	2.5	3.0	3.2	3.3	3.5	3.3	2.8	1.8	1.3	0.9	-0.8	-1.7	0.18	3.49
6-Apr	-1.9	-2.2	-1.8	-1.8	-2.1	-2.6	-3.2	-2.5	-0.6	1.4	2.6	2.9	2.8	2.8	3.4	3.8	2.0	2.9	2.7	1.6	0.5	-0.4	-0.5	-1.0	0.37	3.82
7-Apr	-1.3	-1.3	-1.2	-1.1	-1.2	-1.8	-2.2	-1.7	-0.5	0.8	2.1	3.3	4.4	5.8	6.9	7.8	8.1	8.0	7.8	6.9	5.3	4.3	3.0	2.2	2.69	8.07
8-Apr	2.1	1.3	1.3	1.3	0.9	0.9	0.7	0.7	3.5	5.8	7.7	9.0	9.9	10.5	11.2	11.5	11.8	12.0	11.8	10.9	9.6	7.6	6.7	6.2	6.46	12.03
9-Apr	6.2	3.5	2.1	2.8	2.0	3.2	1.9	1.6	5.9	8.9	11.2	12.5	13.5	14.2	15.0	15.4	15.9	15.8	15.6	14.6	13.1	10.5	9.2	8.4	9.30	15.92
10-Apr	8.4	7.7	6.4	4.6	2.8	2.3	2.3	3.6	6.5	10.5	12.5	14.0	14.9	15.8	16.4	15.7	16.3	16.1	15.0	13.1	10.8	PF	PF	PF	10.26	16.41
11-Apr	PF	PF	PF	PF	PF	PF	PF	PF	PF	8.2	9.0	11.2	10.4	4.7	6.5	8.9	9.0	8.7	8.2	7.4	6.3	5.1	3.9	3.0	--	11.19
12-Apr	2.0	1.2	-0.8	-1.0	-1.1	0.6	0.5	-0.2	2.8	4.2	6.3	6.3	6.5	7.1	6.3	6.8	6.4	5.8	5.2	5.0	4.1	3.2	2.5	1.8	3.40	7.11
13-Apr	-0.5	-1.1	-1.6	-0.8	-1.4	-2.4	-2.2	-0.3	2.8	4.9	6.5	7.8	8.6	9.5	10.0	10.5	11.0	11.1	10.2	8.0	6.0	4.3	3.1	4.80	11.12	
14-Apr	2.3	1.9	1.6	1.3	1.2	0.8	0.7	1.2	2.2	3.7	5.2	5.9	6.9	7.4	8.2	9.3	9.3	9.2	8.5	7.4	6.6	5.4	4.5	4.99	9.29	
15-Apr	3.4	2.3	1.8	1.0	0.6	0.0	0.1	1.5	3.7	5.4	6.8	7.9	8.9	10.0	11.2	12.1	12.9	13.4	13.5	12.6	11.5	11.1	9.7	9.7	7.13	13.51
16-Apr	6.8	4.7	4.8	4.3	3.2	2.5	2.8	4.3	6.5	9.2	12.1	14.3	15.5	16.4	17.2	17.4	17.1	16.8	15.5	14.0	11.4	8.2	6.4	5.4	9.87	17.43
17-Apr	5.6	4.3	4.6	4.3	2.0	2.0	1.4	3.5	7.0	8.4	8.4	10.1	13.0	15.6	16.6	16.6	14.0	10.0	9.2	8.2	7.7	7.0	8.4	7.1	8.12	16.59
18-Apr	5.6	5.1	4.3	3.7	3.1	2.6	2.3	3.3	5.0	6.4	7.6	8.1	8.6	7.5	8.5	9.6	9.6	9.4	9.1	8.0	7.0	6.0	5.7	5.7	6.32	9.57
19-Apr	3.8	1.6	2.6	1.9	0.5	1.7	0.4	2.4	5.3	7.0	8.7	9.7	10.4	11.0	11.9	12.6	12.8	13.2	13.2	12.3	11.0	9.2	8.2	7.6	7.45	13.21
20-Apr	6.9	6.0	3.5	2.1	3.7	2.5	2.2	4.0	7.6	9.7	12.2	14.1	15.0	15.7	16.2	17.0	17.3	16.9	16.7	16.1	15.4	14.7	12.8	11.9	10.84	17.26
21-Apr	10.3	8.4	7.6	6.7	4.5	2.8	2.4	4.4	7.7	11.4	15.0	17.1	18.2	18.9	19.5	19.6	20.2	20.3	20.0	18.3	16.2	14.4	12.8	11.6	12.84	20.25
22-Apr	11.0	10.1	10.5	10.6	10.0	9.3	8.8	9.4	11.4	14.6	17.1	18.0	19.3	20.1	20.5	20.5	20.8	18.6	8.2	6.2	4.4	2.6	2.2	2.4	11.94	20.78
23-Apr	3.0	2.7	2.5	2.0	1.2	0.8	1.3	2.7	4.1	4.5	5.0	5.5	6.2	6.3	6.2	7.1	7.4	7.3	6.4	5.3	4.2	3.9	2.8	2.2	4.19	7.41
24-Apr	2.0	2.0	1.8	1.6	2.0	1.5	1.6	1.5	1.8	2.5	3.0	3.7	4.1	4.7	5.3	5.5	5.0	4.8	3.7	3.0	2.6	2.2	1.4	0.2	2.81	5.50
25-Apr	0.6	0.5	0.4	-0.5	-0.9	-1.1	-1.3	-1.3	-0.7	0.1	0.3	1.0	1.1	1.3	1.8	2.1	3.8	3.9	4.1	2.3	1.0	0.0	-0.9	-1.2	0.69	4.08
26-Apr	-1.3	-1.6	-2.0	-2.2	-1.8	-2.1	-2.4	-0.8	0.8	3.3	4.6	5.1	5.8	6.7	7.5	7.9	8.3	8.5	8.0	6.5	4.7	3.3	1.9	1.2	2.91	8.48
27-Apr	1.0	1.8	2.5	2.7	3.4	2.8	3.1	4.6	7.7	12.0	14.2	15.3	15.9	16.7	17.7	18.5	19.3	19.8	18.4	15.5	13.0	11.4	10.6	9.9	10.75	19.78
28-Apr	10.6	9.9	10.3	9.6	9.0	8.2	7.9	8.3	11.6	16.4	17.9	19.5	21.0	22.5	23.3	23.7	23.9	24.3	23.7	23.2	21.3	19.1	13.8	12.2	16.31	24.26
29-Apr	11.1	10.2	9.5	9.2	8.5	7.8	7.1	6.5	4.7	4.9	5.7	6.3	7.3	8.7	7.9	9.4	10.6	11.1	11.1	10.2	8.8	7.1	5.8	4.8	8.09	11.13
30-Apr	4.1	3.7	3.2	2.6	2.4	2.2	2.6	4.8	5.8	7.7	9.8	11.8	12.9	12.3	11.0	10.6	9.7	11.0	10.7	10.0	9.2	8.4	7.1	7.9	7.56	12.87
																								Diurnal Average		
																								Diurnal Maximum		
3.53 2.79 2.45 2.05 1.53 1.23 1.04 1.87 3.76 5.75 7.20 8.25 9.03 9.45 9.94 10.48 10.60 10.45 9.68 8.64 7.33 6.03 4.93 4.26																								Diurnal Average		
11.10 10.15 10.51 10.64 9.98 9.29 8.79 9.44 11.58 16.37 17.94 19.55 20.99 22.54 23.28 23.68 23.94 24.26 23.70 23.17 21.29 19.09 13.84 12.22																								Diurnal Maximum		
PF - Power Failure																										



