Lakeland Industry & Community Association
Cold Lake Monitoring Site
Ambient Air Monitoring
Data Report
For
February 2007

Prepared By:

MAXXAM ANALYTICS INC.

March 22, 2007

Lakeland Industry & Community Association
Box8237
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Bonnyville, Alberta
T9N 2J5

ATTENTION: Mr. Mike Bisaga

REFERENCE: Ambient Air Monitoring Report For February 2007

Maxxam Analytics Inc. is pleased to submit this report of data collected at the Ambient Air Monitoring Station located at the Lakeland Industry & Community Assoc. Cold Lake site for the month of February2007.

Included is a summary of the monthly continuous and hourly average reports, equipment calibration reports, as well as a brief description of the calibration procedure. The passive network data are also included in this report.

During the month of February 2007 the following proceedings were noted:

Cold Lake Site

- The analyzers and wind systems were all above 90% uptime.
- All data was within Provincial objectives for the month.
- All data was corrected using daily zero calibration data. Furthermore the PM 2.5 data was corrected using Alberta Environment correction standards.
- The NO_x analyzer converter efficiency continued to be below manufacturers specifications, a new converter supplied by Alberta Environment was installed resulting in satisfactory converter efficiency.
- One hour of data after a power failure on February 27th was invalidated for NO_x, NO and NO_2 due to unstable drift from the analyzer.
- There were power failures on February 27th, one power failure was for one-hour and a second for two-hours.
- The THC has maintained a continuous positive drifting trend. No initial reason for the drift has been determined. A Maxxam supplied zero air supply was installed to replace the previous contractors setup as well a new 7 micron sintered filter installed. The drifting has been constant and further diagnosis has resulted in the Alberta Environment catalytic oxidizer being replaced with a Maxxam owned oxidizer, the drift trend has decreased since but not ceased, continued troubleshooting will continue until the problem can be pinpointed.

The wind system failed on February 27th after a power failure occurred. The wind system was initially diagnosed by the manufacturer and technician, with significant internal problems. Alberta Environment supplied a replacement system and it was later determined that the power supply for the system was insufficient and a second power supply and UPS was necessary, both were purchased and installed.

- The data set for Standard Deviation for Wind Direction was invalidated for the month as the original configuration was found to be incorrect. A standardized configuration will be decided and set up for March 2007 data.

Passive Network

A summary of the passive monitoring are reported as follows:

- Monitoring period averages for O_3 ranged from 26.9 – 39.0 ppb.
- Monitoring period averages for SO_2 ranged from 0.3 – 1.8 ppb.
- Monitoring period averages for NO_2 ranged from 0.4 – 9.6 ppb.
- Monitoring period averages for H_2S ranged from 0.06 – 0.13 ppb.
- Site #10 was in accessible at the time of change out.

Please feel free to contact either of Craig Snider at (403) 219-3689 or Darren Morissette (403)-219-3661, should you have any questions concerning this report.

Sincerely,
Maxxam Analytics Inc.

Prepared by:	Reviewed by:
Darren Morissette, CEPIT Senior Technologist	Craig Snider, CET Ambient Manager

Lakeland Industry & Community Assoc.
COLD LAKE
AMBIENT AIR MONITORING STATION

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CALIBRATION PROCEDURE

The following calibration procedure applies to all calibrations conducted at the Lakeland Industry & Community Association Air Monitoring Station.

Calibration gas concentrations are generated using a dynamic mass flow controlled calibrator. EPA Protocol one gases are diluted with zero air generated on site. The Mass Flow Controllers in the calibrator are referenced using an NIST traceable flow meter once per month. All listed flows are reported as corrected to Standard Temperature and Pressure (STP).

Generated zero gas is introduced to the analyzer first. Three concentrations of calibration gas are then generated in order to introduce points at approximately 50-80%, 25-40% & 10-20% of the analyzer's full-scale range. An auto zero and span are then performed to validate the daily zero and span values recorded to the next multi-point calibration.

All indicated concentrations are taken from the ESC data logger used to collect the data for monthly reporting.

Conformance of each calibration to Alberta Environment regulations is outlined in the individual calibration reports. The slope and correlation coefficient are derived from the calculated and indicated analyzer responses. The percent change is calculated using the previous calibration correction factor and the current correction factor before adjustment. The calibration conforms to the procedure outlined in the *Air Monitoring Directive, Appendix A-10, Section 1.6.*

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION
MONTHLY CONTINUOUS DATA SUMMARY
COLD LAKE

Continuous Ambient Monitoring – February 2007

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION COLD LAKE SITE						MAXIMUM VALUES					OPERATIONAL TIME (PERCENT)
						1-HOUR			24-HOUR		
PARAMETER	OBJECTIVES		EXCEEDENCES		MONTHLY AVERAGE	READING	DAY	HOUR	READING	DAY	
	1-HR	24-HR	1-HR	24-HR							
SO_2 (PPB)	172	57	0	0	0.41	8	21	12	2.2	21	99.6
TRS (PPB)	-	-	-	-	0.09	1	VARIOUS	VARIOUS	0.7	26	99.6
NO_2 (PPB)	212	106	0	0	10.46	39	15	19	23.5	7	99.4
NO (PPB)	-	-	-	-	3.17	68	15	19	16.6	7	99.4
NOx (PPB)	-	-	-	-	14.02	108	15	19	40.7	7	99.4
O_3 (PPB)	82	-	0	-	27.54	50	25	16	44.5	25	99.6
THC (PPM)	-	-	-	-	1.99	5.6	12	10	3.0	7	99.6
PM 2.5 (UG/M^3)	-	30	-	0	3.35	22	13	12	6.6	13	99.6
TEMPERATURE (DEG C)	-	-	-	-	-17.77	2.0	15	16	-8.3	15	99.6
RELATIVE HUMIDITY (%)	-	-	-	-	71.04	91	15,16,24	23,01,02	83	23	99.6
VECTOR WS (KPH)	-	-	-	-	4.62	17.7	18	19	10.4	1	95.2
VECTOR WD (DEGREES)	-	-	-	-	SSE	-	-	-	-	-	95.2

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION
Passive Ambient Monitoring Network – February 2007

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION PASSIVE NETWORK			
NETWORK MAXIMUM (PPB)			NETWORK AVERAGE (PPB)
PARAMETER	STATION	READING	READING
NO_2	25	9.6	2.4
SO_2	13	1.8	0.9
H_2S	9,23	0.13	0.10
O_3	4	39	34.6

GENERAL MONTHLY SUMMARY – COLD LAKE

Equipment Operation

The following summary outlines the analyzer performance. Any non-conformances, problems or maintenance performed are detailed at the end of each section.

AQM STATION – LICA – COLD LAKE

SO2

- Analyzer make / model TECO 43A

The analyzer was working well throughout the month. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information. On February 27th there was a three-hour power failure consequently the data was invalidated.

TRS

- Analyzer make / model TECO 43A
  CD NOVA CDN 101 H_2S Converter

The analyzer was working well throughout the month. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information. On February 27th there was a three-hour power failure consequently the data was invalidated.

THC

- Analyzer make / model TECO 51C-LT

An investigation of positive drift in the analyzer was undertaken on February 7th, the result was of this investigation revealed no conclusive reasons for the drift. The analyzer flows were optimized and a multipoint calibration completed. On February 12th the zero air supply owned by the previous contractor was removed and a Maxxam owned API 701 zero air supply installed, also a 7 micron sintered filter was installed on the burner air inlet. The regular monthly calibration was completed as well a new cylinder of span gas was installed. Continued troubleshooting of positive drift from the analyzer resulted in the Alberta Environment catalytic oxidizer being removed and replaced with a Maxxam owned catalytic oxidizer. The analyzer was allowed to stabilize and re-calibrated. Analysis of the data since the change out of the catalytic oxidizer shows that the positive drift has decreased but not fully stopped. Continued investigation of this problem will continue until the reason for the drift can be pinpointed. Changed out the Hydrogen cylinder on February 27th. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information On February 27th there was a three-hour power failure consequently the data was invalidated.

NOx

- Analyzer make / model TECO 42

The analyzer converter efficiency was again below the manufacturers guidelines during the February 12th monthly calibration, the troubleshooting by the technician proved that the reason is because of a failing converter. Alberta Environment was contacted in regards to a replacement converter; the converter was received and installed on February 23rd. During the monthly calibration the internal span system was changed to a permeation method from bottled gas. The expected daily spans were unsteady for about 6 days after the change. The permeation oven required time to stabilize the oven temperature. On February 18th the spans became stable. The analyzer was working properly during this period and the March 'As Found' points were within 2 percent. The bottled gas was returned to Alberta Environment. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information. On February 27th there was a three-hour power failure consequently the data was invalidated. One hour of data on February 27th was invalidated, as the analyzer was unstable due to a power failure.

O_3

- Analyzer make / model TECO 49

No operational issues observed during the month. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information. On February 27th there was a three-hour power failure consequently the data was invalidated.

PM 2.5

- Analyzer make / model TEOM 1400A

During the monthly calibration extra wiring from the analog out was removed, as it was no longer required. Data for the month was corrected using Alberta Environment standards. On February 27th there was a three-hour power failure consequently the data was invalidated.

Wind Speed & Direction

- System make / model MET ONE 50.5

On February 27th after a series of power failures the wind system stopped working, a replacement wind system was picked up at Alberta Environment on March 1st. Further exploration revealed that the wind system was originally installed using a single power supply for the entire meteorological system. On March 2 a separate power supply was purchased and installed for the temperature and relative humidity sensor, afterwards the entire system was working properly. As a result of the power issues at the trailer a new Maxxam owned UPS was installed for the wind system. The wind system is reported as vector wind speed and vector wind direction. On February 27th there was a three-hour power failure consequently the data was invalidate after the power failure the wind system failed resulting in twenty-nine more hours being invalidated. The system was above 95% uptime for the month. The data for Standard Deviation of Wind Direction was invalidated for the month as the original configuration setup was discovered to be incorrect. A comparison of what is used amongst industry and government has shown no standard method is used, the Air Monitoring Directive has no guidelines for this type of data, therefore LICA Stakeholders will decide on a standardized configuration and amendments to the configuration will be made as soon as a decision is made.

Relative Humidity

- System make / model Rotronic Hygroclip-S3

On February 27th there was a three-hour power failure consequently the data was invalidated. A separate power supply was installed on March 2nd.

Temperature

- System make / model Rotronic Hygroclip-S3

On February 27th there was a three-hour power failure consequently the data was invalidated. A separated power supply was installed on March 2nd.

Datalogger

- System make / model ESC 8832

The ESC 8832 is connected to a modem with DSL for continuous connection with the base computer.

Trailer

General comments from technician during monthly calibration:

- Cleaned sample manifold.

Passive Network

- Site #10 was inaccessible as the snow on the access road was unplowed and impassable.
- Site #3 and #7 were changed out on March 1st as problems at the Cold Lake South trailer required immediate attention.

LICA - COLD LAKE SITE

MONTHLY SUMMARIES, GRAPHS & WIND ROSES

AIR QUALITY INDEX

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

FEBRUARY 2007

AIR QUALITY INDEX (AQI) MONTHLY SUMMARY

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.
DAY																									
1	20	20	19	18	19	18	19	16	17	18	19	19	19	**NA**	19	19	19	19	18	19	19	19	19	19	20
	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	-	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3
2	18	19	19	19	19	19	18	17	18	18	19	19	**NA**	20	19	19	19	12	9	7	6	6	6	5	20
	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	-	O3	O3	O3	O3	O3	NO2	NO2	NO2	NO2	NO2	NO2	O3
3	5	5	5	5	4	5	5	5	4	9	15	**NA**	17	17	17	18	17	16	11	6	7	6	6	6	18
	NO2	O3	NO2	NO2	NO2	NO2	NO2	NO2	NO2	O3	O3	-	O3	O3	O3	O3	O3	O3	O3	NO2	O3	NO2	NO2	NO2	O3
4	6	7	6	7	7	7	6	9	12	15	**NA**	17	17	18	17	17	15	14	17	16	17	17	17	17	18
	NO2	NO2	NO2	NO2	NO2	NO2	NO2	O3	O3	O3	-	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3
5	17	17	17	17	18	18	18	18	17	**NA**	17	17	18	17	17	17	17	16	16	17	16	16	17	17	18
	O3	O3	O3	O3	O3	O3	O3	O3	O3	-	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3
6	17	18	17	17	17	17	13	6	**NA**	17	18	18	18	18	17	16	15	6	8	7	7	7	7	7	18
	O3	O3	O3	O3	O3	O3	O3	NO2	-	O3	O3	O3	O3	O3	O3	O3	O3	O3	NO2	NO2	NO2	NO2	NO2	NO2	O3
7	7	7	7	7	8	7	8	**NA**	7	10	11	14	14	16	16	17	15	13	8	8	7	7	7	7	17
	NO2	NO2	NO2	NO2	NO2	NO2	NO2	-	PM2	PM2	O3	O3	O3	O3	O3	O3	O3	O3	O3	NO2	NO2	NO2	NO2	NO2	O3
8	6	6	5	5	10	13	**NA**	7	6	10	17	18	18	18	17	14	12	8	6	7	7	7	7	7	18
	NO2	NO2	NO2	NO2	O3	O3	-	O3	PM2	O3	O3	O3	O3	O3	O3	O3	O3	O3	NO2	NO2	NO2	NO2	NO2	NO2	O3
9	7	7	7	7	6	**NA**	7	7	6	7	14	17	19	19	18	15	14	9	8	6	7	5	6	6	19
	NO2	NO2	NO2	NO2	NO2	-	NO2	NO2	NO2	O3	O3	O3	O3	O3	O3	O3	O3	O3	NO2	O3	NO2	NO2	NO2	NO2	O3
10	6	6	6	7	**NA**	6	7	6	7	9	12	14	16	17	18	18	16	14	14	12	11	11	8	8	18
	NO2	NO2	NO2	NO2	-	NO2	NO2	NO2	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3
11	5	5	5	**NA**	16	17	17	17	17	18	19	19	20	20	20	19	18	17	17	14	12	9	10	7	20
	O3	O3	O3	-	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3
12	10	9	**NA**	8	8	6	6	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	6	8	7	6	7	6	19
	O3	O3	-	O3	O3	O3	NO2	-	-	-	-	-	-	-	-	-	-	-	NO2	NO2	NO2	NO2	NO2	NO2	O3
13	6	**NA**	6	6	6	6	7	7	8	12	15	18	17	20	20	20	16	7	7	6	5	5	7	7	20
	NO2	-	NO2	NO2	NO2	NO2	NO2	NO2	PM2	PM2	O3	PM2	O3	O3	O3	O3	O3	NO2	NO2	NO2	NO2	NO2	NO2	NO2	O3
14	**NA**	6	11	14	14	18	11	7	7	16	21	23	23	23	23	23	23	23	23	23	23	23	23	**NA**	23
	-	NO2	O3	O3	O3	O3	O3	NO2	PM2	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	-	O3
15	23	22	22	21	19	12	6	8	9	14	17	18	19	20	20	20	15	8	9	7	6	7	**NA**	7	23
	O3	O3	O3	O3	O3	O3	NO2	O3	PM2	O3	O3	O3	O3	O3	O3	O3	O3	NO2	NO2	NO2	NO2	NO2	-	PM2	O3
16	9	16	16	16	16	18	19	19	18	19	19	19	20	**NA**	**NA**	21	20	17	13	7	6	**NA**	7	10	21
	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	-	-	O3	O3	O3	O3	NO2	NO2	-	NO2	O3	O3
17	15	13	19	20	20	21	19	19	19	20	20	21	21	21	21	21	20	20	20	20	**NA**	20	21	21	21
	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	-	O3	O3	O3	O3
18	21	21	21	21	21	20	19	17	16	21	21	21	21	21	21	20	19	21	19	**NA**	16	18	16	17	21
	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	-	O3	O3	O3	O3	O3
19	18	15	14	13	13	12	13	13	13	14	16	17	18	18	19	18	17	17	**NA**	17	18	19	19	19	19
	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	-	O3	O3	O3	O3	O3	O3
20	19	19	19	19	19	19	19	19	19	20	**NA**	19	20	20	19	19	19	**NA**	8	7	7	6	8	10	20
	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	-	O3	O3	O3	O3	O3	O3	-	O3	PM2	PM2	PM2	O3	O3	O3
21	11	17	17	17	17	18	18	18	18	17	18	19	19	19	19	17	**NA**	14	6	5	6	6	5	6	19
	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	-	O3	NO2	O3	NO2	NO2	NO2	NO2	O3
22	6	13	19	19	18	18	17	17	19	19	20	20	20	21	21	**NA**	20	19	19	20	20	20	20	20	21
	NO2	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	-	O3	O3	O3	O3	O3	O3	O3	O3	O3
23	21	21	22	22	21	22	21	20	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	10	11	7	22
	O3	O3	O3	O3	O3	O3	O3	O3	-	-	-	-	-	-	-	-	-	-	-	-	-	O3	O3	O3	O3
24	12	15	14	13	12	12	5	6	9	16	22	23	23	**NA**	23	23	23	20	16	9	6	8	15	22	23
	O3	O3	O3	O3	O3	O3	NO2	PM2	O3	O3	O3	O3	O3	-	O3	O3	O3	O3	O3	O3	NO2	NO2	O3	O3	O3
25	22	23	23	23	22	22	22	21	19	23	23	23	**NA**	**25**	**25**	**25**	24	22	21	21	21	22	22	23	**25**
	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	-	**O3**	**O3**	**O3**	O3	O3	O3	O3	O3	O3	O3	O3	**O3**
26	23	23	23	23	23	23	23	22	21	21	21	**NA**	22	22	22	23	23	18	12	7	7	8	7	6	23
	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	-	O3	O3	O3	O3	O3	O3	O3	NO2	NO2	NO2	NO2	NO2	O3
27	6	10	12	17	19	19	17	17	15	18	**NA**	20	21	22	23	**NA**	**NA**	**NA**	**NA**	10	7	7	7	5	23
	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	-	O3	O3	O3	O3	-	-	-	-	O3	NO2	NO2	PM2	O3	O3
28	7	5	5	6	7	7	6	6	10	**NA**	20	21	22	21	23	23	22	20	19	20	22	22	22	20	23
	PM2	NO2	PM2	NO2	NO2	NO2	NO2	NO2	O3	-	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3
PEAK	23	23	23	23	23	23	23	22	21	23	23	23	23	25	25	25	24	23	23	23	23	23	23	23	
	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	

STATUS FLAG CODES

NA	- NOT APPLICABLE

AQI SUMMARY

AQI CLASS	O3		PM 2.5		NO2		SO2		FREQ	
VERY POOR (101 - 255)	0 0.00%	hrs	0 0.00%	hrs	0 0.00%	hrs	0 0.00%	hrs	0 0.00%	hrs
POOR (51 - 100)	0 0.00%	hrs	0 0.00%	hrs	0 0.00%	hrs	0 0.00%	hrs	0 0.00%	hrs
FAIR (26 - 50)	0 0.00%	hrs	0 0.00%	hrs	0 0.00%	hrs	0 0.00%	hrs	0 0.00%	hrs
GOOD (1 - 25)	469 69.79%	hrs	16 2.38%	hrs	128 19.05%	hrs	0 0.00%	hrs	613 91.22%	hrs
OVERALL	469 69.79%	hrs	16 2.38%	hrs	128 19.05%	hrs	0 0.00%	hrs	0 91.22%	
UNAVAILABLE	-		-		-		-		59 8.78%	hrs

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc

SO_2

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

FEBRUARY 2007

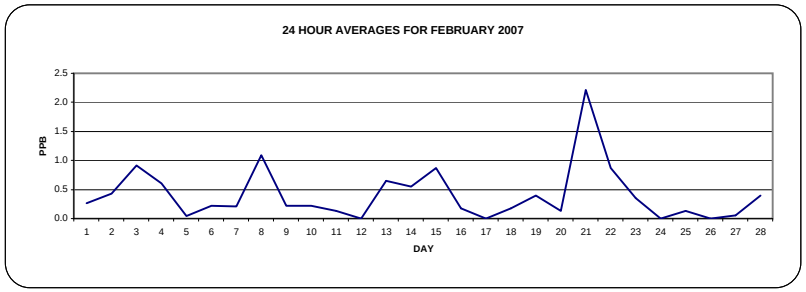
SULPHUR DIOXIDE (SO_2) hourly averages in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	0	0	0	2	2	2	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	2	0.3	24
2	0	0	1	1	1	1	1	2	1	0	0	0	**IZS**	0	1	0	1	0	0	0	0	0	0	0	2	0.4	24
3	0	0	0	0	0	0	0	0	0	0	1	**IZS**	3	2	2	3	5	4	1	0	0	0	0	0	5	0.9	24
4	0	0	0	0	0	0	0	0	0	1	**IZS**	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	24
5	1	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
6	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	2	0.2	24
7	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	1	3	**C**	**C**	**C**	**IZS**	0	0	0	0	3	0.2	24
8	0	0	0	0	1	2	**IZS**	1	1	3	3	1	1	1	1	3	3	2	1	1	0	0	0	0	3	1.1	24
9	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	0.2	24
10	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	0.2	24
11	0	0	0	**IZS**	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24
12	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
13	0	**IZS**	0	0	0	0	0	0	0	0	0	1	1	2	3	3	3	1	1	0	0	0	0	0	3	0.7	24
14	**IZS**	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	**IZS**	1	0.5	24
15	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	**IZS**	1	1	0.9	24
16	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	**IZS**	0	0	1	0.2	24
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0.0	24
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	1	2	1	2	0.2	24
19	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	**IZS**	0	0	0	0	0	1	0.4	24
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	**IZS**	0	0	0	0	0	0	1	0.1	24
21	0	1	0	0	0	1	2	2	2	3	7	**8**	6	5	4	4	**IZS**	3	1	1	1	0	0	0	8	**2.2**	24
22	0	1	1	1	1	0	1	0	1	1	1	1	1	1	1	**IZS**	1	1	1	1	1	1	1	1	1	0.9	24
23	1	0	0	0	0	0	0	1	1	1	1	1	1	1	**IZS**	0	0	0	0	0	0	0	0	0	1	0.3	24
24	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0.0	24
25	0	0	0	0	1	1	1	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24
26	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
27	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	**P**	1	**P**	**P**	0	0	0	0	0	1	0.1	21
28	0	0	0	0	0	0	0	0	0	**IZS**	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0.4	24
HOURLY MAX	1	1	1	2	2	2	2	2	2	3	7	8	6	5	4	4	5	4	1	1	1	1	2	1			
HOURLY AVG	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.6	0.7	0.8	0.8	1.0	0.8	0.7	0.4	0.3	0.2	0.2	0.2	0.2			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

OBJECTIVE LIMIT: **ALBERTA ENVIRONMENT:** 1-HR 172 PPB | 24-HR 57 PPB

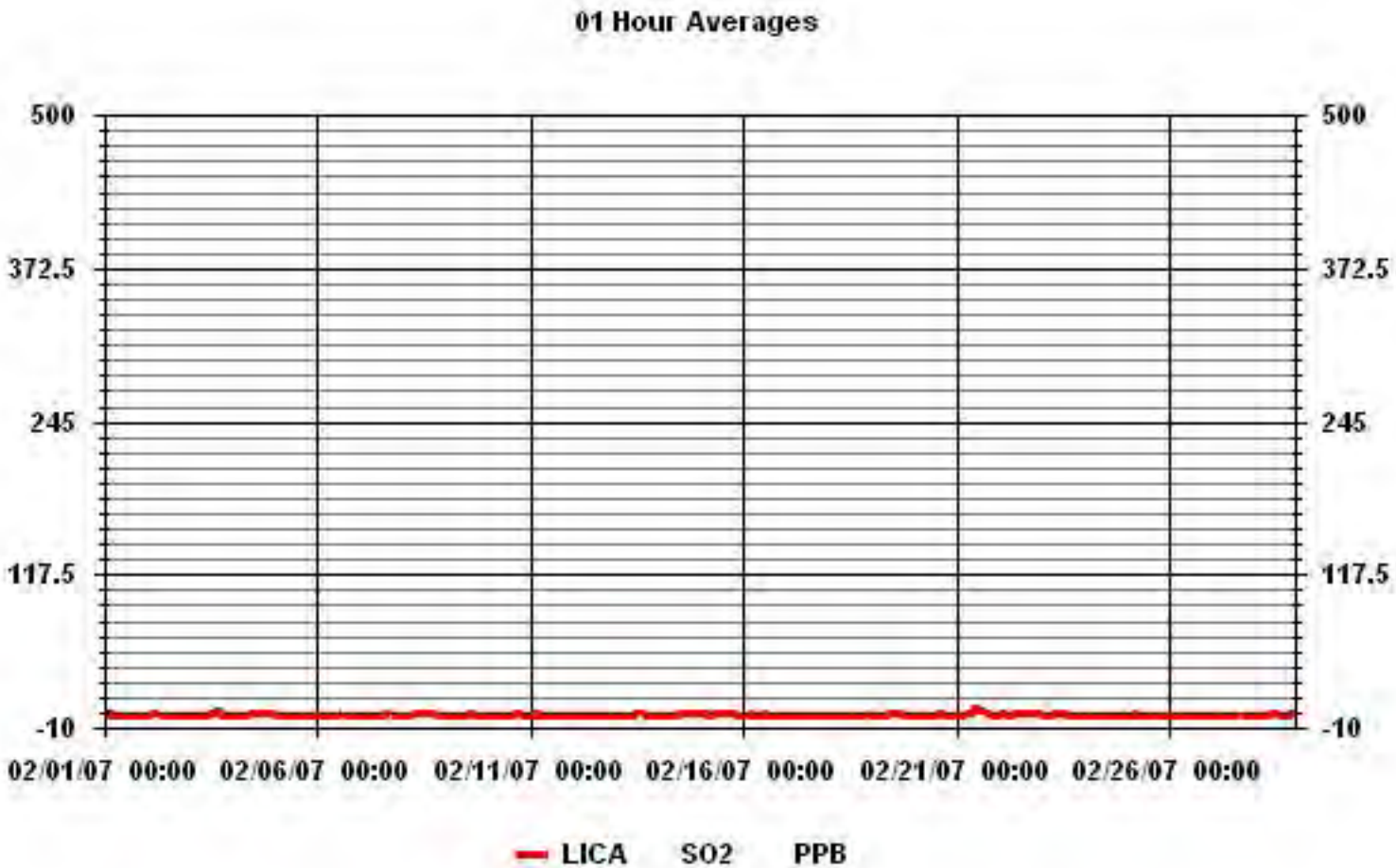


MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0					
NUMBER OF 24-HR EXCEEDENCES:	0					
NUMBER OF NON-ZERO READINGS:	185					
MAXIMUM 1-HR AVERAGE:	8	PPB	@ HOUR(S)	12	ON DAY(S)	21
MAXIMUM 24-HR AVERAGE:	2.2	PPB			ON DAY(S)	21

IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	669	HRS
MONTHLY CALIBRATION TIME:	3	HRS	AMD OPERATION UPTIME:	99.6	%
STANDARD DEVIATION:	0.85		MONTHLY AVERAGE:	0.41	PPB

MOUNTAIN STANDARD TIME



MAXXAM ANALYTICS INC

LICA
SO2 / WD Joint Frequency Distribution (Percent)

February 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : SO2
Units : PPB

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

	Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
<	20	1.97	3.94	8.88	4.60	21.71	8.55	3.28	1.64	3.61	4.11	11.51	10.19	3.94	3.78	4.44	3.78	100.00
<	60	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
<	110	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
<	170	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
<	340	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>=	340	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	Totals	1.97	3.94	8.88	4.60	21.71	8.55	3.28	1.64	3.61	4.11	11.51	10.19	3.94	3.78	4.44	3.78	

Calm : .00 %

Total # Operational Hours : 608

Distribution By Samples

Direction

	Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
<	20	12	24	54	28	132	52	20	10	22	25	70	62	24	23	27	23	608
<	60																	
<	110																	
<	170																	
<	340																	
>=	340																	
	Totals	12	24	54	28	132	52	20	10	22	25	70	62	24	23	27	23	

Calm : .00 %

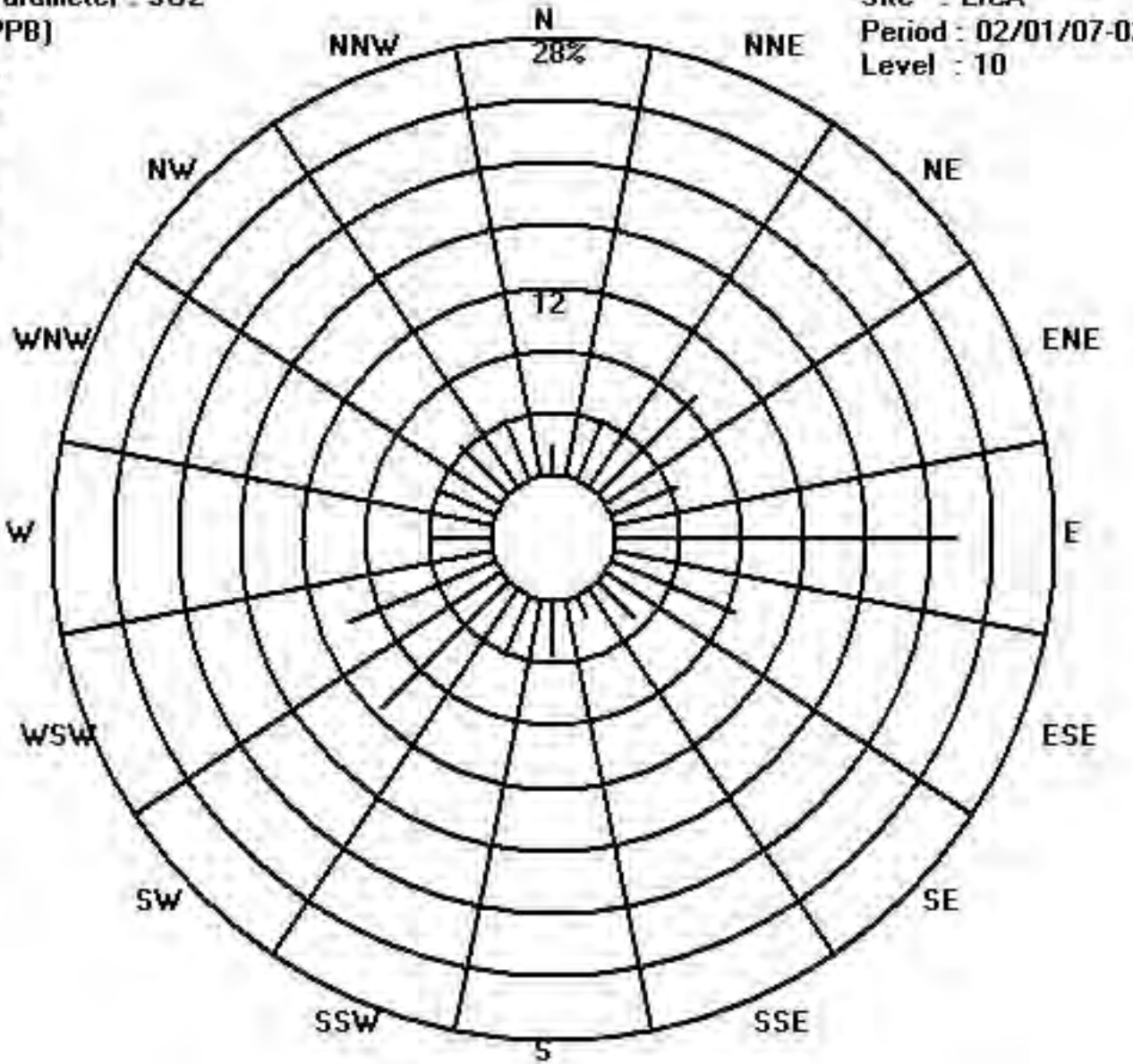
Total # Operational Hours : 608

Logger : 01 Parameter : SO2

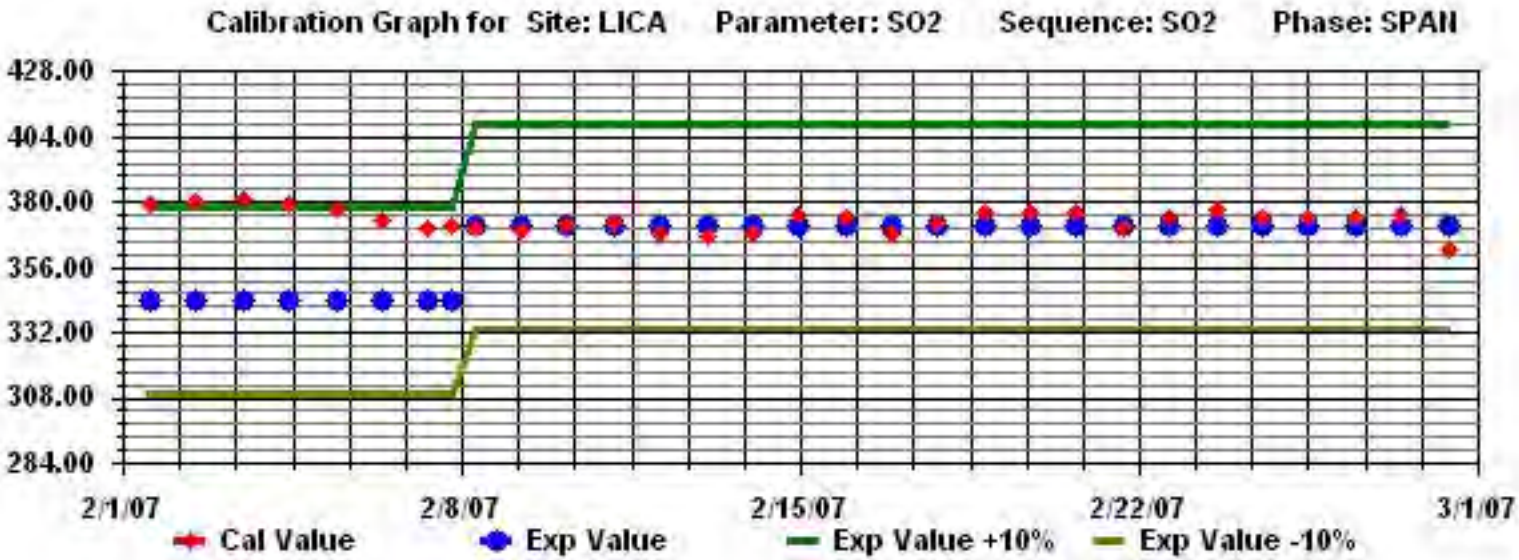
Class Limits (PPB)

>= 340
< 340
< 170
< 110
< 60
< 20

Site : LICA
Period : 02/01/07-02/28/07
Level : 10



MAXXAM ANALYTICS INC



MAXXAM ANALYTICS INC

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

FEBRUARY 2007

SULPHUR DIOXIDE MAX instantaneous maximum in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	0	1	1	4	3	3	1	0	0	0	0	0	0	**IZS**	0	0	1	1	0	0	0	0	0	1	4	0.7	24
2	0	1	2	2	2	2	2	3	2	2	1	0	**IZS**	1	2	1	2	2	2	0	1	0	0	1	3	1.3	24
3	0	0	0	1	1	1	1	0	1	1	3	**IZS**	3	3	3	4	6	5	3	1	1	1	1	1	6	1.8	24
4	1	1	0	1	1	1	1	1	1	1	**IZS**	2	2	2	2	2	2	2	2	2	2	2	1	1	2	1.4	24
5	1	1	1	1	1	1	1	1	1	**IZS**	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1.0	24
6	1	1	1	1	1	1	1	1	**IZS**	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	2	1.2	24
7	1	1	1	1	1	1	1	**IZS**	1	1	1	1	1	1	3	4	**C**	**C**	**C**	**IZS**	1	1	1	1	4	1.3	24
8	1	1	1	1	3	3	**IZS**	2	1	5	5	2	2	1	2	4	4	3	2	1	1	1	1	1	5	2.1	24
9	1	1	1	1	1	**IZS**	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	2	1.1	24
10	1	1	1	1	**IZS**	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	2	1.1	24
11	1	1	1	**IZS**	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.1	24
12	1	1	**IZS**	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
13	1	**IZS**	1	1	1	1	1	1	1	1	1	1	1	3	3	4	3	3	1	1	1	1	1	1	4	1.5	24
14	**IZS**	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	**IZS**	2	1.2	24
15	2	2	2	2	2	1	1	1	2	2	2	2	2	2	1	1	1	2	2	1	1	1	**IZS**	1	2	1.6	24
16	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	**IZS**	1	1	2	1.1	24
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	**IZS**	1	1	1	1	1.0	24
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	**IZS**	2	2	3	2	3	1.2	24
19	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	**IZS**	1	1	1	1	1	2	1.3	24
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	**IZS**	1	1	1	1	1	1	2	1.0	24
21	1	2	2	1	1	2	2	3	3	5	9	**12**	8	6	5	5	**IZS**	4	2	2	1	1	1	1	12	3.4	24
22	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	**IZS**	2	2	2	2	1	2	1	1	2	1.3	24
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	**IZS**	1	1	1	1	1	1	1	1	1	1	1.0	24
24	1	1	1	1	1	0	1	1	1	1	1	1	1	**IZS**	1	1	1	1	1	1	1	1	1	1	1	1.0	24
25	1	1	1	1	1	1	1	1	1	1	0	1	**IZS**	1	0	0	1	1	1	1	1	0	0	1	1	0.8	24
26	0	1	1	1	1	0	1	1	1	1	1	**IZS**	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	24
27	1	1	0	1	0	1	1	1	1	1	**IZS**	0	1	1	1	**P**	2	**P**	**P**	1	1	1	1	1	2	0.9	21
28	1	1	0	1	1	1	1	1	1	**IZS**	1	2	2	2	2	1	1	1	1	1	1	1	2	2	2	1.2	24
HOURLY MAX	2	2	2	4	3	3	2	3	3	5	9	12	8	6	5	5	6	5	3	2	2	2	3	2			
HOURLY AVG	0.9	1.0	1.0	1.2	1.2	1.2	1.1	1.1	1.1	1.4	1.5	1.5	1.5	1.6	1.5	1.7	1.7	1.7	1.4	1.1	1.1	1.0	1.0	1.1			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

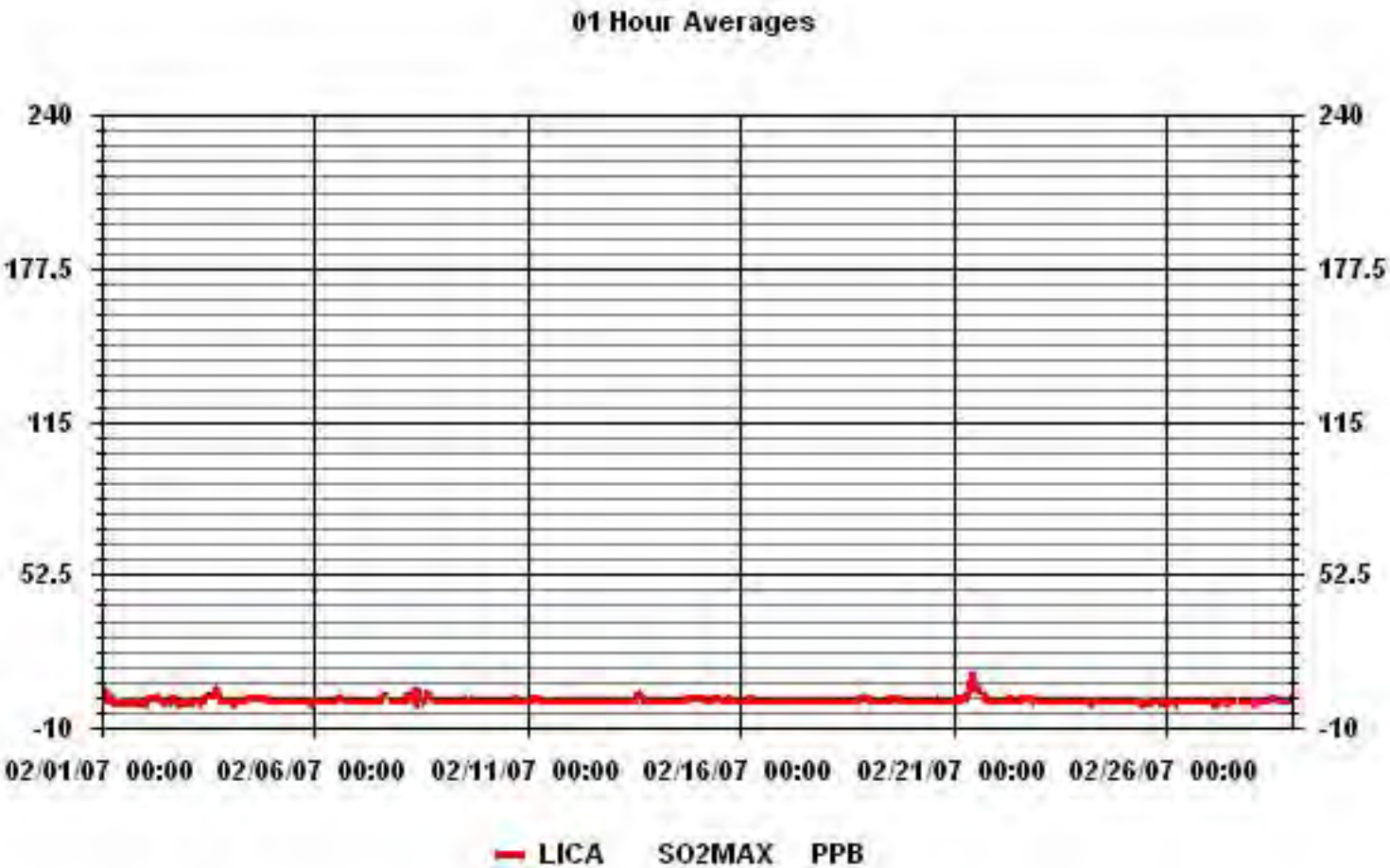
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	599					
MAXIMUM INSTANTANEOUS VALUE:	12	PPB	@ HOUR(S)	12	ON DAY(S)	21

IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	669	HRS
MONTHLY CALIBRATION TIME:	3	HRS			
STANDARD DEVIATION:	0.97				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc



MAXXAM ANALYTICS INC

TRS

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

FEBRUARY 2007

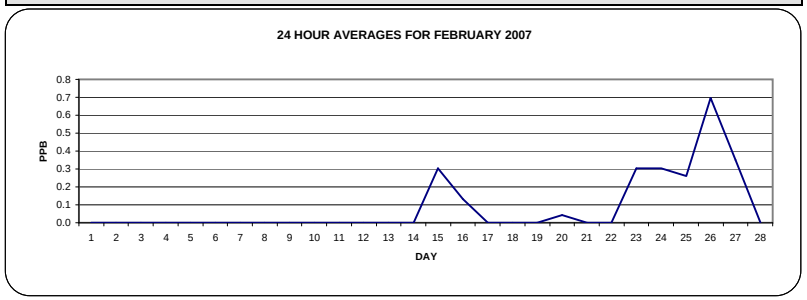
TOTAL REDUCED SULPHUR (TRS) hourly averages in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0.0	24
2	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
3	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
4	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
5	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
6	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
7	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
8	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
9	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
10	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
11	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
12	0	0	**IZS**	0	0	0	0	**C**	**C**	**C**	**C**	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
13	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
14	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0.0	24
15	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	**1**	**1**	**1**	**1**	**1**	**IZS**	**1**	1	0.3	24
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	**1**	**IZS**	**1**	0	1	0.1	24
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0.0	24
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0.0	24
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0.0	24
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	**1**	0	0	0	0	1	0.0	24
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0.0	24
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0.0	24
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	**1**	0	**1**	**1**	**1**	**1**	**1**	**1**	1	0.3	24
24	0	0	0	0	**1**	0	0	**1**	0	0	0	0	0	**IZS**	0	0	0	0	**1**	**1**	**1**	**1**	**1**	0	1	0.3	24
25	**1**	0	0	0	**1**	0	**1**	0	0	0	**1**	**1**	**IZS**	0	0	0	0	**1**	0	0	0	0	0	0	1	0.3	24
26	**1**	0	0	0	0	**1**	**1**	**1**	0	0	**1**	**IZS**	0	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	1	**0.7**	24
27	**1**	**1**	**1**	**1**	0	**1**	0	0	**1**	**1**	**IZS**	0	0	0	0	**P**	0	**P**	**P**	0	0	0	0	0	1	0.4	21
28	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
HOURLY MAX	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1			
HOURLY AVG	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

