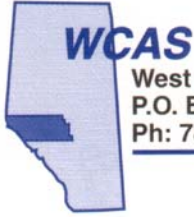


**TransAlta Utilities Corporation
Continuous Ambient Air Quality
Monitoring Program
Annual Summary for 2009**

Prepared by:

**West Central Airshed Society
Drayton Valley, Alberta**



West Central Airshed Society
P.O. Box 7421, Drayton Valley, Alberta T7A 1S6
Ph: 780-514-3533 • Fax: 780-514-3563 • www.wcas.ca

February 22nd, 2010

Attention: Mr. Bryan Wilson
GBS Building
RR#1, Site 4, Box #2
Duffield Alberta
T0E 0N0

Dear Sir:

**Re: Annual Ambient Air Quality Monitoring Report January – December 2009.
For TransAlta Utilities Corporation**

The West Central Airshed Society (WCAS) presents the 2009 Annual Report containing ambient air quality and meteorological information from the following sites:

Network Stations are	AMS 907	Power
Identified as:	AMS 908	Meadows
	AMS 909	Wagner

The Network Stations 907, 908, 909 were commissioned April 23, April 26, and April 20 of 2004, respectively. WCAS data collection and validation began July 1, 2004. The following is a list of the reported ambient air and meteorological parameters measured at each site location:

AMS 907 (Power)

SO₂, NO/ NO₂/ NO_x, Particulate Matter (2.5 microns), Wind Speed and Direction, Relative Humidity, and External Temperature.

AMS 908 (Meadows)

SO₂, NO/ NO₂/ NO_x, Wind Speed and Direction, Relative Humidity, and External Temperature.

AMS 909 (Wagner)

SO₂, NO/ NO₂/ NO_x, Wind Speed and Direction, Relative Humidity, and External Temperature.

If additional information is required please contact Patrick Andersen at (780) 514-3533.

Sincerely,

Patrick Andersen
Environmental Specialist

Greg Swain
Senior Technologist

A handwritten signature in black ink, appearing to read "J. McClintock". The signature is fluid and cursive, with the first letter of each word being capitalized and prominent.

Jeff McClintock
Intermediate Technologist

**TransAlta Utilities Corporation
Frequency Distribution Charts
Wind Speed and Direction
Year 2009**

West Central Airshed Society - Power (AMS 907)
 Annual Summary for 2009
 Percentage Frequency Distribution of Wind

Speed (kph)							
Direction	>1 to 5	>5 to 11	>11 to 19	>19 to 28	>28 to 38	>38	Totals
North	1.79	3.70	3.18	1.51	0.24	-	10.42
NorthEast	2.16	3.93	1.59	0.10	-	-	7.78
East	1.60	2.09	0.58	0.05	-	-	4.32
SouthEast	1.77	4.31	3.87	1.62	0.13	0.06	11.76
South	2.08	6.91	5.92	0.77	0.07	-	15.74
SouthWest	2.62	5.57	5.03	0.37	0.02	-	13.60
West	3.36	7.32	5.96	0.88	0.10	-	17.63
NorthWest	2.20	5.11	6.08	3.74	1.34	0.05	18.50
Totals	17.58	38.94	32.20	9.02	1.90	0.10	99.75

Percent Calm	0.25
Number of Data Values	8754
Hours in Time Period	8760

West Central Airshed Society - Meadows (AMS 908)
 Annual Summary for 2009
 Percentage Frequency Distribution of Wind

Speed (kph)							
Direction	>1 to 5	>5 to 11	>11 to 19	>19 to 28	>28 to 38	>38	Totals
North	1.88	3.52	1.84	0.37	0.02	-	7.64
NorthEast	2.27	3.64	1.96	0.17	-	-	8.05
East	4.27	4.21	2.74	0.27	-	-	11.48
SouthEast	3.71	4.50	3.70	1.52	0.28	0.08	13.78
South	1.77	1.76	1.18	0.13	-	-	4.85
SouthWest	3.33	2.53	1.74	0.61	0.03	0.02	8.27
West	7.15	13.55	5.04	1.31	0.20	0.03	27.28
NorthWest	2.23	4.46	6.20	3.79	0.68	0.07	17.43
Totals	26.60	38.17	24.40	8.17	1.22	0.21	98.77

Percent Calm	1.23
Number of Data Values	8627
Hours in Time Period	8760

West Central Airshed Society - Wagner (AMS 909)
 Annual Summary for 2009
 Percentage Frequency Distribution of Wind