WCAS - Genesee
Summary of Hourly Averages

Delta Temperature (ET_D) - C
April 2015

Maximum Value: 3.93 C on Apr 19 00:00 Maximum Daily Average: 0.55 C on Apr 28																				Hours in Service: 720 Hours of Data: 708 Hours of Missing Data: 12 Hours of Calibration: 0 Percent Operational Time: 98.3							
Minimum Value: -3.5 C on Apr 5 15:00 Minimum Daily Average: -1.04 C on Apr 26 Maximum Diurnal Average: 1.01 C at hour 22 Minimum Diurnal Average: -1.78 C at hour 13 Monthly Average: -0.321 C Percentiles: P ₁ = -3.1 P ₁₀ = -2.0 Q ₁ = -1.3 Median = -0.5 Q ₃ = 0.6 P ₉₀ = 1.7 P ₉₉ = 3.1																											
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	0.0	-0.2	-0.4	-0.3	-0.3	-0.3	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.4	-0.3	-0.2	-0.1	-0.1	-0.1	0.0	-0.31	0.03	
2-Apr	0.1	0.2	0.1	0.2	0.0	0.0	-0.8	-1.0	-1.1	-0.7	-0.9	-0.9	-1.2	-1.1	-1.0	-1.2	-1.2	-0.7	0.0	-0.1	-0.4	0.0	1.2	1.4	-0.39	1.37	
3-Apr	1.7	1.6	1.1	0.9	0.7	0.7	0.3	-0.7	-1.2	-0.9	-1.0	-1.1	-1.3	-1.6	-1.4	-1.2	-1.2	-0.8	-0.5	0.1	0.2	0.2	-0.2	-0.4	-0.26	1.69	
4-Apr	-0.4	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.9	-1.0	-1.2	-1.2	-1.1	-1.2	-1.2	-1.7	-0.9	-0.7	-0.6	-0.1	-0.1	0.1	-0.1	0.3	-0.68	0.30
5-Apr	0.7	0.9	0.6	0.2	0.2	0.0	0.4	-1.1	-1.6	-1.9	-2.0	-2.7	-2.6	-3.0	-3.5	-2.8	-2.9	-1.9	-1.1	0.0	0.1	0.2	0.0	0.2	-0.99	0.91	
6-Apr	0.3	0.6	0.9	0.9	0.8	0.7	0.4	-0.5	-0.9	-1.4	-1.8	-2.0	-1.7	-1.6	-1.4	-1.7	-1.4	-1.0	-0.5	0.2	0.3	-0.1	-0.4	-0.5	-0.50	0.88	
7-Apr	-0.5	-0.6	-0.6	-0.6	0.0	0.7	0.2	-0.2	-1.7	-2.2	-2.5	-2.3	-2.2	-1.8	-1.9	-1.6	-1.3	-1.1	-0.5	0.8	1.7	2.3	1.2	1.7	-0.55	2.30	
8-Apr	1.8	1.7	1.1	1.8	1.8	2.0	1.9	-0.4	-1.4	-1.6	-1.6	-1.8	-1.9	-2.0	-2.0	-1.7	-1.4	-1.1	-0.5	0.3	1.2	1.6	2.2	2.0	0.08	2.20	
9-Apr	2.3	3.6	2.4	1.7	1.9	0.9	0.9	-0.9	-1.2	-1.3	-1.6	-1.7	-1.9	-2.3	-2.0	-2.1	-1.7	-1.1	-0.1	2.0	2.1	2.2	2.7	2.8	0.32	3.56	
10-Apr	2.7	2.6	2.1	2.0	2.4	2.2	1.2	-0.8	-2.1	-2.1	-2.1	-2.4	-2.7	-2.7	-2.4	-1.0	-1.4	-1.1	0.0	0.8	2.1	PF	PF	PF	-0.12	2.72	
11-Apr	PF	PF	PF	PF	PF	PF	PF	PF	PF	-0.6	-1.0	-1.5	-1.4	-0.4	-1.2	-1.4	-1.1	-0.9	-0.3	0.3	1.3	1.3	0.5	0.4	--	1.31	
12-Apr	0.4	1.0	1.0	1.1	1.0	0.3	0.2	-0.5	-1.0	-1.5	-1.5	-1.0	-0.9	-1.3	-1.0	-1.2	-1.2	-0.9	-0.6	-0.2	0.0	0.2	0.4	0.5	-0.27	1.08	
13-Apr	1.4	1.5	1.7	1.7	1.6	1.4	0.8	-1.6	-2.3	-2.2	-2.2	-2.6	-2.5	-2.6	-2.5	-2.6	-2.0	-1.1	-0.1	1.1	0.6	0.2	0.4	0.3	-0.48	1.72	
14-Apr	-0.1	0.0	-0.1	0.3	0.1	0.0	-0.2	-0.7	-1.0	-1.1	-1.3	-0.9	-1.3	-1.2	-1.3	-1.3	-0.9	-1.0	-0.6	-0.2	-0.1	0.0	0.0	0.1	-0.53	0.25	
15-Apr	0.2	0.4	0.1	0.2	0.4	0.4	-0.1	-0.7	-1.2	-1.6	-1.8	-2.1	-2.4	-2.3	-2.4	-2.2	-2.0	-1.5	-0.7	1.3	1.4	3.0	2.2	1.3	-0.42	3.00	
16-Apr	2.4	2.2	2.1	1.5	1.8	1.6	0.9	-1.1	-1.8	-2.8	-3.2	-3.2	-3.1	-2.8	-2.5	-1.8	-0.8	-0.7	-0.4	0.0	0.2	0.1	1.1	1.5	-0.37	2.40	
17-Apr	1.4	0.6	0.6	1.7	1.5	1.7	-0.2	-0.9	-0.9	-1.2	-0.7	-1.3	-1.7	-1.8	-1.1	-0.7	-0.2	0.0	-0.4	1.0	1.3	1.1	0.4	0.1	0.01	1.69	
18-Apr	0.1	0.0	-0.1	-0.1	0.0	0.0	-0.3	-0.7	-1.1	-1.4	-1.5	-1.7	-1.5	-1.4	-1.6	-1.9	-1.4	-1.1	-0.7	0.5	2.1	2.0	2.8	3.9	-0.20	3.93	
19-Apr	3.3	1.0	1.7	1.3	1.1	2.0	0.9	-1.4	-1.0	-1.5	-1.4	-1.5	-1.6	-1.4	-2.3	-2.0	-1.4	-1.5	-0.8	1.1	1.9	1.7	2.3	2.1	0.11	3.34	
20-Apr	1.9	2.8	3.4	2.6	3.0	1.7	0.6	-1.3	-1.2	-1.7	-1.9	-2.0	-2.0	-2.1	-2.1	-2.0	-1.7	-0.6	-0.3	0.5	2.1	2.2	3.3	0.8	0.24	3.38	
21-Apr	0.3	0.2	0.4	1.7	0.6	0.4	-0.4	-1.4	-1.6	-1.7	-1.9	-1.9	-1.8	-2.0	-2.4	-1.2	-1.4	-1.2	-0.5	0.2	0.7	0.5	0.1	0.4	-0.58	1.67	
22-Apr	1.0	0.9	1.3	1.0	0.9	1.3	0.5	-0.2	-0.8	-1.2	-1.5	-1.3	-2.0	-2.2	-1.7	-1.4	-1.6	-0.5	-0.9	-0.9	-0.9	-0.8	-0.9	-0.9	-0.53	1.32	
23-Apr	-0.1	-0.3	-0.2	-0.1	-0.3	-0.1	-0.4	-1.1	-1.0	-0.9	-1.1	-1.1	-1.4	-1.5	-1.5	-1.8	-1.6	-1.4	-0.9	-0.1	1.7	1.9	2.4	1.3	-0.41	2.40	
24-Apr	1.3	1.6	1.3	0.1	-0.2	-0.4	-0.6	-0.8	-0.8	-1.0	-0.9	-0.9	-1.1	-1.0	-0.9	-0.9	-0.7	-0.6	-0.5	-0.5	-0.5	-0.4	-0.5	-0.5	-0.39	1.58	
25-Apr	-0.4	-0.4	-0.3	-0.6	-0.6	-0.5	-0.6	-0.6	-0.7	-0.7	-0.8	-1.0	-1.2	-1.4	-1.4	-2.8	-1.9	-2.1	-1.8	-0.7	0.1	0.6	0.8	0.6	-0.77	0.84	
26-Apr	0.6	0.6	0.8	0.6	0.3	0.6	-0.5	-1.2	-1.9	-1.8	-2.2	-2.6	-3.1	-3.1	-3.1	-3.1	-2.8	-2.1	-1.5	-0.7	0.3	0.4	0.2	0.4	-1.04	0.76	
27-Apr	0.8	1.8	1.9	1.7	1.4	1.4	0.3	-1.2	-1.8	-2.5	-2.5	-2.0	-2.4	-2.8	-2.3	-2.0	-1.8	-1.3	-0.5	0.8	1.6	2.2	2.3	3.1	-0.16	3.10	
28-Apr	2.5	2.1	2.2	2.0	2.3	1.7	0.4	-0.9	-0.7	-0.8	-1.1	-0.9	-0.9	-1.0	-0.9	-0.7	-0.2	0.0	0.9	1.8	3.1	2.2	0.0	0.0	0.55	3.12	
29-Apr	0.2	0.4	0.3	0.1	0.2	0.0	-0.4	-0.6	-0.6	-1.0	-1.4	-1.7	-1.7	-1.5	-1.5	-2.1	-2.2	-1.7	-1.2	-0.5	0.7	1.4	1.7	0.9	-0.50	1.72	
30-Apr	0.5	0.6	1.2	1.2	0.6	1.0	-0.7	-1.4	-1.3	-1.5	-2.5	-3.0	-2.0	-1.4	-1.3	-0.8	-1.2	-1.4	-0.8	0.3	3.7	3.2	1.2	2.8	-0.11	3.67	
																								0.92 0.93 0.91 0.82 0.78 0.71 0.13 -0.86 -1.21 -1.42 -1.59 -1.70 -1.78 -1.76 -1.74 -1.64 -1.41 -1.05 -0.55 0.29 0.95 1.01 0.94 0.92		Diurnal Average	
																								3.34 3.56 3.38 2.57 2.99 2.24 1.90 -0.21 -0.44 -0.47 -0.46 -0.50 -0.55 -0.41 -0.53 -0.52 -0.21 -0.01 0.91 1.95 3.67 3.19 3.31 3.93		Diurnal Maximum	
PF - Power Failure																											