OBJECTIVE LIMIT: **ALBERTA ENVIRONMENT:** 1-HR 172 PPB | 24-HR 57 PPB

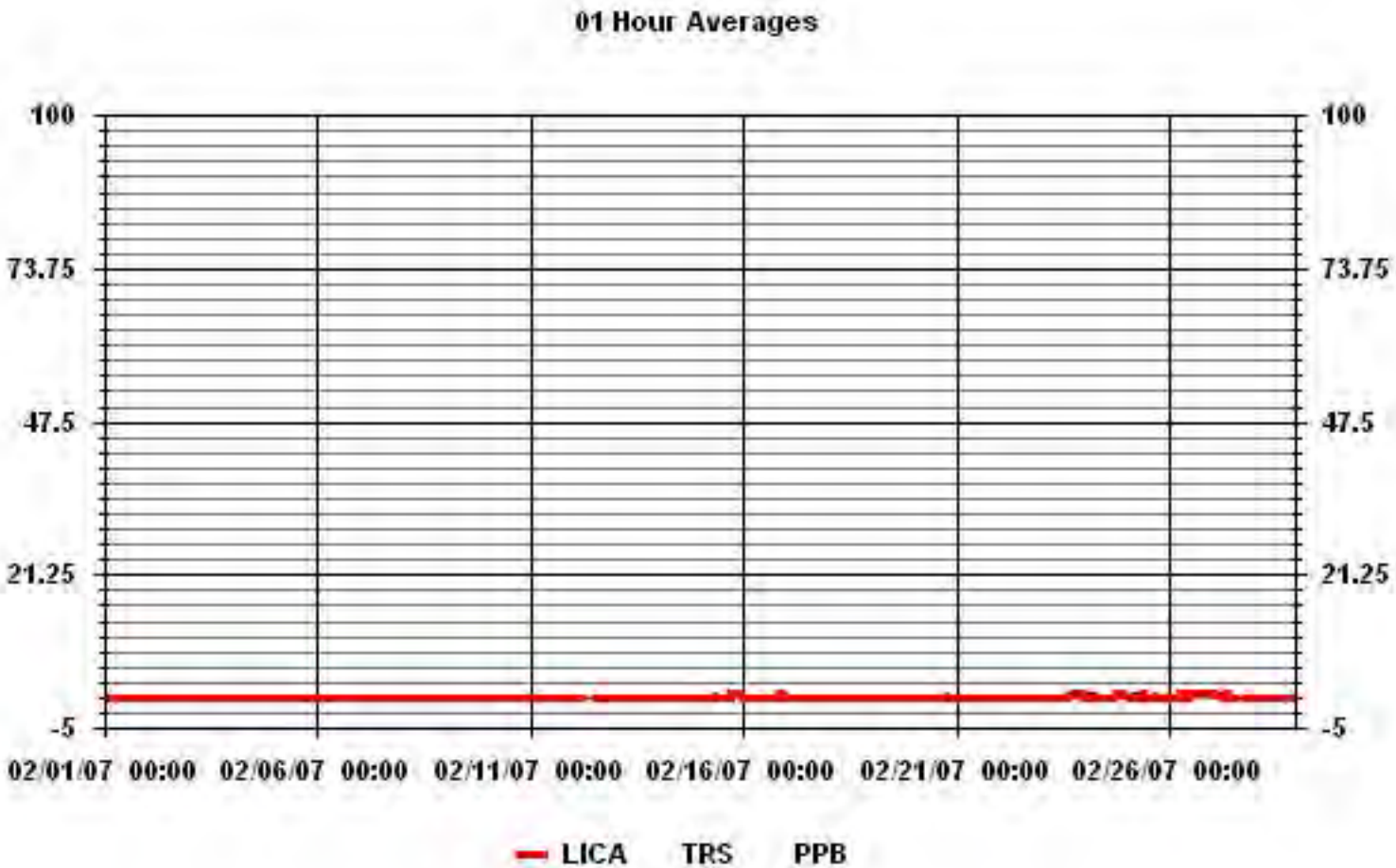


MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0					
NUMBER OF 24-HR EXCEEDENCES:	0					
NUMBER OF NON-ZERO READINGS:	54					
MAXIMUM 1-HR AVERAGE:	1	PPB	@ HOUR(S)	VARIOUS	ON DAY(S)	VAR
MAXIMUM 24-HR AVERAGE:	0.7	PPB			ON DAY(S)	26

IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	669	HRS
MONTHLY CALIBRATION TIME:	4	HRS	AMD OPERATION UPTIME:	99.6	%
STANDARD DEVIATION:	0.28		MONTHLY AVERAGE:	0.09	PPB

MOUNTAIN STANDARD TIME



MAXXAM ANALYTICS INC

LICA
TRS / WD Joint Frequency Distribution (Percent)

February 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : TRS
Units : PPB

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3	1.97	3.95	8.89	4.61	21.74	8.56	3.29	1.64	3.62	4.28	11.69	10.21	3.78	3.62	4.28	3.78	100.00
< 10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 50	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 50	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	1.97	3.95	8.89	4.61	21.74	8.56	3.29	1.64	3.62	4.28	11.69	10.21	3.78	3.62	4.28	3.78	

Calm : .00 %

Total # Operational Hours : 607

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3	12	24	54	28	132	52	20	10	22	26	71	62	23	22	26	23	607
< 10																	
< 50																	
>= 50																	
Totals	12	24	54	28	132	52	20	10	22	26	71	62	23	22	26	23	

Calm : .00 %

Total # Operational Hours : 607

Logger : 01 Parameter : TRS

Class Limits (PPB)

>= 50

< 50

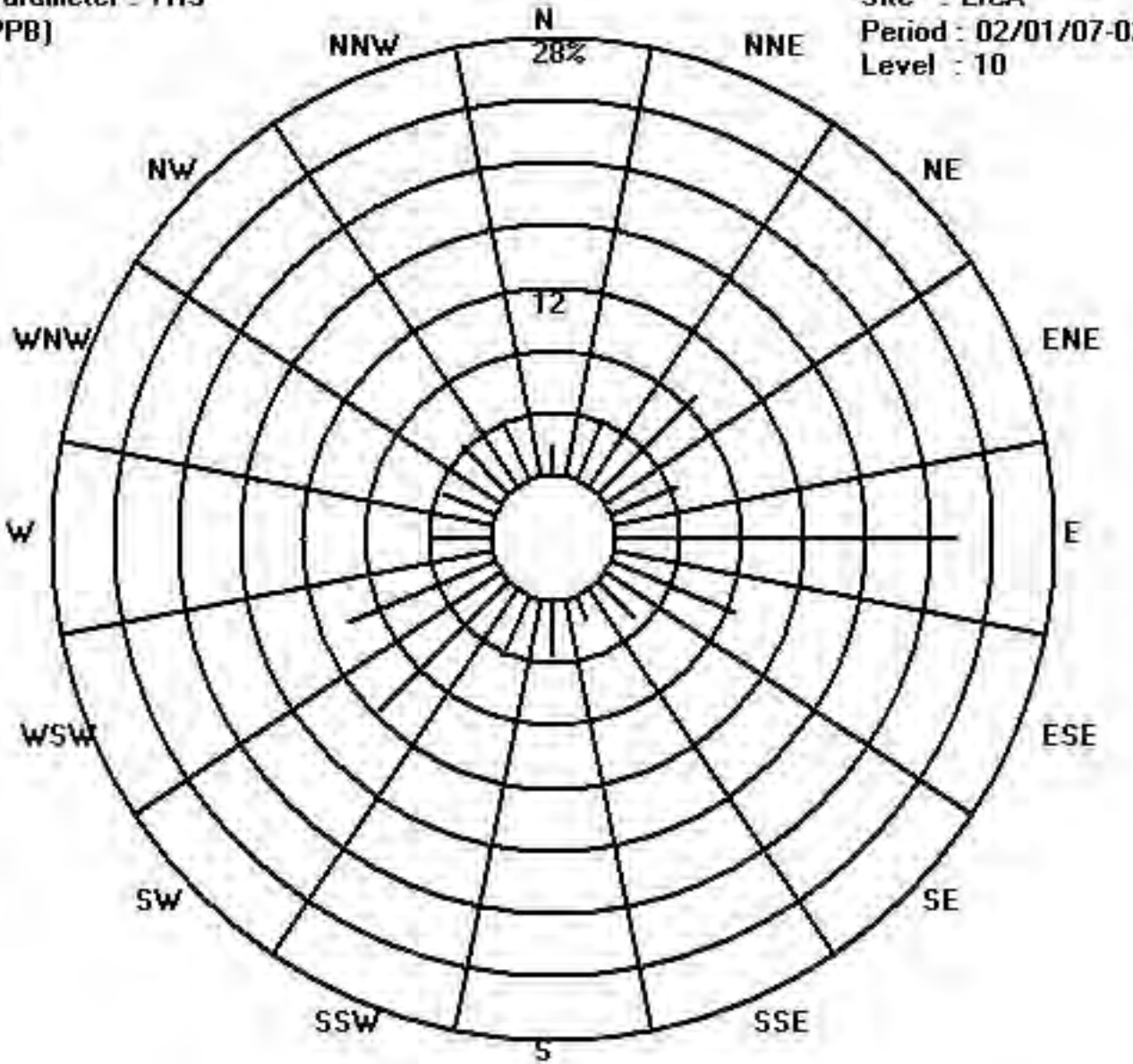
< 10

< 3

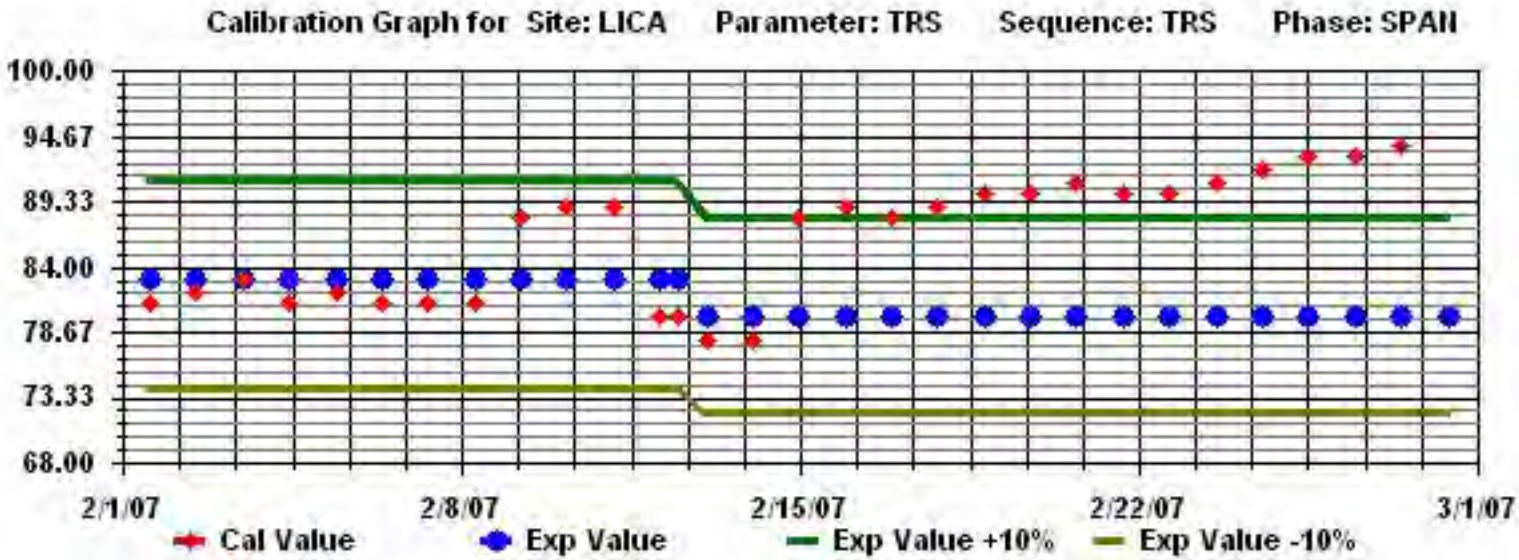
Site : LICA

Period : 02/01/07-02/28/07

Level : 10



MAXXAM ANALYTICS INC



MAXXAM ANALYTICS INC

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

FEBRUARY 2007

TOTAL REDUCED SULPHUR MAX instantaneous maximum in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY 24-HOUR		
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	1	1	0	1	1	1	1	1	1	1	1	1	0	IZS	1	1	0	1	1	1	1	1	0	0	1	0.8	24
2	0	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
3	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	0	1	1	1	1	1	1	1	1	1.0	24
4	0	1	0	1	1	1	1	1	1	0	IZS	0	1	0	1	1	1	1	1	1	1	1	1	1	1	0.8	24
5	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	0	1	0	1	0	1	0	0	0	1	0.7	24
6	0	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
7	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
8	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
9	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
10	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
11	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
12	1	1	IZS	1	1	1	1	C	C	C	C	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
13	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
14	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1.0	24
15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	IZS	1	2	1.1	24
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1.0	24
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1.0	24
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1.0	24
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1.0	24
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	2	1	1	1	1	2	1.0	24
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1.0	24
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1.0	24
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1.0	24
24	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	2	1	1	1	2	1.0	24
25	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
26	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	2	1	2	1.0	24
27	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	P	1	P	P	1	0	1	1	1	1	1.0	21
28	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
HOURLY MAX	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	2	1			
HOURLY AVG	0.9	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.9			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

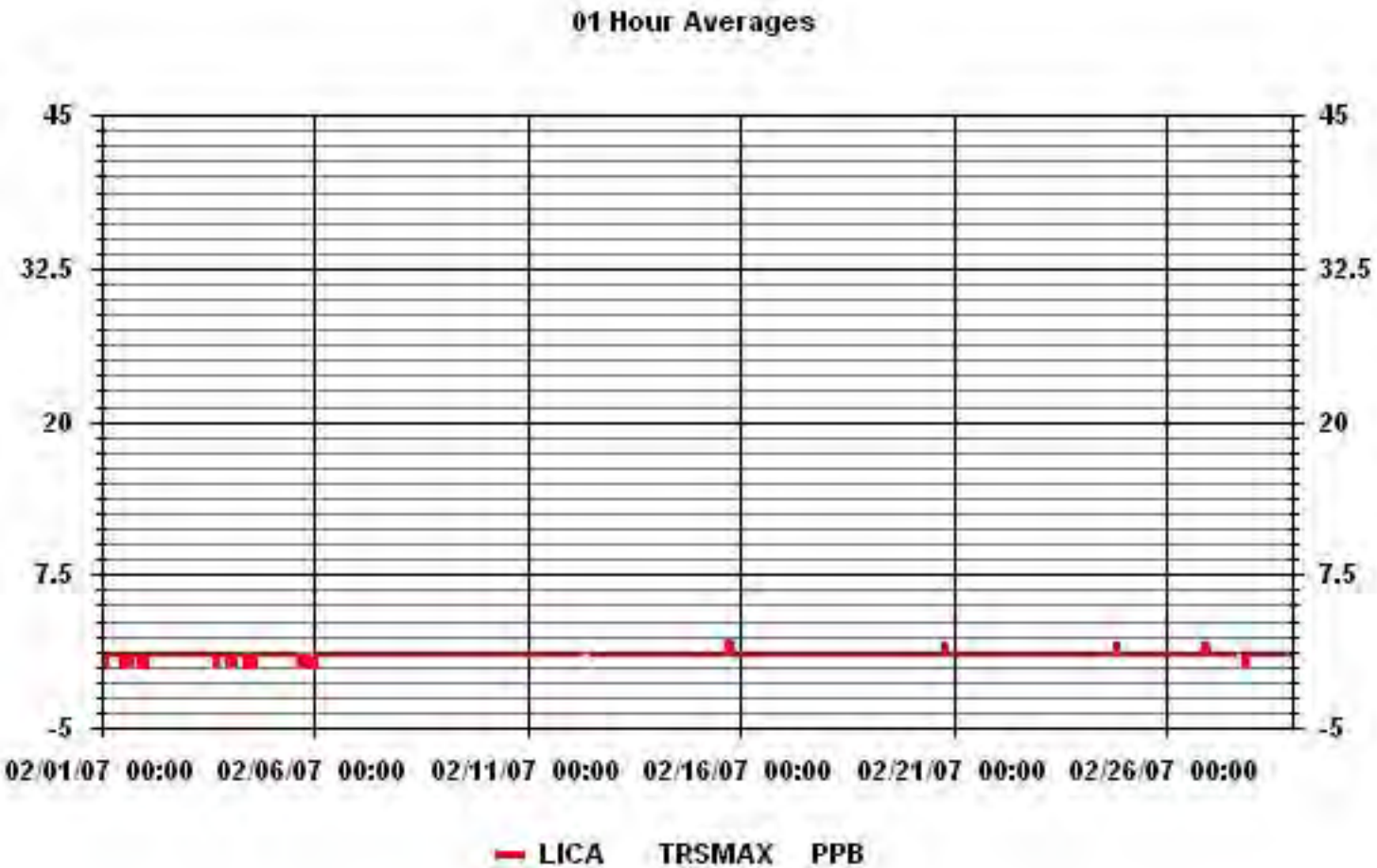
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	615					
MAXIMUM INSTANTANEOUS VALUE:	2	PPB	@ HOUR(S)	VARIOUS	ON DAY(S)	VAR

IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	669	HRS
MONTHLY CALIBRATION TIME:	4	HRS			
STANDARD DEVIATION:	0.20				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc



MAXXAM ANALYTICS INC

THC

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

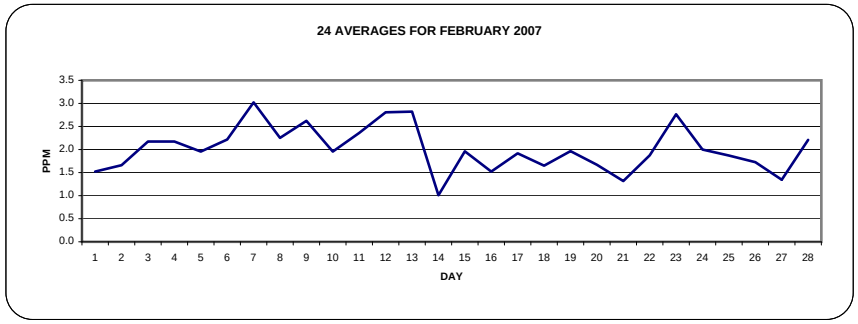
FEBRUARY 2007

TOTAL HYDROCARBONS (THC) hourly averages in ppm

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00
DAY																						
1	1	1	1.1	1.3	1.4	1.5	1.5	1.6	1.7	1.9	1.9	1.8	1.8	**IZS**	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6
2	1	1.1	1.2	1.3	1.4	1.4	1.5	1.7	1.8	1.8	1.8	1.9	**IZS**	1.9	1.9	1.8	1.9	1.9	1.8	1.9	2	1.8
3	1.4	1.6	2.1	2.3	2.5	2.6	2.5	2.5	2.8	3	2.5	**IZS**	2	2.2	2.1	1.9	1.8	2	1.9	1.9	2	2.1
4	1.9	2.1	2.3	2.3	2.3	2.2	2.1	1.9	1.8	1.8	**IZS**	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.3	2.4	2.4	2.4
5	1.7	1.7	1.6	1.6	1.6	1.7	1.7	1.9	1.9	**IZS**	1.9	2.1	2.1	2	2	2	2.1	1.9	2.1	2.2	2.3	2.3
6	1.5	1.6	1.8	1.8	1.8	2	2	2.1	**IZS**	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.4	2.3	2.3	2.3	3.1	2.8
7	2.5	2.5	2.5	2.5	2.4	2.6	2.6	**IZS**	3.4	4.1	4.6	3.9	3.6	3.1	2.8	2.7	**C**	**C**	**C**	**C**	**IZS**	3.1
8	2.2	2	2	2	1.9	1.6	**IZS**	2	2	1.8	1.9	2	2	2	2.2	2.4	2.6	2.6	2.7	2.7	2.8	2.8
9	2.3	2.5	2.6	2.5	2.5	**IZS**	2.9	3	3.1	3.5	2.5	2.2	2.1	2.2	2.5	2.7	2.6	2.4	2.6	2.7	2.4	2.5
10	2.2	2.5	2.4	2.6	**IZS**	3.3	3.1	2.7	2.4	2.2	2.3	2.2	1.5	1.2	1.1	0.9	1.1	1.3	1.5	1.5	1.5	1.6
11	2.7	2.7	2.6	**IZS**	2	2.3	2.2	2.1	2.3	2.5	2.3	2	2.1	2.1	2.5	2.4	2.3	2.3	2.3	2.4	2.6	2.7
12	2.2	2	**IZS**	2.9	3	3.3	3.8	3.9	4.4	**5.6**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	1.8	1.9	1.8	1.8
13	2.1	**IZS**	2.6	2.8	2.9	2.8	2.9	3.2	3.3	3.5	3.1	3	3	2.8	2.8	2.4	2.4	2.4	2.3	2.6	2.8	2.8
14	**IZS**	2	1.9	2	1.9	1.6	1.7	2.1	1.9	1.7	1.5	1.1	0.8	0.7	0.6	0.4	0.3	0	0	0	0	0
15	1.5	1.7	1.8	1.8	2.1	2.1	2.1	2.2	2.5	2.3	2.1	2.2	2	2	1.9	1.7	1.5	1.8	1.8	1.6	1.9	2.1
16	1.1	0.8	0.9	1.1	1	1.1	1	1.4	1.5	1.6	1.6	1.7	1.8	1.7	1.7	1.7	1.7	1.8	1.9	2	2	**IZS**
17	2.3	2.4	2.2	2.2	2.3	2.2	2.1	2.2	2.1	2.1	2.1	2	1.7	1.7	1.8	1.8	1.8	1.7	1.7	1.5	**IZS**	1.5
18	2	1.7	1.7	1.6	1.6	1.6	1.6	1.7	1.8	1.7	**IZS**	1.4	1.4	1.5	1.5	1.5	1.7	1.4	1.5	**IZS**	1.8	1.9
19	0.9	1.2	1.4	1.5	1.8	2.2	2.5	2.6	2.4	2.4	2.2	2	1.9	1.8	2	2	1.9	1.7	**IZS**	1.8	2	2.4
20	1	1	1.1	1	1	1.1	1	1.1	1.2	1.4	1.6	1.6	1.7	1.8	1.8	1.8	1.8	**IZS**	2.3	2.4	2.5	2.6
21	0.7	0.3	0.3	0.5	0.5	0.6	1	1	1.2	1.2	1.3	1.3	1.6	1.6	1.6	1.6	**IZS**	1.7	1.8	1.9	2	2.1
22	2.3	2	1.9	1.9	1.9	2	2	2	2.1	2	2	2	1.9	1.7	1.7	**IZS**	1.7	1.8	1.7	1.7	1.8	1.8
23	3.5	3.5	3.3	3.2	3	2.8	2.8	2.8	2.6	2.4	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	2	2.1
24	0.9	1.1	1.5	1.7	1.6	1.7	1.9	2	2.4	2.2	1.9	1.9	2	**IZS**	2	1.9	2.1	2.3	2.3	2.3	2.5	2.7
25	2	2.1	2.2	2.1	2	2.1	2	2.1	2.2	1.9	1.9	1.8	**IZS**	2	1.8	1.7	1.8	1.8	1.8	1.6	1.6	1.5
26	1.3	1.4	1.5	1.7	1.7	1.6	1.6	1.7	1.7	1.6	1.6	**IZS**	1.7	1.6	1.6	1.7	1.6	1.8	2	2.2	2.1	2.2
27	1.4	1.6	1.5	1.4	1.4	1.5	1.5	1.6	1.7	1.8	**IZS**	1.5	1.6	1.4	1.1	P	0.9	P	P	0.9	0.9	1.1
28	2	2.1	2.2	2.6	2.6	2.5	2.5	2.8	2.5	**IZS**	2	2	2	1.9	2.4	2.2	2.1	**2**	2.1	2	2.1	2.1
HOURLY MAX	3.5	3.5	3.3	3.2	3.0	3.3	3.8	3.9	4.4	5.6	4.6	3.9	3.6	3.1	2.8	2.7	2.6	2.6	2.7	2.7	3.1	3.1
HOURLY AVG	1.8	1.8	1.9	1.9	1.9	2.0	2.1	2.1	2.2	2.3	2.1	2.0	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	2.0	2.1

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

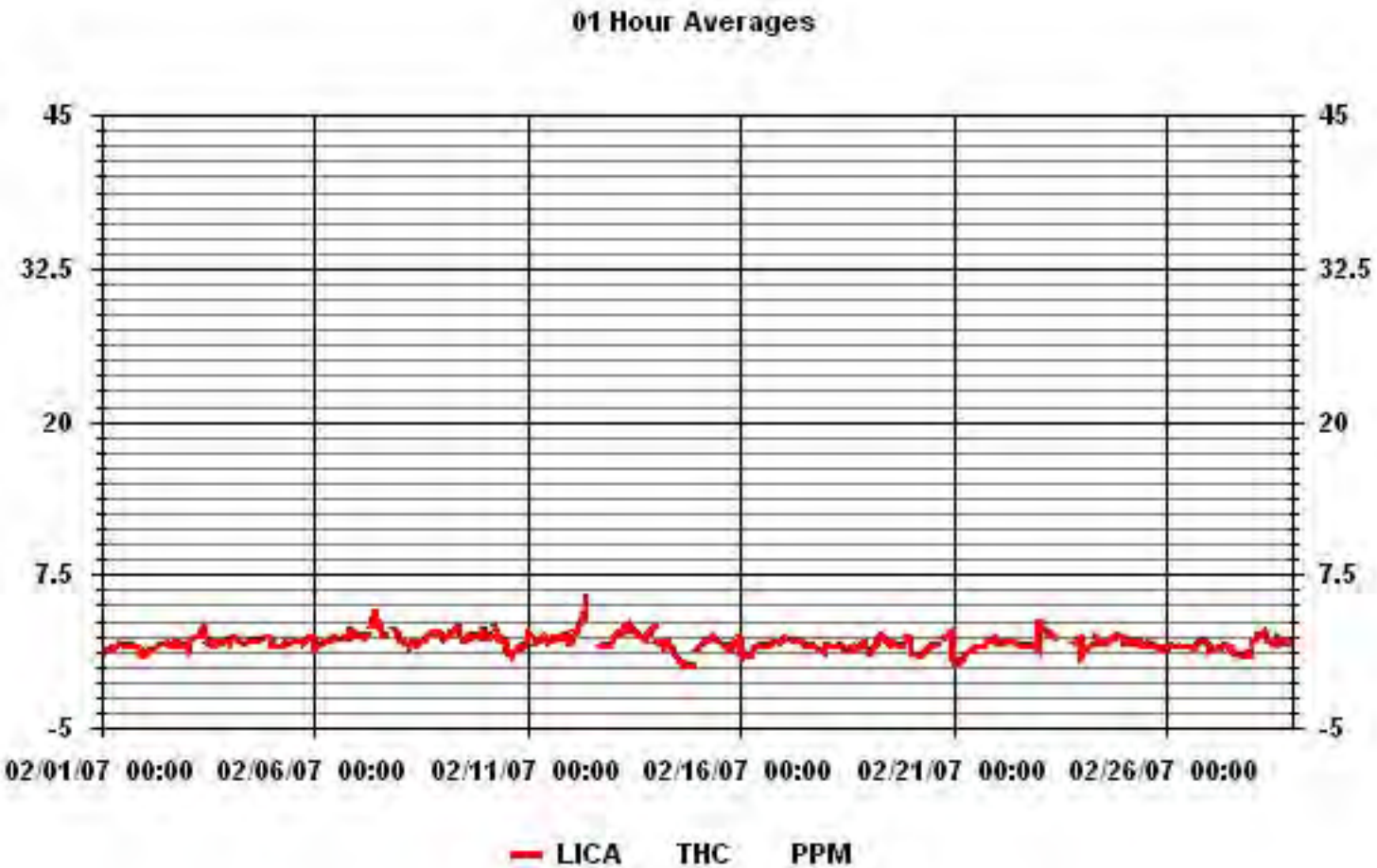


MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	611		
MAXIMUM 1-HR AVERAGE:	5.6	PPM	@ HOUR(S)
MAXIMUM 24-HR AVERAGE:	3.0	PPM	

IZS CALIBRATION TIME:	32	HRS	OPERATIONAL TIME:
MONTHLY CALIBRATION TIME:	20	HRS	AMD OPERATION UPTI!
STANDARD DEVIATION:	0.63		MONTHLY AVERAGE:

MOUNTAIN STANDARD TIM



MAXXAM ANALYTICS INC

LICA
THC / WD Joint Frequency Distribution (Percent)

February 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : THC
Units : PPM

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3.0	1.86	3.90	9.16	4.07	20.20	8.14	3.05	1.52	3.22	3.73	10.86	9.50	3.73	3.39	4.07	3.73	94.22
< 10.0	.16	.00	.00	.16	1.01	.50	.16	.16	.50	.50	.67	.67	.16	.50	.50	.00	5.77
< 50.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 50.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.03	3.90	9.16	4.24	21.22	8.65	3.22	1.69	3.73	4.24	11.54	10.18	3.90	3.90	4.58	3.73	

Calm : .00 %

Total # Operational Hours : 589

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3.0	11	23	54	24	119	48	18	9	19	22	64	56	22	20	24	22	555
< 10.0	1			1	6	3	1	1	3	3	4	4	1	3	3		34
< 50.0																	
>= 50.0																	
Totals	12	23	54	25	125	51	19	10	22	25	68	60	23	23	27	22	

Calm : .00 %

Total # Operational Hours : 589

Logger : 01 Parameter : THC

Class Limits (PPM)

>= 50.0

< 50.0

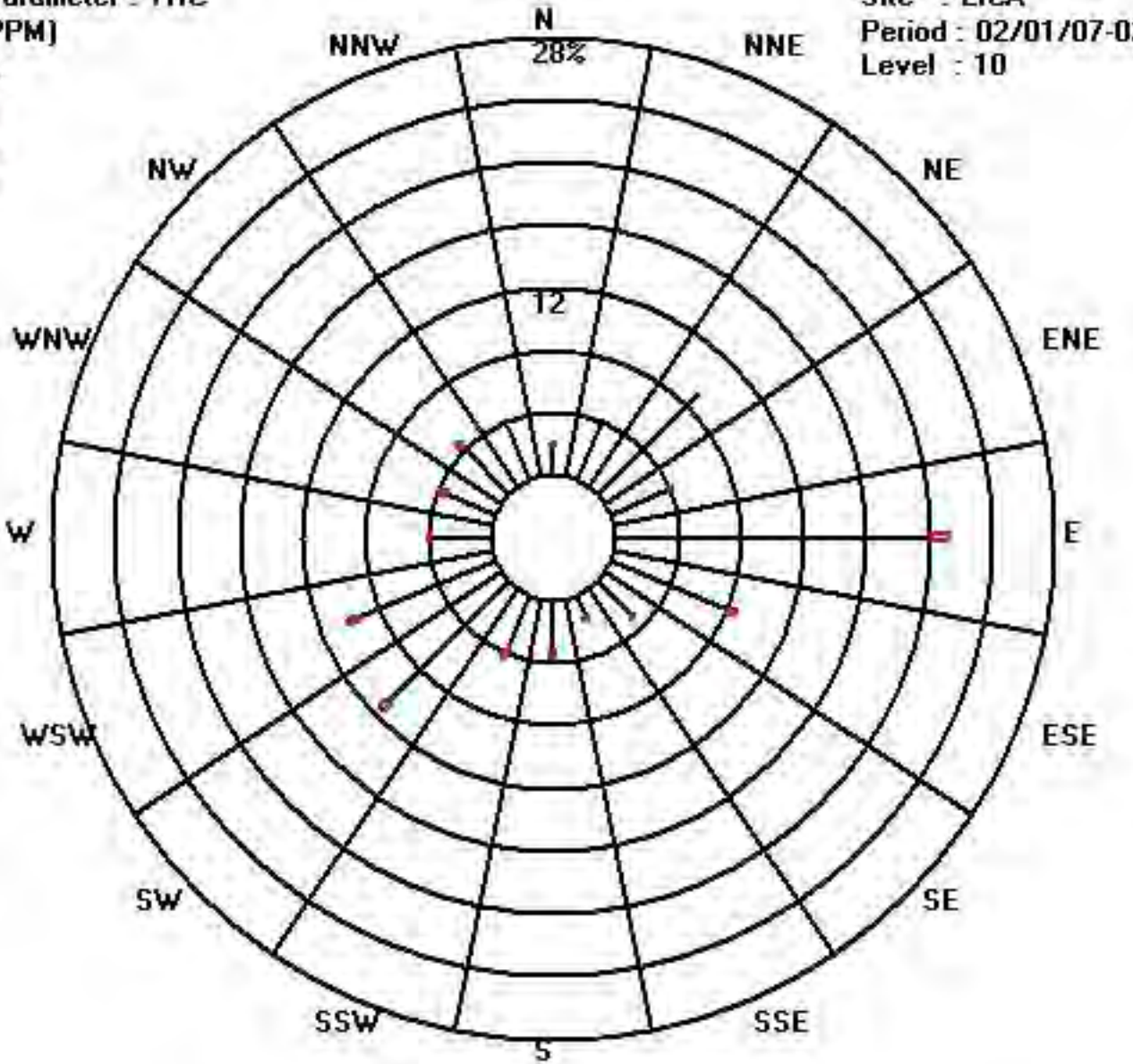
< 10.0

< 3.0

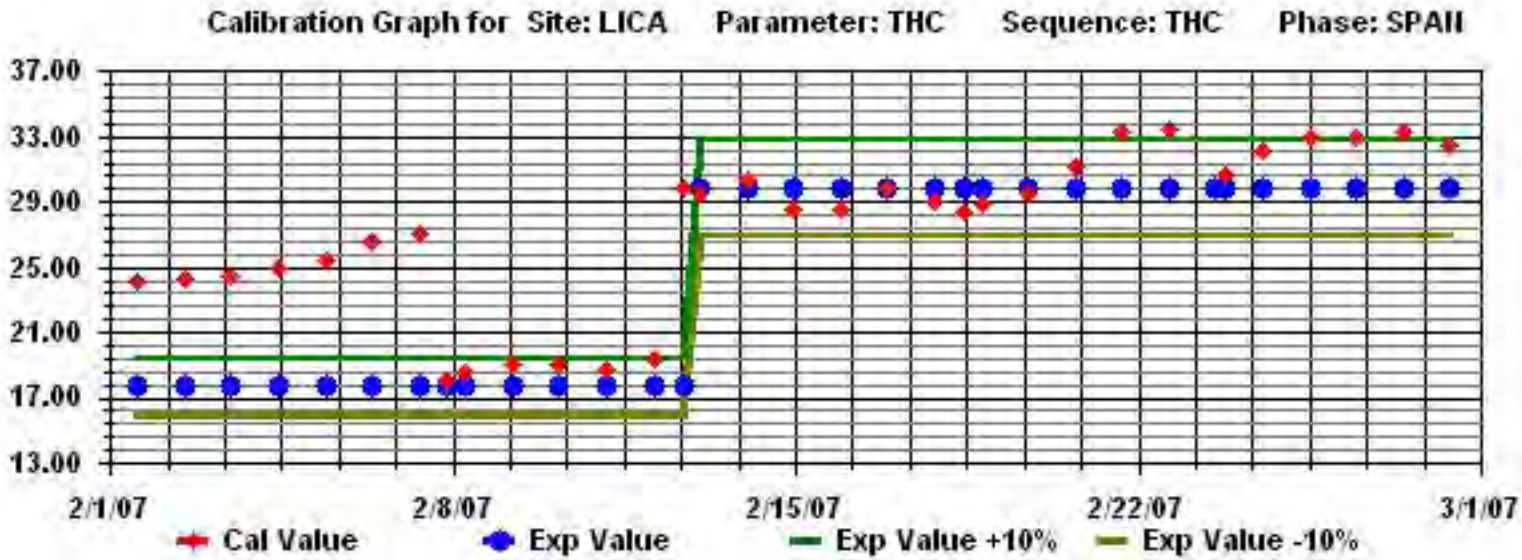
Site : LICA

Period : 02/01/07-02/28/07

Level : 10



MAXXAM ANALYTICS INC



MAXXAM ANALYTICS INC

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

FEBRUARY 2007

TOTAL HYDROCARBONS MAX instantaneous maximum in ppm

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY 24-HOUR		
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	6.6	6.6	6.7	6.8	7	7.2	7.2	7.4	7.4	7.5	7.6	7.5	7.4	**IZS**	7.3	7.3	7.2	7.4	7.3	7.2	7.2	7.3	6.8	6.8	7.6	7.2	24
2	6.6	6.8	6.8	7.1	7.2	7.1	7.2	7.3	7.4	7.5	7.4	7.6	**IZS**	7.5	7.4	7.5	7.5	7.5	8.3	7.6	7.6	7.5	7.3	7.4	8.3	7.4	24
3	7.4	7.6	8.1	8.3	8.5	8.5	8.4	8.6	8.8	8.9	8.7	**IZS**	8	8.2	8	7.9	7.8	7.8	7.9	7.9	7.9	8	8.1	8.1	8.9	8.1	24
4	8.2	8.4	8.5	8.6	8.6	8.4	8.3	8.2	8.1	8	**IZS**	8.3	8.3	8.4	8.4	8.4	8.4	8.4	8.5	8.7	8.6	8.6	8.6	8.6	8.7	8.4	24
5	8.6	8.6	8.5	8.4	8.5	8.6	8.6	9	8.9	**IZS**	8.8	9	9	8.9	8.9	9.1	9	8.9	9	9	9.1	9.3	9.2	9.3	9.3	8.9	24
6	9.3	9.6	9.6	9.6	9.6	9.9	9.9	10.4	**IZS**	10	10	10.1	10	10	10.2	10.3	10.5	10.2	10.2	10.2	**25.3**	10.8	10.7	10.9	25.3	10.8	24
7	10.7	10.7	10.8	10.8	10.7	10.9	11.2	**IZS**	11.9	12.8	13.3	12.3	12.1	11.2	10.9	11.2	**C**	**C**	**C**	**C**	**IZS**	5.5	3.7	4.4	13.3	10.3	24
8	2.6	2.1	2.1	2.1	2.1	1.8	**IZS**	2.6	3	2	2	2.1	2.3	2.3	2.3	2.6	2.8	2.8	2.9	3	3	3.1	3	3	3.1	2.5	24
9	2.9	3.1	3.2	3	3.1	**IZS**	3.5	3.7	4.5	4.6	3.7	2.8	2.6	3.3	3.1	3.3	3.2	3	3.3	3.5	3	3.3	3.7	3.8	4.6	3.4	24
10	3.4	3.5	3.5	3.8	**IZS**	4.4	4.3	4	3.5	3.4	3.3	3.3	2.8	2.5	2.1	1.9	2.3	2.5	2.7	2.5	2.6	2.7	3	3	4.4	3.1	24
11	3	3.1	2.9	**IZS**	2.4	2.7	2.8	2.5	2.6	2.8	2.9	2.4	2.5	2.4	2.9	3.1	2.6	2.8	2.8	2.9	2.8	3.1	3	3.1	3.1	2.8	24
12	3.2	2.9	**IZS**	2.9	3.1	3.4	4.2	4	5.4	6.2	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	1.9	1.9	1.8	1.9	1.9	1.9	6.2	3.1	24
13	1.8	**IZS**	2.5	2.5	2.6	2.6	2.8	3.1	3.2	3.3	3	2.8	3	2.5	2.5	2.3	2.1	2.1	2	2.4	2.6	2.6	3.1	3.2	3.3	2.6	24
14	**IZS**	2.9	2.6	2.6	2.6	2.2	2.4	5	3	2.5	2.1	1.8	1.4	1.3	1.3	1.1	1	0.7	0.7	0.6	0.5	0.5	0.4	**IZS**	5	1.8	24
15	0.7	0.9	0.9	1	1.3	2	1.3	1.4	1.8	1.6	1.4	1.5	1.2	1.2	1.2	0.9	0.8	1.1	1.5	1.4	1.2	1.3	**IZS**	1.7	2	1.3	24
16	1.4	0.9	1.1	1.2	1.3	1.2	1	1.5	1.7	1.6	1.8	1.8	1.9	1.9	1.8	1.7	1.8	2	2	2.2	2.1	**IZS**	2.1	2.1	2.2	1.7	24
17	2.1	2.1	2	1.9	2	1.9	1.7	1.9	1.7	1.6	1.6	1.6	1.5	1.3	1.4	1.5	1.4	1.3	1.5	1.1	**IZS**	1.1	1.2	0.8	2.1	1.6	24
18	0.7	0.5	0.4	0.4	0.3	0.5	0.4	0.5	0.6	0.4	**IZS**	0.8	0.6	0.8	0.8	0.8	1	0.7	0.8	**IZS**	1.1	1.2	1.4	1	1.4	0.7	24
19	1.2	1.4	1.6	1.7	2	2.7	2.7	2.8	2.6	2.6	2.6	2.3	2.1	2.1	2.2	2.3	2.2	1.9	**IZS**	2.1	2.3	2.6	2.5	2.6	2.8	2.2	24
20	2.5	2.6	2.6	2.5	2.5	2.6	2.5	2.6	2.7	2.9	3	3.1	3.1	3.4	3.3	3.3	3.3	**IZS**	6.2	4	4.1	4.1	4.3	4.3	6.2	3.3	24
21	4.4	3.8	4.2	4.1	4.2	4.4	4.7	4.7	4.7	4.8	4.9	5	5.3	5.3	5.2	5.2	**IZS**	5.3	5.4	5.4	5.6	5.8	5.8	5.9	5.9	5.0	24
22	6.1	6	5.7	5.6	5.7	5.8	5.8	5.9	5.8	5.8	5.8	5.8	5.7	5.5	5.5	**IZS**	5.5	5.6	5.5	5.5	5.5	5.7	5.5	5.4	6.1	5.7	24
23	5.6	5.6	5.3	5.2	5	4.8	5.5	4.9	4.8	4.4	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	2.7	2.8	2.9	3	5.6	4.5	24
24	3.2	3.6	3.8	3.9	3.9	4.1	4.3	4.4	4.7	4.7	4.3	4.2	4.4	**IZS**	7.9	4.4	4.4	4.6	4.7	5.4	7.1	5.1	5.1	4.8	7.9	4.7	24
25	4.9	5	5.2	5	4.9	5	5	7	5.1	4.9	5.3	4.7	**IZS**	5.4	4.6	4.7	4.7	4.6	4.7	4.5	4.4	4.4	4.5	4.4	7	4.9	24
26	4.4	4.7	4.6	4.8	4.9	4.7	5.3	4.8	4.7	4.7	4.7	**IZS**	4.8	4.9	4.8	4.9	4.8	4.9	5.6	6.1	6.8	5.7	5.1	5.1	6.8	5.0	24
27	5.3	5.3	5.3	5.1	5	5.2	5.5	5.4	5.3	5.5	**IZS**	5.1	5.2	5.1	4.9	P	4.5	P	P	5	4.8	4.8	4.8	4.6	5.5	5.1	21
28	4.6	4.7	5	5.3	5.2	5.2	5.3	10.2	6.3	**IZS**	4.7	4.8	4.6	4.6	5.1	4.9	4.8	4.6	4.8	4.7	4.7	4.6	4.7	4.6	10.2	5.1	24
HOURLY MAX	11	11	11	11	11	11	11	10	12	13	13	12	12	11	11	11	11	10	10	10	25	11	11	11			
HOURLY AVG	4.5	4.6	4.6	4.6	4.6	4.7	4.9	5.0	4.8	4.8	4.9	4.6	4.6	4.6	4.8	4.6	4.3	4.4	4.6	4.6	5.2	4.6	4.5	4.6			