Speed (kph)							
Direction	>1 to 5	>5 to 11	>11 to 19	>19 to 28	>28 to 38	>38	Totals
North	3.83	3.15	2.48	0.45	0.45	0.23	10.59
NorthEast	6.31	7.88	1.58	-	-	-	15.77
East	3.60	7.88	2.93	0.45	-	-	14.87
SouthEast	1.13	1.35	-	-	-	-	2.47
South	2.48	0.45	-	-	-	-	2.93
SouthWest	7.21	4.05	0.68	-	-	-	11.94
West	2.93	3.83	14.41	8.11	-	-	29.28
NorthWest	1.58	1.80	3.83	2.70	1.13	0.45	11.49
Totals	29.05	30.41	25.90	11.71	1.58	0.68	99.32

Percent Calm	0.68
Number of Data Values	444
Hours in Time Period	8760

West Central Airshed Society - Wagner2 (AMS 959)
 Annual Summary for 2009
 Percentage Frequency Distribution of Wind

Speed (kph)							
Direction	>1 to 5	>5 to 11	>11 to 19	>19 to 28	>28 to 38	>38	Totals
North	9.34	1.20	-	-	-	-	10.54
NorthEast	3.65	0.65	-	-	-	-	4.30
East	5.97	2.92	1.11	0.25	-	-	10.24
SouthEast	7.38	2.92	1.61	0.38	-	-	12.29
South	3.28	1.35	0.22	0.00	-	-	4.86
SouthWest	1.78	0.20	0.02	0.00	-	-	2.00
West	4.71	2.16	0.34	0.01	-	-	7.21
NorthWest	17.85	8.41	3.76	0.19	-	-	30.20
Totals	53.95	19.81	7.07	0.83	-	-	81.66

Percent Calm	18.34
Number of Data Values	8052
Hours in Time Period	8760

**TransAlta Utilities Corporation
Frequency Distribution Charts
SO₂ Monthly Averages
Year 2009**

West Central Airshed Society - Power (AMS 907)
 Annual Summary for 2009
 SO2 (ppb)

Month	Number of Data	Operational Time (%)	Mean	Maximum 1-Hour Value	Number 1-Hour Violations	Maximum 24-Hour Value	Number 24-Hour Violations	Percent of Data in each Concentration Range					
								<=0.02	>0.02-0.06	>0.06-0.11	>0.11-0.17	>0.17-0.34	>0.34
January	703	99.5	0.8	83.504	0	4.851	0	99.7	0.1	0.14	--	--	--
February	638	100.0	0.5	32.631	0	3.647	0	99.8	0.2	--	--	--	--
March	709	100.0	0.7	17.452	0	2.620	0	100.0	--	--	--	--	--
April	685	100.0	0.3	15.541	0	1.704	0	100.0	--	--	--	--	--
May	709	100.0	0.4	9.329	0	2.065	0	100.0	--	--	--	--	--
June	685	99.9	0.4	13.718	0	2.446	0	100.0	--	--	--	--	--
July	704	99.5	0.5	27.616	0	2.594	0	99.9	0.1	--	--	--	--
August	706	99.7	0.6	21.929	0	2.594	0	99.9	0.1	--	--	--	--
September	682	99.6	0.7	30.688	0	4.357	0	99.4	0.6	--	--	--	--
October	709	100.0	0.3	18.019	0	1.875	0	100.0	--	--	--	--	--
November	686	100.0	0.4	27.755	0	2.767	0	99.7	0.3	--	--	--	--
December	709	100.0	0.4	11.482	0	2.060	0	100.0	--	--	--	--	--
Annual	8325	99.8	0.5	83.504	0	4.851	0	99.9	0.1	0.01	--	--	--

West Central Airshed Society - Meadows (AMS 908)
 Annual Summary for 2009
 SO2 (ppb)