WCAS - Genesee Summary of Hourly Averages

Wind Speed (WS) - kph April 2015

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	30.5	23.3	39.8	45.0	33.8	34.6	42.3	47.8	50.5	41.3	41.6	45.9	46.3	44.1	39.4	32.8	29.4	29.3	23.6	20.9	15.8	16.0	15.4	15.7	32.65	50.48
Dir	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NNW	NW	NW	NW	NW	NW	NW	WNW
2 Spd	14.9	11.8	11.8	10.6	7.6	8.5	10.8	10.7	9.6	13.1	15.8	19.5	19.2	22.8	12.0	16.9	14.0	8.5	1.4	8.6	4.2	1.0	6.4	3.0	9.11	22.79
Dir	NW	WNW	W	W	WSW	WSW	WSW	WSW	WSW	WNW	W	WNW	NW	NNW	NW	NNW	NNW	NW	WNW	NW	NW	SE	SW	WSW	WNW	NNW
3 Spd	6.8	8.2	8.3	12.7	13.5	14.1	12.3	10.9	12.2	10.4	8.8	7.0	9.3	7.7	6.5	11.5	8.4	16.4	14.2	10.0	7.3	4.7	9.1	11.1	4.25	16.40
Dir	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	NW	NNW	NW	NW	N	NNW	NW	NE	NE	NE	ENE	ENE	NE	ENE	NW	NE
4 Spd	10.9	14.0	12.9	12.7	13.4	12.9	11.9	13.4	12.3	12.8	12.0	13.0	10.7	8.6	8.1	7.3	6.6	9.6	5.1	6.5	5.8	6.3	6.5	4.9	8.50	14.01
Dir	ENE	ENE	ENE	ENE	E	E	ENE	ENE	ENE	E	E	ENE	ENE	ENE	ENE	E	ENE	NNE	NE	NNE	NE	S	SSW	SSW	ENE	ENE
5 Spd	2.2	2.2	5.2	6.3	4.3	3.5	3.9	2.3	5.8	5.1	11.1	18.3	19.1	17.9	16.4	17.5	14.4	13.6	10.8	8.1	6.8	5.4	8.5	7.0	6.66	19.11
Dir	SE	ENE	ENE	NE	ENE	NE	NE	SE	SSE	SSE	SSE	S	S	S	S	S	SSE	ESE	ESE	ESE	ESE	E	ENE	E	SSE	S
6 Spd	7.1	7.8	10.6	11.9	10.2	9.2	8.2	12.3	17.6	17.0	23.2	29.3	32.3	28.3	24.1	33.8	26.3	23.4	21.8	17.3	19.1	16.1	17.4	13.4	17.84	33.82
Dir	E	ESE	SE	SE	SE	SE	SE	SE	SSE	SE	SSE	SSE	SSE	SSE	SE	SSE	SE	SE	SE	SE	SSE	SE	SE	SE	SE	SSE
7 Spd	9.8	11.3	8.7	6.1	5.5	2.5	1.8	3.0	5.6	7.8	5.6	2.9	3.1	6.5	8.5	11.9	14.5	6.8	3.6	2.1	6.2	6.4	3.3	5.9	1.09	14.49
Dir	ESE	ESE	ESE	SE	SE	E	E	SE	SSW	SW	S	SSW	SSW	WNW	WNW	NNW	NW	NW	N	E	ESE	SE	S	SSW	SSE	NW
8 Spd	10.9	13.2	17.6	13.5	15.7	15.5	15.8	15.0	16.1	14.2	14.5	15.1	18.9	17.1	18.0	15.8	13.4	13.7	10.4	7.2	6.6	8.3	12.3	14.4	13.23	18.93
Dir	WSW	WSW	WSW	WSW	W	W	WSW	WSW	WSW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WSW	SW	SW	WSW	WSW	W	WNW
9 Spd	14.2	11.5	15.6	15.9	12.8	15.3	16.2	14.5	16.2	15.5	14.1	12.3	11.8	8.8	7.8	8.9	8.7	9.2	4.7	4.6	5.3	5.5	7.9	8.4	9.25	16.20
Dir	W	WSW	WSW	W	WSW	W	W	WSW	W	W	WNW	WNW	WNW	WSW	WSW	SW	SSW	SW	SSW	SE	SE	SSE	SSW	SSW	WSW	W
10 Spd	6.7	8.2	9.8	11.2	12.0	14.3	17.0	10.8	10.3	14.5	12.0	8.8	15.2	16.7	17.0	18.7	19.0	20.6	22.5	20.7	15.2	PF	PF	PF	13.94	22.52
Dir	SSW	SW	WSW	WSW	SW	WSW	WSW	WSW	SW	WSW	WSW	SW	SW	SSW	SW	SSW	SW	SW	SW	SW	SW	PF	PF	PF	SW	SW
11 Spd	PF	PF	PF	PF	PF	PF	PF	PF	PF	13.1	7.7	8.5	23.8	38.8	28.2	35.5	30.2	27.5	21.7	15.7	12.0	11.9	14.1	14.2	--	38.81
Dir	PF	PF	PF	PF	PF	PF	PF	PF	PF	NNE	WNW	NW	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	W	WNW	WNW	--	NW
12 Spd	14.5	9.7	10.2	8.3	9.5	12.5	10.2	9.4	19.1	27.5	30.7	32.3	29.9	38.6	36.7	39.3	35.9	34.8	30.9	23.3	22.9	19.0	17.7	18.5	21.66	39.29
Dir	W	W	SW	SW	SW	W	W	SW	W	W	WNW	WNW	W	W	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	W	W	WNW
13 Spd	13.4	12.0	12.8	16.1	14.4	12.5	15.2	11.5	11.4	9.0	5.3	11.5	9.8	11.9	15.8	15.0	13.5	11.8	12.3	8.5	8.4	8.0	7.5	9.2	6.10	16.14
Dir	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	SW	SW	SW	S	S	SSE	SE	SE	SE	SE	SE	E	E	E	E	E	SSW	W
14 Spd	10.5	9.6	7.4	8.6	8.0	7.4	6.6	4.7	2.2	20.3	25.0	21.9	26.7	29.9	26.5	23.7	29.7	27.1	26.1	18.2	24.9	20.9	13.5	15.5	12.56	29.94
Dir	ENE	E	E	E	E	E	ESE	ESE	NNE	NW	NW	NW	NW	NW	NW	NNW	NW	NW	NW	WNW	WNW	NW	WNW	WNW	NW	NW
15 Spd	14.8	14.3	17.2	17.8	15.5	15.7	16.1	16.5	14.8	15.4	15.2	16.2	16.6	19.0	19.3	17.3	15.5	11.1	6.0	4.6	1.3	7.8	9.2	9.7	13.06	19.33
Dir	WNW	W	WNW	WNW	W	W	W	W	WNW	WNW	W	W	W	W	WSW	W	W	W	WNW	NNE	E	WNW	W	W	W	WSW
16 Spd	10.1	9.9	7.1	8.7	12.8	13.5	13.9	12.1	8.0	13.7	12.0	17.4	22.6	24.7	27.5	27.4	16.4	30.0	30.1	25.8	22.2	20.6	12.0	1.2	10.28	30.10
Dir	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SW	SSW	SSW	SW	WSW	W	WNW	NW	NNW	NNW	N	N	N	NNE	W	NNW
17 Spd	3.4	11.8	9.9	6.5	7.0	9.7	9.1	12.0	30.6	32.0	24.2	26.5	22.2	13.0	11.9	8.7	27.7	32.0	22.8	8.2	9.0	10.0	21.1	26.2	3.36	32.03
Dir	SW	WSW	WSW	WSW	SW	SW	SSW	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	NW	NW	NNW	N	NNW	W	WSW	NW	NW	SW	NNW
18 Spd	26.4	31.8	34.5	36.8	27.2	23.0	22.3	25.3	30.7	31.6	36.0	38.2	34.6	27.4	30.6	29.1	26.2	27.0	22.3	16.2	8.4	8.6	8.6	11.0	24.82	38.17
Dir	NW	NW	NW	NW	WNW	WNW	WNW	WNW	NW	WNW	NW	NW	NW	NNW	NW	NNW	NNW	NW	NW	NW	NNW	N	NNW	NW	NW	NW
19 Spd	7.3	7.0	9.8	9.7	2.6	8.7	7.5	3.4	3.6	4.5	2.8	6.4	9.7	8.7	4.4	2.6	6.5	4.9	5.8	5.8	4.2	4.3	5.9	8.3	2.94	9.82
Dir	WNW	WSW	W	W	WSW	W	W	WSW	NW	WNW	NNW	NNW	NNW	NNW	SSW	SW	NNW	E	NNE	NNE	SE	SSE	S	SW	WNW	W
20 Spd	8.5	5.7	3.0	8.4	15.0	17.1	15.3	13.2	17.1	16.8	18.3	19.5	22.3	21.5	20.1	20.7	19.5	17.8	14.7	9.9	8.3	9.4	7.9	5.9	11.72	22.27
Dir	SW	WNW	SW	W	WSW	WSW	WSW	WSW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNE	WNW	NW
21 Spd	9.7	16.4	10.2	7.8	10.0	11.4	6.9	6.2	6.4	6.4	10.0	9.1	7.9	6.1	5.7	4.1	9.5	11.3	10.4	10.3	10.3	10.1	7.8	6.6	8.32	16.36
Dir	E	ESE	SE	SE	ENE	E	E	E	ESE	ESE	E	E	E	SE	SSE	SE	E	ESE	ESE	E	E	E	E	E	ESE	ESE
22 Spd	7.5	10.2	10.6	15.2	11.8	14.3	12.7	15.3	19.8	25.2	29.7	33.8	34.8	33.5	33.9	35.6	35.0	19.0	46.5	42.4	35.4	31.1	23.3	22.3	8.12	46.50
Dir	E	E	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	WNW	NW	NW	WNW	NW	WNW	SE	WNW