STATUS FLAG CODES

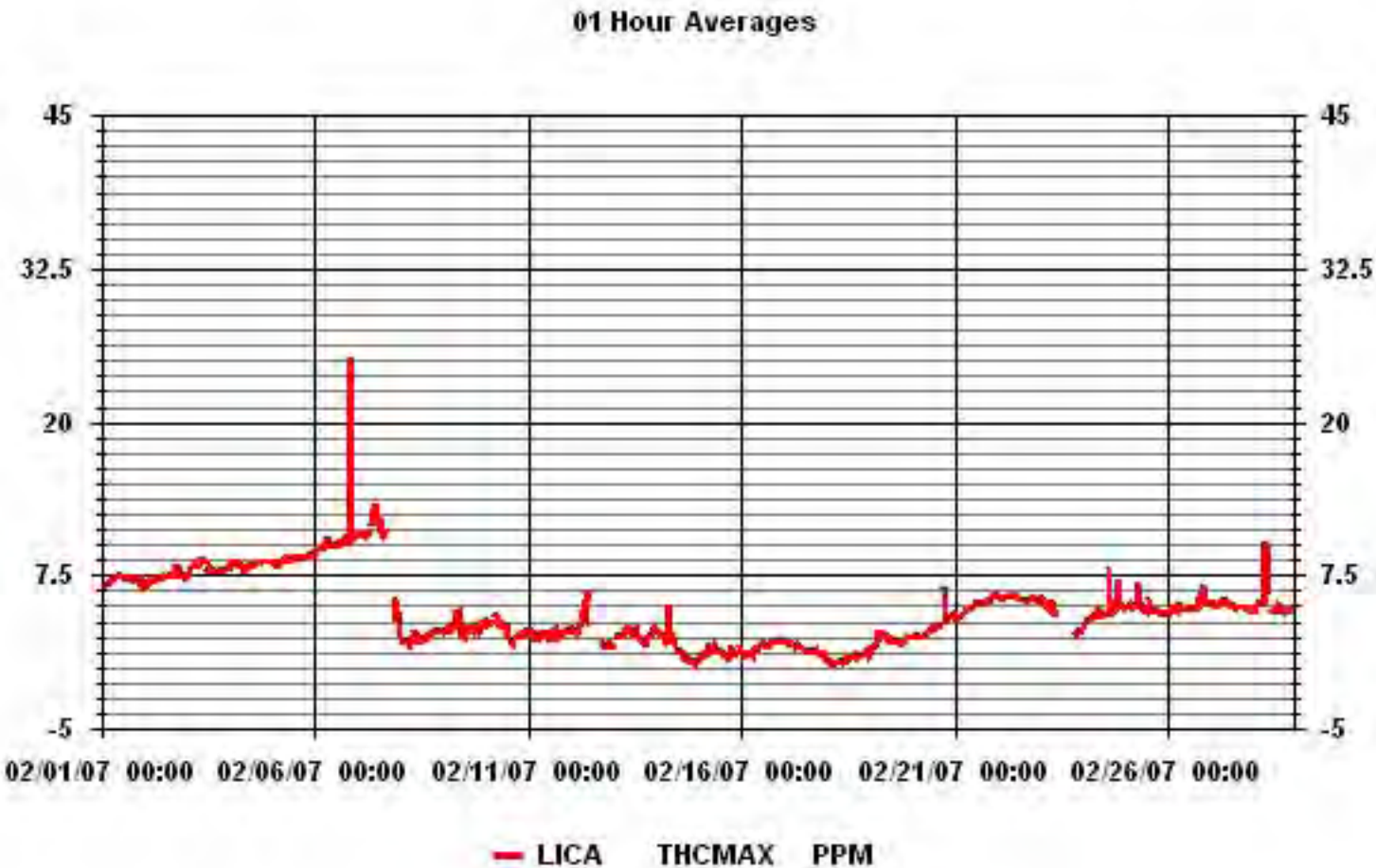
S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	617					
MAXIMUM INSTANTANEOUS VALUE:	25.3	PPM	@ HOUR(S)	21	ON DAY(S)	6

IZS CALIBRATION TIME:	32	HRS	OPERATIONAL TIME:	669	HRS
MONTHLY CALIBRATION TIME:	20	HRS			
STANDARD DEVIATION:	2.89				

MOUNTAIN STANDARD TIME



MAXXAM ANALYTICS INC

PARTICULATE MATTER 2.5

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

FEBRUARY 2007

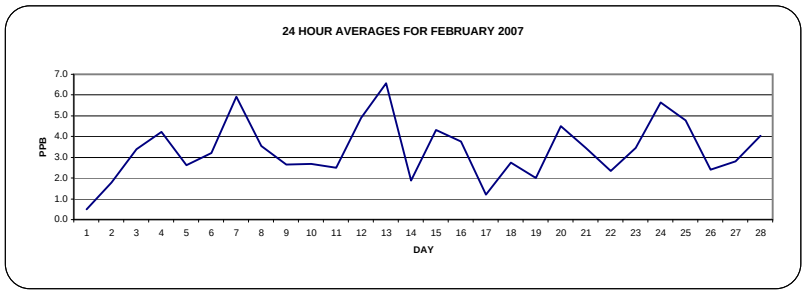
PARTICULATE MATTER 2.5 (PM2.5) hourly averages in ug/m^3

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	1.3	1	2.2	2.3	2.2	1.4	0.3	0	0	0	0.6	0	0	0	0	0	0	0	0	0.1	0.3	0.2	0	0.1	2.3	0.5	24
2	0.2	0.7	1.7	1.1	1.3	1.8	1.7	1.8	2.2	2.1	1.2	1.1	1.5	1.4	1.5	1.3	1.2	1.5	4.3	2.6	3.2	2.3	2.6	2.9	4.3	1.8	24
3	2.5	2.4	3.4	3.2	4.1	4.2	3.9	3.6	4.3	5.4	3.8	2.5	2.2	2.3	2.3	2.9	3.1	3.3	2.5	2.5	3.5	3.9	3.9	6	6.0	3.4	24
4	4.2	7.1	6.6	4.5	4.2	4.9	5.3	4.3	3.3	2.2	4.5	5.1	8.6	6	4	1.7	3.2	2.9	3.4	3.9	2.6	2.4	3.8	2.8	8.6	4.2	24
5	1.7	2.2	1.3	1.4	1.5	0.7	0.9	2.5	3.4	2.1	2.7	0.7	1.5	1	3.2	4.2	4.6	4.4	4.7	3.7	2.4	3.4	3.6	4.8	4.8	2.6	24
6	4.7	0.7	2.8	1.9	2.5	1.7	1.6	3.1	4.7	3.2	2.2	2.1	1.5	1.9	1.3	2.3	4	2.9	3.7	5.3	7.7	5	4.6	5.4	7.7	3.2	24
7	5.9	6	7.6	5.5	7.4	5.6	7.7	5.1	8.7	12.1	12.1	7.1	9.9	3.7	2.8	1.7	1.2	4.2	3.5	3.8	4.8	4	5.4	6	12.1	5.9	24
8	4.3	3.7	2.3	2.8	5	2.5	1.7	3.2	7.2	8.7	0.3	0.9	1	0.8	1.6	3.8	4.1	3.1	3.4	4.3	5.3	5.2	5	5.2	8.7	3.6	24
9	4.3	3.9	3.3	3.2	1.7	2.7	2.8	4	4.3	8.1	2.4	1.1	1	1.4	3.4	2.7	2.8	1.2	0.2	0.9	1.9	1.8	2.3	2	8.1	2.6	24
10	2.2	2.3	2.6	4.6	3.9	3.8	3.5	2.9	3.1	3.3	2.1	2.3	1.4	0.6	0	1.5	2.8	2	3.5	3.3	2.6	3.6	3.5	3.3	4.6	2.7	24
11	3.9	3.8	4	3.2	0.5	1.4	0.8	1.3	1	1.1	1.5	1.1	1.6	1.1	1.1	1.6	2.9	5.7	5.1	3.6	6.3	2.8	2	2.5	6.3	2.5	24
12	2.1	2.7	2.2	3.1	2.9	3.1	2.8	4.7	7.5	13.7	7.1	3.8	4.1	3.4	3.9	3.4	6.3	6.4	4.4	6.7	5.4	5.7	6.5	5.5	13.7	4.9	24
13	4.7	5.3	5.1	4.9	4.3	4.8	5.7	5.9	9.2	14	11.9	**22.1**	10	5.7	5.8	3.6	5.5	5.2	3.3	3.2	3.8	2.8	5.2	5.5	22.1	**6.6**	24
14	5.1	5.5	0.8	1.1	0	2.4	0	3.8	7.8	9.1	0.7	0	0	0	0	0	0.6	0.4	0.8	0.5	1.1	3.1	1.8	0.8	9.1	1.9	24
15	1.7	2.4	1.5	2.3	0.5	2.6	3.4	7	10.2	12.6	4.2	4.1	2.2	2.5	0.9	1.5	0.9	7.8	10.1	2.6	4.7	4.4	5	8.4	12.6	4.3	24
16	7.3	4.9	3.3	4.6	4.5	2.6	2.1	1.6	3.3	2.3	2	2.1	2.8	**C**	**C**	4.1	7.3	2.6	1.7	3	6	4.8	6.1	3.9	7.3	3.8	24
17	0.1	2.1	0.7	1.1	0	0	0.5	0.6	0.9	1.1	1.4	2.4	4	2.1	3.8	1.8	0.3	1.7	1	1.9	0	0	0.2	1.1	4.0	1.2	24
18	0.8	0	0	0	1.2	1.5	0	0.6	6.3	2.4	3.7	4.9	5.4	6.2	5.6	7.1	7.6	5	0	0.5	1.4	0.8	2.9	2	7.6	2.7	24
19	1.1	0.1	2.1	2	3.2	3	2.2	3.3	3.6	3.4	2	2.9	1.7	1	2.2	2.2	2.9	2.4	1.8	1.2	0.3	1.2	1.4	1.1	3.6	2.0	24
20	0.2	2.5	2.3	2	2.4	1.7	3.6	3.4	2.4	4	**C**	3.3	5.6	5.2	6	7.4	2.9	4.8	3.6	8.6	8.9	7.1	7.2	8.3	8.9	4.5	24
21	6.3	1.3	1.6	1.7	2.6	0.8	2.1	2.9	4.6	2.7	4.6	3.8	4.6	4.3	3.3	3.5	3.2	3	3.4	3.4	3.1	4.8	5.2	6.3	6.3	3.5	24
22	7.1	5.8	1.7	3	1.4	1.1	1	2.8	2.7	1.9	2.1	1.4	1.4	2.6	2.6	1.9	2.2	1.8	2.6	1.5	2.4	2.4	1.8	1.2	7.1	2.4	24
23	1.4	1.5	0.8	2.4	1.4	2.6	2.7	2.7	3	3.4	3.3	4.4	**C**	4.1	3.3	3.6	4.5	4.1	5	6.3	4.9	5.2	4.4	4.6	6.3	3.5	24
24	2.6	1.9	3.5	5.1	3.5	2	4.8	6.9	9.3	13.2	5.8	4.2	4.1	4.6	4.2	5.1	4.1	4.2	4.3	7.1	7.4	6.7	12.1	8.4	13.2	5.6	24
25	6.9	5.8	6.7	6.1	6.4	5.7	4	5.2	5.8	8.7	3.1	2.6	3.2	3.5	4.5	5.4	5.3	5.6	4	3.9	3.8	3.6	2.8	1.9	8.7	4.8	24
26	2.1	2.1	1	1.4	2.6	1.9	1.8	1.9	2	2.6	3.5	0.7	0.8	1.9	1.4	1.3	1.2	2.3	1.3	2.9	5.4	3.5	6.4	5.4	6.4	2.4	24
27	3.9	0.9	1.5	2.1	0.1	0.2	0.1	0.5	2.7	3	0	0.2	0.5	1.7	2.1	**P**	2.2	**P**	**P**	10.4	7	6.6	8.8	4.6	10.4	2.8	21
28	7.8	4.9	5.8	6	5.8	5.5	3.9	5.8	6.1	3.3	2.2	2.7	2	2.9	2.5	3.2	3.3	3.4	4.4	3.4	2.4	2.9	3.3	3.7	7.8	4.1	24
HOURLY MAX	8	7	8	6	7	6	8	7	10	14	12	22	10	6	6	7	8	8	10	10	9	7	12	8			
HOURLY AVG	3.4	3.0	2.8	3.0	2.8	2.6	2.5	3.3	4.6	5.3	3.4	3.2	3.1	2.7	2.7	2.9	3.2	3.4	3.2	3.6	3.9	3.6	4.2	4.1			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

OBJECTIVE LIMIT: **ALBERTA ENVIRONMENT:** 1-HR - PPB 24-HR 30 PPB

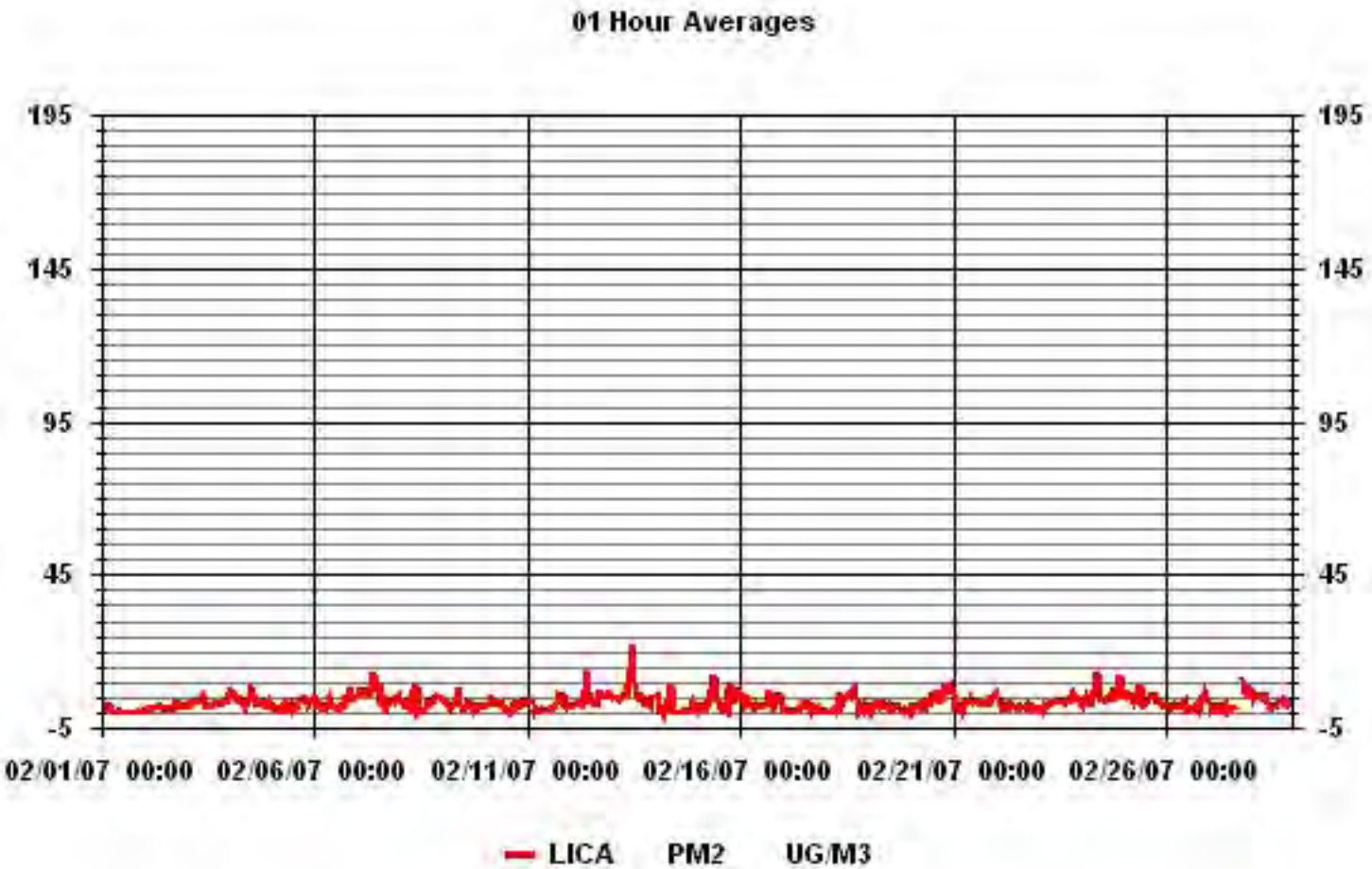


MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	-					
NUMBER OF 24-HR EXCEEDENCES:	0		PROPOSED GUIDELINE			
NUMBER OF NON-ZERO READINGS:	635					
MAXIMUM 1-HR AVERAGE:	22	UG/M^3	@ HOUR(S)	12	ON DAY(S)	13
MAXIMUM 24-HR AVERAGE:	6.6	UG/M^3			ON DAY(S)	13

IZS CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	669	HRS
MONTHLY CALIBRATION TIME:	4	HRS	AMD OPERATION UPTIME:	99.6	%
STANDARD DEVIATION:	2.45		MONTHLY AVERAGE:	3.35	UG/M^3

MOUNTAIN STANDARD TIME



MAXXAM ANALYTICS INC

LICA
PM2 / WD Joint Frequency Distribution (Percent)

February 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : PM2
Units : UG/M3

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

	Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
<	30.0	2.04	3.93	8.17	4.55	21.85	8.49	3.14	1.41	3.93	4.71	11.32	10.37	4.08	3.77	4.24	3.93	100.00
<	60.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
<	80.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
<	120.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
<	240.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>=	240.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	Totals	2.04	3.93	8.17	4.55	21.85	8.49	3.14	1.41	3.93	4.71	11.32	10.37	4.08	3.77	4.24	3.93	

Calm : .00 %

Total # Operational Hours : 636

Distribution By Samples

Direction

	Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
<	30.0	13	25	52	29	139	54	20	9	25	30	72	66	26	24	27	25	636
<	60.0																	
<	80.0																	
<	120.0																	
<	240.0																	
>=	240.0																	
	Totals	13	25	52	29	139	54	20	9	25	30	72	66	26	24	27	25	

Calm : .00 %

Total # Operational Hours : 636

Logger : 01 Parameter : PM2

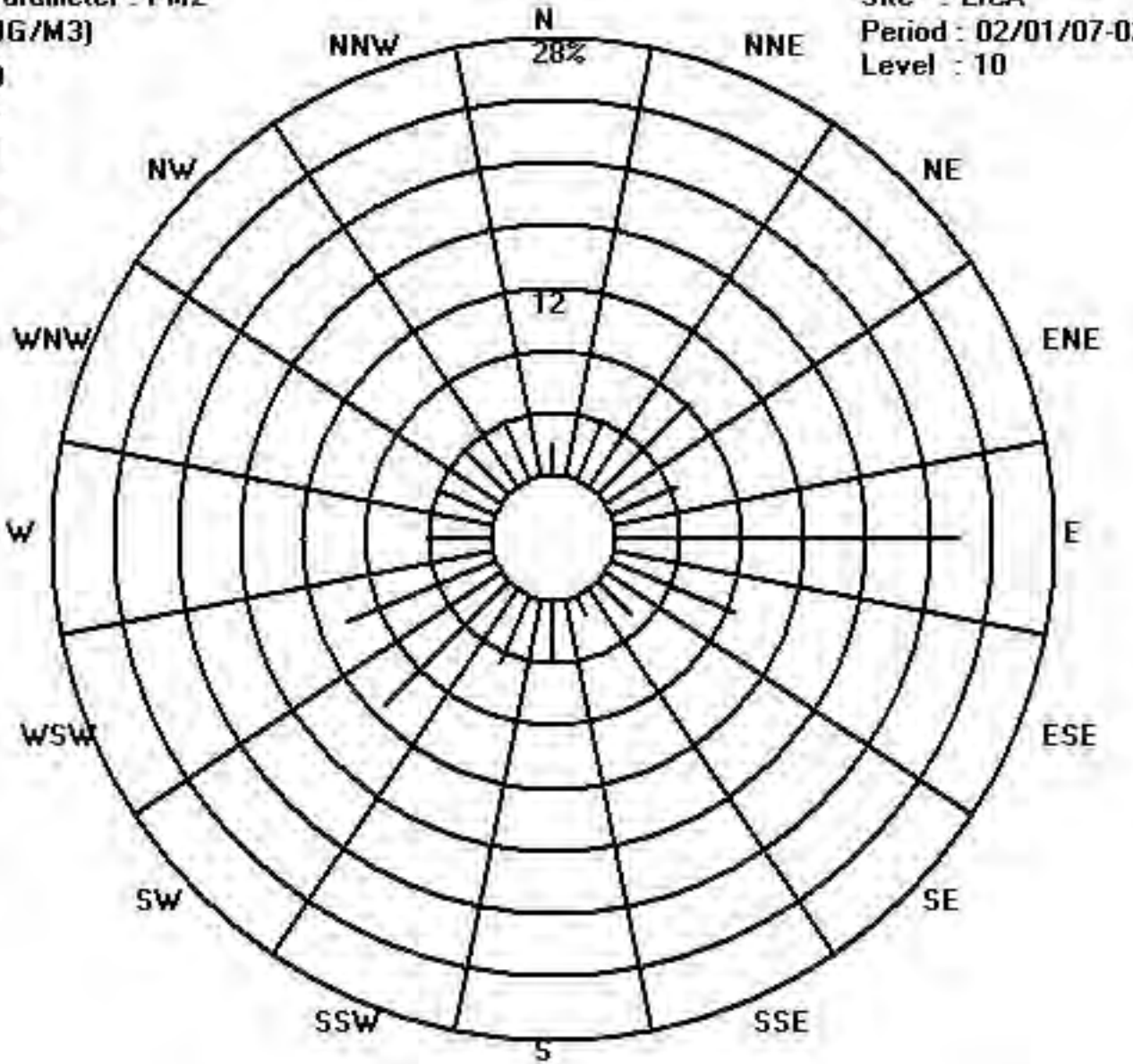
Class Limits (UG/M3)

>= 240.0
< 240.0
< 120.0
< 80.0
< 60.0
< 30.0

Site : LICA

Period : 02/01/07-02/28/07

Level : 10



LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

FEBRUARY 2007

PARTICULATE MATTER 2.5 MAX instantaneous maximum in ug/m^3

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	5.3	5.3	6.1	6.1	6.1	4.8	3.4	2.7	4.1	3	5.3	2.7	1.9	1.8	2.5	1.8	1.6	2.4	4	4.1	4	3.5	2.8	4.2	6.1	3.7	24
2	4.1	4.6	6.7	4	5.2	5.9	4.8	5.1	5	5.5	4.4	4.1	5.2	5	4.9	4.7	4.1	5	10.2	7.2	7.1	5.2	6.7	7.4	10.2	5.5	24
3	7	6.9	7.4	8.2	8.4	9.2	9	9.5	8.7	10.3	7.9	8.2	6.7	6	6.9	6.6	7.6	9	8.2	6.5	7.2	8.5	9.6	10.1	10.3	8.1	24
4	8.3	14.1	11.2	9.4	11	9.7	9.6	9.2	7.2	7.2	11.4	10.7	12.9	11.5	8.2	5.5	7.4	6.5	7.7	8.5	5.3	6.7	7.7	6.7	14.1	8.9	24
5	6.1	6.3	4.7	5.3	6	4.2	5.3	7.3	7.9	6.6	6.3	5.2	6.4	5.1	6.1	8.9	7.9	8.9	9.2	8.1	6.3	7.5	7.1	9.5	9.5	6.8	24
6	9.4	5.7	7	6.1	6.7	6.3	6	7.3	9.4	6.9	7.6	6.9	6.8	7.3	4.7	6.8	10.5	6.5	8.2	10	16.5	9.1	10.2	9.9	16.5	8.0	24
7	10.5	10.1	14.4	9.9	12	9.7	10.6	10	14	17.4	16.9	11.5	16.8	8.6	8.6	6.4	5.1	7.9	6.8	6.9	10.8	8	12.6	14.2	17.4	10.8	24
8	9.1	9	6.9	8	9.6	8.6	6.8	10.1	13.7	14.2	4.9	5.6	4.1	5.1	6.1	7.9	7.6	6.3	7.2	8.1	10	8.9	9.5	9.7	14.2	8.2	24
9	8.2	7.2	7.8	7.8	5.7	6.5	7.4	8.2	9	13	13.6	5.2	4.6	6.7	10.2	7.3	7.3	4.1	4.7	5	6.7	5.2	6.5	6.5	13.6	7.3	24
10	6.3	6.3	8.4	9.6	8.4	8.3	8.5	6.8	6.8	7.9	5.9	5.3	5.1	4.2	4.7	6.6	6.7	5.3	7.6	6.9	6.8	6.4	7.6	7.6	9.6	6.8	24
11	9.6	8.2	7.7	7.1	3.7	5.2	3.7	4.4	4.1	4	4.4	4.2	4.5	4.7	3.9	4.4	9.6	12.3	11	10.6	14.2	9.2	5.5	7.4	14.2	6.8	24
12	6.1	7.9	7	7.1	6.8	7.9	7.4	9.7	14.4	19.9	13.1	9.1	7.4	5.8	7.9	7.8	9.2	10.5	8.2	13.9	9.2	9.5	10.5	11	19.9	9.5	24
13	9.9	11.9	10.5	9.3	8.4	9	10.1	10.2	16.1	23.1	28.6	**44.8**	14.2	9.7	9	7.3	8.6	10.2	7.4	7.1	7.8	9.5	9.2	10.2	44.8	12.6	24
14	10.3	10.8	5.3	6.7	5	8	4.2	11.5	15.5	21.8	6.9	3.9	2.9	2.3	3.9	2.5	4	3.5	3.7	3	5.2	9.5	5.3	8.3	21.8	6.8	24
15	5	5.8	5.3	5.2	5.1	6.4	8.9	12	16.7	19.8	8	9.2	6.3	4.7	4.1	6.9	4.9	15.2	16.3	6.8	7.8	6.5	8.3	12.9	19.8	8.7	24
16	11	7.8	5.6	7.3	7.1	6.8	5.8	5.3	7.2	5.8	5.3	4.7	6	**C**	**C**	7.1	32.6	5.5	6.7	7.3	10.7	9.1	12.6	9.4	32.6	8.5	24
17	3.9	6.9	4.5	5.1	3.2	3.4	5.3	4.7	4.4	4.5	4.5	6.5	11.5	4.7	10.3	7.3	4.2	4.7	5.2	9.6	2.9	2.9	3.9	8.2	11.5	5.5	24
18	8.3	1.8	2.9	7.2	5.3	8.3	3.8	6.1	11.6	5.6	8	9.5	9.5	9.5	8.7	10.7	9.7	8.6	4	5.7	5	5	6.7	4.8	11.6	6.9	24
19	4	4	5.1	6.3	6.2	6.5	6.3	7.3	7.2	7.3	5.3	6.3	5.6	5.3	5.8	5.3	5.9	7.9	4.7	4.2	3.4	4.8	4.2	4.3	7.9	5.6	24
20	3.7	6.3	5.6	6.4	8	5.8	7.6	7	6.5	7.1	**C**	6.5	13.4	9.1	8.7	10.2	7.8	9.5	8.7	13.7	13.9	10.2	10.1	11.4	13.9	8.6	24
21	9.7	4.9	4.1	4.7	6.2	5.5	6.9	7.2	11.2	6.3	7.4	7.7	7.5	7.4	7.5	6.2	7.2	5.3	6.3	6.3	6.3	8.3	9.5	10	11.2	7.1	24
22	11.9	9.8	6.1	6.9	5.6	5.3	5.3	7.1	8.3	6.4	5.5	4.9	5.7	5.6	6.9	6.6	5.8	4.7	6.2	4.4	5.1	4.9	5.7	4.5	11.9	6.2	24
23	4.2	5.7	5.8	7.8	4.1	8.7	5.3	5.4	6.3	7.1	6.7	7.4	**C**	6.4	6.1	6.8	6.8	6.8	6.9	9.8	8.2	7.9	7.7	7.9	9.8	6.8	24
24	6.2	7.2	6.7	9.5	6.9	5.1	8.2	11.3	15.2	16.2	13.4	9.2	7.6	8.1	7.2	7.9	7.4	6.7	7	19.2	10.8	10.5	18.1	11.3	19.2	9.9	24
25	9.5	9.1	9.3	8.3	9.8	8.7	6.4	9.7	10.9	13.9	8	9.3	6.2	6.1	6.4	7.8	7.8	8.6	6.7	6.7	6.4	6.4	5.3	4.7	13.9	8.0	24
26	4.9	4.5	3.7	3.9	5.6	4.6	4.5	4.4	4.2	5.1	11	4.1	3.6	4.8	4	3.7	4.1	6.3	5.6	7.7	17	8.9	14.6	10.8	17	6.3	24
27	7.5	3.7	4.3	5.1	4.1	2.7	3.2	3.5	7.1	6.4	2.5	2.9	3.6	4.2	4.7	**P**	4.8	**P**	**P**	17.7	11.3	10.8	16.9	8.5	17.7	6.5	24
28	11.6	9.8	10.7	9.4	8.7	8.6	7.3	11.5	9.7	11	4.6	5.8	5.1	6.2	5.7	5.6	6.3	6.3	6.9	6.2	5.1	5.3	6.3	8.9	11.6	7.6	24
HOURLY MAX	12	14	14	10	12	10	11	12	17	23	29	45	17	12	10	11	33	15	16	19	17	11	18	14			
HOURLY AVG	7.6	7.2	6.8	7.1	6.7	6.8	6.5	7.7	9.4	10.1	8.4	7.9	7.1	6.1	6.4	6.5	7.6	7.2	7.2	8.3	8.3	7.4	8.6	8.6			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

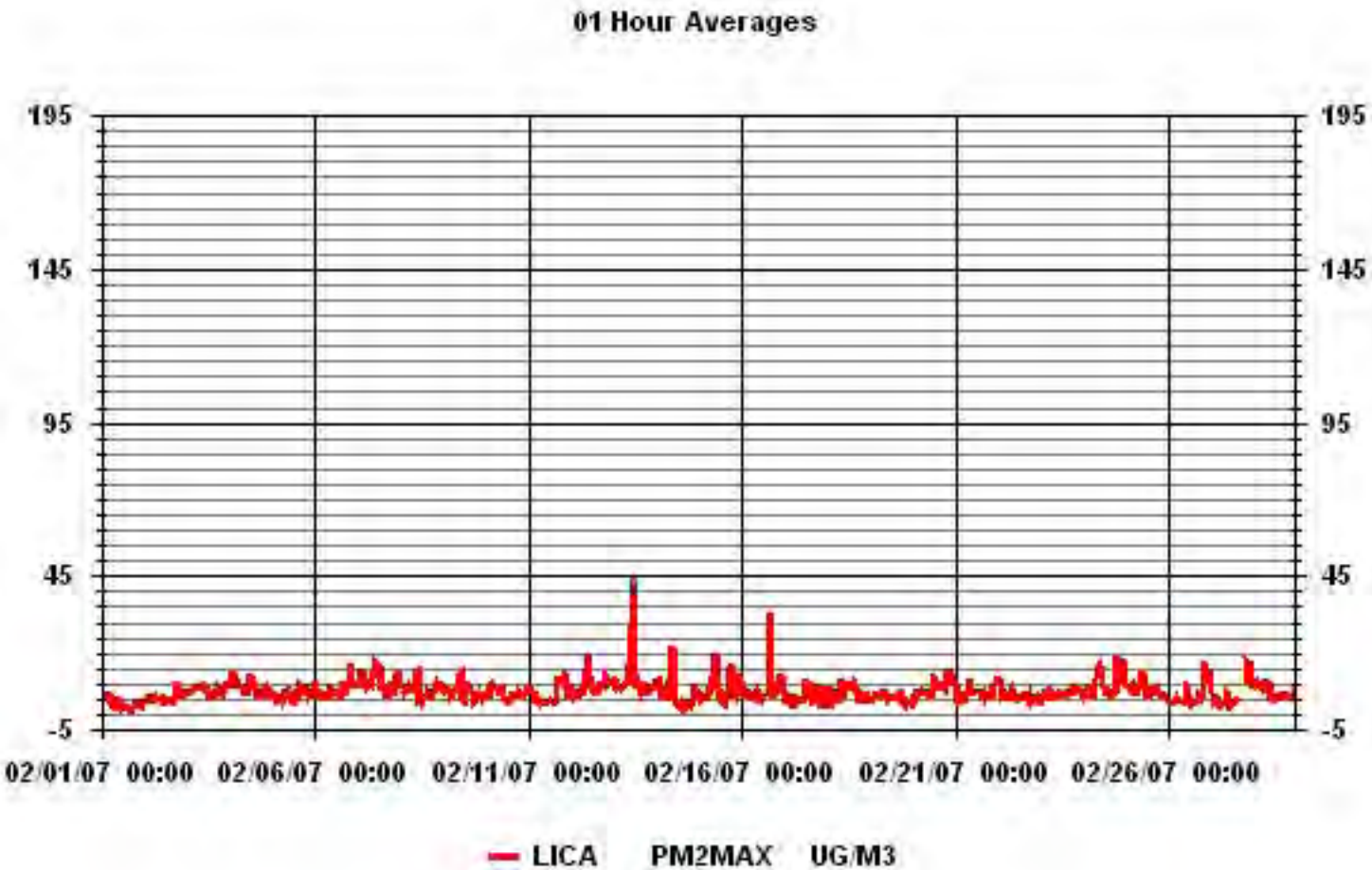
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	665					
MAXIMUM INSTANTANEOUS VALUE:	44.8	UG/M^3	@ HOUR(S)	12	ON DAY(S)	13

IZS CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	672	HRS
MONTHLY CALIBRATION TIME:	4	HRS			
STANDARD DEVIATION:	3.62				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc



MAXXAM ANALYTICS INC

NO_2

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

FEBRUARY 2007

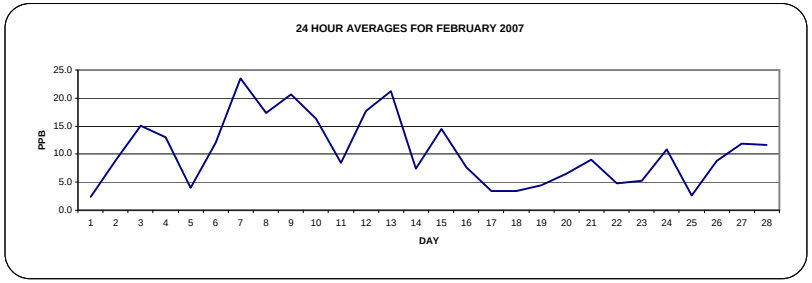
NITROGEN DIOXIDE hourly averages in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	0	0	1	3	2	3	1	7	5	3	2	2	1	**IZS**	2	3	3	2	3	2	2	2	3	3	7	2.4	24
2	3	2	2	1	1	1	2	4	3	2	1	0	**IZS**	0	2	2	3	16	36	29	26	25	24	20	36	8.9	24
3	19	17	19	19	17	19	20	21	18	12	5	**IZS**	3	4	4	4	5	5	15	24	19	25	27	26	27	15.1	24
4	25	28	27	31	30	29	26	16	12	9	**IZS**	5	4	4	4	5	12	10	4	5	4	3	3	3	31	13.0	24
5	4	3	3	2	3	3	3	3	5	**IZS**	6	3	3	4	5	5	5	6	7	5	6	4	2	2	7	4.0	24
6	2	1	2	1	1	1	8	27	**IZS**	2	1	1	1	3	4	6	10	23	32	31	30	28	30	30	32	12.0	24
7	30	31	31	30	32	31	34	**IZS**	30	24	20	13	18	10	8	5	9	14	21	32	31	29	29	29	34	**23.5**	24
8	27	25	23	19	14	7	**IZS**	19	23	14	2	2	2	1	4	8	13	19	25	31	31	29	29	31	31	17.3	24
9	29	30	28	28	25	**IZS**	28	28	24	19	10	5	3	8	7	10	11	20	34	22	29	23	26	27	34	20.6	24
10	27	25	26	28	**IZS**	26	29	27	21	17	11	9	8	6	6	5	8	11	10	13	14	14	18	16	29	16.3	24
11	19	19	18	**IZS**	6	5	4	5	5	4	2	2	2	1	1	3	5	10	8	12	17	16	12	17	19	8.4	24
12	11	11	**IZS**	12	12	17	27	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	5	5	4	15	24	32	29	26	28	26	32	17.8	24
13	26	**IZS**	26	27	26	26	28	28	25	20	14	18	14	5	6	6	13	29	29	24	21	21	28	29	29	21.3	24
14	**IZS**	25	10	9	6	5	15	31	27	14	2	1	1	1	1	2	2	2	2	2	2	2	2	**IZS**	31	7.5	24
15	2	2	3	3	4	13	27	20	31	10	6	5	4	3	3	4	10	35	**39**	29	26	28	**IZS**	27	39	14.5	24
16	14	4	4	3	3	2	2	2	5	3	2	2	2	1	1	2	3	8	11	29	27	**IZS**	30	17	30	7.7	24
17	9	12	4	4	3	2	4	4	5	3	3	2	2	2	2	2	3	3	3	2	**IZS**	2	1	1	12	3.4	24
18	2	1	1	1	1	2	5	8	8	1	3	2	4	4	4	6	9	4	1	**IZS**	2	2	4	3	9	3.4	24
19	2	5	6	6	7	8	8	8	7	7	4	4	2	2	2	2	4	5	**IZS**	4	3	3	3	1	8	4.5	24
20	2	2	2	2	2	2	3	3	3	2	1	2	3	3	3	4	4	**IZS**	19	23	20	19	14	12	23	6.5	24
21	10	2	2	2	2	2	2	2	3	5	4	2	2	3	4	6	**IZS**	11	24	21	24	26	23	25	26	9.0	24
22	26	12	3	3	5	5	6	9	4	2	2	2	2	2	2	**IZS**	4	4	4	3	3	2	2	2	26	4.7	24
23	1	1	1	1	2	2	3	6	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	14	10	17	17	5.3	24
24	8	5	8	9	11	9	21	17	14	8	1	1	2	**IZS**	4	3	3	8	15	24	27	32	14	5	32	10.8	24
25	5	3	3	3	4	4	4	5	6	2	1	1	**IZS**	1	1	1	2	3	4	2	2	1	1	1	6	2.6	24
26	1	1	1	1	1	1	1	2	3	4	2	**IZS**	1	1	1	1	2	11	19	31	28	32	29	27	32	8.7	24
27	22	17	12	6	3	5	8	7	9	6	**IZS**	1	1	1	1	**P**	**D**	**P**	**P**	20	29	28	29	20	29	11.8	20
28	24	20	20	27	30	28	26	24	20	**IZS**	3	1	1	7	4	2	3	6	7	6	2	1	2	4	30	11.7	24
HOURLY MAX	30	31	31	31	32	31	34	31	31	24	20	18	18	10	8	10	13	35	39	32	31	32	30	31			
HOURLY AVG	13.0	11.3	10.6	10.4	9.4	9.6	12.8	12.8	12.6	8.0	4.5	3.6	3.6	3.2	3.4	4.1	6.0	11.2	15.8	17.6	17.5	16.2	15.7	15.6			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

OBJECTIVE LIMIT: **ALBERTA ENVIRONMENT:** 1-HR 212 PPB | 24-HR 106 PPB

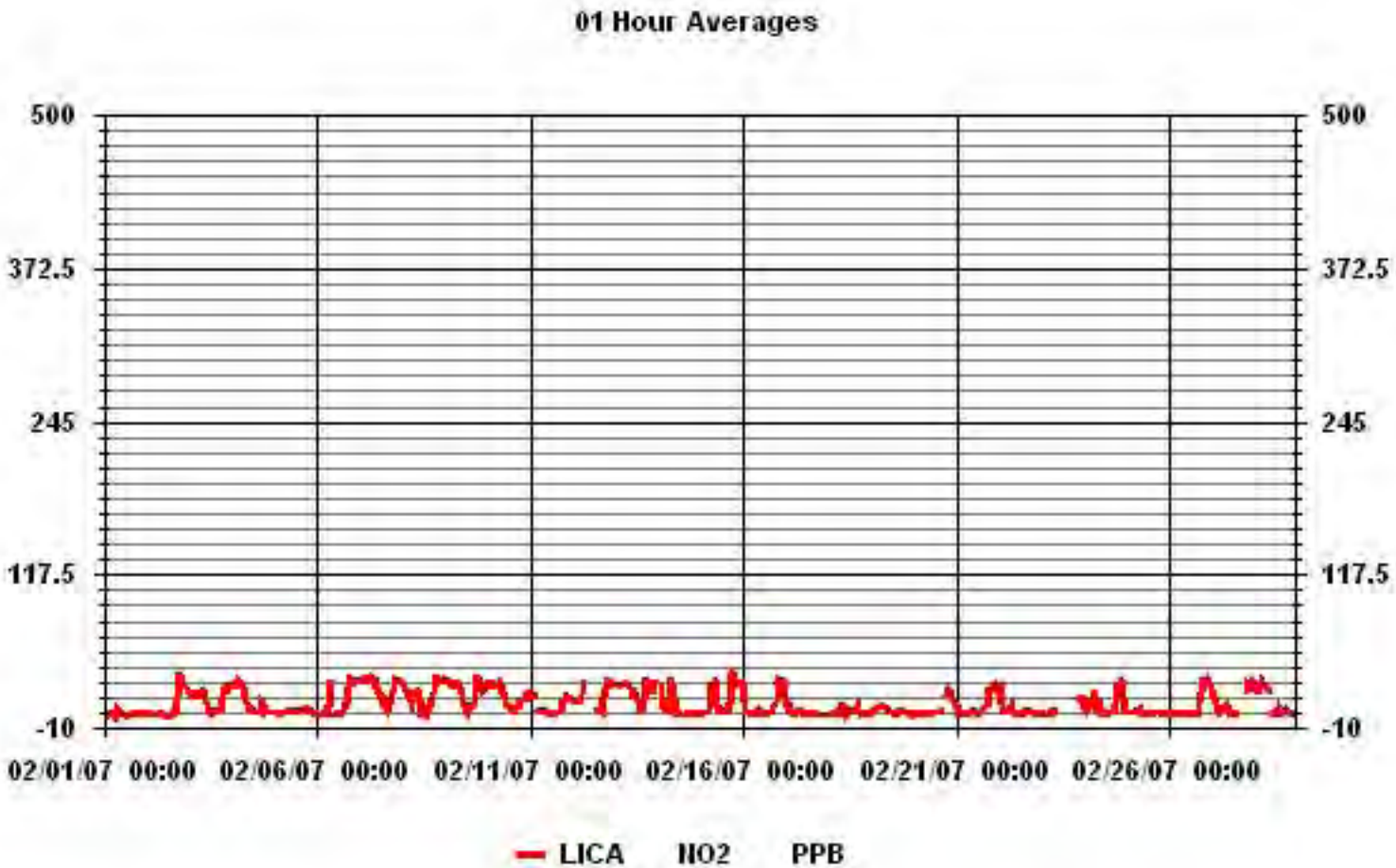


MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0					
NUMBER OF 24-HR EXCEEDENCES:	0					
NUMBER OF NON-ZERO READINGS:	616					
MAXIMUM 1-HR AVERAGE:	39	PPB	@ HOUR(S)	19	ON DAY(S)	15
MAXIMUM 24-HR AVERAGE:	23.5	PPB			ON DAY(S)	7

IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	668	HRS
MONTHLY CALIBRATION TIME:	18	HRS	AMD OPERATION UPTIME:	99.4	%
STANDARD DEVIATION:	10.22		MONTHLY AVERAGE:	10.46	PPB

MOUNTAIN STANDARD TIME



MAXXAM ANALYTICS INC

LICA
NO2 / WD Joint Frequency Distribution (Percent)

February 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : NO2
Units : PPB

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	2.02	3.71	9.12	4.56	20.77	8.78	3.20	1.52	3.71	4.39	11.99	10.47	3.88	3.71	4.39	3.71	100.00
< 110	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.02	3.71	9.12	4.56	20.77	8.78	3.20	1.52	3.71	4.39	11.99	10.47	3.88	3.71	4.39	3.71	