Month	Number of Data	Operational Time (%)	Mean	Maximum 1-Hour Value	Number 1-Hour Violations	Maximum 24-Hour Value	Number 24-Hour Violations	Percent of Data in each Concentration Range					
								<=0.02	>0.02-0.06	>0.06-0.11	>0.11-0.17	>0.17-0.34	>0.34
January	701	99.5	1.1	7.270	0	3.999	0	100.0	-	-	-	-	-
February	633	99.0	1.7	27.605	0	6.958	0	99.5	0.5	-	-	-	-
March	697	98.7	0.7	23.633	0	4.284	0	99.7	0.3	-	-	-	-
April	640	93.2	0.9	24.588	0	4.116	0	99.7	0.3	-	-	-	-
May	709	100.0	0.8	33.343	0	6.106	0	99.6	0.4	-	-	-	-
June	686	100.0	0.8	28.036	0	4.772	0	99.9	0.2	-	-	-	-
July	680	96.5	0.6	28.477	0	2.864	0	99.7	0.3	-	-	-	-
August	706	99.6	0.9	42.508	0	7.609	0	99.6	0.4	-	-	-	-
September	673	98.2	0.7	21.029	0	3.917	0	99.7	0.3	-	-	-	-
October	704	99.5	0.7	31.567	0	8.107	0	99.6	0.4	-	-	-	-
November	679	99.0	0.2	8.937	0	1.107	0	100.0	-	-	-	-	-
December	697	98.5	0.6	6.371	0	1.770	0	100.0	-	-	-	-	-
Annual	8205	98.5	0.8	42.508	0	8.107	0	99.7	0.3	-	-	-	-

West Central Airshed Society - Wagner (AMS 909)
 Annual Summary for 2009
 SO2 (ppb)

Month	Number of Data	Operational Time (%)	Mean	Maximum 1-Hour Value	Number 1-Hour Violation	Maximum 24-Hour Value	Number 24-Hour Violation	Percent of Data in each Concentration Range					
								<=0.02	>0.02-0.06	>0.06-0.11	>0.11-0.17	>0.17-0.34	>0.34
January	425	100.0	0.64	12.872	0	1.825	0	100.0	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-
Annual	425	100.0	0.64	12.872	0	1.825	0	100.0	-	-	-	-	-

West Central Airshed Society - Wagner2 (AMS 959)
 Annual Summary for 2009
 SO2 (ppb)

Month	Number of Data	Operational Time (%)	Mean	Maximum 1-Hour Value	Number 1-Hour Violation	Maximum 24-Hour Value	Number 24-Hour Violation	Percent of Data in each Concentration Range					
								<=0.02	>0.02-0.06	>0.06-0.11	>0.11-0.17	>0.17-0.34	>0.34
January	218	100.0	0.79	20.242	0	2.725	0	99.5	0.46	-	-	-	-
February	631	98.8	0.34	17.820	0	1.647	0	100.0	0.0	-	-	-	-
March	694	98.0	0.40	32.209	0	3.576	0	99.7	0.3	-	-	-	-
April	686	100.0	0.91	33.026	0	4.597	0	99.0	1.0	-	-	-	-
May	550	77.7	1.44	25.958	0	4.667	0	99.6	0.4	-	-	-	-
June	684	100.0	0.94	43.422	0	4.176	0	99.7	0.3	-	-	-	-
July	698	99.7	1.54	52.987	0	6.329	0	98.9	1.2	-	-	-	-
August	702	99.2	0.82	30.775	0	3.690	0	99.4	0.6	-	-	-	-
September	686	100.0	0.42	28.182	0	3.031	0	99.9	0.2	-	-	-	-
October	709	100.0	0.15	12.652	0	0.975	0	100.0	0.0	-	-	-	-
November	686	100.0	0.11	14.109	0	1.123	0	100.0	-	-	-	-	-
December	709	100.0	0.08	12.418	0	1.140	0	100.0	-	-	-	-	-
Annual	7653	97.6	0.64	52.987	0	6.329	0	99.7	0.4	-	-	-	-

**TransAlta Utilities Corporation
Frequency Distribution Charts
NO₂ Monthly Averages
Year 2009**

West Central Airshed Society - Power (AMS 907)
 Annual Summary for 2009
 NO2 (ppb)