WCAS - Genesee
Summary of Hourly Averages

Wind Speed (WS) - kph
April 2015

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	28.9	15.0	13.5	13.4	12.0	11.7	14.4	17.5	21.5	21.9	21.4	19.6	18.1	25.6	23.7	25.5	23.6	18.5	16.9	12.7	9.3	6.4	9.0	6.6	14.68	28.94		
Dir	NW	W	W	W	WSW	WSW	W	W	W	W	W	W	WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	WNW	NW		
24 Spd	6.5	6.6	8.9	4.1	8.5	9.5	8.4	11.3	10.3	12.2	11.3	11.8	9.9	9.9	13.7	16.6	16.6	16.7	17.6	16.2	13.5	10.1	10.7	13.8	9.64	17.62		
Dir	N	N	NNW	NNW	NNW	NNW	N	NE	NE	NE	NE	ENE	ENE	NE	ENE	ENE	NE	NE	NE	ENE	ENE	ENE	SE	E	NE	NE		
25 Spd	14.1	12.5	7.1	12.0	9.6	9.4	7.8	9.2	9.4	14.8	17.8	15.4	10.4	3.8	4.6	8.0	2.6	8.7	6.2	17.3	13.1	10.5	8.5	8.7	5.92	17.76		
Dir	ENE	ENE	NE	ENE	NE	NE	NE	NE	NNE	NE	ENE	ENE	E	E	E	S	E	SSE	S	SSE	SSE	S	SSW	SSW	E	ENE		
26 Spd	7.4	8.2	8.2	10.6	14.1	11.3	6.2	0.8	3.9	8.8	14.9	17.8	16.9	16.7	18.9	17.7	18.0	17.1	17.0	12.3	11.2	9.5	6.5	8.9	8.13	18.91		
Dir	SW	SW	WSW	WSW	W	WSW	WSW	SSE	S	SSE	SE	SSE	SSE	SE	SSE	SE	SE	SE	ESE	ESE	SE	SE	E	E	SSE	SSE		
27 Spd	7.7	6.8	5.4	10.7	16.0	15.6	17.0	16.7	13.5	12.4	11.7	7.3	11.0	13.6	14.2	15.0	13.9	11.1	8.7	12.6	12.9	6.8	6.3	10.0	8.75	16.97		
Dir	E	SE	S	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	W	WSW	SW	WSW	SW	SW	SW	SW	SSE	SE	SSE	SE	S	SW	SW	WSW	
28 Spd	14.2	16.7	14.5	13.1	9.3	5.9	6.3	4.7	9.8	23.6	23.4	20.9	24.0	21.3	22.7	20.9	16.7	17.8	15.5	12.2	8.5	11.4	30.7	29.1	9.92	30.66		
Dir	WSW	WSW	WSW	WSW	WSW	SW	S	S	SSE	SSE	SSE	S	S	S	SSW	SSW	SSW	S	S	S	SSW	W	NW	NNW	SSW	NW		
29 Spd	17.9	14.2	16.7	17.1	14.0	23.9	25.4	26.1	24.2	21.1	14.1	14.9	16.5	20.5	26.5	20.1	20.8	18.6	21.1	16.9	13.4	13.1	13.2	13.5	16.51	26.54		
Dir	NNW	NW	NW	WNW	WNW	NW	NW	NW	NW	NW	NW	W	W	W	W	W	W	W	W	W	W	WSW	WSW	WSW	WNW	W		
30 Spd	13.7	14.0	13.8	14.2	12.7	12.3	13.9	11.2	10.2	6.0	6.8	15.2	22.8	21.1	19.8	17.6	6.9	4.4	14.8	6.1	10.2	7.9	6.5	3.4	8.43	22.82		
Dir	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WNW	WNW	SW	WSW	WSW	WSW	NNW	NNW	N	WNW	NNW	NNW	N	N	SSW	WSW	W	WSW		
Spd	5.16	4.70	6.37	7.33	6.87	7.39	7.74	6.33	6.56	5.95	5.25	5.28	6.65	7.33	6.55	6.39	6.39	5.72	6.16	3.96	2.72	2.93	3.72	4.11	Diurnal Average			
Dir	NNW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	WNW	WNW	NW	NW	NW	WNW	WNW	WNW	WNW	Diurnal Maximum		
Spd	30.47	31.84	39.80	45.00	33.76	34.59	42.28	47.83	50.48	41.27	41.65	45.93	46.31	44.10	39.36	39.29	35.90	34.84	46.50	42.37	35.42	31.09	30.66	29.09	Diurnal Maximum			
Dir	293.00	309.82	290.30	292.49	280.46	289.60	294.90	296.47	297.67	296.35	296.49	306.59	308.80	313.55	318.20	281.76	292.45	283.33	300.87	319.54	305.35	303.06	324.48	335.26	Diurnal Maximum			
Maximum Speed Value: 50.5 kph on Apr 1 09:00																			Minimum Speed Value: 0.8 kph on Apr 26 08:00					Hours in Service:				720
Maximum Daily Speed Average: 32.65 kph on Apr 1																			Minimum Daily Speed Average: 1.09 kph on Apr 19					Hours of Data:				708
Maximum Diurnal Speed Average: 7.74 kph at hour 7																			Minimum Diurnal Speed Average: 2.72 kph at hour 21					Hours of Missing Data:				12
Monthly Average Velocity: 5.458 kph 277.47 deg																			Speed Percentiles: P ₁ = 2.1 P ₁₀ = 6.0 Q ₁ = 8.5 Median = 12.8 Q ₃ = 17.9 P ₉₀ = 27.4 P ₉₉ = 43.6					Percent Operational Time:				98.3
All monthly, daily, and diurnal averages have been calculated using vector methods																												
PF - Power Failure																												
Frequency Distribution																												
	Speed Range (kph)																											
Direction	0 to 5	5 to 11	11 to 19	19 to 28	28 to 38	> 38	Total																					
North	3	17	10	5	1	0	36																					
NorthEast	6	23	19	0	0	0	48																					
East	9	43	16	0	0	0	68																					
SouthEast	9	26	34	14	11	0	94																					
South	4	20	17	6	2	0	49																					
SouthWest	10	46	37	7	0	0	100																					
West	4	35	106	19	8	4	176																					
NorthWest	4	22	25	47	26	13	137																					
Total	49	232	264	98	48	17	708																					