Calm : .00 %

Total # Operational Hours : 592

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	12	22	54	27	123	52	19	9	22	26	71	62	23	22	26	22	592
< 110																	
< 210																	
>= 210																	
Totals	12	22	54	27	123	52	19	9	22	26	71	62	23	22	26	22	

Calm : .00 %

Total # Operational Hours : 592

Logger : 01 Parameter : NO2

Class Limits (PPB)

>= 210

< 210

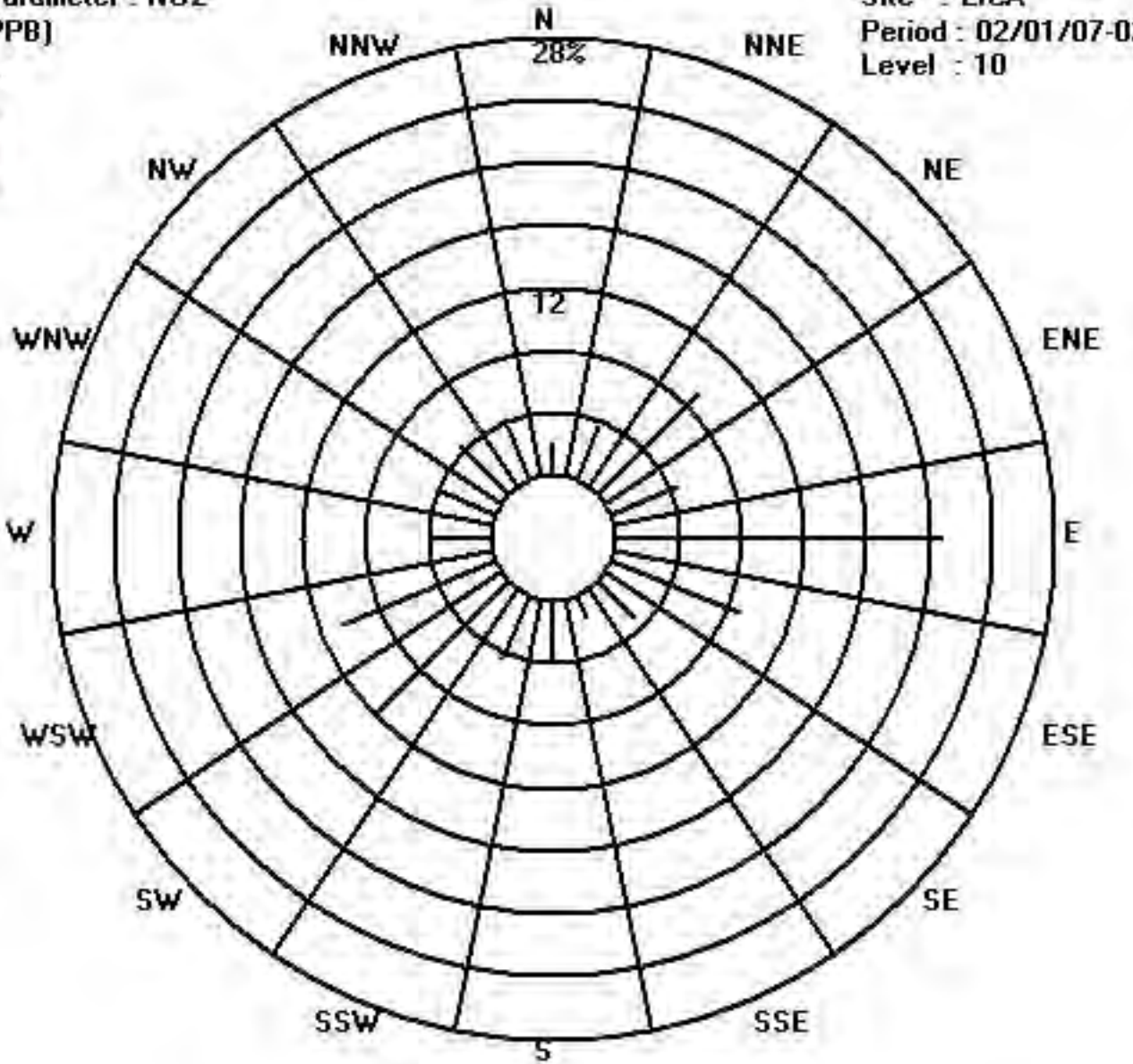
< 110

< 50

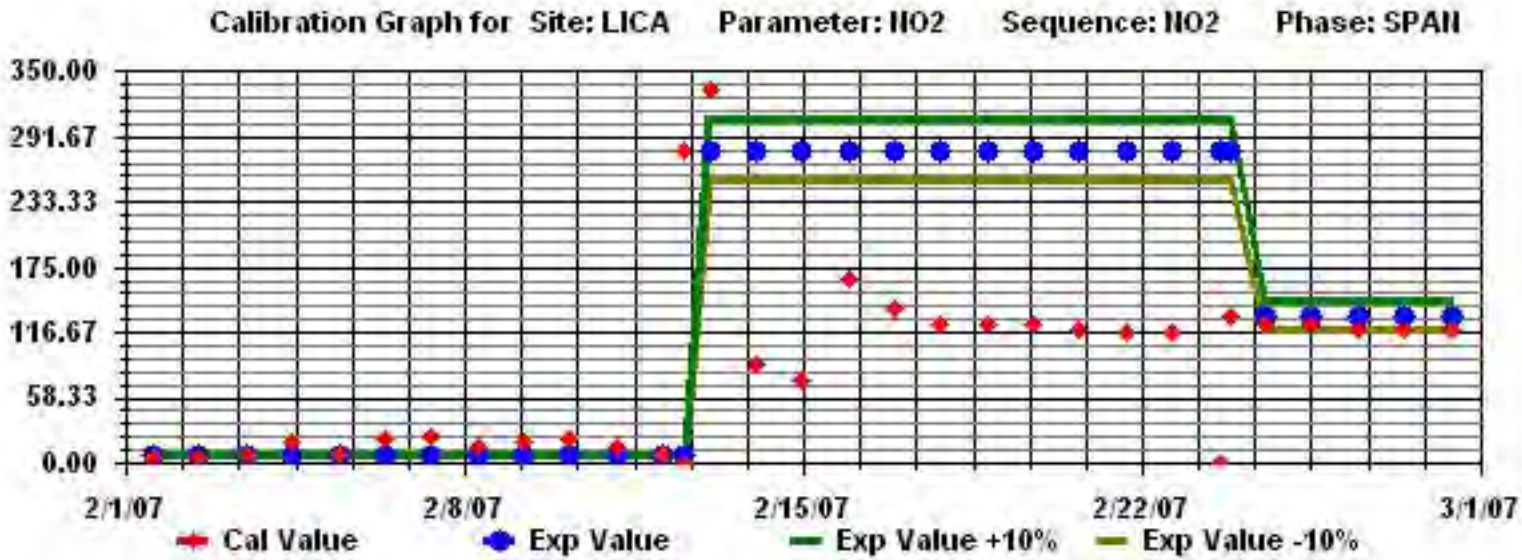
Site : LICA

Period : 02/01/07-02/28/07

Level : 10



MAXXAM ANALYTICS INC



MAXXAM ANALYTICS INC

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

FEBRUARY 2007

NITROGEN DIOXIDE MAX instantaneous maximum in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	1	1	3	3	3	4	2	11	6	5	2	3	2	**IZS**	8	9	3	3	4	4	3	3	5	4	11	4.0	24
2	5	4	3	2	2	2	4	4	5	4	2	1	**IZS**	1	3	3	4	148	155	40	31	29	29	27	155	22.1	24
3	24	20	23	22	21	27	24	26	47	15	7	**IZS**	5	5	5	5	6	8	33	36	28	31	34	32	47	21.0	24
4	29	30	30	37	33	33	33	21	18	55	**IZS**	17	10	9	6	39	46	16	6	6	17	5	8	5	55	22.1	24
5	6	5	4	5	4	5	4	8	9	**IZS**	45	12	5	6	26	8	12	11	13	8	17	23	4	4	45	10.6	24
6	3	3	3	4	2	1	29	40	**IZS**	4	3	4	2	5	5	15	70	42	36	39	37	35	40	33	70	19.8	24
7	32	33	33	32	35	38	41	**IZS**	47	31	24	18	31	18	18	21	15	17	34	37	36	45	36	35	47	30.7	24
8	31	29	29	25	25	12	**IZS**	37	31	24	4	7	3	5	6	12	19	27	37	44	35	37	32	35	44	23.7	24
9	32	33	31	31	29	**IZS**	31	36	28	22	19	7	4	139	11	14	15	45	44	34	38	30	29	29	139	31.8	24
10	31	28	30	32	**IZS**	29	31	30	25	21	13	12	9	7	7	6	10	12	12	19	16	19	43	27	43	20.4	24
11	27	26	20	**IZS**	11	7	6	6	8	7	5	11	33	3	3	13	15	15	15	21	23	25	18	26	33	15.0	24
12	17	18	**IZS**	14	17	22	35	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	8	17	8	37	33	75	33	31	33	30	75	26.8	24
13	29	**IZS**	30	30	29	31	39	35	32	27	30	27	102	11	16	15	24	39	38	33	27	29	34	40	102	32.5	24
14	**IZS**	33	26	25	18	8	29	40	49	35	4	4	4	3	4	6	4	4	4	4	4	4	3	**IZS**	49	14.3	24
15	4	3	4	4	11	27	64	29	49	21	8	7	6	5	5	8	24	46	46	40	33	50	**IZS**	33	64	22.9	24
16	25	5	7	5	6	3	7	4	72	7	5	12	13	4	3	3	10	19	24	68	**161**	**IZS**	83	29	161	25.0	24
17	11	19	11	8	6	3	8	5	28	6	4	11	4	14	4	5	7	4	4	4	**IZS**	4	3	2	28	7.6	24
18	3	4	2	2	3	7	11	15	19	2	29	4	4	9	4	11	15	9	2	**IZS**	4	4	5	4	29	7.5	24
19	4	9	12	8	11	11	9	9	9	12	7	23	3	5	7	4	7	10	**IZS**	6	6	8	4	2	23	8.1	24
20	9	4	4	3	3	4	5	8	6	4	3	4	6	4	5	8	5	**IZS**	28	31	32	25	17	16	32	10.2	24
21	17	3	2	3	3	2	3	5	5	63	22	3	4	4	5	7	**IZS**	19	29	27	41	30	32	27	63	15.5	24
22	42	27	11	5	10	8	20	47	15	4	4	13	3	6	4	**IZS**	7	6	6	5	4	4	4	3	47	11.2	24
23	2	2	2	2	3	4	5	22	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	19	18	27	27	9.6	24
24	13	8	11	11	13	12	29	40	17	13	1	2	5	**IZS**	9	5	4	12	24	67	49	41	35	12	67	18.8	24
25	10	6	6	6	6	5	6	11	10	4	3	8	**IZS**	9	1	3	3	4	4	5	3	2	1	0	11	5.0	24
26	0	0	0	0	2	1	12	17	17	35	4	**IZS**	2	8	7	3	12	22	35	40	38	36	33	32	40	15.5	24
27	28	25	21	12	5	8	12	12	15	30	**IZS**	1	6	1	0	**P**	**D**	**P**	**P**	30	35	33	31	34	35	17.8	20
28	27	25	32	30	32	31	28	28	29	**IZS**	8	3	2	58	42	6	4	10	9	10	7	2	6	12	58	19.2	24
HOURLY MAX	42	33	33	37	35	38	64	47	72	63	45	27	102	139	42	39	70	148	155	75	161	50	83	40			
HOURLY AVG	17.1	14.9	14.4	13.4	12.7	12.8	19.5	21.0	23.8	18.8	10.7	8.9	11.2	14.1	8.2	9.8	14.0	23.4	27.0	28.2	29.2	22.4	23.0	20.7			

STATUS FLAG CODES

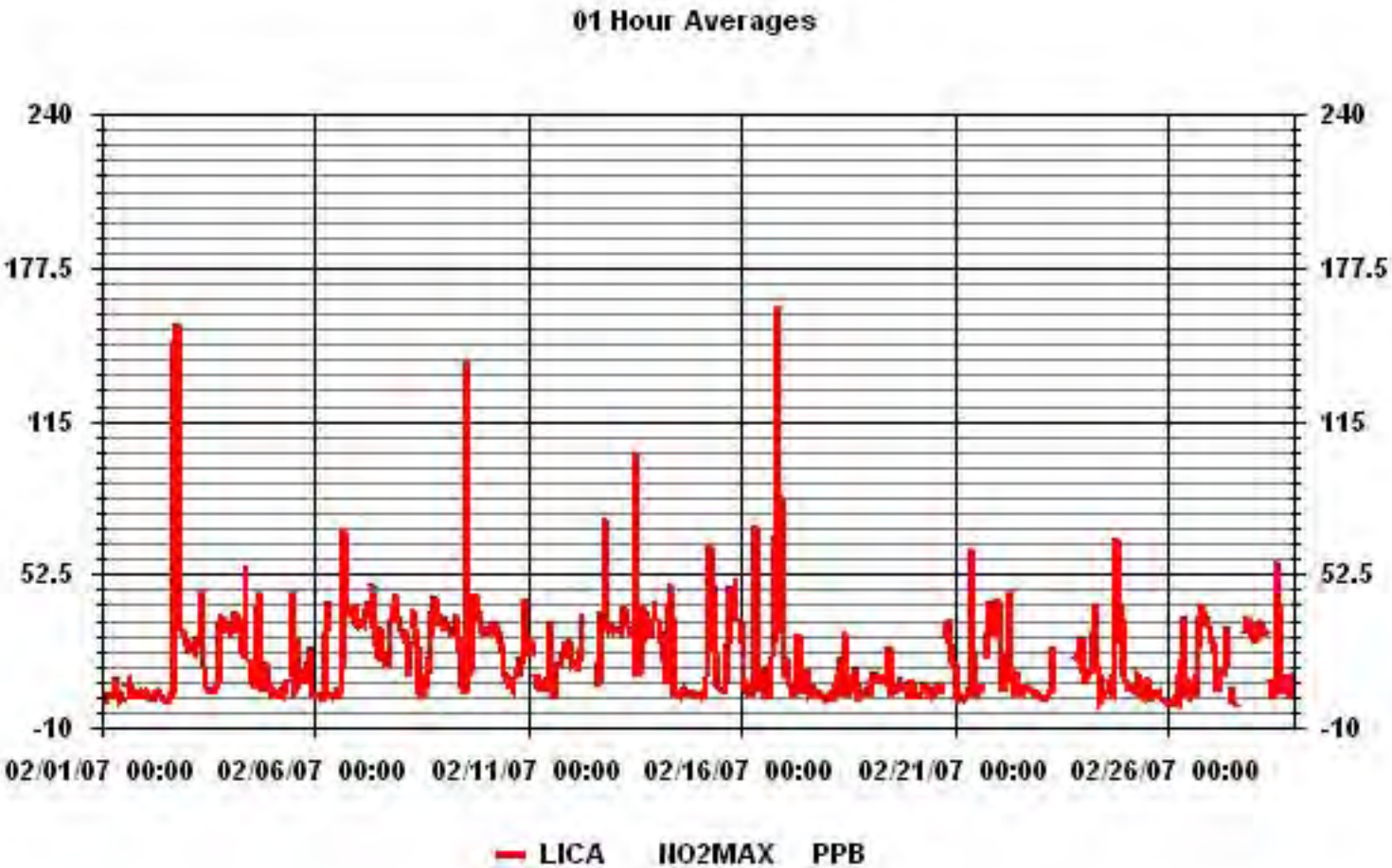
S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	614					
MAXIMUM INSTANTANEOUS VALUE:	161	PPB	@ HOUR(S)	21	ON DAY(S)	16

IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	668	HRS
MONTHLY CALIBRATION TIME:	18	HRS			
STANDARD DEVIATION:	18.34				

MOUNTAIN STANDARD TIME



MAXXAM ANALYTICS INC

NO

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

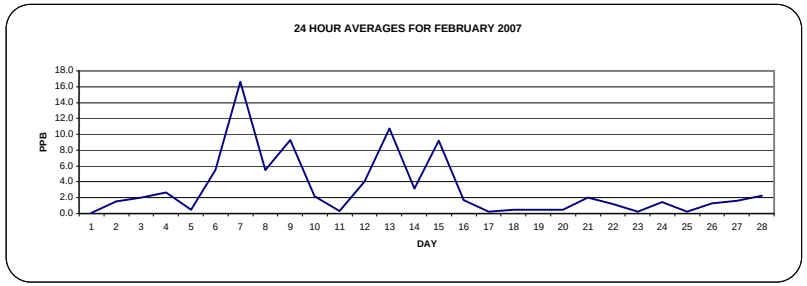
FEBRUARY 2007

NITRIC OXIDE hourly averages in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	0	0	0	0	0	0	0	0	0	0	0	1	0	**IZS**	0	0	0	0	0	0	0	0	0	0	1	0.0	24
2	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	5	18	5	3	1	2	2	18	1.6	24
3	0	0	0	0	0	0	1	2	7	9	4	**IZS**	2	2	2	1	0	0	1	3	0	3	6	4	9	2.0	24
4	2	5	5	13	5	6	2	1	1	5	**IZS**	2	2	2	1	2	7	0	0	0	0	0	0	0	13	2.7	24
5	0	0	0	0	0	0	0	0	0	**IZS**	3	1	1	1	2	1	1	1	1	0	0	0	0	0	3	0.5	24
6	0	0	0	0	0	0	0	19	**IZS**	0	0	0	0	2	2	3	6	5	10	17	18	7	19	18	19	5.5	24
7	22	18	17	18	23	21	37	**IZS**	50	39	27	16	24	9	7	2	1	0	0	10	11	10	11	9	50	**16.6**	24
8	4	1	1	0	2	1	**IZS**	4	22	14	1	1	1	0	2	4	2	1	2	10	12	10	8	23	23	5.5	24
9	18	13	16	15	4	**IZS**	10	27	31	21	9	4	1	7	4	4	2	2	10	1	8	3	2	2	31	9.3	24
10	2	1	2	3	**IZS**	0	0	0	4	8	8	8	6	4	2	1	0	0	0	0	0	0	1	0	8	2.2	24
11	0	0	0	**IZS**	0	0	0	0	0	1	1	1	0	0	0	1	1	1	1	0	1	0	0	0	1	0.3	24
12	0	0	**IZS**	0	0	0	8	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	1	0	0	1	3	16	11	7	11	7	16	4.1	24
13	4	**IZS**	3	6	6	6	15	19	39	34	19	27	18	5	6	3	4	5	4	1	0	1	10	12	39	10.7	24
14	**IZS**	11	0	0	0	0	1	16	26	14	1	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	26	3.1	24
15	0	0	0	0	0	1	7	2	37	5	4	3	3	2	1	1	2	36	**68**	14	5	9	**IZS**	12	68	9.2	24
16	1	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	19	7	**IZS**	6	0	19	1.7	24
17	0	0	0	0	0	0	0	0	2	0	0	1	1	0	0	1	0	0	0	0	**IZS**	0	0	0	2	0.2	24
18	0	0	0	0	0	0	0	0	2	0	1	1	2	2	1	1	1	0	0	**IZS**	0	0	0	0	2	0.5	24
19	0	0	0	0	0	0	0	0	1	2	1	4	1	1	1	0	1	0	**IZS**	0	0	0	0	0	4	0.5	24
20	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	**IZS**	1	3	2	0	0	0	3	0.5	24
21	0	0	0	0	0	0	0	0	0	8	4	1	1	1	1	2	**IZS**	1	2	0	3	10	4	9	10	2.0	24
22	15	2	0	0	0	0	1	3	1	1	0	1	1	1	1	**IZS**	0	0	0	0	0	0	0	0	15	1.2	24
23	0	0	0	0	0	0	0	2	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	0	0	1	2	0.3	24
24	0	0	0	0	0	0	1	2	7	5	0	1	1	**IZS**	2	1	0	0	0	2	3	7	2	0	7	1.5	24
25	0	0	0	0	0	0	0	0	2	1	1	1	**IZS**	0	0	0	0	0	0	0	0	0	0	0	2	0.2	24
26	0	0	0	0	0	0	0	0	0	2	1	**IZS**	0	0	1	0	0	0	0	6	4	9	5	2	9	1.3	24
27	1	0	0	0	0	0	0	0	3	4	**IZS**	1	1	0	0	**P**	**D**	**P**	**P**	0	3	4	12	2	12	1.6	20
28	1	0	1	7	8	5	1	7	11	**IZS**	2	1	1	5	2	0	0	0	0	0	0	0	0	0	11	2.3	24
HOURLY MAX	22	18	17	18	23	21	37	27	50	39	27	27	24	9	7	4	7	36	68	19	18	10	19	23			
HOURLY AVG	2.6	1.9	1.7	2.3	1.8	1.5	3.1	4.0	10.1	7.2	3.6	3.2	2.8	1.9	1.5	1.2	1.1	2.3	4.8	4.1	3.5	3.0	3.7	3.8			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE



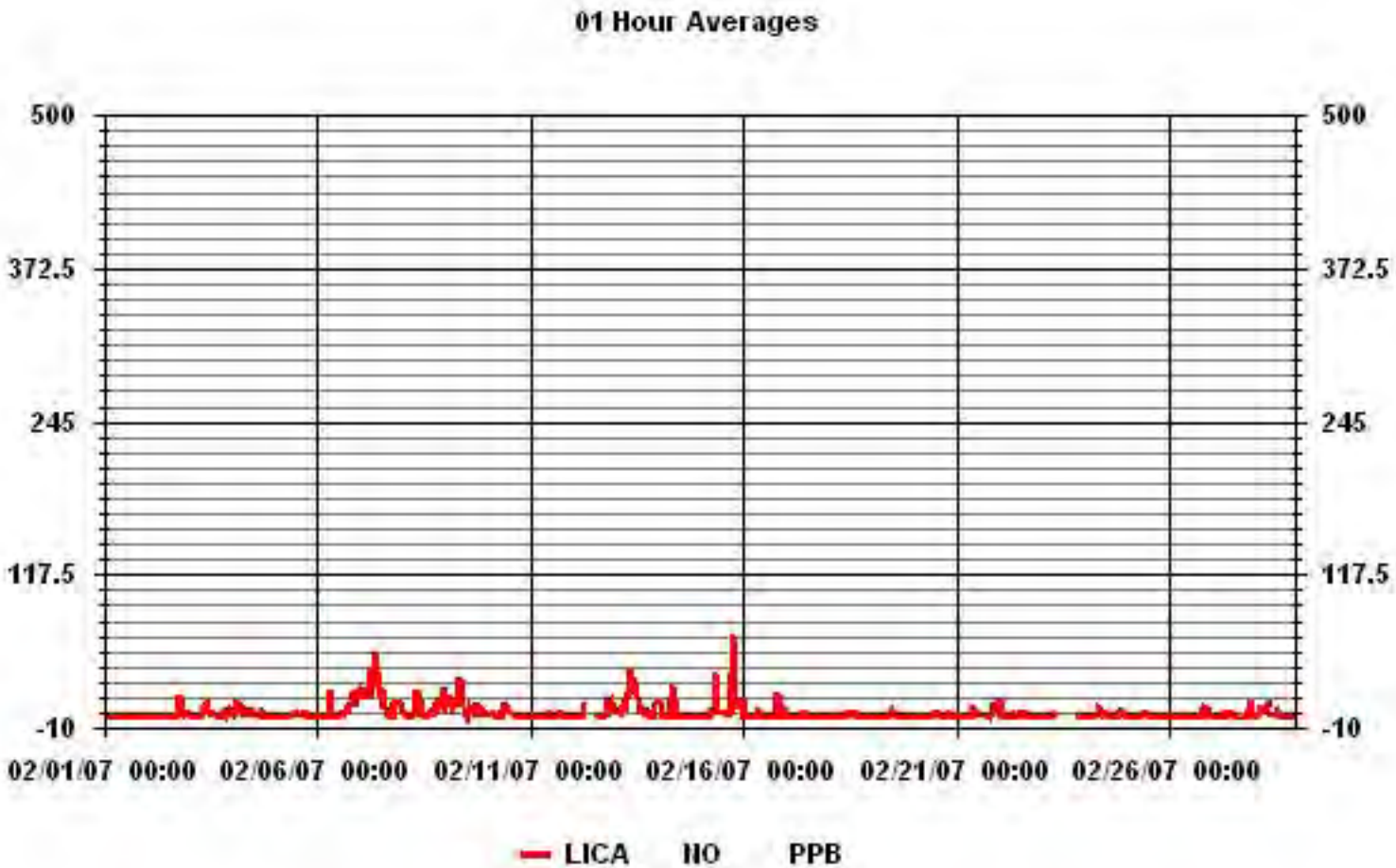
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	304					
MAXIMUM 1-HR AVERAGE:	68	PPB	@ HOUR(S)	19	ON DAY(S)	15
MAXIMUM 24-HR AVERAGE:	16.6	PPB			ON DAY(S)	7

IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	668	HRS
MONTHLY CALIBRATION TIME:	18	HRS	AMD OPERATION UPTIME:	99.4	%
STANDARD DEVIATION:	6.86		MONTHLY AVERAGE:	3.17	PPB

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc



MAXXAM ANALYTICS INC

LICA
NO / WD Joint Frequency Distribution (Percent)

February 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : NO
Units : PPB

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	2.02	3.71	8.95	4.56	20.77	8.78	3.20	1.52	3.71	4.39	11.82	10.47	3.88	3.71	4.39	3.71	99.66
< 110	.00	.00	.16	.00	.00	.00	.00	.00	.00	.00	.16	.00	.00	.00	.00	.00	.33
< 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.02	3.71	9.12	4.56	20.77	8.78	3.20	1.52	3.71	4.39	11.99	10.47	3.88	3.71	4.39	3.71	

Calm : .00 %

Total # Operational Hours : 592

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	12	22	53	27	123	52	19	9	22	26	70	62	23	22	26	22	590
< 110			1								1						2
< 210																	
>= 210																	
Totals	12	22	54	27	123	52	19	9	22	26	71	62	23	22	26	22	

Calm : .00 %

Total # Operational Hours : 592

Logger : 01 Parameter : NO

Class Limits (PPB)

>= 210

< 210

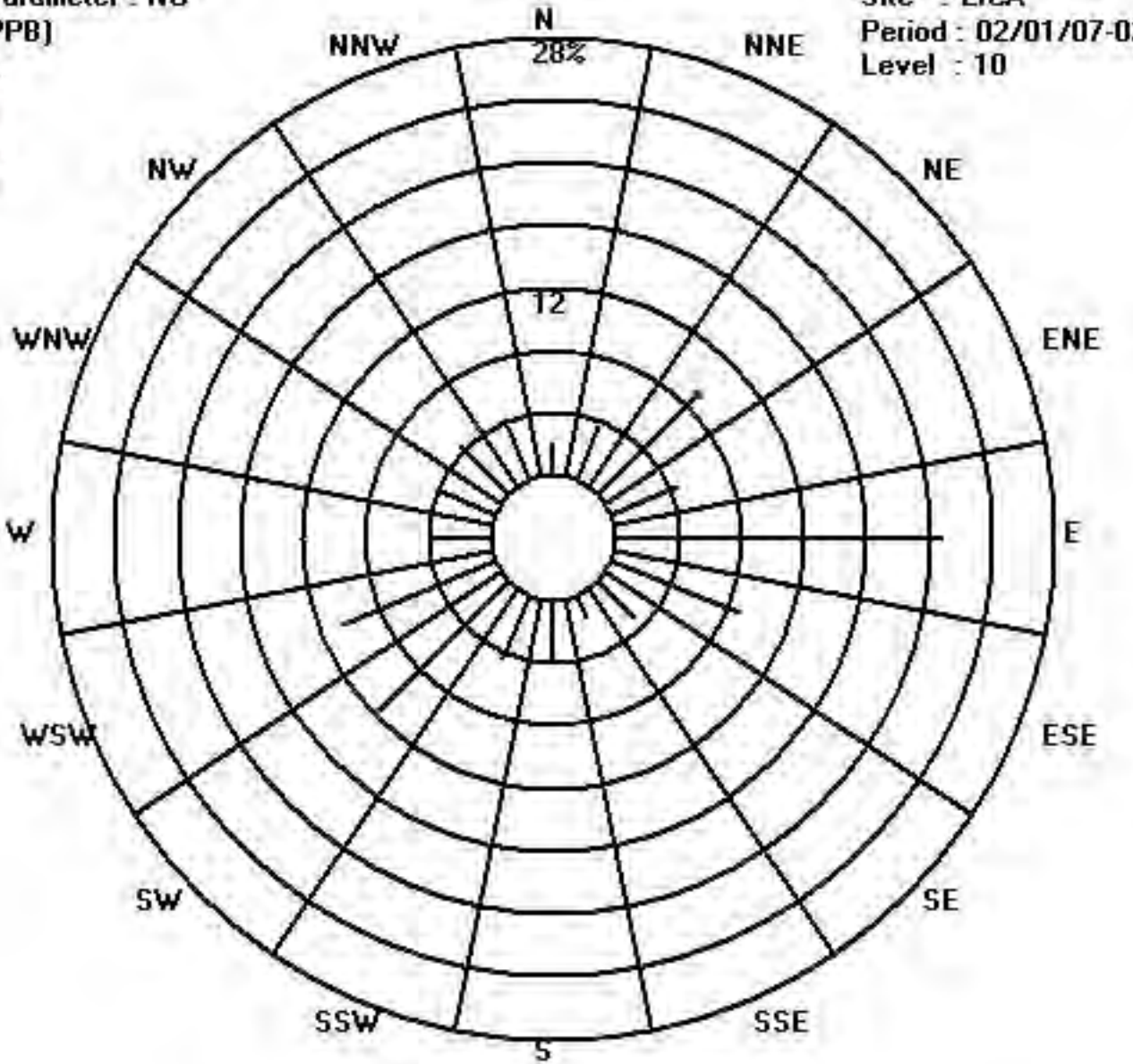
< 110

< 50

Site : LICA

Period : 02/01/07-02/28/07

Level : 10



MAXXAM ANALYTICS INC

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

FEBRUARY 2007

NITRIC OXIDE MAX instantaneous maximum in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	0	0	0	0	0	0	0	0	1	1	1	2	1	**IZS**	3	4	0	0	0	0	0	0	1	0	4	0.6	24
2	0	1	0	0	0	0	1	0	0	1	1	1	**IZS**	0	1	1	0	**500**	**500**	24	15	3	7	9	500	46.3	24
3	4	1	10	3	2	8	4	7	58	18	5	**IZS**	6	3	4	2	4	1	27	18	2	18	13	14	58	10.1	24
4	5	9	11	24	13	14	6	7	7	46	**IZS**	11	16	4	3	29	30	9	1	1	7	2	4	1	46	11.3	24
5	1	1	0	1	1	0	8	7	7	**IZS**	50	11	6	2	42	3	6	5	10	1	8	6	1	1	50	7.7	24
6	0	0	0	0	0	0	8	79	**IZS**	3	2	3	1	11	3	21	65	38	25	111	122	16	45	37	122	25.7	24
7	33	20	25	21	32	36	73	**IZS**	91	59	37	27	46	17	17	11	5	1	10	37	25	66	35	27	91	32.7	24
8	20	4	7	2	14	4	**IZS**	17	50	27	3	5	3	9	4	7	5	6	15	21	25	28	20	32	50	14.3	24
9	26	25	24	27	12	**IZS**	20	57	40	27	23	12	6	115	5	6	5	37	36	8	23	21	4	5	115	24.5	24
10	9	12	8	12	**IZS**	2	3	2	6	12	10	9	9	4	5	2	1	1	0	1	4	4	31	5	31	6.6	24
11	4	1	0	**IZS**	1	2	1	0	1	5	6	4	17	1	12	5	4	4	3	3	5	4	1	4	17	3.8	24
12	0	0	**IZS**	0	1	1	27	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	1	37	18	73	18	24	19	16	73	16.8	24
13	9	**IZS**	8	10	13	12	39	47	69	48	45	43	51	11	37	12	6	21	25	10	9	9	23	30	69	25.5	24
14	**IZS**	25	14	8	7	1	7	33	47	42	16	1	1	1	0	1	0	0	3	0	0	0	0	IZS	47	9.4	24
15	0	0	0	0	1	40	54	9	89	19	4	4	5	3	1	5	7	64	100	46	17	46	**IZS**	22	100	23.3	24
16	5	1	1	0	1	0	3	1	89	5	1	3	5	1	1	1	3	3	3	68	125	**IZS**	40	4	125	15.8	24
17	1	1	2	1	1	1	3	1	29	2	1	12	6	2	4	7	4	1	7	1	**IZS**	2	0	1	29	3.9	24
18	6	0	0	0	1	2	1	3	19	1	17	2	3	3	1	3	3	1	0	**IZS**	0	0	0	0	19	2.9	24
19	1	1	4	0	1	0	0	0	3	4	3	41	1	5	6	4	1	4	**IZS**	2	1	7	1	0	41	3.9	24
20	4	1	0	1	0	1	1	6	1	2	1	2	7	7	2	4	2	**IZS**	10	20	14	3	1	0	20	3.9	24
21	0	0	0	0	0	0	0	1	18	67	49	5	2	2	3	3	**IZS**	14	8	7	31	29	10	31	67	12.2	24
22	48	18	6	3	3	4	20	25	13	10	3	1	4	5	9	**IZS**	3	3	1	1	1	1	1	1	48	8.0	24
23	1	1	0	0	1	1	4	22	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	0	2	17	22	4.5	24
24	1	1	2	1	1	0	10	17	11	9	2	10	5	**IZS**	10	4	3	1	6	62	44	17	16	1	62	10.2	24
25	1	3	3	1	1	1	1	9	7	5	3	8	**IZS**	6	1	1	1	1	1	3	1	0	0	0	9	2.5	24
26	0	0	0	0	1	1	3	1	3	20	3	**IZS**	1	3	30	3	10	6	7	18	32	28	35	6	35	9.2	24
27	7	1	2	1	1	2	11	8	8	53	**IZS**	1	10	3	1	**P**	**D**	**P**	**P**	3	10	34	28	29	53	11.2	20
28	7	5	15	13	14	8	7	13	24	**IZS**	10	4	2	33	13	9	2	1	1	1	2	0	1	13	33	8.6	24
HOURLY MAX	48	25	25	27	32	40	73	79	91	67	50	43	51	115	42	29	65	500	500	111	125	66	45	37			
HOURLY AVG	7.1	4.9	5.3	4.8	4.6	5.2	11.7	14.3	27.6	20.3	12.3	9.3	8.9	10.5	8.4	6.2	6.8	30.4	32.7	20.8	20.8	13.6	12.6	11.3			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

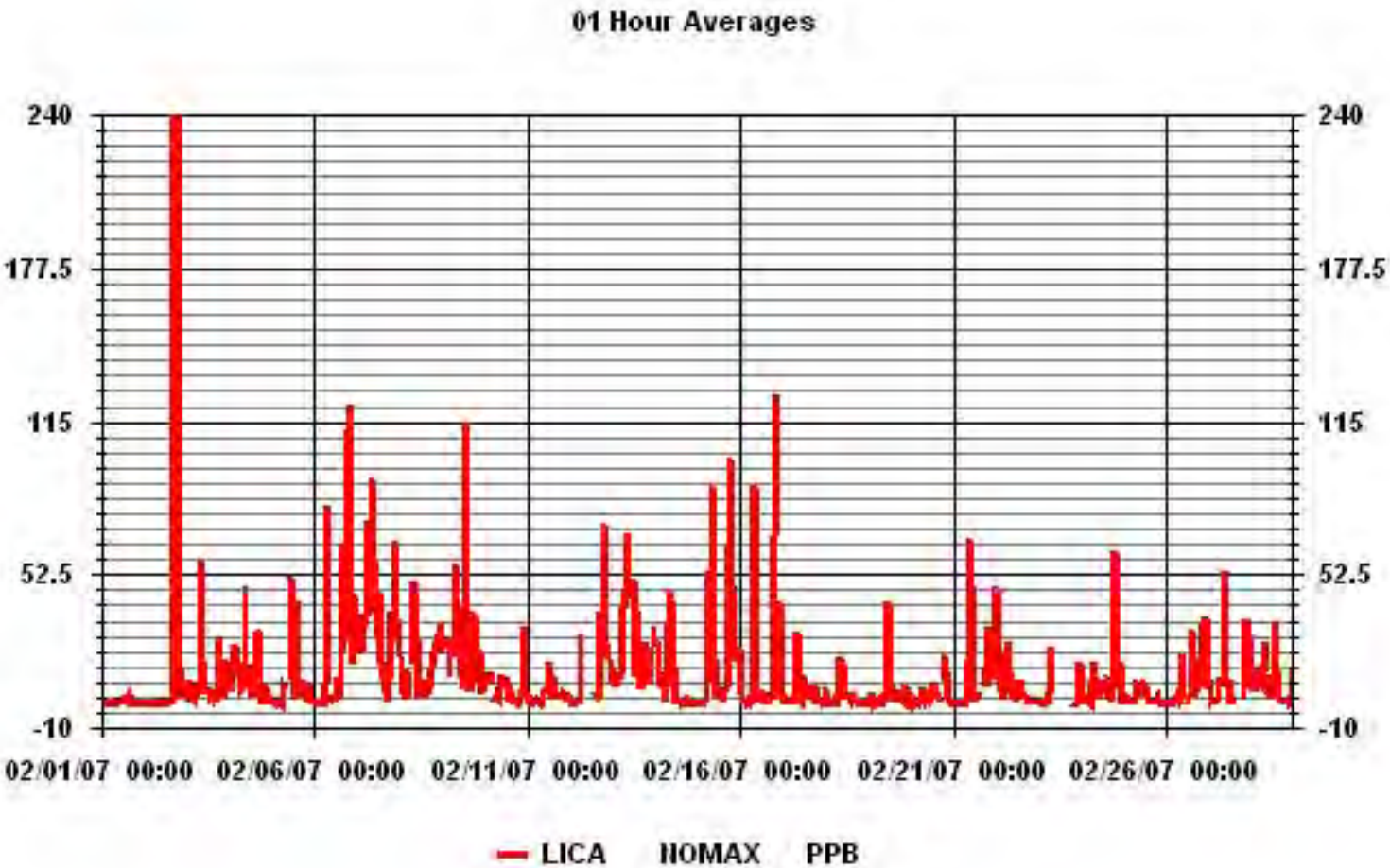
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	531					
MAXIMUM INSTANTANEOUS VALUE:	500	PPB	@ HOUR(S)	18,19	ON DAY(S)	2

IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	668	HRS
MONTHLY CALIBRATION TIME:	20	HRS			
STANDARD DEVIATION:	33.03				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc



MAXXAM ANALYTICS INC

NO_X

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

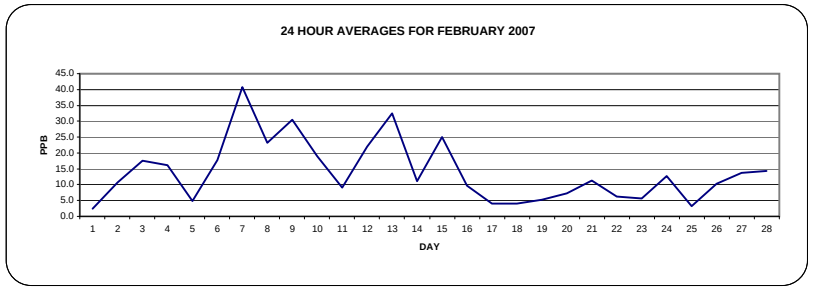
FEBRUARY 2007

OXIDES OF NITROGEN hourly averages in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	0	0	1	2	1	2	1	7	5	4	3	3	2	**IZS**	3	4	3	2	3	2	2	2	3	3	7	2.5	24
2	3	2	2	1	1	1	2	4	3	2	1	1	**IZS**	1	2	3	3	21	53	35	30	26	27	22	53	10.7	24
3	20	18	20	19	17	20	22	24	25	22	9	**IZS**	6	6	6	5	5	5	17	27	20	28	33	30	33	17.6	24
4	28	33	33	45	36	36	29	17	13	14	**IZS**	8	7	6	6	7	19	11	4	5	5	3	3	3	45	16.1	24
5	4	3	3	3	3	3	3	4	5	**IZS**	9	5	5	5	7	6	7	8	8	5	6	4	2	2	9	4.8	24
6	2	2	2	1	1	1	8	47	**IZS**	2	1	2	1	5	6	9	16	29	42	49	48	35	49	49	49	17.7	24
7	53	49	49	48	55	52	71	**IZS**	82	64	48	30	43	20	16	8	11	14	22	42	42	39	40	38	82	**40.7**	24
8	31	27	25	20	16	8	**IZS**	23	46	29	4	3	4	1	6	13	15	21	27	41	44	39	38	55	55	23.3	24
9	48	43	45	44	30	**IZS**	39	56	55	40	20	10	4	15	11	14	14	23	45	24	38	27	29	29	56	30.6	24
10	29	27	29	31	**IZS**	27	30	28	25	25	20	18	14	10	9	7	8	11	9	13	14	14	20	17	31	18.9	24
11	19	19	18	**IZS**	7	6	5	5	5	5	4	3	2	2	2	4	7	12	9	12	18	17	11	17	19	9.1	24
12	11	11	**IZS**	11	12	17	35	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	6	6	5	16	27	49	41	34	39	33	49	22.1	24
13	30	**IZS**	29	33	33	33	43	47	66	55	34	45	32	10	13	10	17	34	34	26	22	22	39	42	66	32.6	24
14	**IZS**	36	11	10	7	5	17	48	54	28	3	2	2	1	2	2	2	2	2	2	2	2	2	**IZS**	54	11.0	24
15	3	3	3	4	4	15	35	24	70	17	11	10	8	6	6	6	13	72	**108**	44	33	38	**IZS**	41	108	25.0	24
16	16	4	4	3	3	1	2	2	11	4	2	3	2	2	2	3	4	8	11	48	35	**IZS**	37	18	48	9.8	24
17	9	12	5	4	3	2	4	4	7	4	4	4	3	2	3	4	4	3	3	3	**IZS**	2	1	1	12	4.0	24
18	2	1	1	1	1	3	5	8	10	1	4	4	6	6	5	8	11	4	1	**IZS**	2	1	4	3	11	4.0	24
19	2	5	7	6	7	8	8	8	8	10	6	8	3	3	3	3	5	6	**IZS**	5	3	3	3	1	10	5.3	24
20	2	2	2	2	2	2	3	3	3	2	2	4	4	4	4	5	5	**IZS**	21	26	23	19	14	12	26	7.2	24
21	10	2	1	2	2	1	2	2	3	14	9	3	3	5	5	8	**IZS**	12	27	22	28	37	27	35	37	11.3	24
22	41	14	4	4	6	6	7	12	5	3	3	3	3	3	3	**IZS**	4	4	4	3	3	3	3	2	41	6.2	24
23	1	1	1	1	2	2	4	8	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	13	11	18	18	5.6	24
24	8	5	8	9	11	9	23	20	21	13	2	2	3	**IZS**	6	4	4	8	16	27	31	40	17	6	40	12.7	24
25	5	3	3	3	4	4	5	5	8	3	3	3	**IZS**	2	2	2	3	4	4	3	2	1	1	1	8	3.2	24
26	1	1	0	0	1	1	1	2	3	6	3	**IZS**	1	1	1	2	3	12	20	38	33	42	35	30	42	10.3	24
27	23	18	12	6	3	5	9	8	13	10	**IZS**	2	2	1	1	**P**	**D**	**P**	**P**	20	32	33	42	22	42	13.8	20
28	25	20	22	35	39	34	27	32	31	**IZS**	6	3	2	13	6	3	4	6	8	6	2	1	2	4	39	14.4	24
HOURLY MAX	53	49	49	48	55	52	71	56	82	64	48	45	43	20	16	14	19	72	108	49	48	42	49	55			
HOURLY AVG	15.8	13.4	12.6	12.9	11.4	11.3	16.3	17.2	23.1	15.7	8.8	7.5	6.8	5.4	5.3	5.8	7.7	13.9	21.0	22.2	21.5	19.4	19.7	19.8			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