Month	Number of Data	Operational Time (%)	Mean	Maximum 1-Hour Value	Number 1-Hour Violations	Maximum 24-Hour Value	Number 24-Hour Violations	Percent of Data in each Concentration Range			
								<=0.05	>0.05-0.11	>0.11-0.21	>0.21
January	707	100.0	5.124	27.077	0	14.996	0	100.00	-	-	-
February	638	100.0	4.200	24.466	0	8.118	0	100.00	-	-	-
March	709	100.0	3.559	19.031	0	9.561	0	100.00	-	-	-
April	685	100.0	2.857	14.343	0	5.119	0	100.00	-	-	-
May	708	100.0	0.807	17.480	0	3.039	0	100.00	-	-	-
June	683	99.9	1.643	60.693	0	5.652	0	99.85	0.15	-	-
July	704	99.5	1.598	14.893	0	3.714	0	100.00	-	-	-
August	705	99.7	2.650	22.864	0	7.747	0	100.00	-	-	-
September	681	99.6	3.643	94.177	0	12.703	0	99.85	0.15	-	-
October	708	100.0	2.854	21.200	0	8.328	0	100.00	-	-	-
November	686	100.0	4.809	22.620	0	9.236	0	100.00	-	-	-
December	707	100.0	8.214	32.001	0	23.018	0	100.00	-	-	-
Annual	8321	99.9	3.494	94.177	0	23.018	0	99.98	0.02	-	-

West Central Airshed Society - Meadows (AMS 908)
 Annual Summary for 2009
 NO2 (ppb)

Month	Number of Data	Operational Time (%)	Mean	Maximum 1-Hour Value	Number 1-Hour Violations	Maximum 24-Hour Value	Number 24-Hour Violations	Percent of Data in each Concentration Range			
								<=0.05	>0.05-0.11	>0.11-0.21	>0.21
January	704	99.5	11.791	43.879	0	26.016	0	100.0	-	-	-
February	632	99.0	12.624	49.473	0	22.727	0	100.0	-	-	-
March	697	98.7	8.518	37.746	0	20.790	0	100.0	-	-	-
April	640	93.2	5.193	36.932	0	11.153	0	100.0	-	-	-
May	708	100.0	5.568	41.922	0	12.763	0	100.0	-	-	-
June	684	100.0	5.604	34.664	0	9.419	0	100.0	-	-	-
July	679	96.5	4.663	31.379	0	9.145	0	100.0	-	-	-
August	705	99.6	6.067	35.653	0	13.746	0	100.0	-	-	-
September	671	98.2	6.926	32.480	0	10.797	0	100.0	-	-	-
October	704	99.5	6.412	27.783	0	16.652	0	100.0	-	-	-
November	678	99.0	10.004	32.076	0	19.236	0	100.0	-	-	-
December	695	98.3	13.799	35.668	0	22.370	0	100.0	-	-	-
Annual	8197	98.5	8.087	49.473	0	26.016	0	100.0	-	-	-

West Central Airshed Society - Wagner (AMS 909)
 Annual Summary for 2009
 NO2 (ppb)

Month	Number of Data	Operational Time (%)	Mean	Maximum 1-Hour Value	Number 1-Hour Violations	Maximum 24-Hour Value	Number 24-Hour Violations	Percent of Data in each Concentration Range			
								<=0.05	>0.05-0.11	>0.11-0.21	>0.21
January	425	100.0	8.058	30.113	0	20.900	0	100.0	-	-	-
February	0	0.0	-	-	-	-	-	-	-	-	-
March	0	0.0	-	-	-	-	-	-	-	-	-
April	0	0.0	-	-	-	-	-	-	-	-	-
May	0	0.0	-	-	-	-	-	-	-	-	-
June	0	0.0	-	-	-	-	-	-	-	-	-
July	0	0.0	-	-	-	-	-	-	-	-	-
August	0	0.0	-	-	-	-	-	-	-	-	-
September	0	0.0	-	-	-	-	-	-	-	-	-
October	0	0.0	-	-	-	-	-	-	-	-	-
November	0	0.0	-	-	-	-	-	-	-	-	-
December	0	0.0	-	-	-	-	-	-	-	-	-
Annual	425	100.0	8.058	30.113	0	20.900	0	100.0	-	-	-

West Central Airshed Society - Wagner2 (AMS 959)
 Annual Summary for 2009
 NO2 (ppb)