WCAS - Genesee
Summary of Hourly Averages

Relative Humidity (RH) - %
April 2015

Maximum Value: 95.41 % on Apr 1 17:00		Maximum Daily Average: 84.35 % on Apr 24		Hours in Service: 720																																													
Minimum Value: 15.4 % on Apr 10 15:00		Minimum Daily Average: 29.26 % on Apr 15		Hours of Data: 708																																													
Maximum Diurnal Average: 71.45 % at hour 5		Minimum Diurnal Average: 37.00 % at hour 16		Hours of Missing Data: 12																																													
Monthly Average: 54.125 %		Percentiles: P ₁ = 16.3 P ₁₀ = 23.4 Q ₁ = 33.9 Median = 54.4 Q ₃ = 74.3 P ₉₀ = 88.3 P ₉₉ = 94.7		Hours of Calibration: 0																																													
				Percent Operational Time: 98.3																																													
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	59.2	57.3	54.4	63.8	71.6	61.2	54.6	59.2	68.0	92.2	94.1	94.7	94.9	95.2	95.3	95.4	95.4	94.8	85.6	71.7	73.0	79.8	80.9	80.5	78.04	95.41																							
2-Apr	81.6	83.0	87.1	88.3	88.4	88.7	89.9	87.8	83.5	81.6	77.8	72.8	69.2	74.2	92.0	77.4	79.3	70.9	74.2	77.3	89.0	92.0	92.4	93.4	82.99	93.40																							
3-Apr	93.5	92.4	91.4	90.4	89.3	88.9	88.0	85.2	83.0	75.5	67.8	63.5	54.2	46.0	39.9	36.8	35.1	59.7	68.3	75.5	77.4	79.0	80.8	84.5	72.75	93.51																							
4-Apr	85.6	85.7	89.2	91.3	92.7	91.9	91.3	90.1	88.9	82.9	80.9	83.5	87.0	85.5	82.7	76.8	73.5	74.3	73.0	76.7	75.3	81.7	87.8	89.3	84.06	92.67																							
5-Apr	90.4	92.8	93.5	91.8	89.4	88.3	89.5	86.4	82.6	74.4	61.9	51.3	44.9	41.5	38.8	41.6	40.8	41.7	49.3	61.6	66.1	66.4	75.1	81.8	68.41	93.45																							
6-Apr	81.9	82.4	81.0	77.7	74.4	74.3	74.9	70.8	64.3	53.8	48.7	47.6	46.6	47.8	40.5	38.9	50.4	45.3	46.3	58.1	66.9	76.0	77.4	81.2	62.79	82.37																							
7-Apr	83.1	85.2	85.8	86.2	86.5	90.7	93.1	92.4	82.1	63.2	51.1	45.5	43.1	40.9	36.2	34.1	32.6	33.9	32.6	40.9	53.1	63.0	63.8	67.7	61.95	93.10																							
8-Apr	66.9	68.3	66.7	65.9	65.7	64.7	65.5	62.7	49.7	38.1	33.0	28.6	26.5	24.7	23.2	22.8	23.1	23.0	23.5	28.4	34.1	43.1	45.7	45.0	43.29	68.28																							
9-Apr	43.7	60.7	65.2	58.3	62.2	50.6	55.4	56.5	41.8	31.0	26.1	24.3	21.7	20.1	18.9	18.1	18.3	17.3	16.4	23.2	29.7	35.2	40.8	42.2	36.57	65.19																							
10-Apr	42.5	42.7	44.2	51.0	58.6	62.1	59.1	47.6	41.0	29.1	22.9	20.4	17.5	16.3	15.4	19.1	17.5	16.7	18.6	26.1	35.3	PF	PF	PF	33.50	62.14																							
11-Apr	PF	PF	PF	PF	PF	PF	PF	PF	PF	43.6	43.0	34.4	36.7	59.8	44.9	25.9	23.7	24.0	25.1	24.6	28.7	30.2	28.3	31.7	--	59.76																							
12-Apr	35.4	40.9	56.4	60.1	62.7	50.3	50.3	57.7	40.8	34.5	22.3	18.6	16.9	15.6	17.8	16.5	20.6	21.5	24.3	23.7	28.7	32.1	34.1	37.1	34.12	62.69																							
13-Apr	51.5	55.0	58.1	56.0	56.5	60.4	58.0	44.6	36.4	29.4	25.9	22.9	20.6	19.4	19.3	19.9	20.8	22.3	24.1	27.6	32.3	37.7	44.8	50.5	37.25	60.43																							
14-Apr	54.1	56.7	58.0	61.7	64.0	64.2	65.0	63.0	55.4	54.4	43.6	39.0	36.1	34.9	34.7	33.0	32.9	33.2	31.0	31.5	32.1	32.5	35.6	37.2	45.16	65.01																							
15-Apr	44.4	44.8	43.0	44.5	45.4	46.6	42.0	36.3	30.9	27.3	22.8	20.0	18.9	18.3	17.1	16.2	15.8	15.6	16.3	20.7	23.7	28.7	32.3	30.8	29.26	46.64																							
16-Apr	40.6	49.8	49.5	49.6	54.6	58.2	54.7	45.8	40.1	30.7	24.5	20.7	18.8	17.4	17.9	18.2	21.6	23.4	26.8	31.3	41.9	51.9	59.4	67.7	38.13	67.69																							
17-Apr	68.4	68.9	67.2	70.9	75.7	78.9	66.7	55.3	48.7	39.8	40.8	35.1	29.6	25.6	25.7	27.0	41.9	64.3	65.5	72.4	74.5	77.2	62.8	57.5	55.84	78.87																							
18-Apr	62.8	61.3	65.2	67.1	68.7	68.0	68.9	65.8	57.8	48.8	38.4	33.2	29.7	37.3	32.0	26.9	25.6	25.5	25.7	30.3	34.3	35.7	36.9	42.9	45.37	68.92																							
19-Apr	53.8	59.8	60.4	60.3	65.2	62.0	56.7	45.0	38.3	32.3	26.9	24.4	23.4	23.1	21.8	20.7	20.9	20.1	19.7	24.6	31.4	36.3	41.9	41.8	37.94	65.16																							
20-Apr	42.8	46.2	58.9	63.6	61.2	60.6	57.7	49.6	41.6	38.2	33.3	28.2	27.0	26.2	25.4	26.2	26.5	28.2	28.3	31.4	37.2	39.7	43.3	37.7	39.96	63.62																							
21-Apr	41.0	46.2	49.9	57.0	60.1	66.4	67.0	58.9	50.7	42.8	34.6	30.1	28.3	26.4	24.4	25.5	25.0	24.3	24.5	29.9	35.6	39.7	43.3	48.3	40.84	67.00																							
22-Apr	52.1	55.7	56.3	53.0	53.4	56.8	55.5	51.5	44.5	35.2	29.9	28.0	25.4	24.2	23.6	23.7	23.7	30.3	73.9	87.9	89.8	90.0	90.0	87.6	51.75	90.03																							
23-Apr	84.2	87.0	86.5	85.9	88.3	88.8	82.7	75.6	74.5	71.5	69.8	65.7	63.4	65.5	67.5	59.8	59.7	58.0	60.7	67.7	79.3	82.6	85.7	90.3	75.03	90.27																							
24-Apr	90.8	91.0	92.5	91.7	92.1	92.4	93.1	92.8	92.4	88.9	85.3	80.1	75.7	73.2	69.5	68.0	74.3	73.6	80.2	82.2	83.0	84.0	85.9	91.6	84.35	93.05																							
25-Apr	89.0	84.2	84.5	90.2	92.4	93.3	93.4	93.0	89.2	75.2	68.3	65.9	68.3	71.7	68.8	70.0	56.8	54.9	44.6	62.1	78.8	86.8	89.1	89.6	77.50	93.39																							
26-Apr	88.7	88.7	88.7	86.8	84.1	83.9	78.5	69.7	72.7	63.9	48.3	39.6	37.5	38.8	40.8	41.5	42.8	43.3	44.2	52.2	68.6	75.3	77.8	79.1	63.98	88.70																							
27-Apr	83.0	85.9	87.1	82.2	75.2	74.9	69.3	58.6	49.7	35.9	23.9	23.3	22.5	21.8	20.8	20.2	19.9	19.5	23.5	35.5	46.7	55.1	59.8	63.6	48.24	87.07																							
28-Apr	56.4	55.9	54.0	57.3	60.4	63.8	59.8	55.8	49.7	35.6	31.2	28.2	25.4	22.8	20.2	19.6	20.9	21.1	22.9	24.0	31.1	34.9	47.8	41.9	39.20	63.75																							
29-Apr	39.4	42.2	44.8	46.5	51.6	60.3	67.9	73.3	83.4	83.0	70.8	67.6	59.1	52.2	59.6	48.0	41.0	37.3	30.9	34.6	45.4	54.9	62.8	72.0	55.36	83.44																							
30-Apr	78.3	79.5	82.5	84.2	81.5	79.9	68.9	61.4	59.4	48.5	37.4	29.9	25.7	28.0	37.0	42.3	50.9	39.6	41.0	42.2	58.4	63.3	66.8	63.7	56.26	84.15																							
																								65.01	67.24	69.04	70.12	71.45	71.41	69.56	65.25	60.04	52.71	46.18	42.24	39.83	39.80	39.05	37.00	37.70	38.59	40.70	45.87	52.71	58.09	61.14	63.03	Diurnal Average	
																								93.51	92.78	93.45	91.83	92.67	93.27	93.39	92.97	92.43	92.20	94.13	94.75	94.94	95.15	95.33	95.39	95.41	94.76	85.56	87.89	89.76	91.97	92.36	93.40	Diurnal Maximum	
PF - Power Failure																																																	