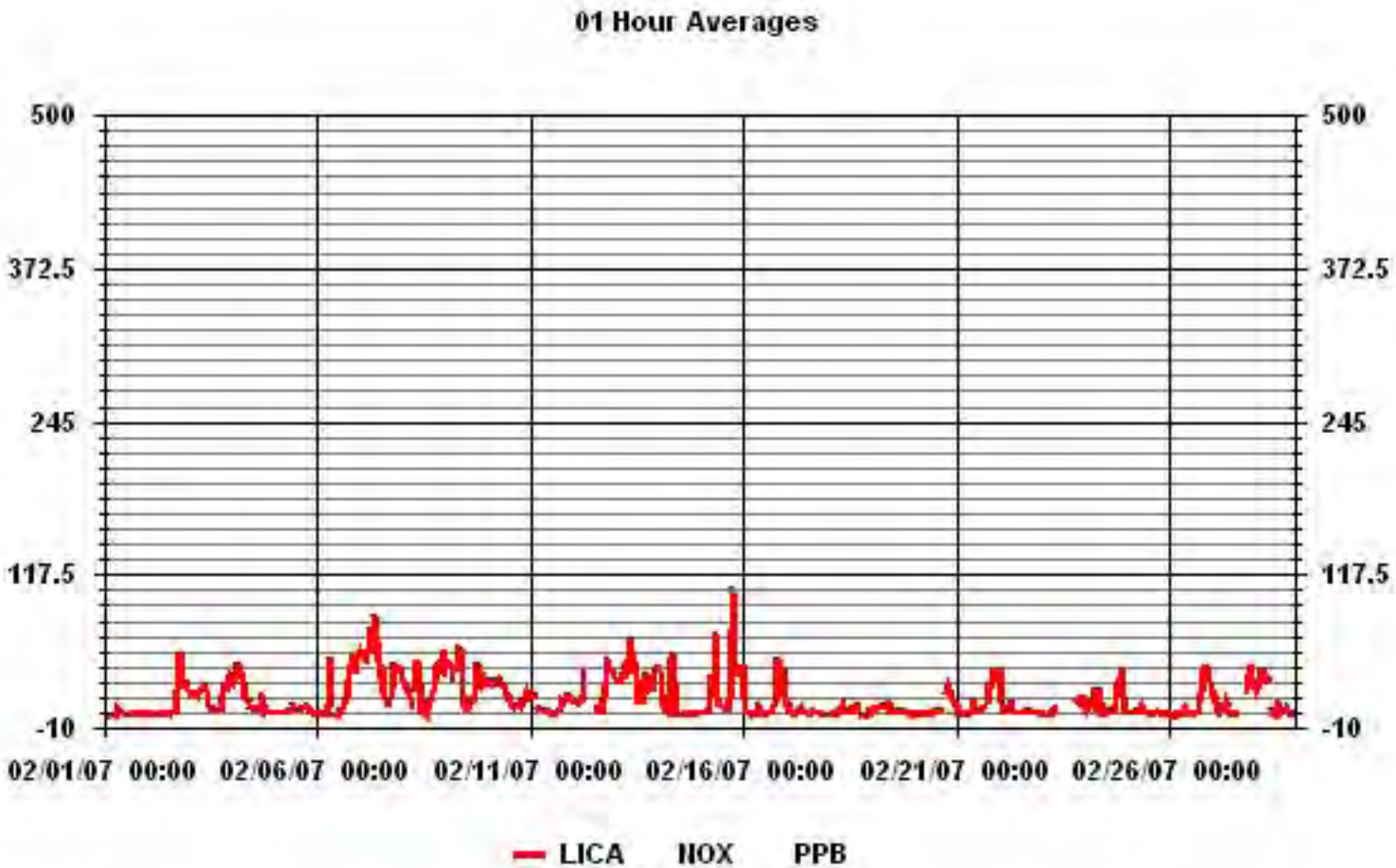


MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	616					
MAXIMUM 1-HR AVERAGE:	108	PPB	@ HOUR(S)	19	ON DAY(S)	15
MAXIMUM 24-HR AVERAGE:	40.7	PPB			ON DAY(S)	7

IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	668	HRS
MONTHLY CALIBRATION TIME:	18	HRS	AMD OPERATION UPTIME:	99.4	%
STANDARD DEVIATION:	15.54		MONTHLY AVERAGE:	14.02	PPB

MOUNTAIN STANDARD TIME



MAXXAM ANALYTICS INC

LICA
NOX / WD Joint Frequency Distribution (Percent)

February 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : NOX
Units : PPB

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	2.02	3.71	8.78	4.56	20.60	8.61	3.04	1.52	3.54	3.88	11.48	9.96	3.71	3.71	4.39	3.71	97.29
< 110	.00	.00	.33	.00	.16	.16	.16	.00	.16	.50	.50	.50	.16	.00	.00	.00	2.70
< 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.02	3.71	9.12	4.56	20.77	8.78	3.20	1.52	3.71	4.39	11.99	10.47	3.88	3.71	4.39	3.71	

Calm : .00 %

Total # Operational Hours : 592

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	12	22	52	27	122	51	18	9	21	23	68	59	22	22	26	22	576
< 110			2		1	1	1		1	3	3	3	1				16
< 210																	
>= 210																	
Totals	12	22	54	27	123	52	19	9	22	26	71	62	23	22	26	22	

Calm : .00 %

Total # Operational Hours : 592

Logger : 01 Parameter : NOX

Class Limits (PPB)

>= 210

< 210

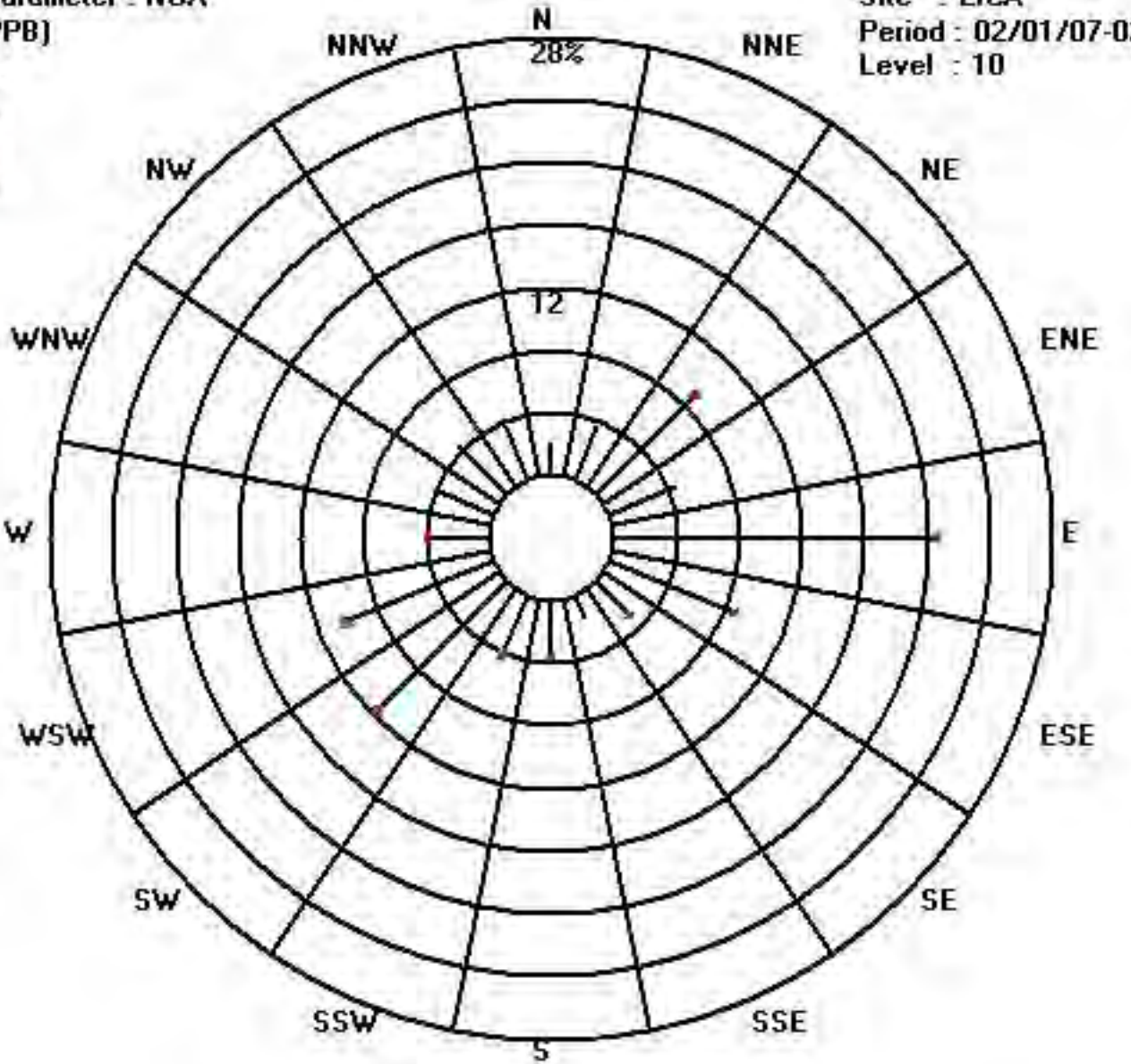
< 110

< 50

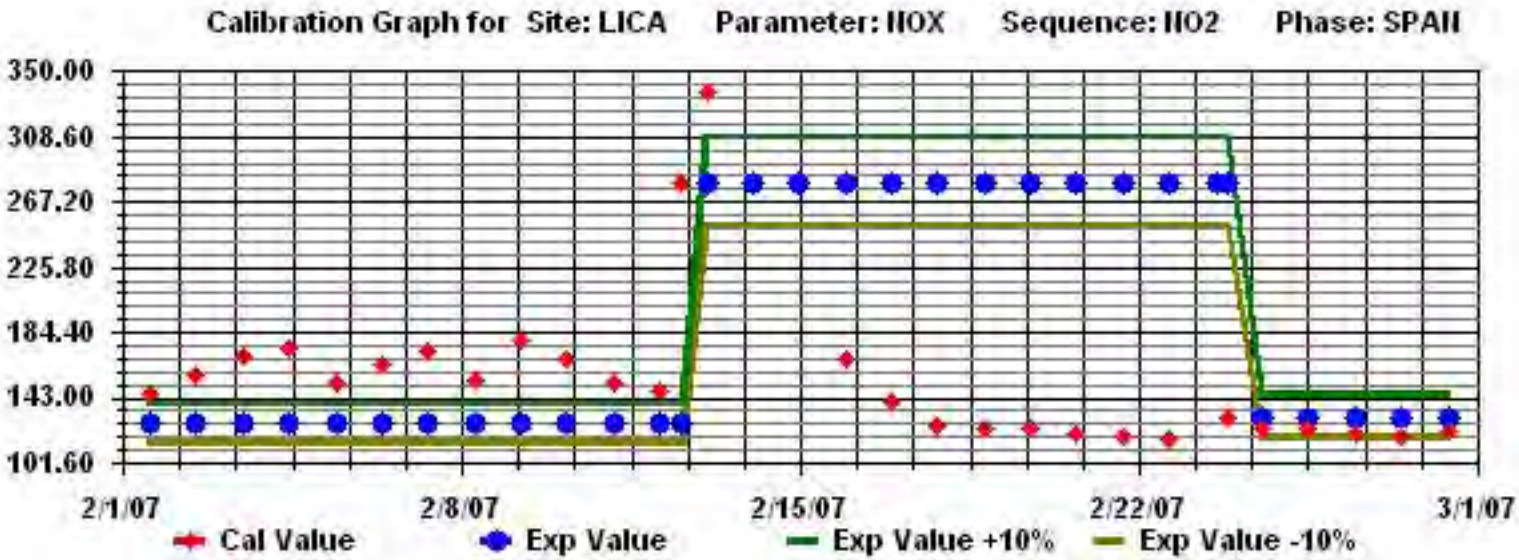
Site : LICA

Period : 02/01/07-02/28/07

Level : 10



MAXXAM ANALYTICS INC



MAXXAM ANALYTICS INC

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

FEBRUARY 2007

OXIDES OF NITROGEN MAX instantaneous maximum in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	0	1	2	3	3	4	3	11	6	6	4	5	3	**IZS**	13	13	4	3	4	4	3	3	6	4	13	4.7	24
2	4	4	3	2	1	2	4	5	4	4	3	2	**IZS**	2	4	4	4	**500**	**500**	62	46	33	36	37	500	55.0	24
3	28	23	31	23	21	37	29	34	105	31	12	**IZS**	8	7	7	6	8	9	51	55	31	47	46	47	105	30.3	24
4	35	38	41	62	47	47	39	24	23	86	**IZS**	26	24	12	9	65	68	25	6	7	22	8	10	5	86	31.7	24
5	7	7	4	5	5	4	12	13	13	**IZS**	68	23	11	8	67	11	18	14	24	8	24	25	4	4	68	16.5	24
6	3	3	3	4	2	2	38	113	**IZS**	6	5	6	4	13	8	31	99	81	58	149	121	46	84	68	149	41.2	24
7	65	52	58	51	68	75	110	**IZS**	128	89	61	46	79	36	36	31	16	17	43	65	60	96	69	56	128	61.2	24
8	49	32	36	27	39	15	**IZS**	54	77	50	6	9	6	13	10	19	24	34	51	62	59	63	53	66	77	37.1	24
9	58	56	53	56	41	**IZS**	50	92	65	49	41	20	9	189	17	20	19	83	68	43	57	51	35	33	189	52.4	24
10	37	40	38	43	**IZS**	31	34	31	29	34	23	21	17	12	12	9	11	12	12	19	21	23	75	33	75	26.8	24
11	31	29	20	**IZS**	12	9	8	6	9	13	12	15	47	4	9	17	19	20	17	21	27	26	19	29	47	18.2	24
12	18	18	**IZS**	13	18	23	61	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	9	17	9	73	51	122	52	55	51	44	122	39.6	24
13	38	**IZS**	37	40	42	41	73	75	100	75	74	71	140	21	29	26	31	61	63	43	35	39	54	63	140	55.3	24
14	**IZS**	59	35	33	23	8	37	73	93	78	11	5	4	3	5	7	4	4	5	5	3	4	3	**IZS**	93	22.8	24
15	3	3	4	4	13	59	108	37	138	41	13	12	11	7	7	10	30	108	145	83	48	95	**IZS**	54	145	44.9	24
16	28	6	9	5	6	2	10	4	130	13	7	15	19	4	4	4	13	20	27	131	276	**IZS**	124	34	276	38.7	24
17	13	20	11	9	8	4	11	6	47	8	6	18	11	15	7	11	11	5	7	6	**IZS**	4	3	3	47	10.6	24
18	7	4	3	3	4	8	12	17	39	3	44	6	8	13	6	14	19	9	2	**IZS**	4	3	5	4	44	10.3	24
19	5	10	15	8	12	11	9	9	12	17	10	41	4	10	10	6	8	13	**IZS**	8	7	14	6	2	41	10.7	24
20	13	4	4	4	4	4	6	12	7	7	4	5	10	9	7	10	8	**IZS**	39	51	46	27	17	16	51	13.7	24
21	17	3	2	3	3	2	4	6	14	107	63	7	6	7	7	11	**IZS**	29	38	35	71	56	43	48	107	25.3	24
22	86	42	15	8	13	11	35	61	28	13	5	14	5	11	14	**IZS**	8	7	6	6	5	4	4	3	86	17.6	24
23	3	3	2	2	4	5	8	37	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	19	20	35	37	12.5	24
24	13	9	12	13	14	12	38	58	27	23	3	3	9	**IZS**	14	8	5	13	27	122	94	58	46	13	122	27.6	24
25	11	7	9	6	7	7	6	14	17	7	5	12	**IZS**	16	2	4	4	5	5	8	4	3	1	0	17	7.0	24
26	0	0	0	0	3	2	15	18	18	46	7	**IZS**	4	9	21	5	14	26	40	58	66	59	54	38	66	21.9	24
27	34	26	22	11	6	10	19	17	23	79	**IZS**	2	9	4	1	**P**	**D**	**P**	**P**	35	43	68	60	50	79	27.3	20
28	35	30	46	45	46	37	33	41	54	**IZS**	18	6	4	87	48	13	6	11	11	11	7	2	7	24	87	27.0	24
HOURLY MAX	86	59	58	62	68	75	110	113	138	107	74	71	140	189	67	65	99	500	500	149	276	96	124	68			
HOURLY AVG	23.7	19.6	19.1	17.9	17.2	17.5	30.1	33.4	48.2	36.9	21.0	16.3	18.8	21.3	14.2	14.9	18.4	47.3	52.0	46.9	47.4	34.5	34.6	30.1			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

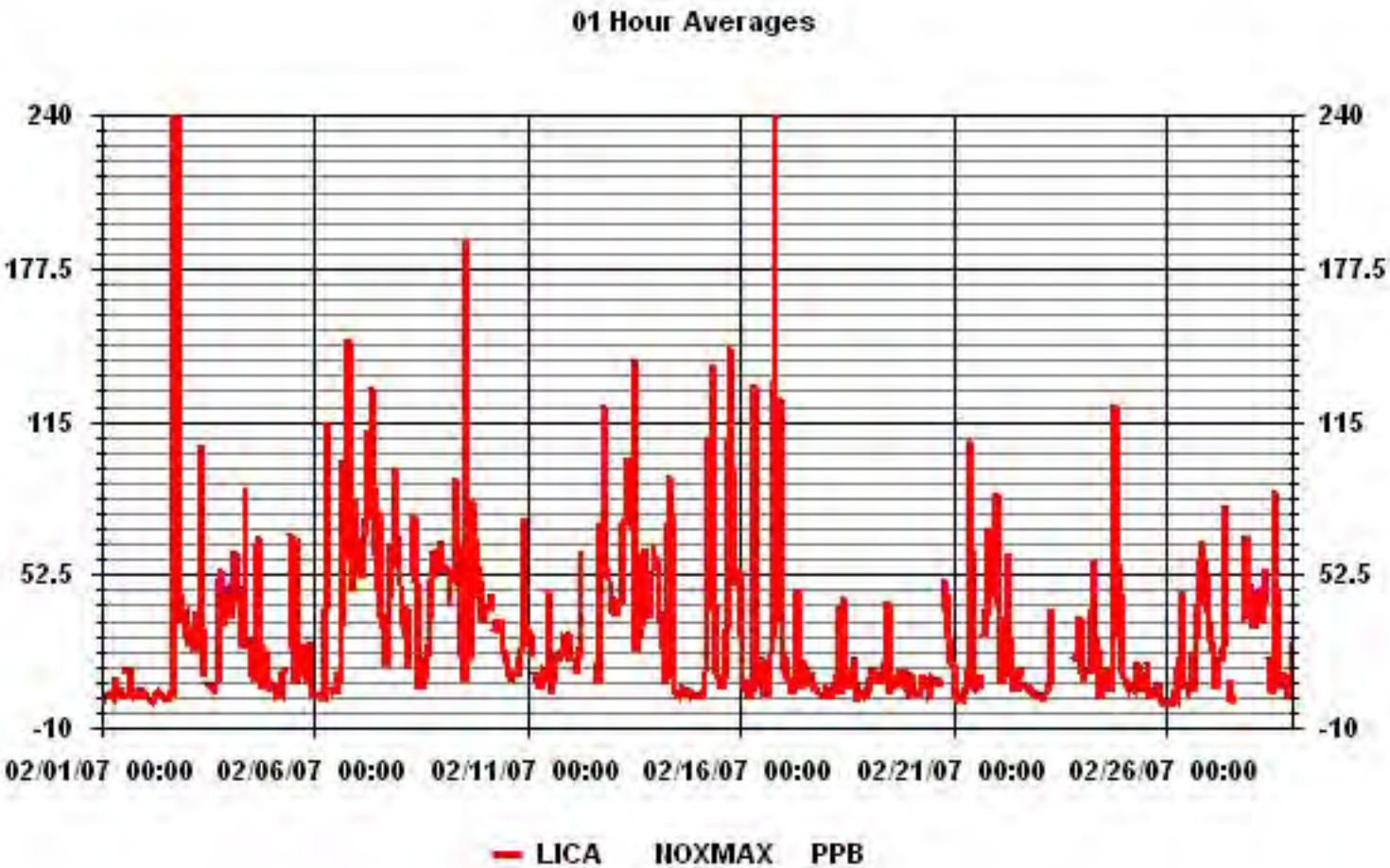
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	614					
MAXIMUM INSTANTANEOUS VALUE:	500	PPB	@ HOUR(S)	18,19	ON DAY(S)	2

IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	668	HRS
MONTHLY CALIBRATION TIME:	18	HRS			
STANDARD DEVIATION:	40.34				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc



MAXXAM ANALYTICS INC

O_3

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

FEBRUARY 2007

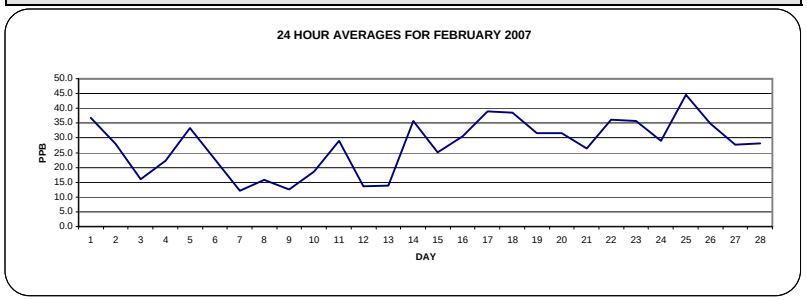
OZONE (O_3) hourly averages in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	40	39	38	35	37	36	37	32	34	35	37	37	38	**IZS**	38	38	38	37	36	37	37	38	37	37	40	36.9	24
2	36	37	37	38	38	37	36	34	35	36	38	38	**IZS**	39	38	37	37	23	3	5	5	5	4	7	39	28.0	24
3	8	10	6	7	8	6	4	3	8	18	29	**IZS**	34	33	34	35	33	32	21	10	13	7	4	4	35	16.0	24
4	4	1	1	1	2	2	6	18	23	30	**IZS**	33	34	35	34	34	29	28	33	32	33	34	34	34	35	22.4	24
5	33	33	34	34	35	35	36	35	33	**IZS**	33	34	35	34	33	33	33	32	31	33	31	32	34	33	36	33.4	24
6	34	35	34	34	34	33	26	5	**IZS**	33	35	36	36	35	34	32	29	12	2	2	3	1	0	0	36	22.8	24
7	1	1	1	1	1	1	1	**IZS**	4	13	22	28	28	31	32	34	29	25	15	3	2	3	2	3	34	12.2	24
8	3	5	6	9	19	26	**IZS**	13	8	20	33	35	35	36	34	28	23	15	9	2	1	2	1	0	36	15.8	24
9	0	0	0	0	2	**IZS**	0	0	4	14	27	33	37	37	35	30	28	17	2	11	3	6	3	2	37	12.7	24
10	2	3	2	4	**IZS**	7	5	7	13	18	24	27	31	34	35	35	31	28	28	23	22	21	15	15	35	18.7	24
11	10	10	10	**IZS**	31	33	34	34	34	35	37	38	39	39	39	38	36	33	33	28	23	18	20	14	39	29.0	24
12	19	18	**IZS**	15	15	11	2	1	6	16	25	33	37	38	**C**	**C**	**C**	**IZS**	10	4	2	4	1	3	38	13.7	24
13	2	**IZS**	1	1	0	1	1	1	9	17	29	31	33	40	39	39	31	11	6	7	9	8	2	1	40	13.9	24
14	**IZS**	6	21	28	28	35	22	8	11	32	42	45	46	46	46	46	46	46	46	46	46	46	46	**IZS**	46	35.6	24
15	45	44	43	42	37	24	9	15	8	28	33	36	37	39	40	39	30	6	3	5	6	4	**IZS**	3	45	25.0	24
16	18	32	31	31	31	35	38	38	35	37	38	38	39	39	41	41	40	33	26	9	7	**IZS**	4	19	41	30.4	24
17	30	26	38	39	40	41	38	38	38	39	40	41	42	42	42	41	39	39	39	40	**IZS**	40	41	41	42	38.9	24
18	41	42	42	42	42	40	37	33	31	41	41	41	41	42	42	40	38	41	38	**IZS**	32	35	32	34	42	38.6	24
19	35	29	28	26	25	24	25	25	26	27	32	33	35	36	37	36	34	33	**IZS**	34	36	37	37	38	38	31.7	24
20	38	37	37	37	38	38	37	37	37	39	39	38	39	39	38	37	37	**IZS**	15	10	11	11	16	20	39	31.5	24
21	21	33	33	33	33	36	36	36	36	34	35	38	38	38	37	34	**IZS**	27	7	10	5	1	4	1	38	26.3	24
22	1	25	37	37	35	35	34	33	37	38	39	40	40	41	41	**IZS**	40	38	38	40	40	40	40	40	41	36.0	24
23	42	42	43	43	42	43	41	40	41	41	42	41	42	42	**IZS**	42	40	37	33	14	14	19	21	14	43	35.6	24
24	24	30	27	26	24	24	9	11	17	32	43	45	45	**IZS**	45	46	45	39	31	17	11	3	30	43	46	29.0	24
25	44	46	45	45	44	43	44	42	37	46	45	45	**IZS**	49	49	**50**	48	44	42	42	42	43	44	45	50	**44.5**	24
26	45	46	46	46	45	46	45	44	42	42	42	**IZS**	43	44	44	45	46	35	23	7	8	2	6	9	46	34.8	24
27	12	19	23	33	38	37	33	33	30	36	**IZS**	40	42	44	45	**P**	44	**P**	**P**	19	6	5	3	10	45	27.6	21
28	6	7	9	3	1	3	5	7	20	**IZS**	40	42	43	42	45	45	43	39	37	40	44	44	43	39	45	28.1	24
HOURLY MAX	45	46	46	46	45	46	45	44	42	46	45	45	46	49	49	50	48	46	46	46	46	46	46	45			
HOURLY AVG	22.0	24.3	24.9	25.6	26.9	27.1	23.7	23.1	24.3	30.7	35.4	37.2	38.0	39.0	39.1	38.2	36.4	30.0	23.3	19.6	18.2	18.9	19.4	18.9			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

OBJECTIVE LIMIT: **ALBERTA ENVIRONMENT:** 1-HR 82 PPB



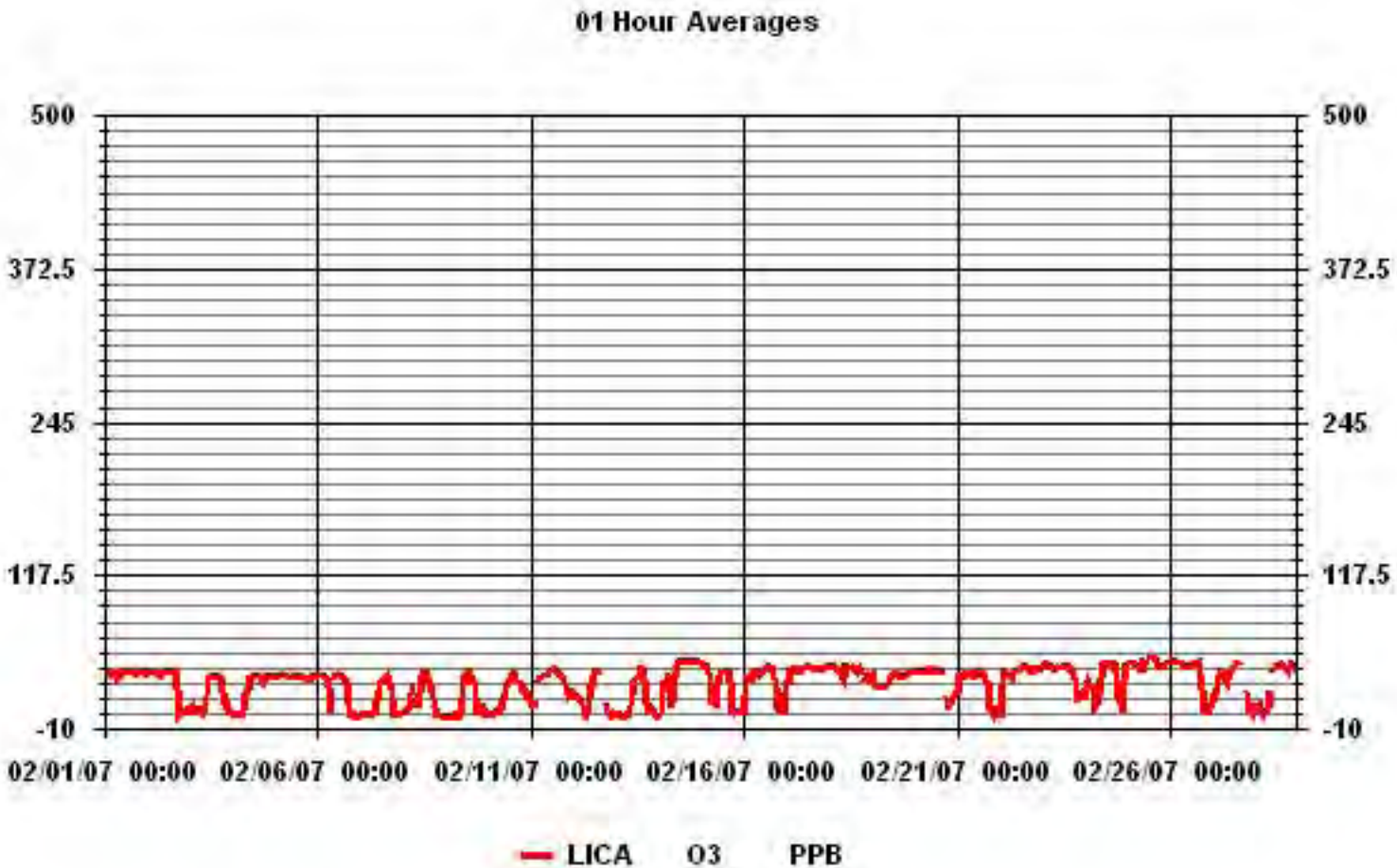
MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0					
NUMBER OF NON-ZERO READINGS:	626					
MAXIMUM 1-HR AVERAGE:	50	PPB	@ HOUR(S)	16	ON DAY(S)	25
MAXIMUM 24-HR AVERAGE:	44.5	PPB			ON DAY(S)	25

IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	669	HRS
MONTHLY CALIBRATION TIME:	3	HRS	AMD OPERATION UPTIME:	99.6	%
STANDARD DEVIATION:	14.68		MONTHLY AVERAGE:	27.54	PPB

Maxxam Analytics Inc

MOUNTAIN STANDARD TIME



MAXXAM ANALYTICS INC

LICA
O3 / WD Joint Frequency Distribution (Percent)

February 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : O3
Units : PPB

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	1.97	3.94	8.88	4.44	21.54	8.38	3.28	1.64	3.61	4.27	11.67	10.19	3.94	3.78	4.44	3.78	99.83
< 110	.00	.00	.00	.00	.16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16
< 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	1.97	3.94	8.88	4.44	21.71	8.38	3.28	1.64	3.61	4.27	11.67	10.19	3.94	3.78	4.44	3.78	

Calm : .00 %

Total # Operational Hours : 608

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	12	24	54	27	131	51	20	10	22	26	71	62	24	23	27	23	607
< 110					1												1
< 210																	
>= 210																	
Totals	12	24	54	27	132	51	20	10	22	26	71	62	24	23	27	23	

Calm : .00 %

Total # Operational Hours : 608

Logger : 01 Parameter : 03

Class Limits (PPB)

>= 210

< 210

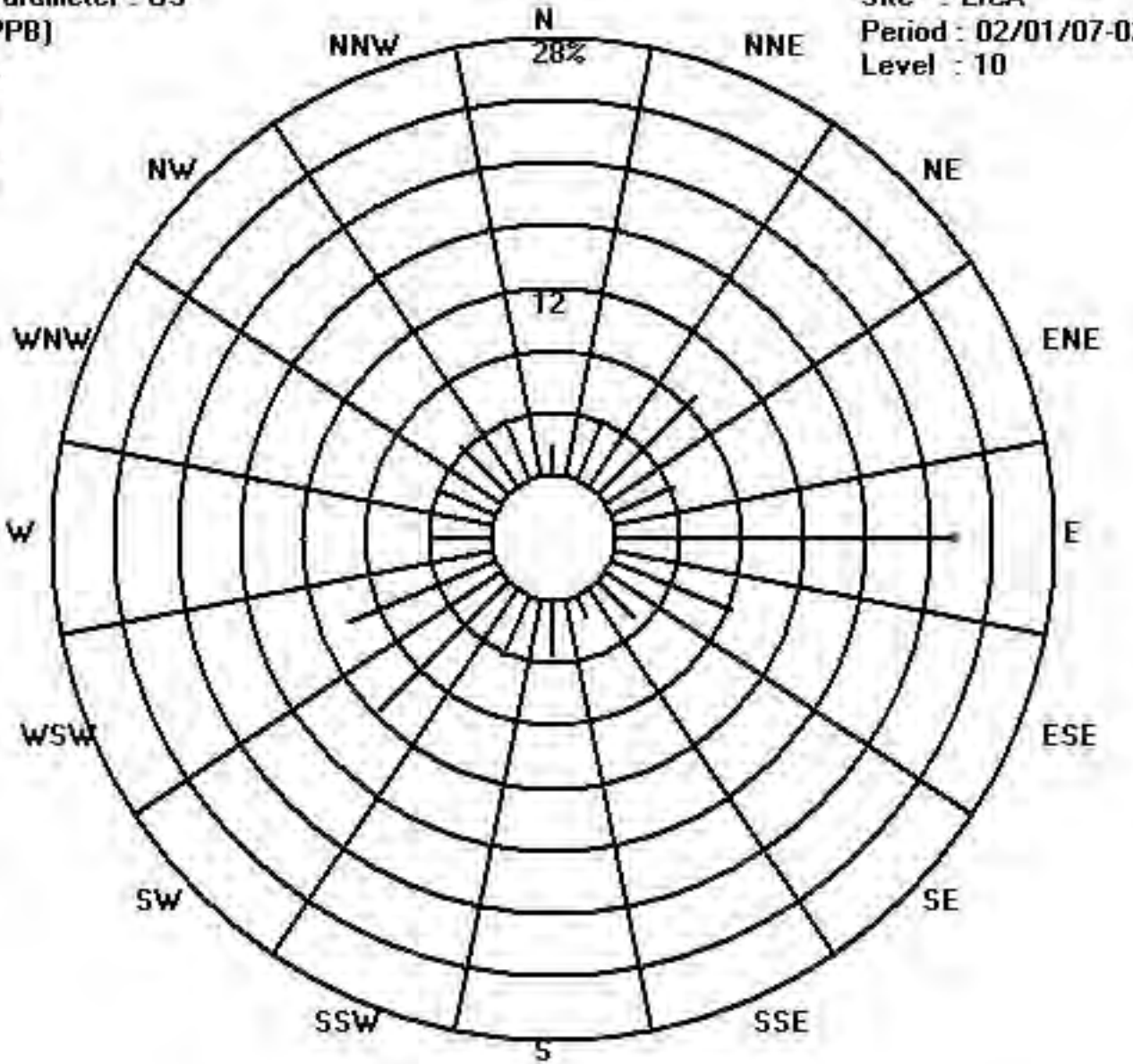
< 110

< 50

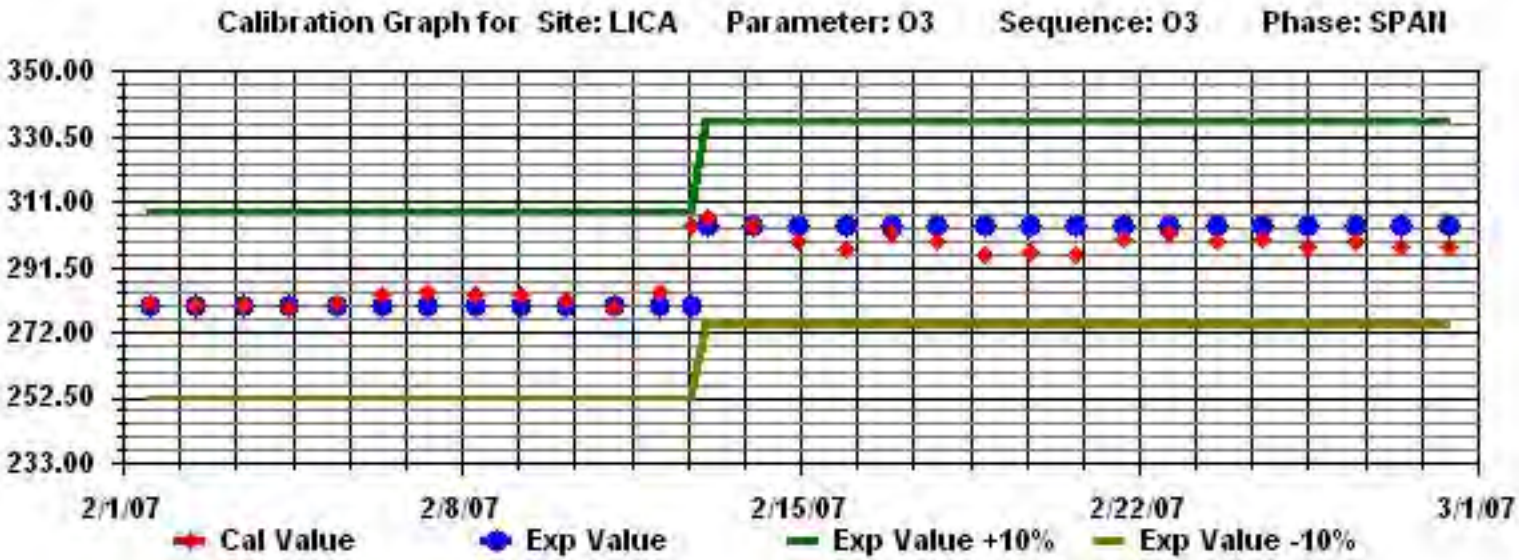
Site : LICA

Period : 02/01/07-02/28/07

Level : 10



MAXXAM ANALYTICS INC



MAXXAM ANALYTICS INC

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

FEBRUARY 2007

OZONE MAX instantaneous maximum in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	41	41	39	37	38	38	38	37	36	38	39	39	40	**IZS**	40	40	39	39	37	39	39	39	40	38	41	38.7	24
2	38	39	39	40	39	40	38	36	38	38	40	40	**IZS**	40	40	39	38	36	8	18	10	11	17	16	40	32.1	24
3	15	14	10	9	9	9	7	6	14	27	33	**IZS**	35	35	35	36	35	35	31	22	26	21	12	14	36	21.3	24
4	8	4	3	3	5	5	12	22	31	33	**IZS**	35	37	38	36	36	33	33	35	35	35	36	36	35	38	25.5	24
5	35	35	36	35	36	38	37	36	36	**IZS**	35	36	36	36	35	35	35	34	34	35	35	37	36	35	38	35.6	24
6	36	36	36	36	35	35	34	24	**IZS**	36	37	38	38	38	35	34	34	28	11	8	**95**	6	3	2	95	31.1	24
7	2	1	2	2	1	3	3	**IZS**	6	19	26	31	31	33	36	36	33	28	22	5	7	12	7	6	36	15.3	24
8	6	12	11	21	31	30	**IZS**	25	14	31	36	36	36	38	38	32	28	19	16	7	8	11	9	2	38	21.6	24
9	2	3	2	3	5	**IZS**	2	2	9	18	33	38	39	40	39	35	31	26	5	19	8	10	11	4	40	16.7	24
10	7	6	4	10	**IZS**	9	7	9	16	23	27	31	33	35	36	37	34	29	29	28	24	24	22	20	37	21.7	24
11	14	13	13	**IZS**	34	35	35	36	35	37	38	39	40	40	40	40	40	37	38	35	28	24	28	18	40	32.0	24
12	24	24	**IZS**	19	17	16	10	6	11	21	32	37	40	**C**	**C**	**C**	**C**	**IZS**	18	16	8	17	5	8	40	18.3	24
13	5	**IZS**	4	3	2	4	4	5	14	23	36	49	38	43	42	43	38	21	13	14	11	11	4	4	49	18.7	24
14	**IZS**	24	30	36	38	41	39	20	18	43	44	46	46	47	47	47	48	47	47	47	47	47	47	**IZS**	48	40.7	24
15	46	46	45	43	40	38	25	24	16	33	38	40	39	42	41	42	36	22	6	11	24	10	**IZS**	5	46	31.0	24
16	31	34	33	33	34	37	40	39	39	38	39	39	40	41	43	43	42	39	38	33	24	**IZS**	8	34	43	35.7	24
17	35	32	42	41	42	42	42	39	41	40	41	43	47	43	45	42	41	40	41	41	**IZS**	41	42	42	47	41.1	24
18	43	43	43	43	43	43	42	39	41	42	42	42	42	43	43	44	43	46	40	**IZS**	34	37	34	35	46	41.2	24
19	37	34	31	29	28	26	27	28	29	30	36	38	37	40	40	38	36	36	**IZS**	35	38	38	38	39	40	34.3	24
20	39	38	38	38	39	39	38	39	39	40	40	40	45	40	40	38	39	**IZS**	26	20	24	21	19	23	45	34.9	24
21	33	35	35	36	35	38	38	38	41	40	40	40	41	41	41	38	**IZS**	33	18	19	13	5	10	3	41	30.9	24
22	5	40	40	39	38	38	38	39	40	41	41	42	42	43	43	**IZS**	42	40	40	42	42	42	42	42	43	39.2	24
23	42	43	44	44	43	45	43	42	43	42	43	43	44	45	**IZS**	45	43	42	37	28	25	24	29	34	45	39.7	24
24	38	34	32	29	27	28	19	17	21	44	46	47	50	**IZS**	58	47	47	46	35	28	22	11	41	48	58	35.4	24
25	47	47	47	47	46	47	47	46	43	47	47	48	**IZS**	51	51	51	50	47	45	43	44	46	46	47	51	47.0	24
26	46	47	47	47	47	47	49	46	45	46	47	**IZS**	45	46	46	47	48	45	35	15	15	4	18	22	49	39.1	24
27	29	30	33	41	40	40	36	35	34	41	**IZS**	42	43	45	47	**P**	46	**P**	**P**	28	12	9	10	22	47	33.2	21
28	8	17	21	11	3	12	12	20	30	**IZS**	41	45	46	45	47	47	45	44	40	45	46	46	45	43	47	33.0	24
HOURLY MAX	47	47	47	47	47	47	49	46	45	47	47	49	50	51	58	51	50	47	47	47	95	47	47	48			
HOURLY AVG	26.4	28.6	28.1	28.7	29.4	30.5	28.2	28.0	28.9	35.0	38.3	40.2	40.4	41.1	41.7	40.5	39.4	35.7	28.7	26.5	27.6	23.7	24.4	23.7			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