Month	Number of Data	Operational Time (%)	Mean	Maximum 1-Hour Value	Number 1-Hour Violations	Maximum 24-Hour Value	Number 24-Hour Violations	Percent of Data in each Concentration Range			
								<=0.05	>0.05-0.11	>0.11-0.21	>0.21
January	218	100.0	6.126	23.616	0	10.654	0	100.0	-	-	-
February	631	98.8	8.427	29.711	0	15.858	0	100.0	-	-	-
March	693	98.0	5.145	24.240	0	16.102	0	100.0	-	-	-
April	686	100.0	4.208	33.435	0	23.245	0	100.0	-	-	-
May	549	77.7	6.999	40.932	0	24.229	0	100.0	-	-	-
June	682	100.0	5.442	25.612	0	8.892	0	100.0	-	-	-
July	698	99.7	3.887	25.405	0	8.069	0	100.0	-	-	-
August	701	99.1	4.001	35.216	0	10.355	0	100.0	-	-	-
September	684	100.0	4.006	31.746	0	7.767	0	100.0	-	-	-
October	709	100.0	4.669	20.756	0	8.581	0	100.0	-	-	-
November	684	100.0	5.487	23.883	0	9.530	0	100.0	-	-	-
December	707	100.0	6.778	33.566	0	18.610	0	100.0	-	-	-
Annual	7642	97.6	5.335	40.932	0	24.229	0	100.0	-	-	-

**TransAlta Utilities Corporation
Frequency Distribution Charts
PM Monthly Averages
Year 2009**

West Central Airshed Society - Power (AMS 907)
 Annual Summary for 2009
 PM2.5 ($\mu\text{g}/\text{m}^3$)

Month	Number of Data	Operational Time (%)	Mean	Maximum 1-Hour Value	Number 1-Hour Violations	Maximum 24-Hour Value	Number 24-Hour Violations
January	718	96.5	2.2	46.3	0	7.6	0
February	668	100.0	3.2	13.1	0	6.9	0
March	741	99.6	3.5	18.4	0	8.5	0
April	719	99.9	3.5	16.0	0	10.0	0
May	739	99.9	3.5	28.6	0	7.4	0
June	714	99.2	5.3	67.9	0	12.0	0
July	736	98.9	5.1	48.8	0	15.9	0
August	731	98.8	6.1	26.7	0	12.7	0
September	706	98.1	5.4	35.9	0	13.8	0
October	744	100.0	2.5	47.7	0	10.3	0
November	716	100.0	1.8	9.7	0	3.2	0
December	740	99.5	3.0	17.6	0	9.9	0
Annual	8672	99.2	3.8	67.9	0	15.9	0

**TransAlta Utilities Corporation
Frequency Distribution Charts
Meteorological Measurements
Year 2009**

Summary Report

Continuous air quality/meteorological monitoring measurements

West Central Airshed Society

**TransAlta / Power
Station 907**

January to December 2009

Parameter	Calibration Hours	Number of Data	Percent Uptime	Mean	Total	Min	Max	Percentile				
								P10	Q1	Median	Q3	P90
SO ₂ (ppb)	421	8325	99.9	0.5	-	0.0	83.5	0.0	0.0	0.0	0.2	1.1
NO (ppb)	429	8321	99.9	0.3	-	0.0	31.1	0.0	0.0	0.0	0.0	0.7
NO ₂ (ppb)	429	8321	99.9	3.5	-	0.0	94.2	0.4	1.2	2.6	4.8	7.5
NO _x (ppb)	429	8321	99.9	3.2	-	0.0	93.2	0.1	0.4	1.9	4.4	7.7
Particulate Matter 2.5 microns (μ/m ³)	16	8672	99.2	3.8	-	0.0	67.9	0.2	1.3	2.9	5.3	8.1
Wind Speed (kph)	0	8754	99.9	11.4	-	0.0	43.8	4.3	6.9	10.5	14.9	19.9
Temperature (°C)	0	8754	99.9	3.3	-	-34.9	33.6	-5.6	-1.4	3.4	8.0	12.0
Relative Humidity (%)	0	8754	99.9	64.1	-	11.9	98.8	38.4	49.3	65.4	79.1	88.2
Precipitation (mm)	0	8754	99.9	-	14.1	0.0	0.9	0.0	0.0	0.0	0.0	0.0
Std Dev Wind Direction (deg)	0	8754	99.9	18.9	-	3.2	107.8	8.2	10.5	14.4	21.5	35.6
Std Dev Wind Speed (kph)	0	8757	99.9	2.8	-	0.0	17.3	1.2	1.7	2.5	3.6	4.7