WCAS - Genesee
Summary of Hourly Averages

Global Solar Radiation (GSR) - W/m2
April 2015

Maximum Value: 838.16 W/m2 on Apr 26 13:00 Maximum Daily Average: 298.58 W/m2 on Apr 26																								Hours in Service:	720		
Minimum Value: 0.0 W/m2 on Apr 1 01:00 Minimum Daily Average: 56.82 W/m2 on Apr 24																								Hours of Data:	708		
Maximum Diurnal Average: 561.18 W/m2 at hour 13 Minimum Diurnal Average: 0.00 W/m2 at hour 1																								Hours of Missing Data:	12		
Monthly Average: 201.63 W/m2 Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 75.2 Q ₃ = 360.5 P ₉₀ = 622.0 P ₉₉ = 791.2																								Hours of Calibration:	0		
																								Percent Operational Time:	98.3		
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	0.0	0.0	0.0	0.2	17.7	43.5	89.9	102.0	115.6	153.7	217.2	172.2	183.0	119.4	125.4	58.7	5.4	0.0	0.0	0.0	0.0	58.50	217.19	
2-Apr	0.0	0.0	0.0	0.0	0.0	0.0	3.5	49.5	142.2	255.8	406.2	427.9	575.9	384.9	346.6	391.0	370.6	110.5	41.2	4.3	0.0	0.0	0.0	0.0	146.26	575.94	
3-Apr	0.0	0.0	0.0	0.0	0.0	0.0	16.4	97.1	304.6	476.4	582.5	664.9	673.7	660.2	673.8	359.6	380.3	142.1	81.2	7.9	0.0	0.0	0.0	0.0	213.35	673.78	
4-Apr	0.0	0.0	0.0	0.0	0.0	0.0	5.3	50.3	158.7	263.2	278.6	337.6	290.0	243.2	286.9	361.7	129.8	107.1	46.2	5.1	0.0	0.0	0.0	0.0	106.82	361.69	
5-Apr	0.0	0.0	0.0	0.0	0.0	0.0	27.1	73.4	277.6	473.7	520.0	694.3	596.2	683.7	729.5	470.7	453.9	221.6	75.5	7.6	0.0	0.0	0.0	0.0	221.03	729.50	
6-Apr	0.0	0.0	0.0	0.0	0.0	0.0	28.6	128.7	276.5	412.5	557.1	592.4	451.8	360.0	304.6	413.6	233.4	179.7	85.4	7.4	0.0	0.0	0.0	0.0	167.98	592.35	
7-Apr	0.0	0.0	0.0	0.0	0.0	0.0	15.6	189.5	404.4	497.8	609.0	693.5	681.3	714.2	609.8	585.8	349.1	182.9	105.4	10.1	0.0	0.0	0.0	0.0	235.36	714.19	
8-Apr	0.0	0.0	0.0	0.0	0.0	0.0	27.5	166.1	340.8	496.7	626.1	710.2	749.2	743.8	649.8	505.3	335.0	220.8	119.7	20.3	0.0	0.0	0.0	0.0	237.96	749.16	
9-Apr	0.0	0.0	0.0	0.0	0.0	0.0	29.4	169.5	336.7	491.7	626.9	710.1	749.4	742.0	676.8	576.7	443.2	207.2	122.6	19.2	0.0	0.0	0.0	0.0	245.88	749.35	
10-Apr	0.0	0.0	0.0	0.0	0.0	0.0	35.7	186.2	363.7	519.6	644.1	728.4	765.8	751.5	691.7	243.1	391.4	213.4	118.4	29.9	0.0	PF	PF	PF	270.61	765.79	
11-Apr	PF	PF	PF	PF	PF	PF	PF	PF	PF	102.8	236.7	737.2	507.7	36.6	384.7	488.9	320.8	215.1	100.9	19.9	0.0	0.0	0.0	0.0	--	737.18	
12-Apr	0.0	0.0	0.0	0.0	0.0	0.0	14.8	89.8	245.3	482.4	667.7	311.6	316.1	513.2	324.5	457.9	402.1	216.3	120.9	16.3	0.0	0.0	0.0	0.0	174.13	667.74	
13-Apr	0.0	0.0	0.0	0.0	0.0	0.0	62.0	209.8	356.6	469.7	657.6	750.0	673.5	711.6	593.4	580.7	405.4	194.2	119.7	26.2	0.0	0.0	0.0	0.0	242.09	749.96	
14-Apr	0.0	0.0	0.0	0.0	0.0	0.0	15.1	80.4	149.8	214.3	292.9	167.0	313.4	294.8	348.1	322.6	217.6	215.7	122.8	17.0	0.0	0.0	0.0	0.0	115.48	348.10	
15-Apr	0.0	0.0	0.0	0.0	0.0	0.0	66.8	228.7	402.4	553.9	672.8	755.5	794.0	782.8	717.7	616.9	481.2	218.3	151.3	35.8	0.0	0.0	0.0	0.0	269.91	793.98	
16-Apr	0.0	0.0	0.0	0.0	0.0	0.0	67.5	218.9	272.6	548.4	685.2	774.1	799.1	783.4	735.4	495.0	189.6	184.8	123.6	39.1	0.0	0.0	0.0	0.0	246.53	799.12	
17-Apr	0.0	0.0	0.0	0.0	0.0	0.4	82.0	211.3	373.0	377.1	161.2	336.6	465.8	451.3	289.3	179.6	136.8	105.7	171.0	16.0	0.0	0.0	0.0	0.0	139.88	465.81	
18-Apr	0.0	0.0	0.0	0.0	0.0	0.7	73.8	239.8	411.7	560.7	608.3	649.4	511.9	436.8	581.8	684.4	397.9	235.3	168.3	37.3	0.2	0.0	0.0	0.0	233.26	684.39	
19-Apr	0.0	0.0	0.0	0.0	0.0	1.6	80.4	211.9	324.2	393.7	623.0	760.2	789.5	605.8	693.8	616.0	455.1	241.6	176.5	45.5	0.0	0.0	0.0	0.0	250.78	789.54	
20-Apr	0.0	0.0	0.0	0.0	0.0	1.5	76.3	238.9	410.6	559.2	689.0	702.7	689.9	729.7	723.5	622.9	482.9	165.4	105.3	25.7	0.0	0.0	0.0	0.0	259.31	729.73	
21-Apr	0.0	0.0	0.0	0.0	0.0	3.1	79.3	230.2	404.5	540.6	667.7	724.8	762.2	709.4	744.0	322.1	387.2	221.2	154.7	41.0	0.1	0.0	0.0	0.0	249.66	762.23	
22-Apr	0.0	0.0	0.0	0.0	0.0	2.1	38.5	127.9	295.4	541.9	618.0	542.6	794.1	763.3	597.8	482.9	511.8	104.1	1.8	0.0	0.0	0.0	0.0	0.0	225.92	794.09	
23-Apr	0.0	0.0	0.0	0.0	0.0	1.5	105.9	262.1	348.8	282.4	315.0	262.1	416.4	496.4	465.6	609.2	484.4	274.5	172.1	44.0	1.1	0.0	0.0	0.0	189.22	609.23	
24-Apr	0.0	0.0	0.0	0.0	0.0	1.5	46.4	86.3	104.2	157.7	101.6	109.6	136.6	144.0	133.8	128.1	108.7	70.8	21.4	13.1	0.0	0.0	0.0	0.0	56.82	157.72	
25-Apr	0.0	0.0	0.0	0.0	0.0	1.7	28.6	87.7	215.7	327.5	379.7	430.1	290.3	276.0	334.6	612.6	476.0	235.7	201.6	59.1	2.1	0.0	0.0	0.0	164.97	612.59	
26-Apr	0.0	0.0	0.0	0.0	0.0	11.6	163.1	335.7	455.3	587.9	720.0	804.2	838.2	815.5	752.3	652.6	519.2	232.1	208.1	67.9	2.2	0.0	0.0	0.0	298.58	838.16	
27-Apr	0.0	0.0	0.0	0.0	0.0	5.2	84.6	239.9	399.9	612.2	607.3	734.9	765.9	813.0	750.8	613.0	518.0	265.7	167.4	55.9	3.7	0.0	0.0	0.0	276.55	812.96	
28-Apr	0.0	0.0	0.0	0.0	0.0	6.4	78.8	190.0	320.0	565.9	537.0	418.1	449.7	450.7	422.5	361.6	290.5	269.3	176.3	103.8	3.7	0.0	0.0	0.0	193.51	565.86	
29-Apr	0.0	0.0	0.0	0.0	0.0	7.2	37.5	76.2	53.1	193.8	342.0	347.8	284.3	363.9	306.5	477.5	505.1	278.7	221.1	78.6	2.9	0.0	0.0	0.0	149.00	505.09	
30-Apr	0.0	0.0	0.0	0.0	0.0	9.3	146.7	212.3	280.4	596.4	728.5	830.1	549.9	257.4	377.0	177.3	435.5	206.5	186.9	72.4	3.7	0.0	0.0	0.0	211.25	830.07	
																								Diurnal Average			
																								Diurnal Maximum			
PF - Power Failure																											



WCAS - Genesee
Summary of Hourly Averages

Precipitation (PR) - mm
April 2015

Maximum Value: 0.90 mm on Apr 11 13:00 Maximum Daily Total: 0.50 mm on Apr 22																							Hours in Service: 720 Hours of Data: 708			
Minimum Value: 0.0 mm on Apr 1 01:00 Minimum Daily Total: 0.00 mm on Apr 1 Maximum Diurnal Total: 0.90 mm at hour 13 Minimum Diurnal Total: 0.00 mm at hour 4 Monthly Total: 2.800 mm Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 0.0 Q ₃ = 0.0 P ₉₀ = 0.0 P ₉₉ = 0.1																							Hours of Missing Data: 12 Hours of Calibration: 0 Percent Operational Time: 98.3			
Day	Hourly Period Ending At																								Daily Total	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
2-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.20	0.10
3-Apr	0.1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.10
4-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
5-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
6-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
7-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
8-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
9-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
10-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
11-Apr	PF	PF	PF	PF	PF	PF	PF	PF	PF	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	0.90
12-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.10
13-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
14-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
15-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
16-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
17-Apr	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	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.20	0.10
18-Apr	0.0	0.0	0.1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.10
19-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
20-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.10
21-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
22-Apr	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	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.1	0.0	0.0	0.50	0.30
23-Apr	0.0	0.1	0.0	0.0	0.1	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	0.0	0.1	0.0	0.0	0.0	0.30	0.10
24-Apr	0.0	0.1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.10
25-Apr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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	0.0	0.10	0.10
26-Apr	0.0	0.0	0.0	0.0	0.0	0.1	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	0.0	0.0	0.0	0.0	0.10	0.10
27-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
28-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
29-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
30-Apr	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
0.10 0.20 0.10 0.00 0.10 0.10 0.00 0.00 0.10 0.00 0.00 0.00 0.90 0.20 0.00 0.00 0.00 0.00 0.40 0.10 0.10 0.20 0.10 0.10																							Diurnal Average			
0.10 0.10 0.10 0.00 0.10 0.10 0.00 0.00 0.10 0.00 0.00 0.00 0.90 0.10 0.00 0.00 0.00 0.00 0.30 0.10 0.10 0.10 0.10 0.10																							Diurnal Maximum			
PF - Power Failure																										



WCAS - Genesee
Summary of Hourly Standard Deviations

Wind Speed (WS) - kph
April 2015

Maximum Value: 19.48 kph on Apr 11 13:00	Maximum Daily Average: 6.68 kph on Apr 1	Hours in Service: 720
Minimum Value: 0.6 kph on Apr 20 06:00	Minimum Daily Average: 2.39 kph on Apr 4	Hours of Data: 708
Maximum Diurnal Average: 5.68 kph at hour 13	Minimum Diurnal Average: 2.24 kph at hour 5	Hours of Missing Data: 12
Monthly Average: 3.637 kph	Percentiles: P ₁ = 0.8 P ₁₀ = 1.3 Q ₁ = 1.9 Median = 3.1 Q ₃ = 4.9 P ₉₀ = 6.4 P ₉₉ = 10.5	Hours of Calibration: 0
		Percent Operational Time: 98.3