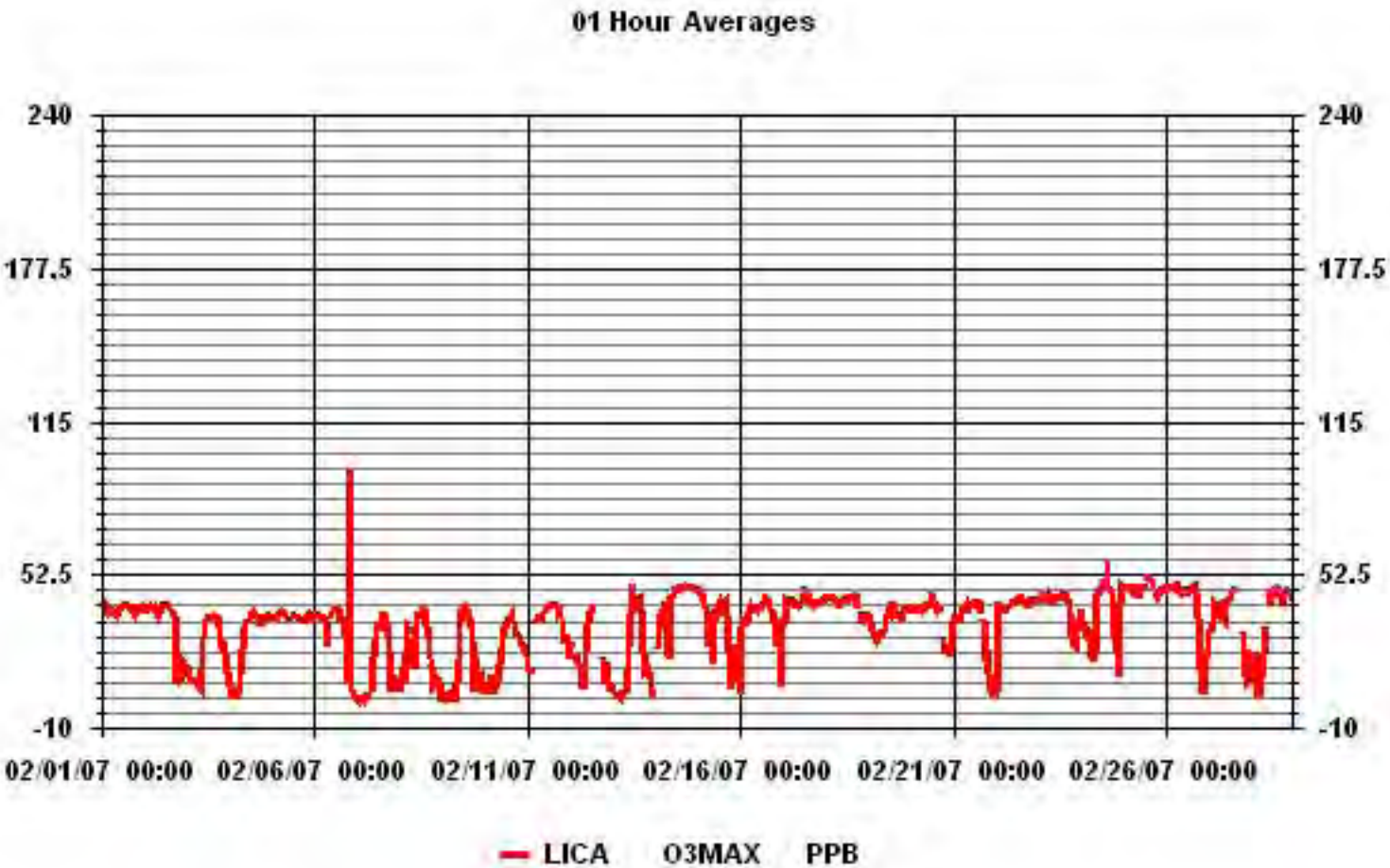
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	635					
MAXIMUM INSTANTANEOUS VALUE:	95	PPB	@ HOUR(S)	21	ON DAY(S)	6

IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	669	HRS
MONTHLY CALIBRATION TIME:	4	HRS			
STANDARD DEVIATION:	13.58				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc



MAXXAM ANALYTICS INC

VECTOR WIND SPEED

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

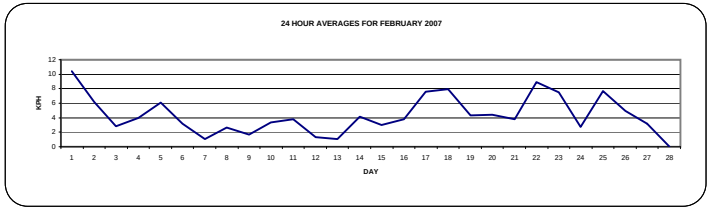
FEBRUARY 2007

VECTOR WIND SPEED (WS) hourly averages (km/hr)

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	14.1	11.7	12.4	13.1	13.1	10.9	9.4	7.7	11.2	11.7	12.9	13.2	13	14.7	14.5	13.6	13.2	12.1	12.2	14.5	11.4	9.6	7.7	7.1	14.7	**10.4**	24
2	6.4	6.8	11.5	14	12.1	10.3	6.6	6.3	8.6	7.5	10.2	11.8	9.7	9.3	11.4	10.5	5.2	1.6	0.5	0.8	0.2	0.1	1.8	0.4	14	6.2	24
3	1	1	1	0	0.4	0.9	1.4	1.3	1.1	3.5	4.4	6.3	6.2	8.8	9.1	9.6	7.1	5.6	2.2	0.8	1	0.5	0.8	1.7	9.6	2.8	24
4	0.6	0.3	0.3	1.2	1.2	0.6	0.6	2	4.7	8.4	6.7	8	7.7	6.1	5.6	9	5.7	2.6	5.2	4.5	7.4	7.8	5.8	4.8	9	4	24
5	5.3	6.1	6	5.8	5.9	7.7	8.3	8.5	6.3	5.9	6.3	7.6	8.4	8.3	8.5	7.8	9.3	7.8	4.1	3.9	1.4	0.7	2.2	3.8	9.3	6.1	24
6	3.6	5.5	3.6	3.4	3.9	7.9	2.4	1.3	1.6	6.1	4.9	4.5	2.5	5.6	4.9	4.1	4.3	0.9	1.9	1.2	0.6	0.5	0.3	0.9	7.9	3.2	24
7	0.3	0	0.1	0.5	1.1	0	0.4	0.1	1.4	0.8	3	0.6	0.6	1.6	1.5	2.4	0.9	4.5	1.3	0.5	0.5	0.3	0.3	3.4	4.5	1.1	24
8	0.5	4.3	0.6	0.4	2.7	3	0.8	0.8	2.9	0.4	4.8	6.6	3.3	4.6	6.5	7.8	4	3.5	1.1	1.3	0.7	0.9	0.7	1.1	7.8	2.6	24
9	0.7	0.9	0.3	0.3	0.2	1.5	1	0.5	1.1	0.5	1.1	4.2	2.9	4.9	5.5	4.5	5.1	1.7	0.3	1.5	0.3	0.4	0.5	0.8	5.5	1.7	24
10	0.4	0.2	1.1	1.1	1.4	0.6	0.6	3.7	4	4.1	4	5.9	6.7	5.9	5.8	6.3	6	5.8	6.7	3.7	2.6	3	0.2	0.1	6.7	3.3	24
11	0.6	0.7	0.2	0.7	3.9	3.7	5	2.4	3.6	4.3	5.9	8.6	8.4	7.9	7.1	6.6	5.1	4.7	3.8	4.5	1.5	0.2	1.9	0.2	8.6	3.8	24
12	0.4	0.3	1	0.1	0.4	1	1.2	0.6	0.9	0.2	0.9	0.9	1.4	1.3	2.4	0.6	3.7	1.4	0.7	0.7	9.7	0.6	0.4	0.3	9.7	1.3	24
13	0.6	0.7	0.2	0.3	1.2	0.4	0.3	0.7	0.3	6.1	1.6	1.7	1.4	3.1	1.4	1.7	1.2	0.3	0.5	0.5	0.1	0.2	0.7	0.1	6.1	1.1	24
14	1	0.6	0.8	2.1	1.8	4.9	1.4	1.5	2.3	3.9	3.7	4.1	5.7	8.6	7.1	6.8	5.8	4.5	5.5	4.7	5.5	6.4	5.4	5.2	8.6	4.1	24
15	6.8	3.5	3.4	2.3	1.3	0.9	1.3	4.2	1.3	6	5.6	4.6	3.5	4.7	5	3.8	0.8	2	1.8	2.4	2.6	1.6	0.5	1.8	6.8	3.0	24
16	2.5	3.6	2.4	2	2.3	5	6.1	6.8	5.3	7.4	5.9	5.1	7.2	6	6.9	6.1	3.3	1.1	1.6	1.1	1	0.5	0.8	0.9	7.4	3.8	24
17	1.9	1.7	2.1	4.1	5.5	7.2	5.6	6.8	8.1	6.3	7.6	8.1	9.7	10.1	9.5	10	10.4	10.3	10.4	9.9	9	10.3	9	8.8	10.4	7.6	24
18	8.3	10	10.1	9.2	6.1	4.5	3.5	1.8	2.5	4.1	1.1	5.4	4.3	4.8	4.3	6.1	7.4	12.1	**17.7**	15.2	16.5	15.6	11.3	7.7	17.7	7.9	24
19	4.2	2.4	4.9	2.3	1.9	2.6	3	1.8	2.4	1.5	1.6	2.4	2.5	4.5	3.4	4.2	4.9	6.3	7.1	6.4	7.9	7.1	9.2	8.5	9.2	4.3	24
20	10.5	9.7	8.6	7.4	6.7	7.8	5.1	5.5	5.4	5.2	0.9	0.7	2.3	5.5	4.8	5	4.6	3.1	1.1	0.5	0.4	0.6	1.4	2.9	10.5	4.4	24
21	3.4	8.1	9	6.2	6.4	9.7	7.9	4.7	4.4	6.1	5.5	3.9	2.1	0.6	5.4	3.7	0.5	1.1	0.6	0.4	0.2	0.9	0.5	0.8	9.7	3.8	24
22	0.6	5.2	7.2	5.9	4.1	5.2	6.5	7.6	8.5	8.9	9.2	8.5	9.4	9.2	10.2	11	12	12.2	11.3	12.8	12.4	11.4	11.4	12.3	12.8	8.9	24
23	14.4	16.5	17.3	15.7	15.3	13.7	10	10.7	10.3	7.9	8.8	7.8	6.3	4.2	5.4	4.7	4.1	3.3	0.6	0.8	0.5	0.3	1	1.1	17.3	7.5	24
24	1.7	4.5	2.9	1.1	2.6	0.1	1	0.4	1.9	1.7	5.1	5.4	5.2	4.1	3.7	5.4	4.9	2.7	2	0.5	0	0.7	3.2	4.4	5.4	2.7	24
25	4.8	5.2	4	5.4	5.7	6.6	6.5	4.2	3.1	7.9	7.8	8.5	8.7	8.8	8.4	10	9.6	10.9	11	11.2	10.2	9.3	8.7	8.4	11.2	7.7	24
26	8.4	10.1	7.3	4.7	3.4	5.4	6.3	7.4	7.6	6.2	8.5	7.1	6	5	4.5	4.8	5	3.3	0.5	1.6	1.1	1.3	1.2	1.3	10.1	4.9	24
27	1.3	2.3	0.1	4.1	4.2	4	3.8	2.3	2.5	4.5	3.9	3.4	4	3.4	3.8	**P**	3.3	**P**	**P**	**S**	**S**	**S**	**S**	**S**	4.5	3.2	16
28	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	NA	NA	0
HOURLY MAX	14.4	16.5	17.3	15.7	15.3	13.7	10.0	10.7	11.2	11.7	12.9	13.2	13.0	14.7	14.5	13.6	13.2	12.2	17.7	15.2	16.5	15.6	11.4	12.3			
HOURLY AVG	3.9	4.5	4.4	4.2	4.3	4.7	3.9	3.8	4.2	5.1	5.3	5.7	5.5	6.0	6.2	6.4	5.5	4.8	4.3	4.1	4.0	3.5	3.3	3.4			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE



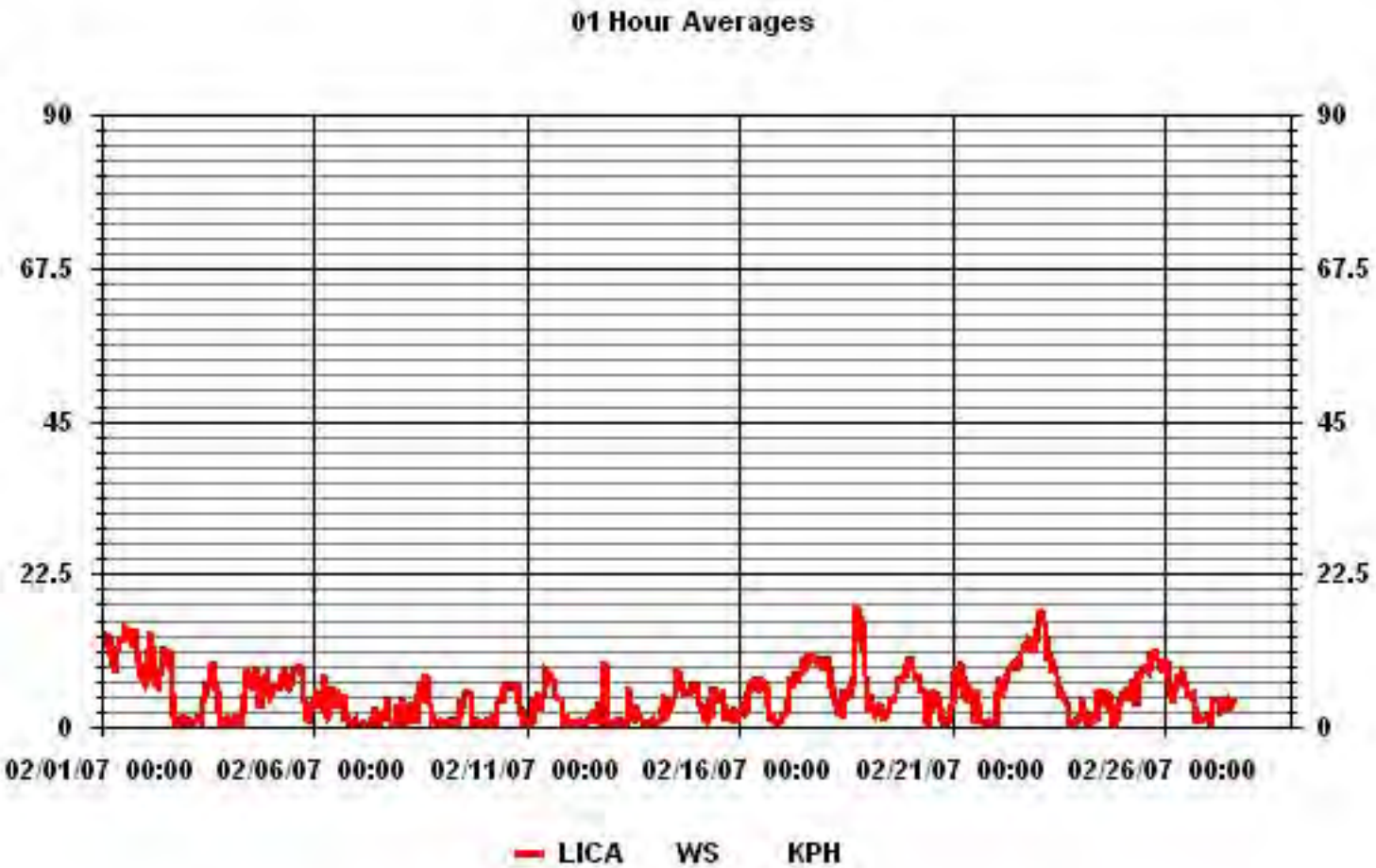
LAST CALIBRATION: NA

MONTHLY SUMMARY

MAXIMUM 1-HR AVERAGE:	17.7	KPH	@ HOUR(S)	19	ON DAY(S)	18
MAXIMUM 24-HR AVERAGE:	10.4	KPH			ON DAY(S)	1

CALMS (≤ 0 KPH)	5.51	%	OPERATIONAL TIME:	640	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME	95.2	%
STANDARD DEVIATION:	3.78		MONTHLY AVERAGE:	4.62	KPH

MOUNTAIN STANDARD TIME



MAXXAM ANALYTICS INC

LICA
WS / WD Joint Frequency Distribution (Percent)

February 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : WS
Units : KPH

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 6.0	1.87	3.28	5.93	3.75	7.34	5.00	2.18	1.25	3.28	3.43	9.06	7.18	2.34	1.71	1.71	1.71	61.09
< 12.0	.15	.00	1.87	.78	12.50	2.96	.62	.15	.00	.62	1.40	1.56	.78	1.09	1.09	1.87	27.50
< 20.0	.00	.00	.00	.00	1.71	.00	.00	.00	.00	.00	.00	1.09	.46	.78	.78	.15	5.00
< 29.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 39.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 39.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.03	3.28	7.81	4.53	21.56	7.96	2.81	1.40	3.28	4.06	10.46	9.84	3.59	3.59	3.59	3.75	

Calm : 6.40 %

Total # Operational Hours : 640

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 6.0	12	21	38	24	47	32	14	8	21	22	58	46	15	11	11	11	391
< 12.0	1		12	5	80	19	4	1		4	9	10	5	7	7	12	176
< 20.0					11							7	3	5	5	1	32
< 29.0																	
< 39.0																	
>= 39.0																	
Totals	13	21	50	29	138	51	18	9	21	26	67	63	23	23	23	24	

Calm : 6.40 %

Total # Operational Hours : 640

Logger : 01 Parameter : WS

Class Limits (KPH)

>= 39.0

< 39.0

< 29.0

< 20.0

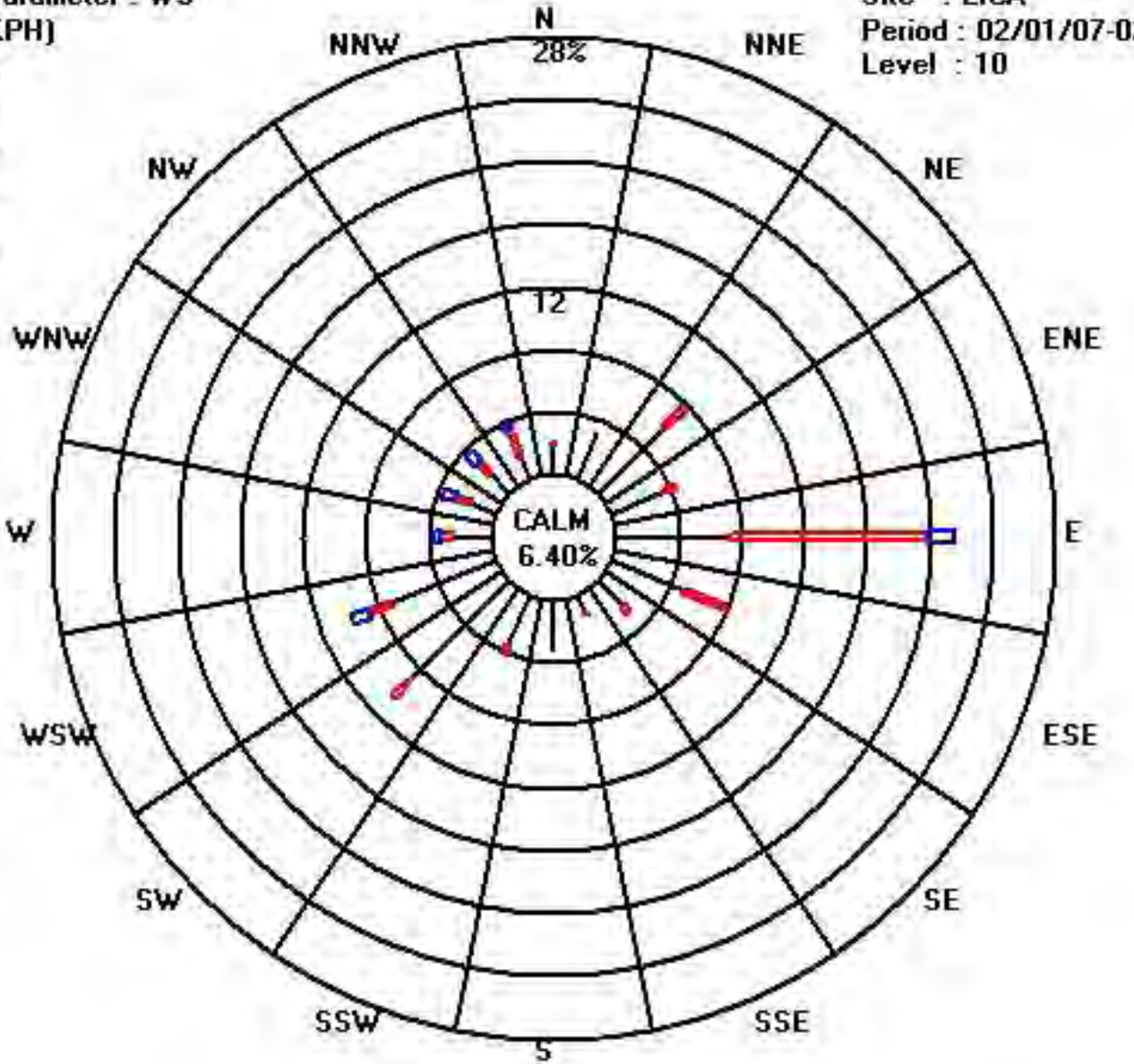
< 12.0

< 6.0

Site : LICA

Period : 02/01/07-02/28/07

Level : 10



LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

FEBRUARY 2007

VECTOR WIND SPEED MAX instantaneous maximum in km/hr

HOUR START HOUR END DAY	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	DAILY MAX.
1	21.1	16.6	**22.8**	19.1	20	15.6	15.3	11.2	14.4	17.4	17.4	18.7	22.4	**19.9**	**21**	18.8	17.9	16.8	21	20.8	16.6	12.4	10.4	10.8	22.8
	N	NW	**NW**	NW	NW	NW	WNW	WSW	WSW	WSW	WSW	WSW	WSW	**WSW**	**WSW**	WSW	WSW	W	W	W	W	W	W	W	NW
2	10	11.5	**21.7**	19.2	18.7	17.3	12	7.6	16.1	13.1	15.3	16.2	14.3	15	15.9	16.6	9.3	3.8	2.5	6.3	1.2	3.2	3.2	2.3	21.7
	WSW	WNW	**NW**	NW	NW	NNW	NW	WNW	NNW	NNW	NW	NNW	NNW	NNW	NW	NW	NW	WNW	WSW	N	NNW	SSE	SW	SW	NW
3	**56**	30.2	3.4	4.1	2.2	12.2	**70.5**	5.1	4.4	10	31	12.2	10.3	12.6	13.6	14.2	10.4	10.4	5.2	3.2	5.7	5.7	12.6	13.8	70.5
	NE	SSW	SW	N	N	S	**SSE**	SW	SW	WSW	NE	W	WSW	SW	SSW	SW	SW	SW	SW	E	S	S	N	NNW	SSE
4	19.1	12.3	6.6	6.3	**38.1**	6.3	8.4	7.7	13.1	13.2	13.1	13.1	14.3	10.3	9.7	13.4	10.9	17.3	9.5	7.3	11.8	12.4	9.2	6.9	38.1
	SSW	N	N	SW	**SSW**	S	S	E	E	E	E	E	E	E	E	E	E	W	ESE	ESE	SE	SE	SE	ESE	SSW
5	8	9.3	9.1	9	8.6	12.7	14.5	14.2	12.8	9.3	9.5	11.2	13.1	13.3	15.2	10.7	14.7	15.3	7.1	6	4.4	**34**	**37.8**	6.2	37.8
	ESE	E	E	SE	ESE	SE	SE	SE	ESE	E	E	E	E	E	E	ENE	E	E	NE	NNE	N	**SE**	**SE**	NW	SE
6	7	8.6	20.9	6.2	7.1	13.6	6.1	3.5	32.3	10.3	11.1	11.2	8.4	10.1	9.6	6.5	7.2	2.8	**62.7**	3.3	2.5	2.4	10	18.4	62.7
	N	N	S	N	NW	NW	NNW	WNW	SSW	N	NNE	N	WSW	SW	SW	WSW	SW	WSW	**SW**	NE	ENE	ENE	WNW	S	SW
7	2.4	3.7	10.1	2.8	4.5	19.3	13.8	9.7	3.4	4.9	28	**37.7**	**38.4**	4.6	12.2	5.4	5.9	7.1	5.2	3.6	2.1	2.3	5.2	**34.9**	38.4
	WSW	WSW	S	W	WSW	N	N	SE	W	S	SSE	**E**	**WNW**	ENE	W	E	WSW	WSW	WSW	N	NE	WSW	WNW	**SSW**	WNW
8	16.9	**89.6**	**41.1**	12.6	6.4	**53.5**	30.4	16.6	32.1	34.6	11.3	10.9	24.3	8.5	20.2	12.1	8	6.5	6.3	34.2	4.5	6.6	8.6	3.9	89.6
	N	**SW**	**SW**	S	NE	**SSW**	SW	N	SE	SSW	N	NE	SSW	NNW	S	WSW	WSW	WSW	S	NE	SW	N	S	WSW	SW
9	23.3	3.5	14.2	4.3	16.3	4.7	3.9	10.7	27.5	4.9	**37.9**	6.1	36.3	8.4	8	9	8.9	3.2	5	5	6.1	3.1	3.2	28.4	37.9
	SSE	WSW	SSE	SW	N	WSW	W	SE	SE	N	**SSW**	N	SSW	WSW	WSW	WSW	SW	SSW	N	S	N	SSW	SW	NW	SSW
10	3	14.3	14.2	4.7	**34.3**	5.3	5.2	6.6	7.3	6.6	10	9.9	10	9.8	9.1	12.3	9.6	9.4	9.3	7.1	7	6.3	5	3	34.3
	WSW	S	NE	SE	**NE**	NNW	SE	WSW	SW	SW	NE	SW	SSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	ENE	NE
11	14.8	5.3	1.8	3.8	6.1	6.5	9.3	**23.3**	6.3	8	9.3	13.3	12.9	10.8	10.7	10.2	9.9	6.3	7.3	**79.1**	22.3	9.9	28.5	2.2	79.1
	N	S	W	NE	NNE	NE	NNE	**S**	NNE	NNE	NE	NE	ENE	ENE	NNE	ENE	ENE	NE	NE	**SW**	SSW	N	N	W	SW
12	4.9	5.4	4.2	1.3	12.5	3.4	2.7	14.9	2.5	5.3	20.5	29.4	14.1	8	6.1	4	6.8	7	16	2.6	**48.6**	31.8	4.8	2.9	48.6
	NNE	S	WSW	E	S	SSE	WSW	N	WSW	N	NW	NNE	SE	NW	SE	ENE	W	N	N	N	**NE**	NNE	W	S	NE
13	11.6	12.5	5.6	10.1	9.7	16.2	5.4	12.4	14.4	**39.4**	4.5	31.1	26.1	5.6	4.5	5.2	4.8	3	2.2	25.6	2.1	6.9	4.1	2	39.4
	N	S	S	W	S	S	S	N	S	**SE**	E	SSW	SSW	E	E	WNW	E	N	SSE	NNW	NW	S	N	W	SE
14	51.4	5.9	3.3	4	2.8	10.6	3.9	4.3	**84.6**	8.9	7.4	9.5	10.7	14.9	12.8	11.5	13.2	9.4	9.4	9.2	11.4	15.5	12.2	12.7	84.6
	SSW	SSE	ESE	ESE	N	ESE	W	ESE	**SSE**	ESE	SE	SSE	S	SSW	S	S	SSE	S	S	S	S	SSW	S	SW	SSE
15	**11.2**	6.2	7.5	6.9	4.1	4	5.9	6.9	5.3	8.6	8.7	9.4	7.1	9.2	8.9	7.9	3.9	4.9	3.8	4.9	6	4.1	2	3	11.2
	SW	SSW	SW	SW	SW	NE	N	SW	SW	WSW	SW	SW	SW	SSW	SW	SW	SSW	NE	NE	NNE	W	NE	SSE	E	SW
16	4.4	6.7	4.8	4.9	6.1	9.3	11.5	11.2	10.5	11.3	9	9.2	**12.2**	9.5	9.6	9.7	6.3	3.8	4.9	4.4	3.9	4.1	4.3	3.4	12.2
	NE	NE	ENE	N	N	NNW	NNW	NE	NE	NE	NE	NE	**NE**	ENE	NE	NE	NNE	NE	NNW	N	SE	ESE	N	SW	NE
17	3.5	3.8	19.2	7.6	10.8	12.7	9.3	10.4	14.8	10.5	12.5	14.9	15.3	15.8	17.1	15.8	**19.2**	14.6	**19.5**	16.1	13.9	16.3	14.3	16.1	19.5
	NE	NE	WNW	E	E	E	E	E	E	E	E	E	E	E	E	E	**E**	E	**E**	E	E	E	E	E	E
18	12.9	15.9	14.8	18.2	12.3	7.8	8.9	3.5	4.9	8.8	8.8	8.1	7.4	9	12.3	12.2	11.7	**21.2**	**28.1**	24	23.6	23.3	16.3	11.3	28.1
	E	SE	ESE	ESE	SE	SE	SE	ESE	SE	SE	WSW	SW	WSW	SW	SW	SW	SW	**SW**	**WNW**	WNW	NW	WNW	NW	WNW	WNW
19	6.6	5.7	7.3	5.6	3.7	7.8	7.9	3.4	4.9	5.1	4.4	6.5	8.5	8.2	7	9.3	8.5	**15.2**	11.8	9.5	14	10.4	14.8	12.5	15.2
	WNW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	NW	E	WSW	E	NE	E	ENE	**E**	E	E	E	E	E	E	E
20	**17.2**	17.1	14.2	12.3	12.2	14.4	8.5	11.8	8.6	9.3	7.7	6	6.8	9.9	9.2	7.6	7.8	7	6.5	3.4	4.9	2.8	3.8	8.2	17.2
	E	E	E	E	SE	E	ESE	ESE	SE	SE	SE	SE	W	W	W	SW	WSW	W	N	SSE	SW	S	WSW	NNW	E
21	10	12.5	12.8	10.7	12.5	14.7	13.7	9.7	9.5	10.2	11.9	12.3	9.4	6.3	8.8	7.1	4	5.3	2.6	7.6	13.6	**17.1**	3	2.2	17.1
	NW	NW	NW	NNW	NW	NNW	NW	NNW	N	N	N	N	N	W	WSW	WSW	SW	E	N	N	NW	**S**	NE	SE	S
22	**22.2**	13.4	13.7	10	7.9	9.4	12.3	13.8	13.2	13.1	14.2	13.8	15.5	18.1	18.9	**19.6**	16.7	17.6	17.2	19.6	18.1	17.8	17.2	17	22.2
	WNW	E	E	ENE	E	E	E	E	E	E	E	E	E	E	E	**E**	E	E	E	E	E	E	E	E	WNW
23	21.4	27.7	**28.2**	**23.2**	22.6	23.1	17	15.1	18.2	12.6	15.1	12.7	11.2	8.4	7.8	7.7	6.3	6.7	3	2.1	1.8	3.1	3.6	2.9	28.2
	E	E	**E**	**E**	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	NE	SE	S	NW	E	E
24	4.5	8.3	5.4	4.4	4.2	2	3.9	9.9	3.1	7.3	9.9	8.6	**10.3**	6.9	6.7	9.4	6.9	4.7	3.2	2.3	2.4	2	7.5	9.8	10.3
	S	W	SW	WNW	ESE	ESE	E	S	W	SE	SE	E	**E**	E	ENE	N	NNE	NE	NE	E	SW	E	SE	E	E
25	9.2	9.1	7.2	9.6	9.3	11.8	11	7.4	5.4	13.5	15.2	15	16.9	13.7	14.1	17.3	14.8	17.2	16.1	**19.2**	17.7	16.9	13.2	13.3	19.2
	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	**E**	E	E	E	ESE	E
26	**17.3**	13.8	13.1	7.7	7.3	11.8	11.9	12	12.4	10.1	16	12.8	9.8	9.9	8.6	7.5	9.1	6	1.8	2.7	2.8	3.5	8.7	3.4	17.3
	SE	SE	SE	SE	SE	SE	SE	E	E	ESE	E	E	E	E	SE	E	SE	E	NNE	ENE	NE	E	S	NE	SE
27	3.2	4.4	6.9	7.6	8.9	6.9	7.1	**10.2**	4	9.2	7.3	7.1	6.3	7	6.5	P	5.9	P	P	NA	NA	NA	NA	NA	10.2
	NE	ENE	S	E	E	E	E	**SSW**	ENE	E	E	N	NNE	N	ENE	-	N	-	-	-	-	-	-	-	SSW
28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PEAK	56.0	89.6	41.1	23.2	38.1	53.5	70.5	23.3	84.6	39.4	37.9	37.7	38.4	19.9	21.0	19.6	19.2	21.2	62.7	79.1	48.6	34.0	37.8	34.9	
	NE	SW	SW	E	SSW	SSW	SSE	S	SSW	SE	SSW	E	WNW	WSW	WSW	E	E	SW	SW	SW	NE	SE	SE	SSW	

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

***INSTANTANEOUS MAXIUM BASED ON ONE-MINUTE AVERAGES**

NOTE: WIND DIRECTION CORRESPONDS TO WIND SPEED MAXIMUMS

MONTHLY SUMMARY

MAXIMUM INSTANTANEOUS READING	89.6	KPH	@ HOUR(S)	2
	SW	DEG	ON DAY(S)	8

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc

VECTOR
WIND DIRECTION

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION -*COLD LAKE*

FEBRUARY 2007

VECTOR WIND DIRECTION (WD) hourly averages in degrees

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-HOUR	24-HOUR AVG	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	AVG.	QUANDRANT	RDGS.
DAY																											
1	337	326	317	313	312	298	286	243	256	253	247	254	257	250	251	251	256	262	264	267	265	263	267	261	272	W	24
2	252	264	307	318	320	328	303	294	312	316	338	335	347	321	298	300	313	284	208	238	217	169	225	222	311	NW	24
3	86	219	229	236	204	201	148	226	229	246	257	241	240	219	217	228	225	237	221	188	251	265	67	267	229	SW	24
4	323	346	264	49	207	222	25	94	75	85	85	84	85	86	83	85	86	110	121	107	121	122	118	111	96	E	24
5	102	97	103	112	109	118	127	122	114	107	101	94	92	89	79	74	81	83	48	18	338	94	12	294	94	E	24
6	317	11	5	352	322	330	335	267	341	4	6	12	282	232	226	254	227	227	221	76	91	243	103	170	318	NW	24
7	210	244	22	221	248	46	243	199	236	268	192	190	355	308	64	96	206	240	235	224	68	196	33	210	222	SW	24
8	342	216	254	183	45	195	213	315	160	253	15	34	39	356	250	244	238	235	227	359	246	223	251	243	269	W	24
9	175	295	230	81	325	247	251	201	217	288	319	39	189	251	237	241	220	219	217	229	131	200	225	313	237	SW	24
10	240	266	258	219	11	284	249	230	240	235	244	232	226	224	221	224	225	222	242	248	238	231	184	87	232	SW	24
11	263	249	239	31	32	35	31	29	26	34	43	51	52	47	48	59	67	43	41	230	32	118	1	315	42	NE	24
12	99	181	260	28	183	233	229	299	251	311	270	214	32	339	117	61	256	235	328	48	38	216	235	260	342	NNW	24
13	16	205	34	326	215	349	214	241	186	146	107	157	109	94	74	335	67	146	133	292	208	159	59	116	122	ESE	24
14	178	124	119	117	100	130	170	111	121	113	143	179	193	204	192	165	181	176	177	182	184	199	190	187	172	S	24
15	213	212	207	210	213	33	209	226	216	245	236	229	210	236	224	225	223	79	51	34	248	54	101	80	221	SW	24
16	43	41	44	355	345	339	344	44	47	41	42	64	43	52	52	49	31	28	324	22	120	189	99	298	35	NE	24
17	36	71	90	64	74	91	82	77	81	83	89	86	83	91	88	89	86	92	92	96	99	95	101	96	88	E	24
18	95	106	105	113	113	99	102	119	133	136	252	249	252	223	197	230	228	292	291	292	303	303	311	297	277	W	24
19	276	233	244	244	262	237	233	224	235	272	285	92	268	104	95	97	70	84	92	95	99	100	89	101	108	ESE	24
20	92	88	89	93	106	104	108	121	119	127	155	16	55	269	251	229	230	269	168	126	109	151	238	285	115	ESE	24
21	323	316	338	346	335	344	335	342	357	342	338	16	38	210	247	257	203	144	178	243	18	172	98	99	333	NNW	24
22	49	90	95	84	68	78	79	90	99	104	98	93	74	90	87	85	81	83	85	84	87	85	84	81	86	E	24
23	83	85	89	92	86	91	89	87	84	83	88	87	89	79	73	76	83	93	127	93	153	243	255	127	87	E	24
24	152	248	229	268	113	48	64	307	271	185	126	110	84	83	66	24	35	45	37	87	293	91	111	93	88	E	24
25	82	93	88	81	86	76	83	55	45	86	84	97	96	93	87	81	85	85	88	89	90	96	101	115	88	E	24
26	119	128	136	138	125	119	122	111	98	104	92	105	100	98	104	103	110	96	79	67	51	85	50	46	109	ESE	24
27	52	63	43	84	79	79	73	36	43	94	87	44	45	45	37	**P**	28	**P**	**P**	**S**	**S**	**S**	**S**	**S**	62	ENE	16
28	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**NA**	**NA**	0
HOURLY AVG	342	346	338	355	345	349	344	342	357	342	338	335	355	356	298	335	313	292	328	359	338	303	311	315			

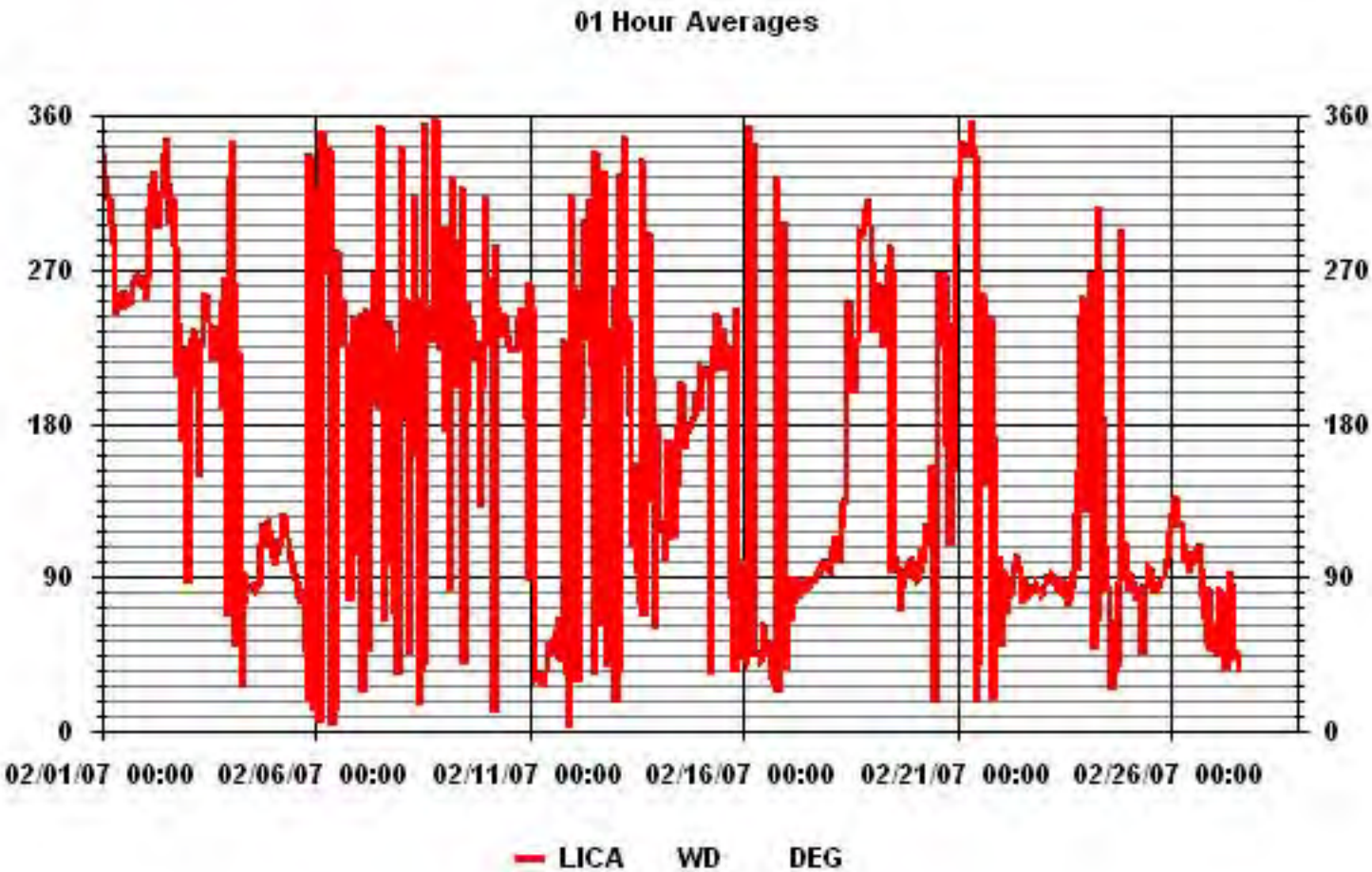
STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

LAST CALIBRATION:	NA
DECLINATION :	19 DEGREES FROM MAGNETIC NORTH

MONTHLY CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	640	HRS
STANDARD DEVIATION:	94.76		AMD OPERATION UPTIME:	95.2	%
			MONTHLY AVERAGE:	163.26	DEG

MOUNTAIN STANDARD TIME



MAXXAM ANALYTICS INC

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

FEBRUARY 2007

STANDARD DEVIATION WIND DIRECTION (STDWDIR) hourly averages in degrees

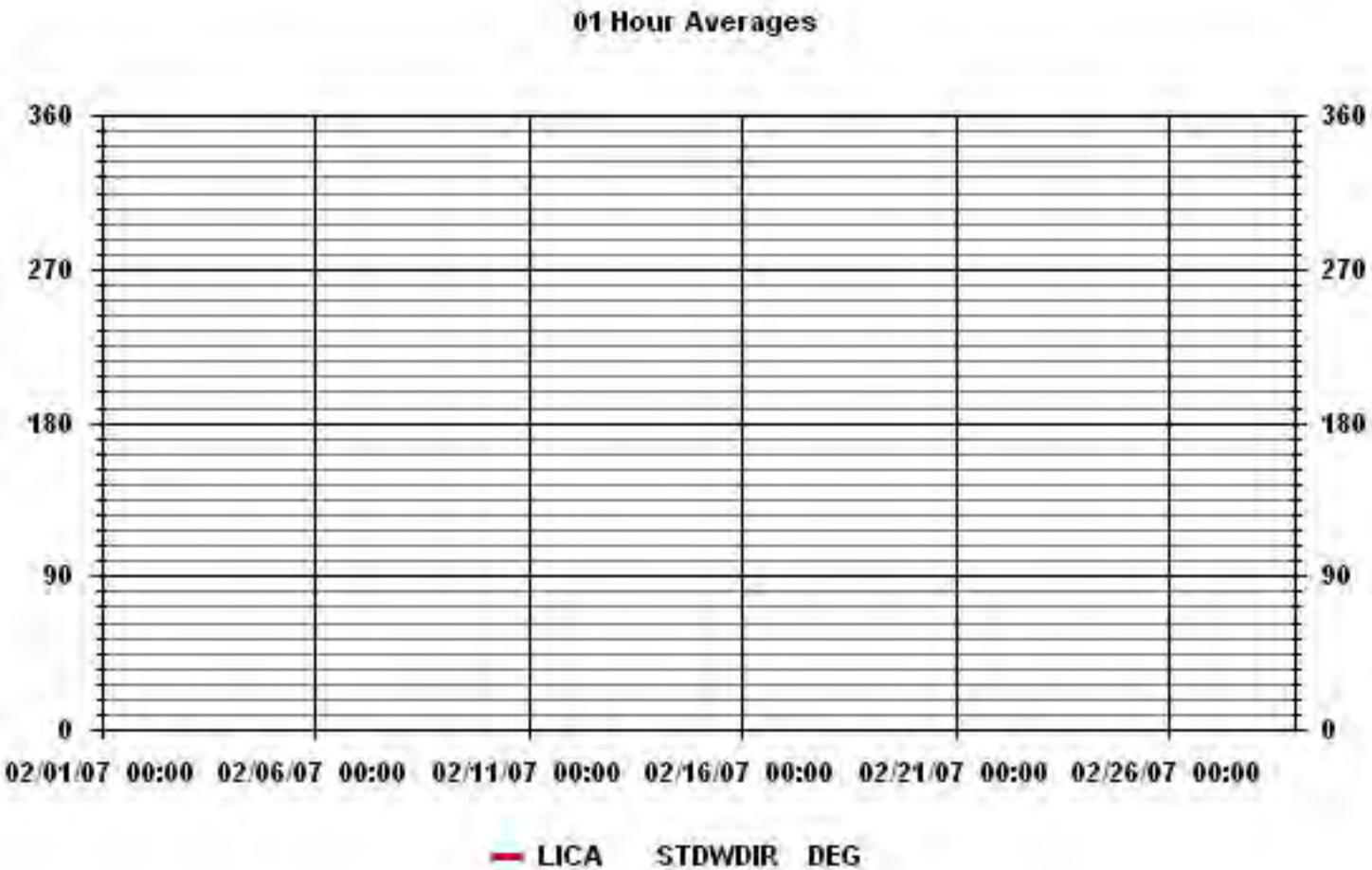
HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
DAY																								
1	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
3	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
5	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
6	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
7	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
8	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
9	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
10	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
11	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
12	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
13	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
14	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
15	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
16	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
17	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
18	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
19	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
20	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
21	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
22	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
23	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
24	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
25	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
26	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
27	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
28	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