Summary Report

Continuous air quality/meteorological monitoring measurements

West Central Airshed Society

**TransAlta / Meadows
Station 908**

January to December 2009

Parameter	Calibration	Number of	Percent	Mean	Total	Min	Max	-----Percentile-----				
	Hours	Data	Uptime					P10	Q1	Median	Q3	P90
SO2 (ppb)	421	8205	98.5	0.8	-	0.0	42.5	0.0	0.0	0.1	0.5	1.9
NO (ppb)	427	8197	98.5	4.7	-	0.0	167.2	0.0	0.0	0.1	3.3	14.4
NO ₂ (ppb)	427	8197	98.5	8.1	-	0.0	49.5	0.4	1.9	5.7	12.6	19.7
NO _x (ppb)	427	8197	98.5	12.1	-	0.0	217.6	0.3	1.5	5.3	15.2	32.9
Wind Speed (kph)	0	8627	98.5	10.0	-	0.0	48.8	2.8	5.2	8.8	13.4	19.1
Temperature (°C)	0	8627	98.5	2.9	-	-38.0	31.2	-6.0	-1.8	3.0	7.6	11.5
Relative Humidity (%)	0	8627	98.5	66.8	-	11.8	97.9	41.9	53.5	68.3	81.3	88.8
Precipitation (mm)	0	8627	98.5	-	17.5	0.0	4.8	0.0	0.0	0.0	0.0	0.0
Std Dev Wind Direction (deg)	0	8627	98.5	23.8	-	2.4	107.9	7.5	10.6	16.3	29.4	54.8
Std Dev Wind Speed (kph)	0	8627	98.5	2.7	-	0.0	19.5	1.2	1.7	2.4	3.3	4.6

Summary Report

Continuous air quality/meteorological monitoring measurements

West Central Airshed Society

TransAlta / Wagner Station 909												January 2009
Parameter	Calibration Hours	Number of Data	Percent Uptime	Mean	Min	Max	----- P10	----- Q1	Percentile Median	----- Q3	----- P90	24 Hour Average Max (ppm)
SO ₂ (ppb)	19	425	100.0	0.6	0.0	12.9	0.0	0.0	0.2	0.9	1.5	0.002
NO (ppb)	19	425	100.0	3.0	0.0	60.2	0.0	0.0	0.0	2.6	8.6	-
NO ₂ (ppb)	19	425	100.0	8.1	0.7	30.1	2.2	3.5	6.1	10.9	16.9	0.021
NO _x (ppb)	19	425	100.0	11.1	0.7	85.4	2.4	3.8	7.0	13.7	23.3	-
Wind Speed (kph)	0	444	100.0	10.9	0.3	45.7	2.2	4.7	9.5	16.1	20.0	-
Temperature (°C)	0	444	100.0	-10.9	-37.2	12.0	-27.3	-19.0	-12.0	0.1	5.1	-
Relative Humidity (%)	0	444	100.0	68.3	23.6	92.3	40.3	61.3	72.5	79.2	85.2	-
Std Dev Wind Direction (deg)	0	444	100.0	23.0	3.1	98.9	6.5	8.9	13.9	28.5	52.1	-
Std Dev Wind Speed (kph)	0	444	100.0	2.7	0.3	12.0	1.2	1.6	2.2	3.2	5.1	-

Summary Report

Continuous air quality/meteorological monitoring measurements

West Central Airshed Society

**TransAlta / Wagner2
Station 959**

January to December 2009

Parameter	Calibration Hours	Number of Data	Percent Uptime	Mean	Min	Max	----- P10	----- Q1	Percentile Median	----- Q3	----- P90
SO ₂ (ppb)	397	7653	97.8	0.7	0.0	53.0	0.0	0.0	0.0	0.2	1.6
NO (ppb)	407	7642	97.8	1.1	0.0	83.3	0.0	0.0	0.1	0.6	3.2
NO ₂ (ppb)	407	7642	97.8	5.4	0.0	40.9	1.2	2.3	4.0	6.8	12.0
NO _x (ppb)	407	7642	97.8	6.2	0.0	107.0	0.7	1.9	4.1	7.9	14.7
Wind Speed (kph)	0	8052	97.8	4.1	0.0	27.1	0.4	0.8	2.4	6.2	10.5
Temperature (°C)	0	8052	97.8	2.8	-39.9	36.0	-7.0	-2.5	3.1	8.2	12.2
Relative Humidity (%)	0	8052	97.8	65.9	12.9	96.4	38.0	51.1	68.4	82.3	88.8
Std Dev Wind Direction (deg)	0	8052	97.8	47.8	0.6	113.2	18.7	25.8	42.5	68.8	85.5
Std Dev Wind Speed (kph)	0	8052	97.8	2.2	0.1	12.0	0.7	1.0	1.8	3.1	4.5