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	6.2	5.6	9.5	10.7	7.8	9.0	10.6	11.2	10.6	8.1	7.4	10.5	7.5	6.7	7.2	5.8	5.0	5.4	4.1	3.2	2.2	2.2	2.0	2.0	6.68	11.19
2-Apr	1.8	2.0	1.4	1.1	1.2	3.9	1.7	1.2	2.2	2.9	3.5	4.7	3.7	7.5	3.1	4.1	3.8	2.4	2.4	4.6	4.2	2.7	1.3	2.6	2.92	7.45
3-Apr	1.9	2.6	3.0	1.0	1.5	1.7	1.6	1.6	1.8	2.8	2.2	3.2	3.7	3.1	4.0	3.3	4.0	4.5	3.1	1.8	2.5	1.2	3.2	2.4	2.57	4.49
4-Apr	2.5	3.4	2.8	2.7	2.8	3.1	2.5	3.0	2.9	2.9	3.0	2.7	2.4	2.2	2.2	2.7	1.6	2.0	2.1	1.0	2.0	1.3	1.3	2.4	2.39	3.42
5-Apr	1.6	1.2	2.3	1.3	1.4	1.0	0.8	1.6	1.4	2.2	5.8	4.1	5.1	5.2	5.1	4.5	4.9	4.8	3.2	2.0	1.3	1.5	2.1	1.4	2.74	5.76
6-Apr	1.4	1.5	1.8	1.7	1.6	1.6	1.5	3.6	3.4	3.5	4.8	5.1	5.6	4.6	5.6	6.2	6.3	5.7	5.2	3.0	2.7	2.8	4.5	3.5	3.64	6.26
7-Apr	2.1	2.2	2.1	1.7	1.1	1.0	1.1	1.6	2.1	3.7	2.8	3.4	3.6	5.3	5.2	5.2	4.4	4.4	1.6	2.6	1.5	1.3	2.0	2.0	2.67	5.29
8-Apr	1.3	2.0	1.3	1.2	1.3	1.4	1.0	1.6	2.8	3.0	3.3	4.3	5.3	5.7	4.7	5.7	4.9	3.9	3.1	0.7	0.6	1.2	0.9	1.2	2.61	5.74
9-Apr	1.1	1.8	1.9	1.9	1.5	1.9	1.8	1.9	3.0	3.2	3.6	4.3	4.5	4.5	5.7	4.3	4.7	3.4	2.2	0.8	1.5	0.7	0.8	0.8	2.57	5.70
10-Apr	1.3	2.1	2.2	3.0	1.7	1.3	1.7	4.1	2.9	2.4	3.8	4.1	6.2	5.7	6.4	9.8	9.2	6.9	4.4	2.8	1.6	PF	PF	PF	3.98	9.76
11-Apr	PF	PF	PF	PF	PF	PF	PF	PF	PF	5.5	3.1	3.9	19.5	7.5	7.3	7.3	6.8	6.2	5.3	5.0	2.8	1.9	2.7	3.1	--	19.48
12-Apr	2.5	2.4	1.1	1.3	1.6	2.4	2.2	2.2	5.1	6.4	7.6	6.7	7.4	9.7	9.8	9.4	8.6	8.6	9.2	6.7	5.3	4.0	3.9	3.7	5.32	9.80
13-Apr	1.9	1.4	1.4	2.1	2.7	2.5	1.0	1.9	1.8	2.7	4.4	5.1	6.8	7.1	5.5	6.4	5.4	3.7	2.3	3.0	2.7	2.6	1.8	1.7	3.25	7.13
14-Apr	2.2	2.5	1.8	1.6	1.8	1.6	1.5	1.7	5.3	6.1	5.0	3.7	5.5	4.7	5.1	4.7	5.5	5.4	5.0	4.8	4.8	4.5	2.5	3.0	3.75	6.05
15-Apr	2.8	2.6	3.1	3.1	2.5	2.7	2.5	2.8	3.3	3.4	5.0	5.7	6.7	6.1	5.4	5.2	5.5	4.4	3.4	1.9	2.1	3.3	2.2	1.8	3.64	6.65
16-Apr	2.3	2.4	2.2	1.4	0.8	0.8	0.7	1.5	1.8	2.7	3.6	6.0	6.2	7.3	7.5	6.2	4.6	7.0	6.1	5.7	3.5	5.0	1.4	3.1	3.74	7.51
17-Apr	3.5	1.0	2.1	0.8	1.4	0.8	1.3	7.8	6.1	5.3	6.3	5.2	5.2	6.0	3.8	4.2	10.6	9.8	6.3	5.2	2.4	1.8	8.7	5.6	4.63	10.63
18-Apr	5.8	6.9	7.1	6.9	6.6	5.7	4.3	5.2	6.1	5.6	6.9	7.0	7.6	7.8	8.3	6.4	5.8	5.8	4.4	3.2	1.3	0.9	1.1	1.1	5.33	8.25
19-Apr	2.6	3.8	1.4	2.1	2.9	4.8	3.4	3.0	2.2	2.3	3.5	4.5	4.9	5.1	4.4	4.2	4.6	3.5	4.3	1.9	0.6	1.0	1.0	0.8	3.04	5.14
20-Apr	1.3	1.5	3.2	2.7	1.6	0.6	2.8	2.7	3.1	2.9	4.4	6.1	6.2	5.6	6.0	5.5	4.8	3.9	2.8	1.8	0.8	1.0	2.1	1.1	3.12	6.22
21-Apr	4.8	3.3	2.7	2.8	2.0	1.5	2.0	1.4	1.7	2.1	2.7	4.0	4.8	5.6	5.4	4.0	5.3	3.5	3.0	3.0	2.4	2.1	2.6	1.6	3.09	5.59
22-Apr	1.8	1.8	2.1	2.2	2.3	2.1	2.8	4.4	3.8	6.3	5.5	6.6	7.3	7.0	7.0	7.2	7.1	10.3	8.9	7.5	9.7	5.3	5.2	4.7	5.37	10.27
23-Apr	6.0	4.2	2.8	2.5	2.8	1.9	2.1	3.2	4.9	5.1	5.5	4.4	4.5	4.8	4.4	4.6	4.6	4.2	3.8	2.6	2.3	1.8	1.7	1.5	3.58	5.98
24-Apr	1.3	1.6	2.5	3.1	1.4	1.2	1.7	2.9	2.7	2.8	2.7	3.3	3.7	2.6	3.3	3.8	4.4	4.2	4.2	3.9	3.7	3.9	3.9	5.3	3.08	5.30
25-Apr	6.6	3.5	2.4	3.3	2.6	2.3	2.7	2.1	2.2	4.1	4.3	3.8	3.6	3.4	6.4	4.4	4.2	2.6	4.5	2.5	1.8	1.1	3.1	1.5	3.28	6.56
26-Apr	1.1	0.8	1.3	1.8	0.9	3.4	5.5	1.2	2.0	3.5	3.5	4.2	3.9	4.8	4.3	3.9	3.6	3.5	2.8	3.1	2.6	2.1	1.4	1.6	2.78	5.52
27-Apr	1.4	0.9	1.4	4.4	1.5	1.1	1.0	2.0	2.7	2.1	3.5	4.3	5.6	4.9	6.8	5.9	4.9	4.7	5.4	3.1	2.7	1.4	0.9	1.9	3.10	6.81
28-Apr	1.3	1.6	3.0	1.8	3.0	1.1	1.3	1.2	3.2	6.9	4.5	4.5	4.4	3.6	3.8	3.4	2.9	3.1	4.5	3.4	3.1	8.5	5.5	4.9	3.52	8.48
29-Apr	5.5	2.3	2.8	3.5	3.0	5.5	4.0	4.4	4.5	3.6	5.9	3.8	4.0	4.9	4.9	4.7	5.3	5.0	4.9	3.0	1.9	1.0	1.4	1.9	3.82	5.92
30-Apr	2.8	2.1	1.3	1.2	1.2	1.8	1.6	3.8	4.2	3.4	4.0	7.6	5.2	7.9	11.4	7.6	6.9	6.3	5.0	1.5	1.4	2.5	1.3	2.5	3.94	11.42

2.71	2.44	2.55	2.57	2.24	2.41	2.38	2.99	3.43	3.91	4.40	4.90	5.68	5.56	5.67	5.35	5.34	4.96	4.25	3.17	2.60	2.44	2.49	2.43	Diurnal Average	
6.56	6.93	9.46	10.71	7.75	9.03	10.63	11.19	10.57	8.06	7.64	10.50	19.48	9.66	11.42	9.76	10.63	10.27	9.19	7.53	9.74	8.48	8.71	5.56	Diurnal Maximum	