LAST CALIBRATION: NA

MOUNTAIN STANDARD TIME



MAXXAM ANALYTICS INC

TEMPERATURE

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

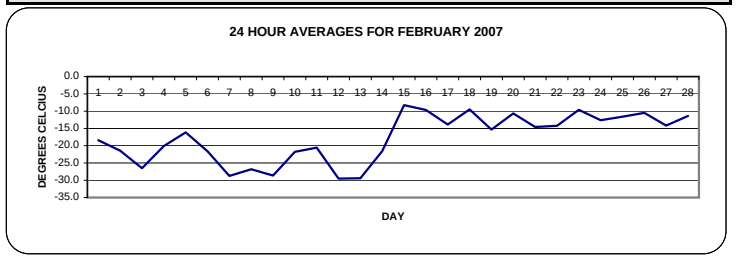
FEBRUARY 2007

AMBIENT TEMPERATURE hourly averages (Degrees C)

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.
DAY																										
1	-17.7	-18.6	-18.9	-19.4	-19.8	-20.5	-21.2	-22.2	-22.6	-21.5	-20	-18.3	-16.5	-15.4	-14.7	-14.6	-15.6	-16.4	-17	-17.1	-17.4	-18	-18.7	-19.6	-14.6	-18.4
2	-20	-19.9	-17.9	-17.7	-18.3	-19	-20	-21.3	-21.3	-20.7	-20	-19.6	-19	-18	-17.5	-17.3	-17.8	-20.7	-24	-26.5	-27.8	-29	-30.3	-31	-17.3	-21.4
3	-31.6	-32	-32.7	-33	-33.3	-33.6	-33	-33	-32.7	-28.2	-23.8	-20.7	-18.8	-19	-18.6	-18.3	-19.3	-20.8	-22.6	-24.5	-25.5	-26.1	-27	-28.3	-18.3	-26.5
4	-28.7	-29.3	-29.2	-27.6	-25.9	-24.7	-23.4	-21.4	-20.2	-19.6	-18.7	-17.8	-17	-16.4	-16	-15.7	-16.6	-16.7	-16.2	-16.2	-16.2	-16.3	-16.2	-16.1	-15.7	-20.1
5	-16.3	-16.5	-16.6	-16.7	-16.6	-16.5	-16.5	-16.5	-16.6	-16.3	-16	-15.7	-15.2	-15	-15.2	-15.4	-15.6	-15.5	-15.3	-15.6	-16.8	-17.8	-16.9	-16.5	-15.0	-16.2
6	-16	-15.9	-16.4	-16.6	-17.1	-18.9	-20.7	-24.3	-24.3	-22.5	-21.4	-19.9	-18.5	-17.5	-17.6	-17.1	-18.7	-21.7	-24.8	-26.9	-28.2	-30	-31.2	-32.2	-15.9	-21.6
7	-33.1	-33.7	-34.3	-35	-35.7	-36.3	-36.2	-36.3	-35.9	-32.4	-29.5	-25.3	-22.3	-19.3	-19	-19.4	-19.6	-21.1	-23	-25.6	-27.6	-29.1	-29.8	-30.3	-19.0	-28.7
8	-30.9	-30.6	-31	-31.7	-29.1	-26.5	-27.9	-29.8	-30.3	-25.4	-24.2	-23.6	-22.4	-20.9	-20.5	-21	-20.9	-23	-25.6	-27.6	-28.9	-29.8	-30.4	-31.7	-20.5	-26.8
9	-32.7	-33.4	-34.1	-33.7	-34	-34.2	-33.7	-33.2	-32.3	-29	-25.9	-25	-22.8	-21.1	-20.5	-20	-21	-23.3	-26.2	-28.4	-29.3	-30.2	-31.4	-32	-20.0	-28.6
10	-32.7	-33.1	-33.4	-31.5	-28.4	-27	-26.2	-25.2	-24.3	-22.9	-20.9	-19	-17.1	-15.8	-15.9	-14.7	-15.5	-16	-16.2	-16.5	-16.7	-17	-18.1	-18.5	-14.7	-21.8
11	-18.7	-18.6	-18.5	-18	-17.9	-18.3	-19	-19.3	-19.4	-19.3	-19	-19.1	-18.6	-18.5	-17.5	-17	-17.6	-19.4	-21	-24.2	-25.5	-27.3	-30.1	-31.8	-17.0	-20.6
12	-33.3	-34.4	-35.4	-35.9	-36.5	-37.2	-37.7	-37.7	-36.2	-30.9	-25.8	-23	-21.7	-20.3	-19.9	-18.8	-19.3	-22.7	-26.1	-28.1	-30	-31.6	-32.5	-33.7	-18.8	-29.5
13	-34.6	-35.4	-36	-36.3	-37.2	-37.5	-37.9	**-38.2**	-36.7	-31.7	-27.4	-25	-21.5	-19.5	-17.7	-17.3	-17.6	-21.1	-25.3	-28	-29.6	-30.8	-31.3	-32.2	-17.3	-29.4
14	-33.2	-33.5	-33.3	-32	-32.4	-29.6	-30.9	-31.3	-30.8	-25.3	-21.3	-17.9	-16.3	-15.8	-15.3	-15	-14.1	-13.5	-12.9	-12.6	-12.3	-12.3	-12.7	-12.8	-12.3	-21.5
15	-12.3	-12.6	-12.3	-13	-15.1	-16.8	-18	-16.7	-16.1	-10.3	-5.6	-2.7	-0.7	0.7	1.6	**2**	-0.1	-3.1	-5.4	-7	-7.9	-8.4	-8.7	-9.6	2.0	**-8.3**
16	-8.4	-6.8	-6.7	-6.6	-6.1	-5.8	-6.4	-8.4	-9	-9.4	-9.5	-9.4	-9.4	-9	-8.7	-8.9	-9.2	-10.1	-12.3	-14.8	-14.6	-14.3	-14.3	-13.5	-5.8	-9.7
17	-14.3	-15.6	-14.8	-14.4	-14.3	-14.4	-14.4	-14.5	-14.6	-14.5	-14.3	-13.9	-13.6	-13.2	-13	-13.2	-13.3	-13.3	-13.5	-13.4	-13.6	-13.4	-12.9	-12.5	-12.5	-13.9
18	-12.3	-12.5	-12.8	-12.6	-12.3	-12.1	-12.5	-14.1	-13.9	-11.6	-8.8	-6.9	-4.6	-3	-2.4	-2.5	-1.8	-1.3	-4.4	-8.5	-11.4	-13.8	-15.3	-16.5	-1.3	-9.5
19	-17.5	-19.8	-20.9	-20.8	-19	-17.8	-17.5	-16.9	-16	-15.1	-14.2	-13.9	-13.1	-13	-12.8	-12.5	-12.7	-12.9	-13.1	-13.3	-13.6	-13.6	-13.7	-14	-12.5	-15.3
20	-14	-13.8	-13.8	-13.5	-13.4	-13.2	-12.9	-12.8	-12.5	-11.6	-10	-8.3	-7.6	-6.6	-6.5	-7.1	-7	-8.6	-11.1	-12.1	-10.9	-10	-9.4	-9	-6.5	-10.7
21	-8.7	-9	-10.5	-12.6	-13.9	-15.2	-15.8	-16.1	-16.1	-15.8	-15.3	-14.2	-12.9	-12.6	-11.9	-11.2	-11	-13	-15.5	-16.8	-18.5	-19.8	-21.3	-22.1	-8.7	-14.6
22	-22.3	-18.5	-17.4	-17.2	-16.9	-17.1	-17.3	-17	-16.6	-15.8	-15.1	-14.3	-13.1	-11.6	-10.9	-11	-11.3	-11.2	-11.1	-10.9	-11	-11.2	-11.4	-11.7	-10.9	-14.2
23	-11.7	-11.8	-11.6	-11.4	-11.3	-11.2	-11.2	-11	-10.6	-10.2	-9.7	-9.3	-8.6	-8	-7.7	-7.4	-7.5	-7.6	-7.9	-8.5	-8.9	-9.1	-9.3	-9.4	-7.4	-9.6
24	-10	-12.6	-14.2	-15.6	-16.3	-18.1	-19.4	-19.3	-17.4	-13.5	-11.2	-9.7	-8	-6.1	-4.9	-5.4	-7.2	-8.6	-10.8	-13.4	-16.1	-17.7	-14.9	-12.4	-4.9	-12.6
25	-11.8	-12.1	-12.2	-12.3	-12.6	-13	-13.8	-14.6	-15.6	-13.3	-13.3	-13.3	-12.5	-11.2	-9.9	-9.4	-9.2	-9.6	-10	-10.3	-10	-9.6	-9.5	-9.5	-9.2	-11.6
26	-9.6	-10	-10.9	-11.4	-10.9	-10.3	-10.2	-10.1	-9.8	-9.4	-8.7	-8.1	-7	-6.2	-5.7	-5.5	-5.9	-7.7	-10.8	-13.5	-15.7	-17.2	-18.4	-18.9	-5.5	-10.5
27	-17.7	-16.8	-16.7	-14.7	-14.1	-14.3	-14.6	**-15**	-15	-14.2	-13	-11.4	-10.5	-8.9	-8.3	**P**	-8.2	**P**	**P**	-13.2	-15.9	-17.8	-18.5	-18.7	-8.2	-14.2
28	-17.8	-17.6	-16.8	-16	-16.1	-15.7	-15.4	-15	-13.5	-12.6	-11.2	-9.4	-8.2	-8	-6.8	-7	-7.2	-7.6	-7.9	-8.2	-8.4	-8.7	-8.9	-9.2	-6.8	-11.4
HOURLY MAX	-8.4	-6.8	-6.7	-6.6	-6.1	-5.8	-6.4	-8.4	-9.0	-9.4	-5.6	-2.7	-0.7	0.7	1.6	2.0	-0.1	-1.3	-4.4	-7.0	-7.9	-8.4	-8.7	-9.0		
HOURLY AVG	-20.3	-20.5	-20.7	-20.6	-20.5	-20.5	-20.8	-21.1	-20.7	-18.7	-16.9	-15.5	-14.2	-13.2	-12.6	-12.6	-12.9	-14.3	-15.9	-17.2	-18.2	-18.9	-19.4	-19.8		

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE



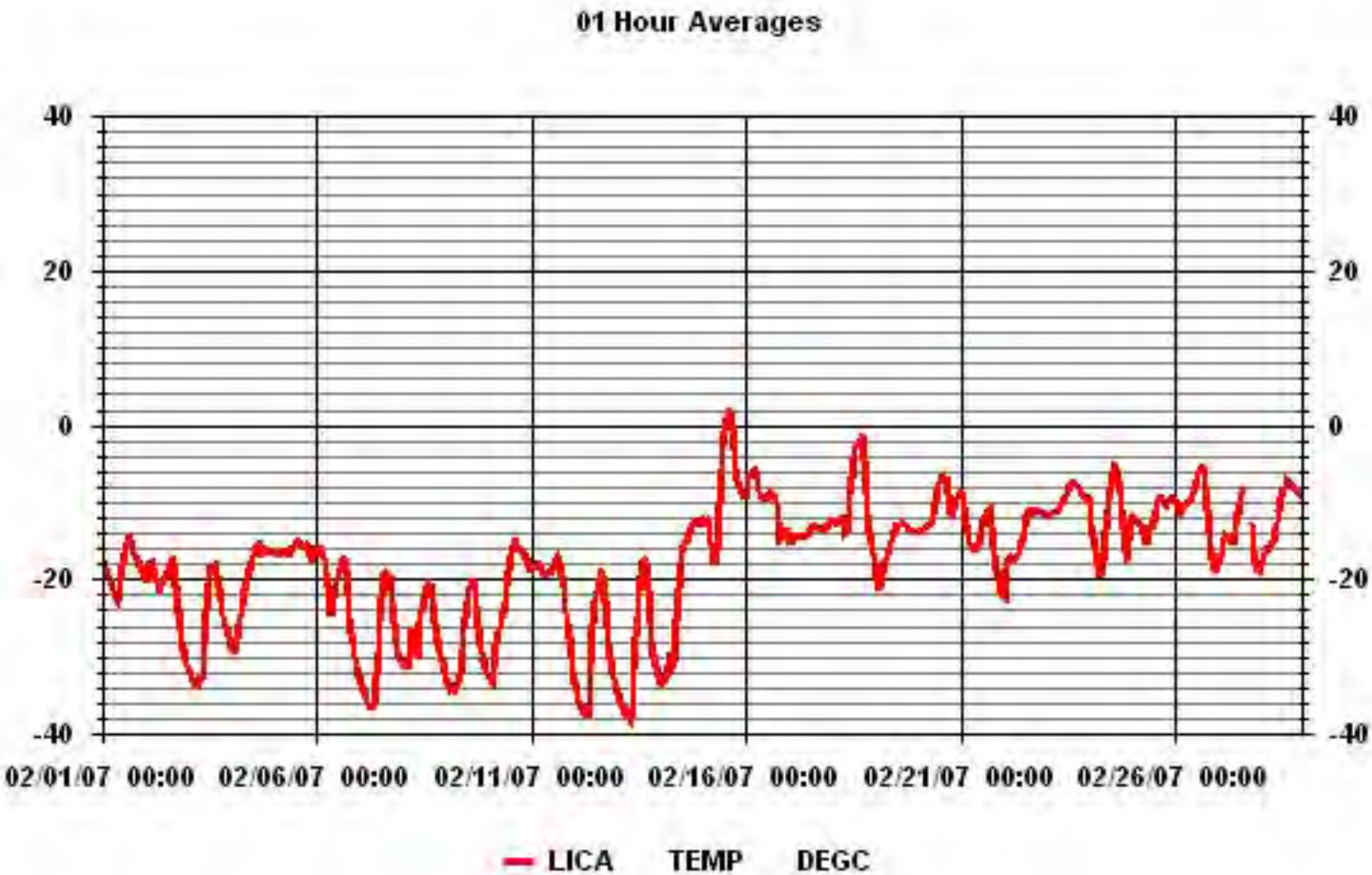
MONTHLY SUMMARY

MINIMUM 1-HR AVERAGE:	-38.2	^{O}C	@ HOUR(S)	8	ON DAY(S)
MAXIMUM 1-HR AVERAGE:	2.0	^{O}C	@ HOUR(S)	16	ON DAY(S)
MAXIMUM 24-HR AVERAGE:	-8.3	^{O}C			ON DAY(S)

CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	669
			AMD OPERATION UPTIME:	99.6
STANDARD DEVIATION:	8.18		MONTHLY AVERAGE:	-17.77

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc



MAXXAM ANALYTICS INC

RELATIVE HUMIDITY

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

FEBRUARY 2007

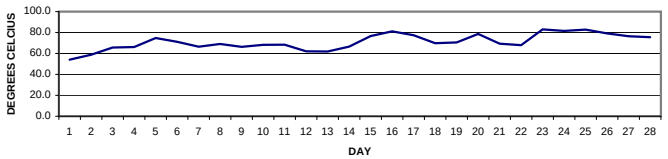
RELATIVE HUMIDITY hourly averages (%)

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.
DAY																										
1	59	61	61	62	59	60	61	62	61	57	53	50	44	40	39	39	42	44	48	53	57	60	62	64	64	54.1
2	63	62	50	49	52	56	61	67	67	64	59	54	51	47	45	45	45	55	66	71	71	71	70	70	71	58.8
3	70	69	69	69	69	69	67	68	67	63	64	57	53	53	53	54	58	64	70	73	75	74	75	73	75	65.7
4	73	72	71	74	73	73	74	75	73	71	67	63	62	61	59	58	60	61	59	60	60	61	63	64	75	66.1
5	65	66	67	68	68	67	65	67	75	77	76	75	74	76	78	80	81	81	82	82	82	82	80	80	82	74.8
6	80	79	77	78	78	75	77	75	77	73	70	65	60	57	57	56	62	73	76	76	74	71	71	70	80	71.1
7	69	68	68	67	67	67	66	67	65	64	65	61	59	55	58	61	63	67	73	75	74	72	72	72	75	66.5
8	71	72	72	71	77	77	74	71	71	72	68	67	63	59	57	57	59	67	73	74	74	71	70	71	77	69.1
9	70	69	68	70	68	67	68	68	66	65	65	67	62	57	54	52	57	69	74	73	73	70	70	70	74	66.3
10	69	70	68	71	73	74	74	74	73	71	66	60	57	54	54	53	61	67	70	73	74	76	78	78	78	68.3
11	77	77	78	77	74	75	75	75	75	71	67	66	63	60	55	50	48	55	61	70	76	72	73	71	78	68.4
12	70	69	67	68	67	66	65	65	64	61	57	53	52	48	47	44	46	59	69	72	72	70	70	69	72	62.1
13	68	67	67	67	66	65	65	65	65	63	64	60	51	45	42	41	43	58	69	70	71	71	72	70	72	61.9
14	70	69	70	72	70	75	71	72	69	72	69	64	59	58	57	59	58	59	59	61	62	66	78	78	78	66.5
15	75	75	75	78	82	83	81	83	81	81	71	64	60	59	58	58	66	79	84	87	89	90	**91**	90	91	76.7
16	**91**	87	86	87	87	85	83	83	83	82	77	73	72	73	71	73	76	80	85	85	84	83	82	80	91	81.2
17	83	84	82	80	79	77	79	78	77	75	73	73	72	71	73	74	75	77	78	79	79	80	80	80	84	77.4
18	81	82	82	83	83	83	84	86	82	75	66	64	57	54	53	57	60	65	65	60	64	59	64	67	86	69.8
19	71	75	78	77	76	75	75	76	74	71	65	64	61	62	60	62	67	70	70	70	71	72	74	77	78	70.5
20	78	79	79	81	82	83	83	83	82	79	74	68	67	67	73	80	73	76	83	84	84	83	83	84	84	78.7
21	83	78	75	76	78	71	69	71	72	68	66	62	58	59	56	55	54	61	69	72	76	78	79	79	83	69.4
22	79	78	76	75	74	74	73	73	70	66	63	65	63	62	59	58	58	59	60	62	66	70	73	75	79	68.0
23	77	81	83	83	84	83	85	85	84	84	82	83	81	78	78	79	80	82	84	87	87	87	88	88	88	**83.0**
24	89	**91**	88	87	85	80	80	80	81	84	81	77	73	70	66	69	75	81	88	88	83	82	90	89	91	81.5
25	89	88	88	88	87	87	86	85	84	84	82	78	75	72	70	70	72	78	82	87	89	88	89	89	89	82.8
26	88	89	89	86	87	87	89	89	89	88	82	73	66	60	58	58	59	67	79	85	85	83	82	82	89	79.2
27	81	83	81	84	84	83	83	83	81	78	74	67	63	59	59	P	59	P	P	81	84	82	79	78	84	76.5
28	79	79	79	80	81	81	81	81	80	77	72	67	63	63	59	63	68	71	77	81	81	82	83	85	85	75.5
HOURLY MAX	91	91	89	88	87	87	89	89	89	88	82	83	81	78	78	80	81	82	88	88	89	90	91	90		
HOURLY AVG	75.6	75.7	74.8	75.3	75.4	74.9	74.8	75.3	74.6	72.7	69.2	65.7	62.2	60.0	58.9	59.4	61.6	67.6	72.3	74.7	75.6	75.2	76.5	76.5		

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

24 HOUR AVERAGES FOR FEBRUARY 2007



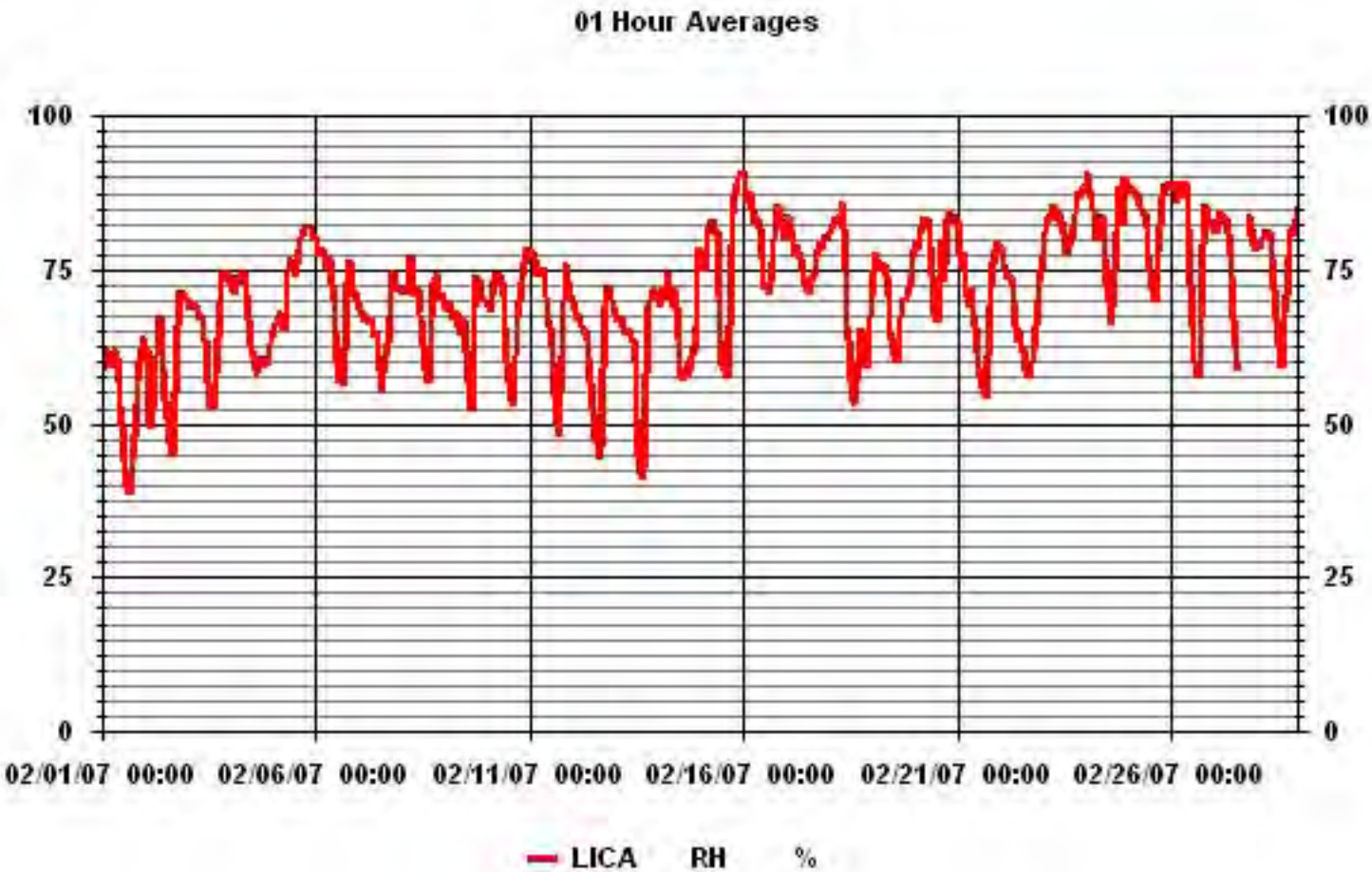
MONTHLY SUMMARY

MAXIMUM 1-HR AVERAGE:	91	%	HOUR(S)	23,01,02	ON DAY(S)	15,16,24
MAXIMUM 24-HR AVERAGE:	83.0	%			ON DAY(S)	23

CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	669	HRS
			AMD OPERATION UPTIME:	99.6	%
STANDARD DEVIATION:	10.50		MONTHLY AVERAGE:	71.04	%

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc



MAXXAM ANALYTICS INC

FEBRUARY 2007
CALIBRATION REPORTS

LICA – COLD LAKE

SO_2

SO_2 Calibration Report

Station Information

Calibration Date	February 7, 2007		Previous Calibration	January 5, 2007	
Company	**Lakeland Industry & Community Association**				
Plant / Location	**LICA 1 - Cold Lake South**				
Start Time (MST)	16:05		End Time (MST)	19:30	
Reason:	Monthly Calibration				
Barometric Pressure	726	mmHg	Station Temperature	22	Deg C
Cal Gas	47.6	ppm	Cal Gas Expiry date	06/23/2007	
DAS Output Voltage	0 - 10	Volts			

Equipment Information

Analyzer Make / Model:	TECO 43A	S/N :	43A-4468-272	Method:	Fluorescent
Converter Make / Model:	-	S/N :	-		
Calibrator Make / Model:	API 700	S/N :	690	Method:	Dilution
DAS Make / Model:	ESC 8832	S/N :	263		
Flow Meter:	API 700	S/N :	690		

Analyzer Settings

	Before Calibration				After Calibration			
Concentration Range	0 - 500 ppb							
Sample Flow / Box Temp	675	ccm	OK	Deg C	675	ccm	OK	Deg C
HVPS / Lamp Setting	OK		850		OK		849	
PMT / RxCell Temp	OK	Deg C	OK	50	OK	Deg C	OK	Deg C
Converter / IZS Temp	NA	Deg C	OK	40	NA	Deg C	OK	Deg C
Offset / Slope	98		849		98		849	

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
ZERO	ZERO	0	0	N/A
4958	42	400	401	0.9971
4979	21	200	202	0.9897
4989	10.5	100	101	0.9898
ZERO	ZERO	0	0	N/A
			Sum of Least Squares	0.9953
			New Correction Factor	0.9971

	Before Calibration	After Calibration
Auto Zero	0	0
Auto Span	370	371
Sample Lines Connected		**YES**
Percent Change from Previous Calibration		-0.2%

Notes:

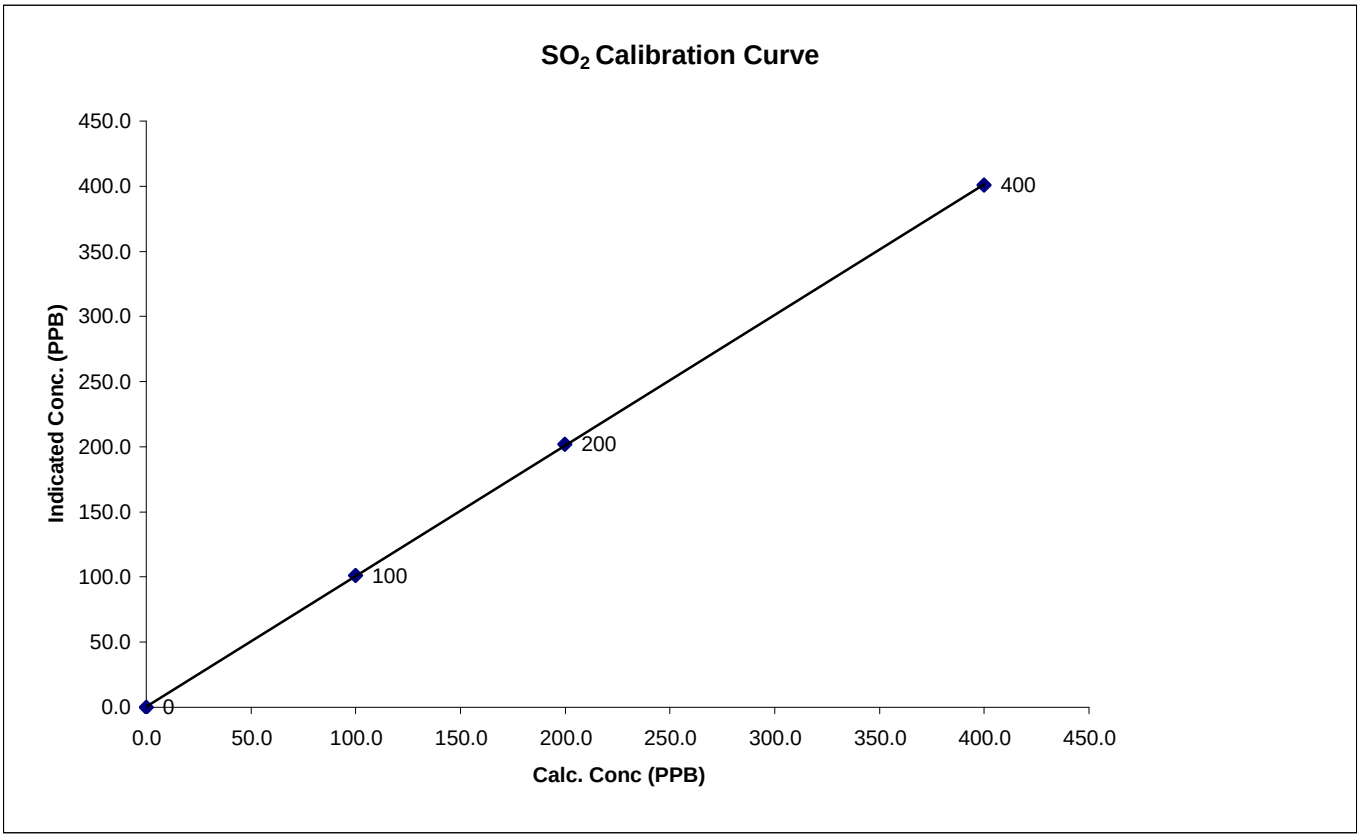
Calibration Performed by: Shea Beaton

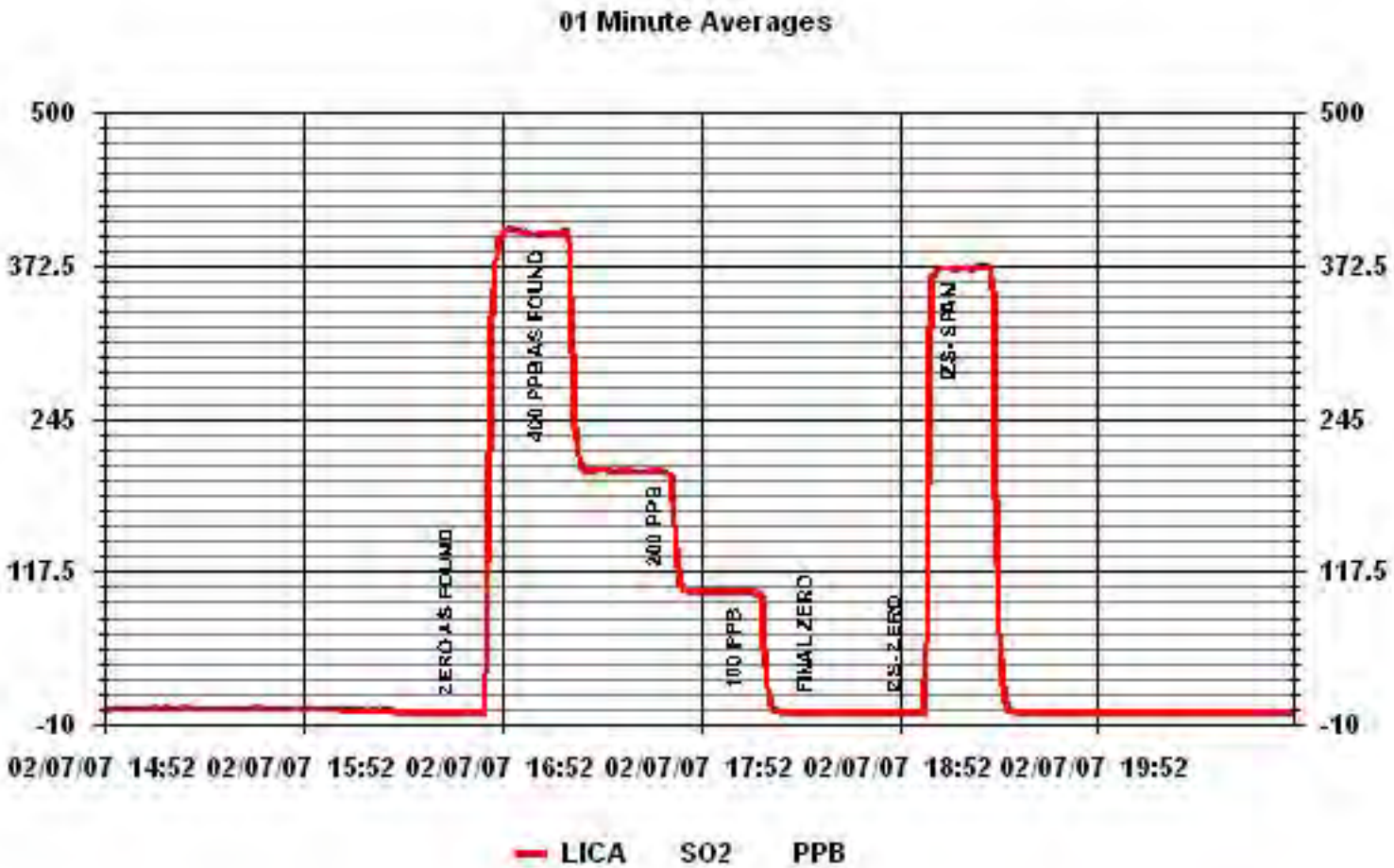
SO_2 Calibration Curve

Calibration Date	February 7, 2007		
Company	**Lakeland Industry & Community Association**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	16:05	End Time (MST)	19:30

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	n/a
100	101	0.9898
200	202	0.9897
400	401	0.9971

Correlation Coefficient	(≥ 0.995)	0.999982
Slope	(0.85 to 1.15)	1.002695
Intercept	(± 3% F.S.)	0.595987





MAXXAM ANALYTICS INC

TRS

TRS Calibration Report

Station Information

Calibration Date	February 12, 2007		Previous Calibration	January 4, 2007	
Company	**Lakeland Industry & Community Association**				
Plant / Location	**LICA 1 - Cold Lake South**				
Start Time (MST)	7:20		End Time (MST)	11:10	
Reason:			Monthly Calibration		
Barometric Pressure	729	mm Hg	Station Temperature	20	Deg C
Cal Gas	10.2	ppm	Cal Gas Expiry date	09/05/2007	
DAS Output Voltage	0 - 10	Volts			

Equipment Information

Analyzer Make / Model:	TECO 43A	S/N :	43A-35786-254	Method:	Fluorescent
Converter Make / Model:	CD Nova CDN 101	S/N :	250		
Calibrator Make / Model:	Environics 2000	S/N :	1991	Method:	Dilution
DAS Make / Model:	ESC 8832	S/N :	263		
Chart Recorder Make / Model:	Leeds and Northrup	S/N:	18902		
Flow Meter:	Environics 2000	S/N :	1991		

Analyzer Settings

	Before Calibration				After Calibration			
Concentration Range	0 -100				ppb			
Sample Flow / Box Temp	425	ccm	OK	Deg C	425	ccm	OK	Deg C
HVPS / Lamp Setting	OK		890		OK		889	
PMT / RxCell Temp	OK	Deg C	OK	Deg C	OK	Deg C	OK	Deg C
Converter / IZS Temp	850	Deg C	OK	Deg C	850	Deg C	OK	Deg C
Offset / Slope	781		763		781		686	

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
ZERO	ZERO	0	0	N/A
5000	40	81	83	0.9753
5000	40	81	81	0.9994
5000	20	41	41	0.9912
5000	10	20	21	0.9695
ZERO	ZERO	0	0	N/A
			Sum of Least Squares	0.9963
			New Correction Factor	0.9994

	Before Calibration	After Calibration
Auto Zero	0	0
Auto Span	80	80
Sample Lines Connected		YES
Percent Change from Previous Calibration		2.5%

Notes:

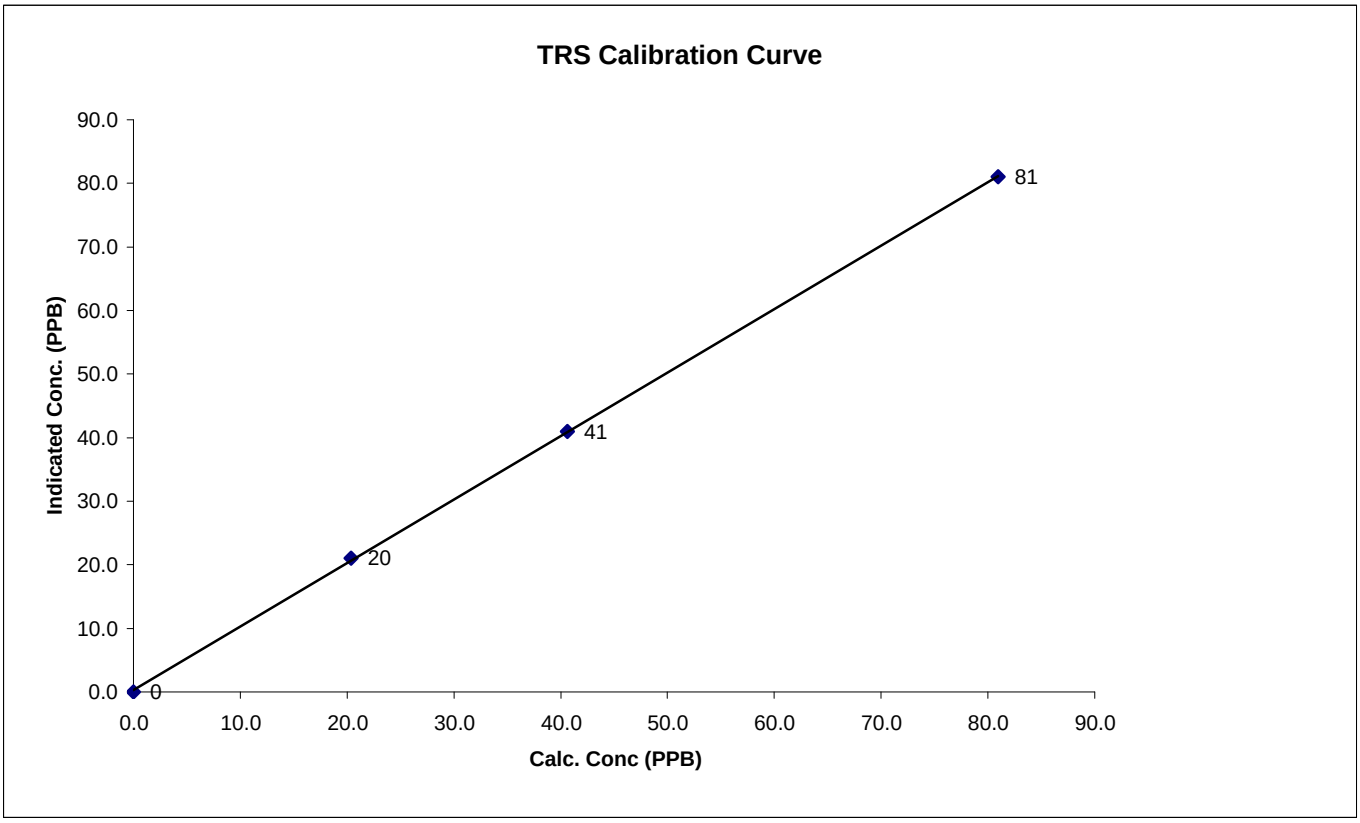
Calibration Performed by: Shea Beaton

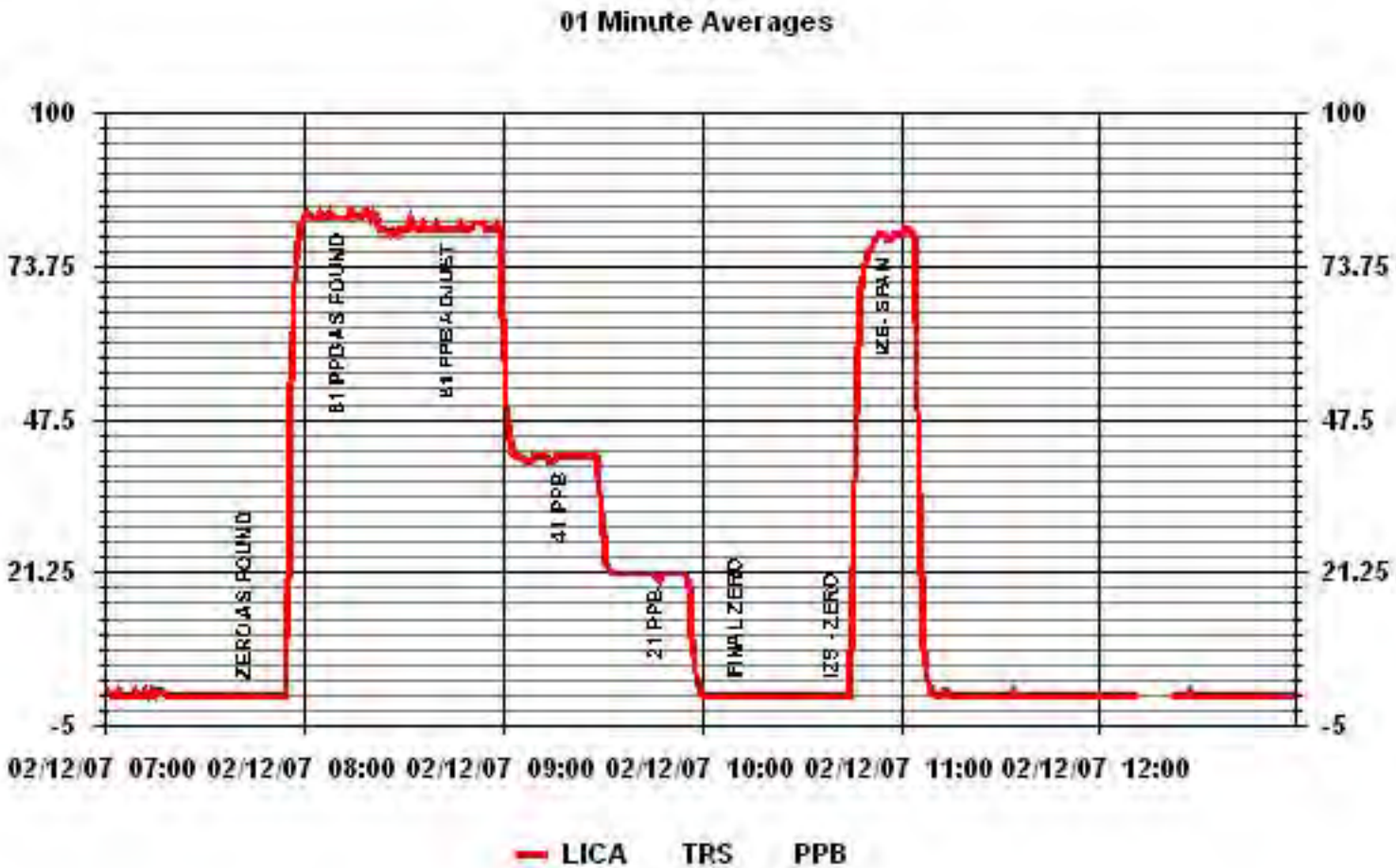
TRS Calibration Curve

Calibration Date	February 12, 2007		
Company	**Lakeland Industry & Community Association**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	7:20	End Time (MST)	11:10

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	n/a
20	21	0.9695
41	41	0.9912
81	81	0.9994

Correlation Coefficient	(≥ 0.995)	0.999927
Slope	(0.85 to 1.15)	0.998420
Intercept	(± 3% F.S.)	0.318805