PF - Power Failure

,Alberta Ambient Air Quality Objectives (AAAQO): 1-hr --- ul/m³ 24-hr 100 ul/m³



WCAS - Genesee
Summary of Hourly Standard Deviations

Wind Direction (WD) - deg
April 2015

Maximum Value: 91.47 deg on Apr 19 16:00		Maximum Daily Average: 38.14 deg on Apr 19		Hours in Service: 720																																													
Minimum Value: 2.4 deg on Apr 16 07:00		Minimum Daily Average: 8.66 deg on Apr 1		Hours of Data: 708																																													
Maximum Diurnal Average: 27.88 deg at hour 15		Minimum Diurnal Average: 9.64 deg at hour 6		Hours of Missing Data: 12																																													
Monthly Average: 17.457 deg		Percentiles: P ₁ = 4.1 P ₁₀ = 6.9 Q ₁ = 9.3 Median = 12.6 Q ₃ = 19.6 P ₉₀ = 35.5 P ₉₉ = 78.4		Hours of Calibration: 0																																													
				Percent Operational Time: 98.3																																													
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	9.3	10.4	11.1	10.4	11.4	11.2	10.3	9.4	10.0	11.1	9.2	8.0	7.3	6.8	7.2	7.5	7.9	8.0	6.9	7.0	8.0	5.6	8.3	5.5	8.66	11.44																							
2-Apr	6.1	11.2	6.2	10.5	15.7	14.9	9.0	8.4	24.0	10.7	13.1	16.4	12.6	16.1	22.9	30.2	18.4	14.5	68.2	31.2	89.6	67.4	14.6	78.4	25.43	89.56																							
3-Apr	16.9	8.7	9.5	2.5	4.3	5.2	6.8	8.1	9.4	15.5	24.3	28.6	29.4	38.5	50.4	27.3	26.9	19.0	10.4	9.4	18.4	17.5	14.7	11.2	17.20	50.37																							
4-Apr	13.0	9.3	10.6	11.0	11.3	11.4	11.1	9.8	12.9	10.7	12.7	12.2	13.1	18.3	16.4	23.3	26.5	15.3	19.8	7.2	34.0	22.9	9.1	28.7	15.44	33.99																							
5-Apr	28.6	6.6	9.1	11.7	11.8	10.8	10.9	36.7	11.5	25.0	26.8	16.4	17.5	20.3	18.3	16.1	23.4	21.4	23.0	10.0	10.7	23.1	11.4	8.7	17.09	36.71																							
6-Apr	10.5	10.0	13.0	6.0	7.7	11.9	11.0	9.1	9.0	10.3	16.0	11.0	10.0	10.9	13.6	10.8	17.4	16.0	11.9	13.2	7.1	8.7	9.1	10.9	11.06	17.44																							
7-Apr	11.0	9.3	11.7	10.8	9.4	15.2	17.5	19.1	35.7	36.5	36.6	76.7	73.8	59.3	55.8	36.5	20.9	49.6	47.9	37.5	16.0	18.4	30.7	18.4	31.43	76.74																							
8-Apr	6.3	6.3	4.7	5.4	6.2	5.5	5.0	5.6	9.2	13.1	16.9	22.2	19.6	23.2	18.4	22.3	25.3	24.0	15.0	8.3	6.4	10.9	2.8	4.6	11.98	25.30																							
9-Apr	7.5	5.5	4.9	7.0	8.7	6.4	9.9	5.3	13.4	10.5	17.5	25.7	31.2	45.5	55.0	35.6	36.6	22.5	20.6	8.1	4.9	17.3	7.0	5.0	17.14	54.96																							
10-Apr	4.4	22.1	6.2	11.5	7.9	5.3	5.5	9.3	11.3	14.8	19.7	35.5	26.8	25.0	24.6	28.6	18.7	20.4	7.1	4.9	4.3	PF	PF	PF	14.94	35.49																							
11-Apr	PF	PF	PF	PF	PF	PF	PF	PF	PF	34.0	49.2	34.4	37.9	8.8	10.7	12.3	16.3	12.5	19.1	15.9	10.0	7.7	10.0	9.0	--	49.22																							
12-Apr	8.8	30.5	5.7	7.1	13.2	8.7	21.0	11.4	10.8	12.5	16.1	14.3	13.3	13.7	16.2	12.9	11.8	13.0	13.5	12.1	10.1	10.0	9.1	11.4	12.80	30.54																							
13-Apr	5.1	6.1	6.0	6.3	11.8	10.3	3.8	7.4	10.3	23.0	53.2	32.2	39.8	31.0	24.5	24.2	25.9	26.9	13.1	18.8	10.9	12.8	13.1	11.5	17.83	53.22																							
14-Apr	10.9	11.1	12.0	9.5	10.6	9.9	12.7	15.3	66.3	14.2	10.3	9.9	9.2	9.3	9.5	15.3	8.8	9.6	9.4	10.6	8.7	8.3	8.8	10.1	12.92	66.27																							
15-Apr	9.4	9.1	9.2	8.7	10.3	7.9	8.8	9.2	12.7	15.2	19.9	24.8	24.5	25.0	25.0	24.5	20.3	29.3	44.8	35.3	53.0	36.2	23.5	9.5	20.49	53.03																							
16-Apr	23.6	12.3	15.2	5.5	5.7	4.0	2.4	5.2	24.8	15.3	17.6	18.8	17.2	16.5	18.9	17.1	13.9	12.5	8.4	12.4	7.2	21.1	13.6	71.0	15.84	71.00																							
17-Apr	17.4	5.5	10.1	7.0	10.9	7.4	8.2	13.1	7.9	9.1	11.6	10.5	12.0	30.6	39.3	40.5	15.4	21.2	14.5	40.2	15.9	12.2	19.6	7.2	16.14	40.55																							
18-Apr	9.5	8.9	8.1	8.1	9.3	10.7	9.8	9.2	10.0	10.0	11.2	10.5	14.2	23.2	11.5	23.2	16.3	11.6	8.8	7.0	7.7	12.4	4.8	8.4	11.02	23.21																							
19-Apr	19.4	32.2	4.7	9.7	32.4	20.3	20.3	63.9	35.5	39.0	82.6	56.9	36.7	41.8	77.5	91.5	50.0	50.3	51.6	27.2	22.4	18.2	25.7	5.4	38.14	91.47																							
20-Apr	13.4	31.9	48.5	16.4	8.9	3.1	6.0	14.1	13.1	12.0	19.6	15.4	13.2	17.1	20.1	18.3	14.4	8.8	9.3	6.9	5.3	18.0	19.4	18.9	15.51	48.52																							
21-Apr	18.3	9.2	10.9	27.5	7.3	6.4	10.4	10.8	14.7	22.5	18.2	29.9	40.7	67.5	76.2	65.9	46.1	20.7	15.5	11.7	12.2	12.1	14.6	10.7	24.18	76.24																							
22-Apr	11.4	11.7	10.8	8.9	9.9	7.1	9.7	13.3	9.3	11.2	12.6	11.4	13.0	13.8	13.2	12.5	12.5	63.5	14.9	8.7	8.6	9.2	11.3	9.6	13.25	63.47																							
23-Apr	8.7	12.7	9.6	11.0	13.3	9.5	7.0	8.8	16.3	12.4	13.0	13.5	17.1	12.9	12.3	10.1	11.8	18.2	13.8	14.9	7.4	10.3	12.9	11.9	12.06	18.24																							
24-Apr	12.5	10.1	27.6	56.1	13.6	9.0	19.1	11.2	13.4	13.8	16.4	16.6	19.3	16.4	14.2	15.7	12.5	11.9	11.6	12.3	12.4	21.2	17.1	36.6	17.52	56.15																							
25-Apr	27.2	11.9	17.1	13.6	12.8	11.2	17.2	10.8	16.9	11.7	15.4	16.7	17.5	68.7	78.4	33.8	87.6	21.8	36.4	9.3	6.0	10.7	14.1	7.9	23.94	87.63																							
26-Apr	5.5	9.4	5.6	7.2	4.1	17.7	50.9	14.8	15.2	19.9	16.8	13.9	18.9	16.8	16.7	17.5	14.1	15.3	12.8	9.7	9.7	11.5	15.4	10.5	14.58	50.90																							
27-Apr	7.9	15.0	21.7	7.7	8.1	8.1	3.6	6.1	9.5	14.2	15.6	42.5	33.4	29.1	24.7	23.4	21.6	21.2	57.4	11.1	6.1	16.2	27.9	20.9	18.87	57.36																							
28-Apr	6.7	8.9	12.5	5.6	15.9	14.5	10.8	14.2	11.0	9.9	12.8	16.5	11.5	10.0	11.0	9.6	12.7	8.1	6.5	12.3	30.4	30.0	8.5	8.2	12.41	30.37																							
29-Apr	10.9	8.8	7.6	16.8	13.7	10.4	7.9	8.2	7.6	8.7	15.7	23.2	14.4	15.2	10.5	17.5	15.1	14.4	11.2	7.5	6.6	6.1	6.6	6.6	11.30	23.24																							
30-Apr	7.5	7.9	5.3	4.6	7.2	5.3	7.4	36.9	31.5	43.4	38.9	27.0	20.1	13.6	43.4	24.9	51.1	81.9	15.1	23.1	7.9	45.2	22.3	45.4	25.71	81.87																							
																								12.00	12.16	11.56	11.17	10.81	9.64	11.52	13.95	16.66	17.00	21.98	23.05	22.17	24.68	27.88	24.96	23.34	22.78	20.61	14.80	15.27	17.97	13.99	17.32	Diurnal Average	
																								28.62	32.24	48.52	56.15	32.42	20.31	50.90	63.93	66.27	43.39	82.57	76.74	73.85	68.67	78.40	91.47	87.63	81.87	68.19	40.19	89.56	67.40	30.72	78.44	Diurnal Maximum	

PF - Power Failure

,Alberta Ambient Air Quality Objectives (AAAQO): 1-hr --- ul/m³ 24-hr 100 ul/m³

WEST CENTRAL AIRSHED SOCIETY

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

**END OF REPORT
APRIL 2015**