MAXXAM ANALYTICS INC

THC

THC Calibration Report

Station Information

Calibration Date:	February 7, 2007	Previous Calibration	January 15, 2007
Company:	**Lakeland Industry and Community Association**		
Plant / Location:	**LICA1/Cold Lake**		
Start Time (MST)	16:10	End Time (MST)	18:45
Reason:	Repair		
Barometric Pressure:	726 mmHg	Station Temperature:	21 Deg C
Calibrator:	Environics 2000	S/N:	1991
Cal Gas Concentration:	998 ppm	Cal Gas Expiry Date:	03/11/2008
DAS make & Model:	ESC 8832	S/N :	263
Output Voltage Range:	0 - 10 VDC		

Analyzer Information

Make / Model	TECO 51C-LT	S/N :	51CLT-42740-8718	Method	Flame Ionization

Analyzer Settings

	Before Calibration		After Calibration	
Concentration Range	0 - 50	ppm	0 - 50	ppm
Sample Pressure	6.5	psi	6.5	psi
Hydrogen Pressure	13	psi	12	psi
Air Pressure	18	psi	18	psi

Calibration Data

Dilution Flow	Source Gas Flow	Calculated Concentration	Indicated Concentration	Correction Factor
ZERO	ZERO	0.0	8.3	N/A
2000	80	38.4	47.0	0.8167
ZERO	ZERO	0.0	0.1	N/A
2000	80	38.4	38.5	0.9982
2000	60	29.1	29.2	0.9955
2000	30	14.7	14.7	1.0033
ZERO	ZERO	0.0	-0.2	N/A
			Correction Factor:	0.9982

Percent Change

Previous Calibration Correction Factor:	1.0008
Current Correction Factor Before Span Adjust:	0.8167
Percent Change:	22.5%

IZS Calibration Data

	Before Calibration	After Calibration
Auto Zero	8.1	-0.3
Auto Span	27.1	18.2
Sample Lines Connected		**YES**

Notes:	Cylinder Pressures	
	Span	250 psi
	Hydrogen	1450 psi
	Zero Air	Focus-owned zero air supply with catalytic oxidizer
	Checked and optimizd flows after As Found points, set bypass pressure at 27 psi was(20)	
	Increased zero air pressure to 35 psi at supply, and 30 psi at final regulator before analyzer	

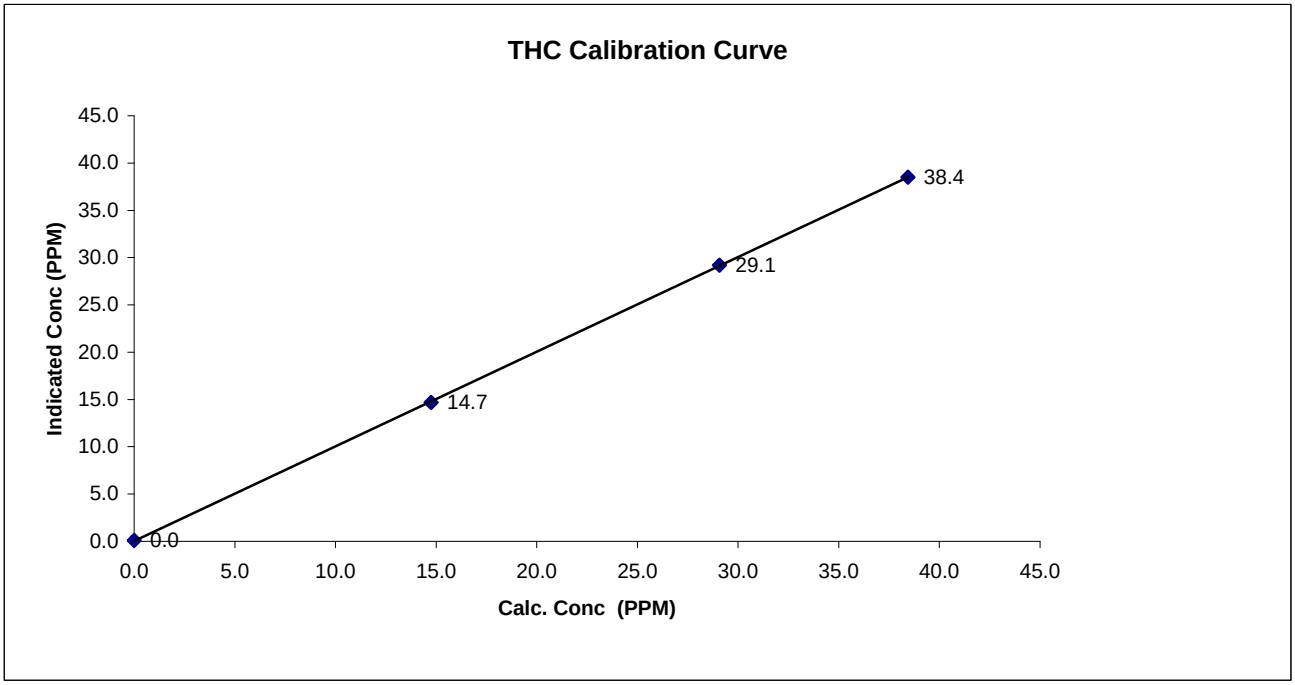
Calibration Performed by: Shea Beaton

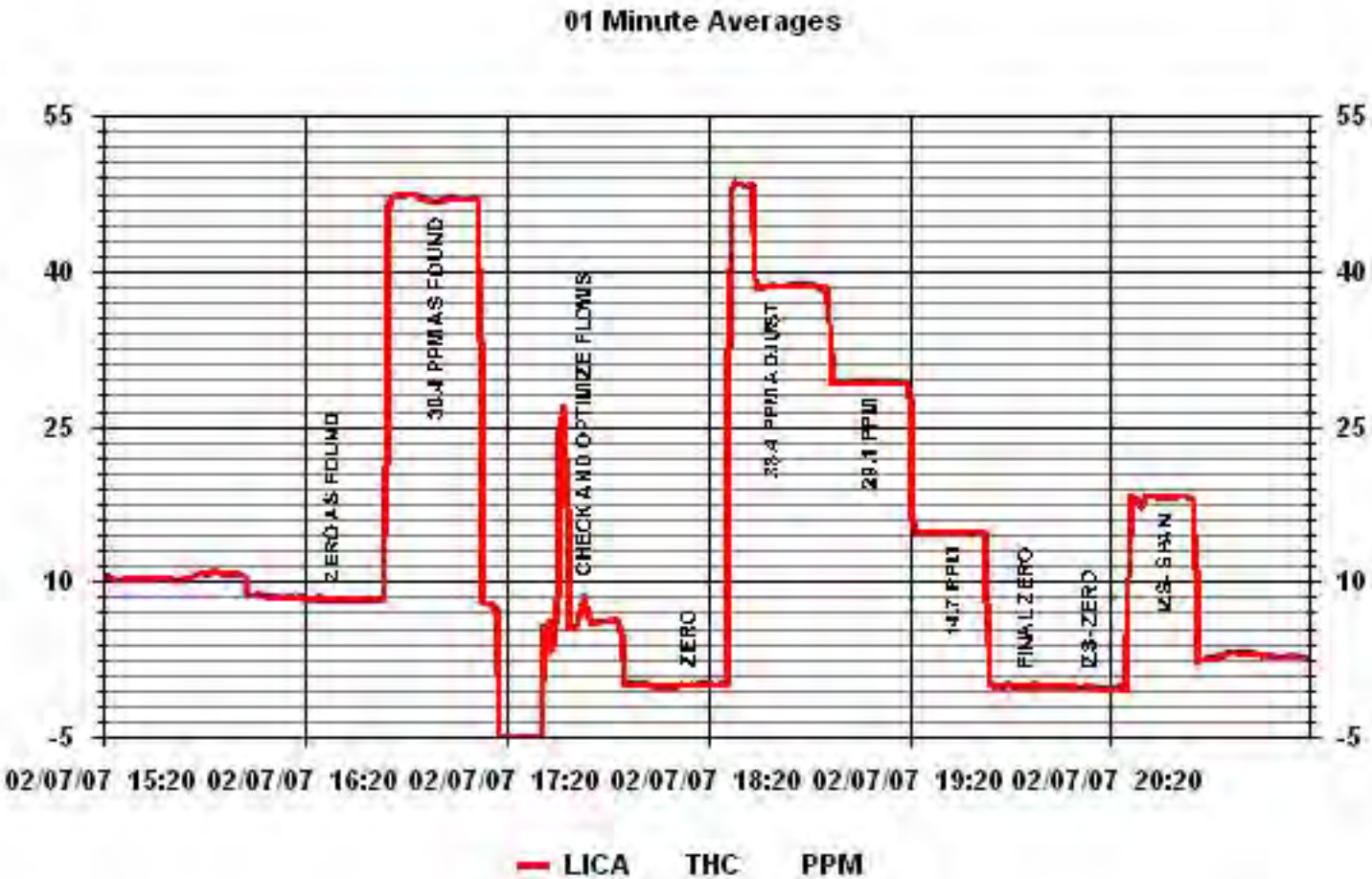
THC Calibration Curve

Calibration Date	February 7, 2007				
Company	**Lakeland Industry and Community Association**				
Plant / Location	**LICA1/Cold Lake**				
Start Time (MST)	16:10	End Time	(MST)	18:45	

Calculated Conc. ppm	Indicated Response ppm	Correction Factor
0.0	0.1	
14.7	14.7	1.0033
29.1	29.2	0.9955
38.4	38.5	0.9982

Correlation Coefficient	**(≥ 0.995)**	0.999979
Slope	**(0.85 to 1.15)**	1.000693
Intercept	**(± 3% F.S.)**	0.048880





MAXXAM ANALYTICS INC

THC Calibration Report

Station Information

Calibration Date:	February 12, 2007	Previous Calibration	February 7, 2007
Company:	**Lakeland Industry and Community Association**		
Plant / Location:	**LICA1/Cold Lake**		
Start Time (MST)	10:40	End Time (MST)	17:15
Reason:		Repair	
Barometric Pressure:	729 mmHg	Station Temperature:	20 Deg C
Calibrator:	Environics 2000	S/N:	1991
Cal Gas Concentration:	998	ppm	Cal Gas Expiry Date: 03/11/2008
DAS make & Model:	ESC 8832	S/N :	263
Output Voltage Range:	0 - 10 VDC		

Analyzer Information

Make / Model	TECO 51C-LT	S/N :	51CLT-42740-8718	Method	Flame Ionization

Analyzer Settings

	Before Calibration		After Calibration	
Concentration Range	0 - 50	ppm	0 - 50	ppm
Sample Pressure	6.5	psi	6.5	psi
Hydrogen Pressure	12	psi	12	psi
Air Pressure	18	psi	18	psi

Calibration Data

Dilution Flow	Source Gas Flow	Calculated Concentration	Indicated Concentration	Correction Factor
ZERO	ZERO	0.0	1.6	N/A
2000	80	38.4	39.9	0.9620
ZERO	ZERO	0.0	0.1	N/A
2000	80	38.4	38.2	1.0060
2000	60	29.1	28.9	1.0058
2000	30	14.7	14.6	1.0102
ZERO	ZERO	0.0	-0.1	N/A
			Correction Factor:	1.0060

Percent Change

Previous Calibration Correction Factor:	0.9982
Current Correction Factor Before Span Adjust:	0.9620
Percent Change:	3.8%

IZS Calibration Data

	Before Calibration	After Calibration
Auto Zero	0.5	-0.3
Auto Span	19.3	29.9
Sample Lines Connected		**YES**

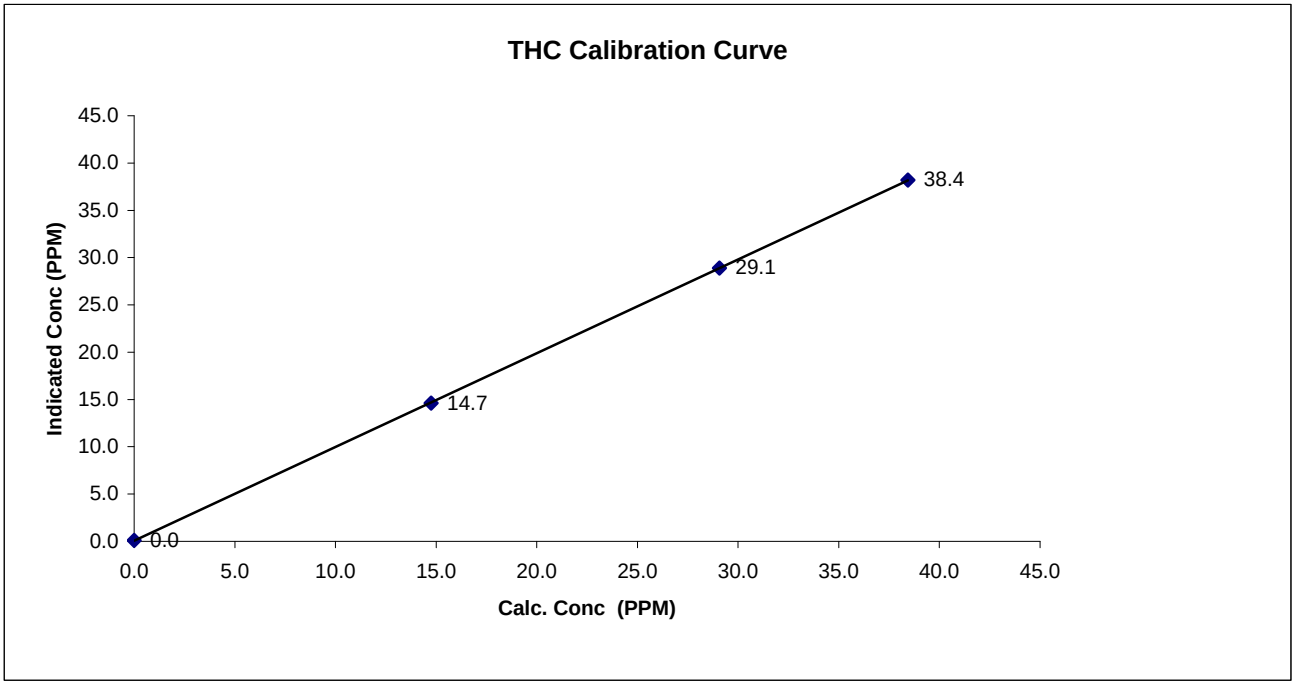
Notes:	Cylinder Pressures	
	Span	2050 psi
	Hydrogen	1050 psi
	Zero Air	Maxxam-owned API 701 zero air supply with catalytic oxidizer
	After As Found points, removed Focus owned zero air supply, installed Maxxam owned Zero air supply. Installed 7 Micron sintered filter on Burner air line	
	Changed span cylinder, old cylinder was 18 ppm, new 30 ppm	
Calibration Performed by:	Shea Beaton	

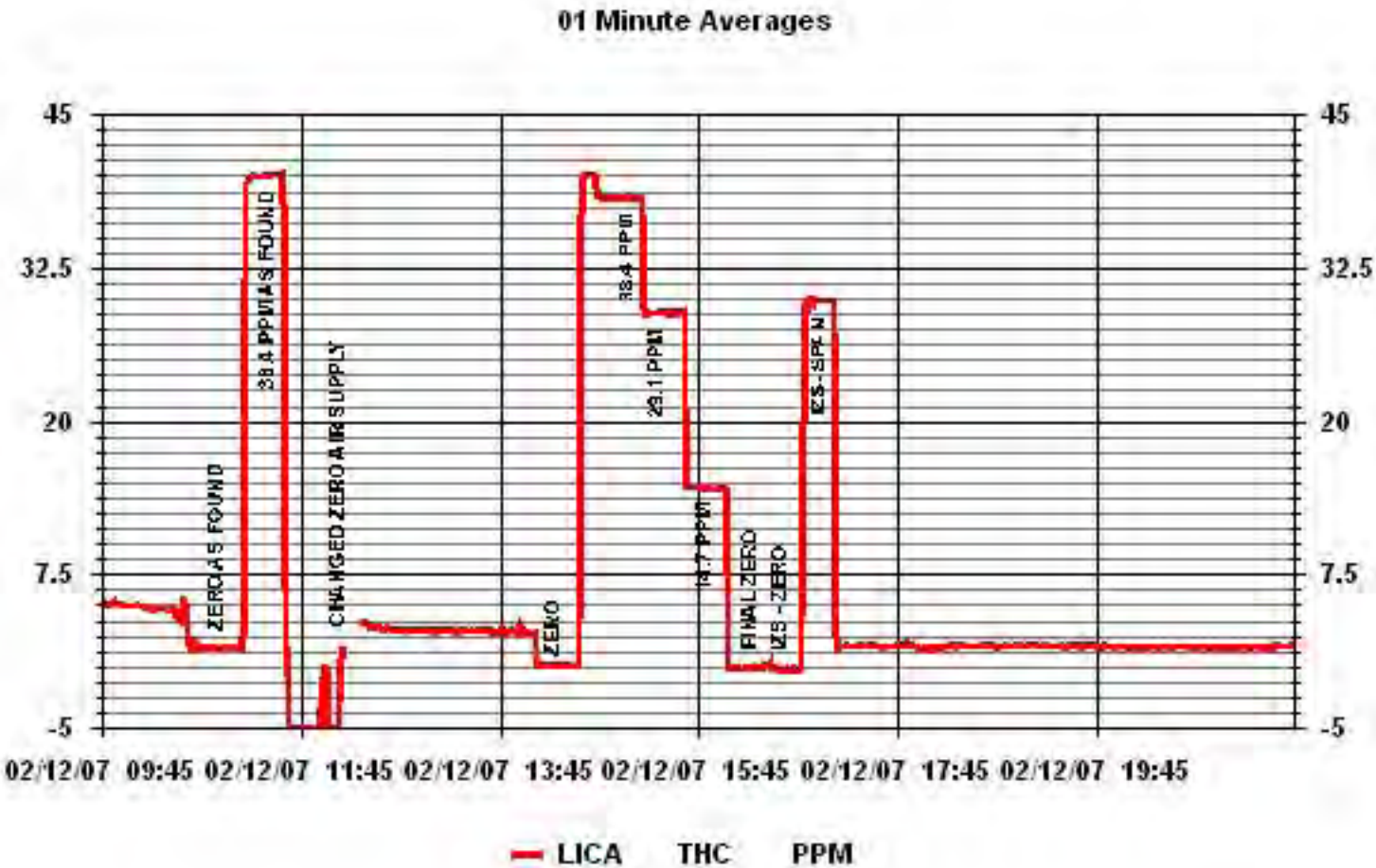
THC Calibration Curve

Calibration Date	February 12, 2007				
Company	**Lakeland Industry and Community Association**				
Plant / Location	**LICA1/Cold Lake**				
Start Time (MST)	10:40	End Time	(MST)	17:15	

Calculated Conc. ppm	Indicated Response ppm	Correction Factor
0.0	0.1	
14.7	14.6	1.0102
29.1	28.9	1.0058
38.4	38.2	1.0060

Correlation Coefficient	(≥ 0.995)	0.999988
Slope	(0.85 to 1.15)	0.992050
Intercept	(± 3% F.S.)	0.051593





MAXXAM ANALYTICS INC

THC Calibration Report

Station Information

Calibration Date:	February 23, 2007	Previous Calibration	February 12, 2007
Company:	**Lakeland Industry and Community Association**		
Plant / Location:	**LICA1/Cold Lake**		
Start Time (MST)	10:05	End Time (MST)	19:10
Reason:		Repair	
Barometric Pressure:	706 mmHg	Station Temperature:	22 Deg C
Calibrator:	Environics 2000	S/N:	1991
Cal Gas Concentration:	998 ppm	Cal Gas Expiry Date:	03/11/2008
DAS make & Model:	ESC 8832	S/N :	263
Output Voltage Range:	0 - 10 VDC		

Analyzer Information

Make / Model	TECO 51C-LT	S/N :	51CLT-42740-8718	Method	Flame Ionization

Analyzer Settings

	Before Calibration		After Calibration	
Concentration Range	0 - 50	ppm	0 - 50	ppm
Sample Pressure	6.5	psi	6.5	psi
Hydrogen Pressure	13	psi	13	psi
Air Pressure	18	psi	18	psi

Calibration Data

Dilution Flow	Source Gas Flow	Calculated Concentration	Indicated Concentration	Correction Factor
ZERO	ZERO	0.0	2.6	N/A
2000	80	38.4	40.7	0.9431
ZERO	ZERO	0.0	-0.2	N/A
2000	80	38.4	38.5	0.9982
2000	60	29.1	29.2	0.9955
2000	30	14.7	15.0	0.9833
ZERO	ZERO	0.0	0.4	N/A
			Correction Factor:	0.9982

Percent Change

Previous Calibration Correction Factor:	1.0060
Current Correction Factor Before Span Adjust:	0.9431
Percent Change:	6.7%

IZS Calibration Data

	Before Calibration	After Calibration
Auto Zero	3.6	0.4
Auto Span	33.6	30.6
Sample Lines Connected		**YES**

Notes: Cylinder Pressures

Span	1900	psi
Hydrogen	350	psi
Zero Air	Maxxam-owned API 701 zero air supply with catalytic oxidizer	

After As Found points, removed AB Environment Owned Catalytic Oxidizer, installed Maxxam Owned Catalytic Oxidizer

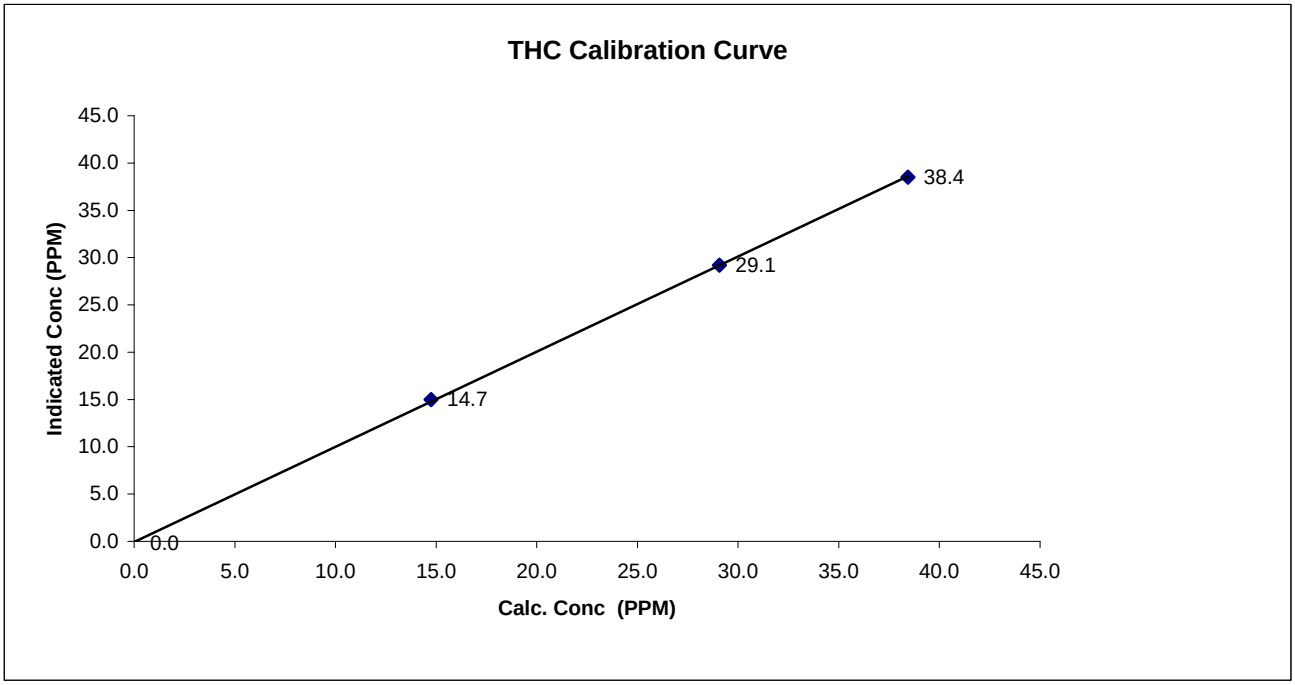
Calibration Performed by: Shea Beaton

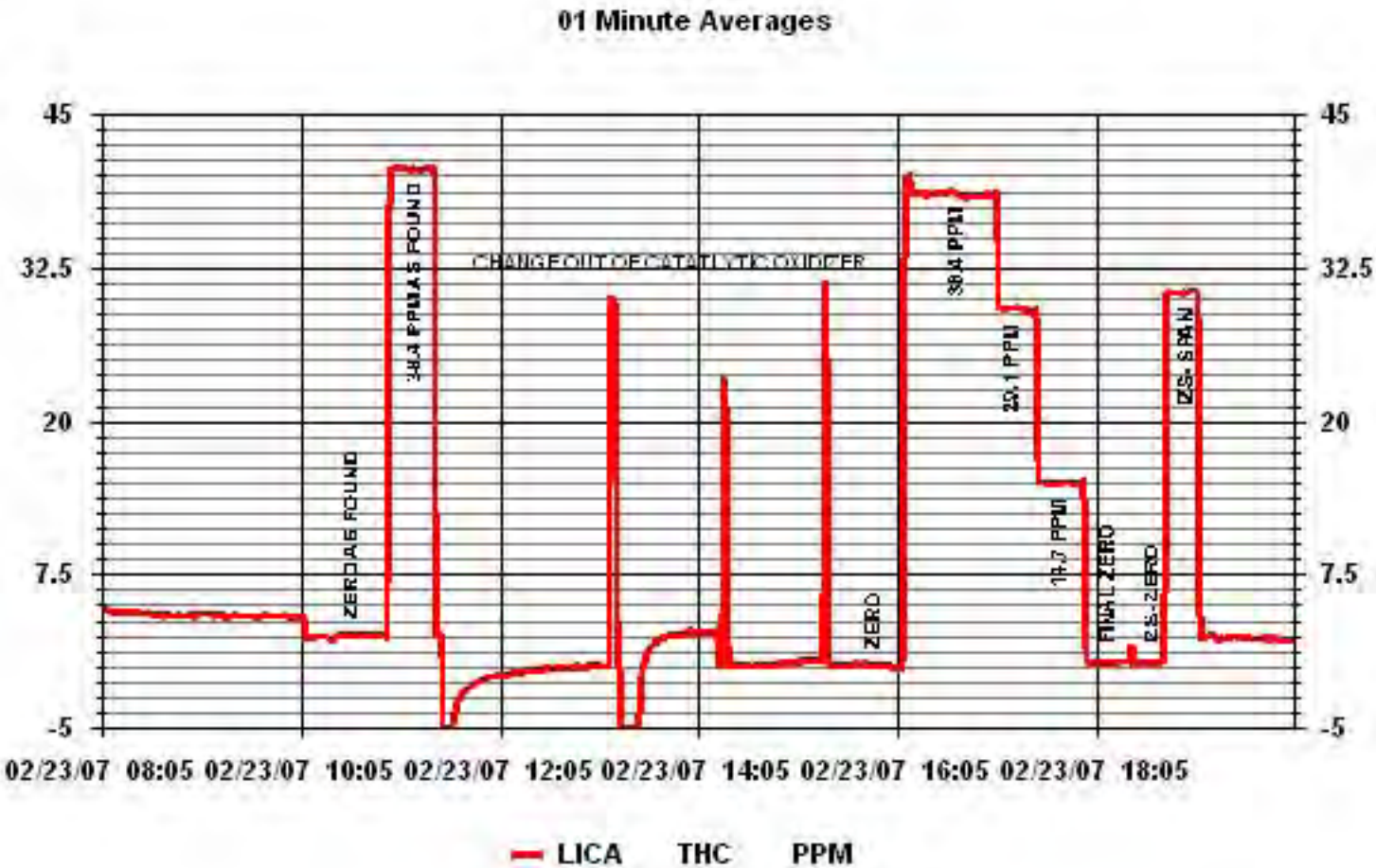
THC Calibration Curve

Calibration Date	February 23, 2007				
Company	**Lakeland Industry and Community Association**				
Plant / Location	**LICA1/Cold Lake**				
Start Time (MST)	10:05	End Time	(MST)	19:10	

Calculated Conc. ppm	Indicated Response ppm	Correction Factor
0.0	-0.2	
14.7	15.0	0.9833
29.1	29.2	0.9955
38.4	38.5	0.9982

Correlation Coefficient	(≥ 0.995)	0.999907
Slope	(0.85 to 1.15)	1.005909
Intercept	(± 3% F.S.)	-0.058377





MAXXAM ANALYTICS INC

PARTICULATE MATTER 2.5

TEOM® Calibration

Station		Transfer Standard	
Date:	February 16, 2007	Make/Model:	Bios DC-2
Station Name:	LICA	Serial Number:	1193
Location:	Cold Lake - South	Cell s/n:	2272
Operator:	Maxxam Analytics	Thermometer s/n:	14-990A

Sampler		Set-up and current Sampler readings	
Make/Model	R & P Series 1400 a TEOM	F-Main Set Pt (l/min)	3.00
Unit #	AMU 1494	F-Aux Set Pt (l/min)	13.67
Control unit s/n	140AB213859701	Filter Load (%)	50
Transducer s/n	140AB213859701	K_o Factor	11095
Parameter	PM 2.5	Temp (^oC)	-7.6
		Press (ATM)	0.942

Conversion from mmHg or "Hg to ATM (Atmospheres)

ATM = (mmHg) X (1.316 X 10 -3) or ATM = ("Hg) X (3.34207 X 10 -2)

Note: Tolerances are noted as BOLD in Brackets

Calibration

Zero flow

	Pump Off		Pump On (Time to reach set points)	
F-Main (l/min)	0.01		**(45-60 Sec)**	37
F-Aux (l/min)	0.02		**(45-60 Sec)**	56

Temperature/Pressure

Measured Temp **(± 1 ^oC)**	-7.5	**Δ ^oC**	0.1
Measured Press **(± 1.5% ATM)**	0.938	**Δ % ATM**	-0.4%

Flow Audit

			Δ % from Set-pt
Indicated Main/Aux Flow (l/min)	3.01 / 13.65	**(± 2%)**	-0.3% / 0.1%
Total Flow = Main + Aux (l/min)	16.66	**(± 2%)**	0.1%
Measured Total Flow (l/min)	16.91	**(± 1.0 l/min. (5.65%))**	-1.5%
Measured Main Flow (l/min)	3.03	**(± 0.2 l/min. (6.25%))**	-0.7%

Leak Check

		Actual leakage = Pump On - Pump Off
Main **(< 0.15 l/min)**	NA	NA
Aux **(< 0.15 l/min)**	NA	NA

K_o Factor

Measured	NA
K_o Difference **(± 2.5%)**	NA

Start Time: 13:00 **Finish Time:** 14:00

Sample Inlet Cleaned: YES **Sample Inlet Connected:** YES

Comments: TEOM has flow adjust setup in control unit. F adj main = 0.940 F adj aux = 0.924

Calibrator/s: Shea Beaton

NO_2

NOx - NO- NO_2 Calibration Report

Station Information

Calibration Date	February 12, 2007	Previous Calibration	January 5, 2007
Company	**Lakeland Ind & Comm. Assoc.**	Plant/Location	**LICA 1 - Cold Lake South**
Start Time (MST)	7:20	End Time (MST)	13:40
Reason:		Monthly Calibration	
Barometric Pressure	729 mmHg	Station Temperature	20.0 Deg C
Cal Gas Concentration	NOx 52.7 ppm NO 52.2 ppm	Cal Gas Expiry date	23/06/2008
DAS Output Voltage	0 - 5 Volts		

Equipment Information

Analyzer Make / Model:	TECO 42	S/N :	42-33684-247	Method:	Chemiluminescent
Calibrator Make / Model:	API 700	S/N:	690		
DAS Make / Model:	ESC 8832	S/N :	263		
Flow Meter:	BIOS Dry Cal - DC 2	S/N :	1193		

Analyzer Settings

	Before Calibration				After Calibration			
Concentration Range			0 - 500	ppb				
Sample Flow/Conv. Temp	638	ccm	335	Deg C	637	ccm	334	Deg C
Ozone Flow / Vacuum	OK	ccm	-25	"Hg-A	OK	ccm	-24	"Hg-A
HVPS	OK		Volts		OK		Volts	
Rx/ Temp / PMT Temp	50.4	Deg C	-3	Deg C	50.4	Deg C	-2.9	Deg C
Box Temp / IZS Temp	30.3	Deg C	NA	Deg C	30.8	Deg C	NA	Deg C
Offset	2.6	NOx	2.6	NO	2.4	NOx	2.3	NO
Slope	1.008	NOx	0.758	NO	1.004	NOx	0.690	NO

Gas Phase Titration Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration		Indicated Concentration			Correction Factor	
			NOx	NO	NOx	NO	NO_2	NOx	NO
ZERO	N/A	N/A	0	0	0	0	0	N/A	N/A
6946	53.6	N/A	404	400	446	440	5	0.9048	0.9085
6946	53.6	N/A	404	400	404	400	3	0.9989	0.9993
								Converter Efficiency	
6946	53.6	250	404	N/A	254	20	234	61%	
6946	53.6	150	404	N/A	357	202	155	77%	
6946	53.6	75	404	N/A	396	301	95	93%	
6946	53.6	N/A	404	400	401	399	2	N/A	
								Correction Factor	
6973	26.8	N/A	202	200	196	194	1	1.0294	1.0302
6986	13.4	N/A	101	100	96	95	1	1.0510	1.0519
ZERO	N/A	N/A	0	0	0	0	0	N/A	N/A

Linearity OK?	**Yes**	No	Sum of Least Squares	0.9325	0.9356
Flows Checked on-site?	Yes	**No**	New Correction Factor	0.9048	0.9085
			Average Converter Efficiency	77%	

	Before Calibration				After Calibration			
Auto Zero	0	NOx	0	NO2	1	NOx	1	NO2
Auto Span	147	NOx	139	NO2	280	NOx	279	NO2
Sample Lines Connected					**YES**			
Percent Change from Previous Calibration					*NOx*	10.4%	*NO*	12.6%

Converter efficiency is getting worse

Installed permeation span generation system, tested after calibration, before zero / span cal

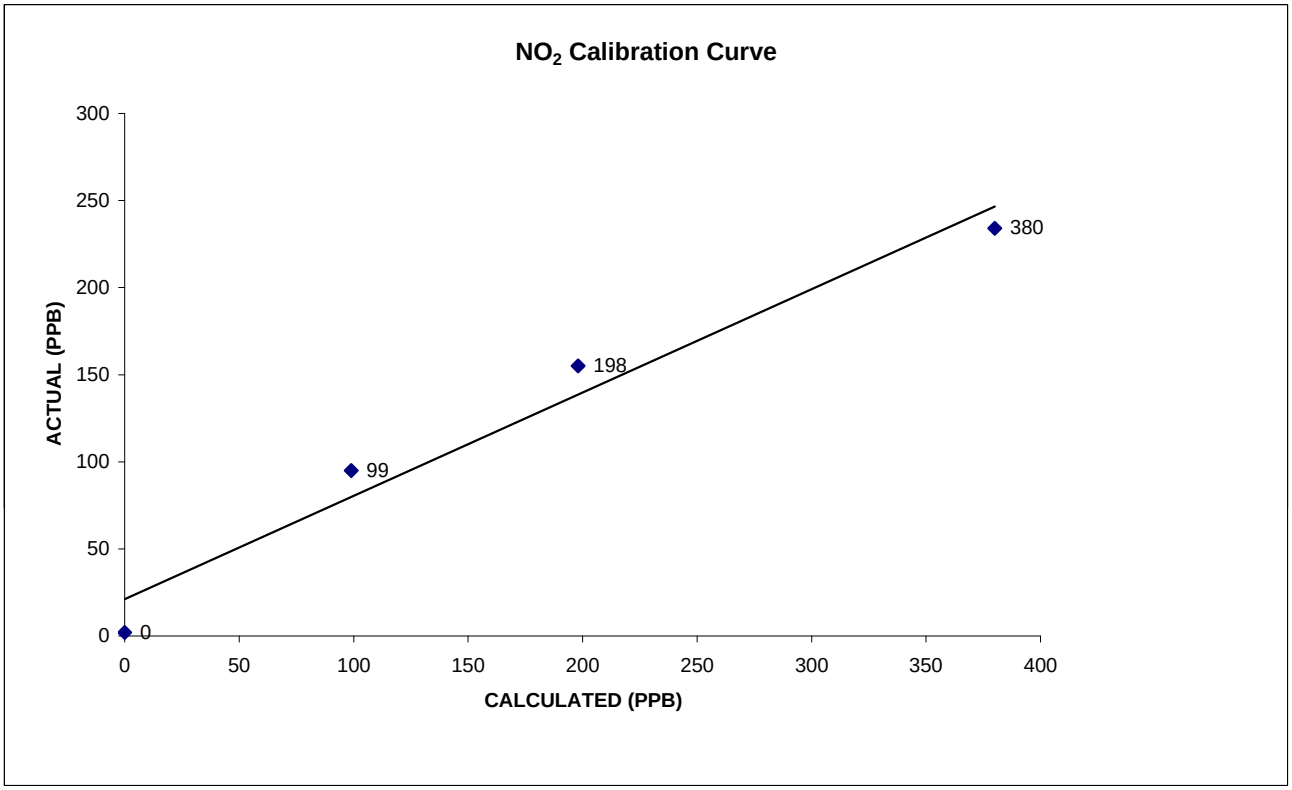
Calibration Performed by: Shea Beaton

NO_2 Calibration Curve

Calibration Date	February 12, 2007		
Company	**Lakeland Ind & Comm. Assoc.**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	7:20	End Time (MST)	13:40

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	2	N/A
99	95	1.0421
198	155	1.2774
380	234	1.6239

Correlation Coefficient	(≥ 0.995)	0.964460
Slope	(0.85 to 1.15)	0.593223
Intercept	(± 3% F.S.)	21.096939

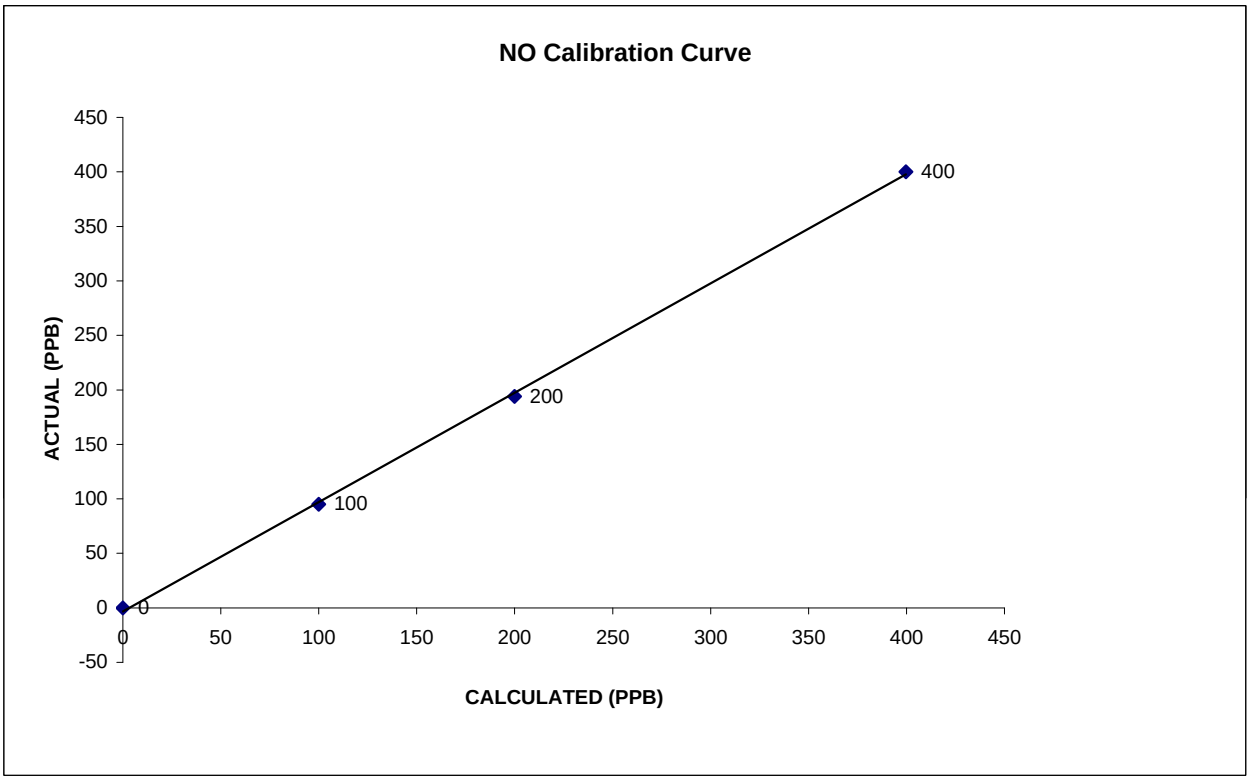


NO Calibration Curve

Calibration Date	February 12, 2007		
Company	**Lakeland Ind & Comm. Assoc.**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	7:20	End Time (MST)	13:40

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	N/A
100	95	1.0519
200	194	1.0302
400	400	0.9993

Correlation Coefficient	(≥ 0.995)	0.999657
Slope	(0.85 to 1.15)	1.003264
Intercept	(± 3% F.S.)	-3.200026

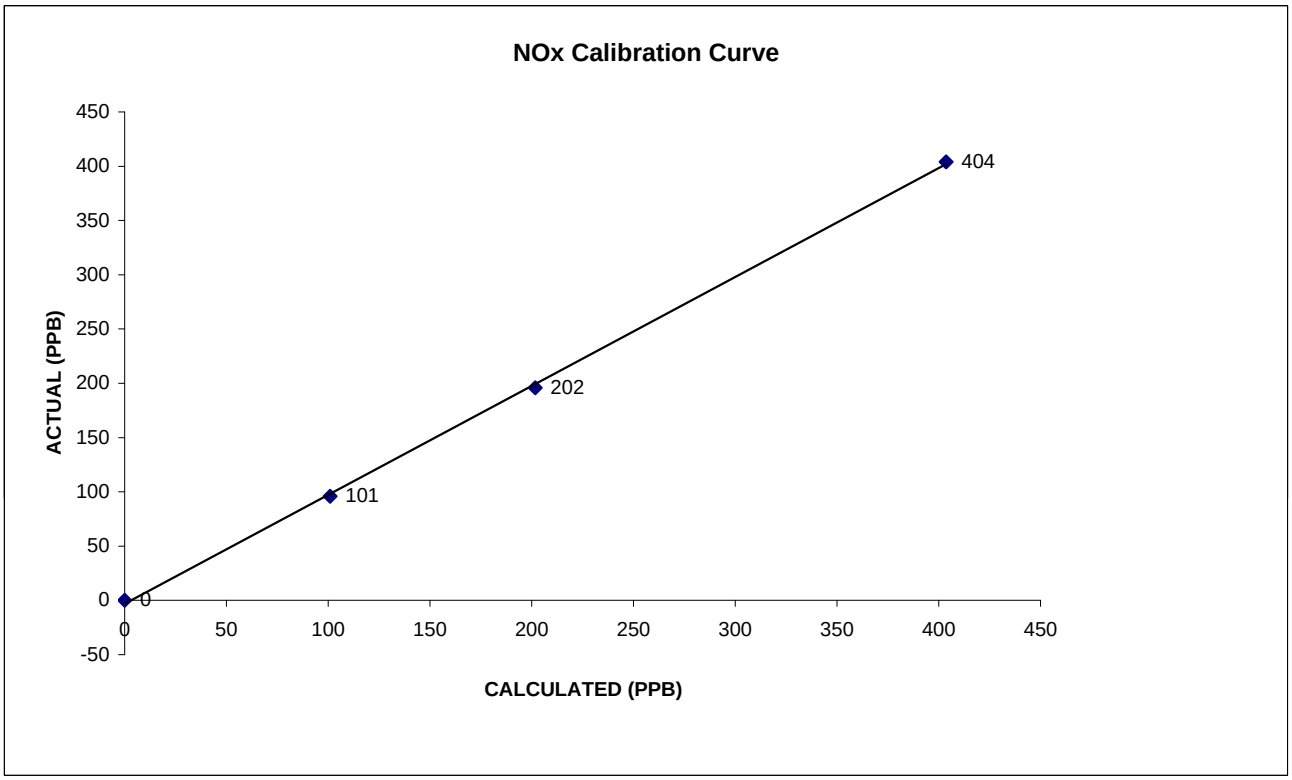


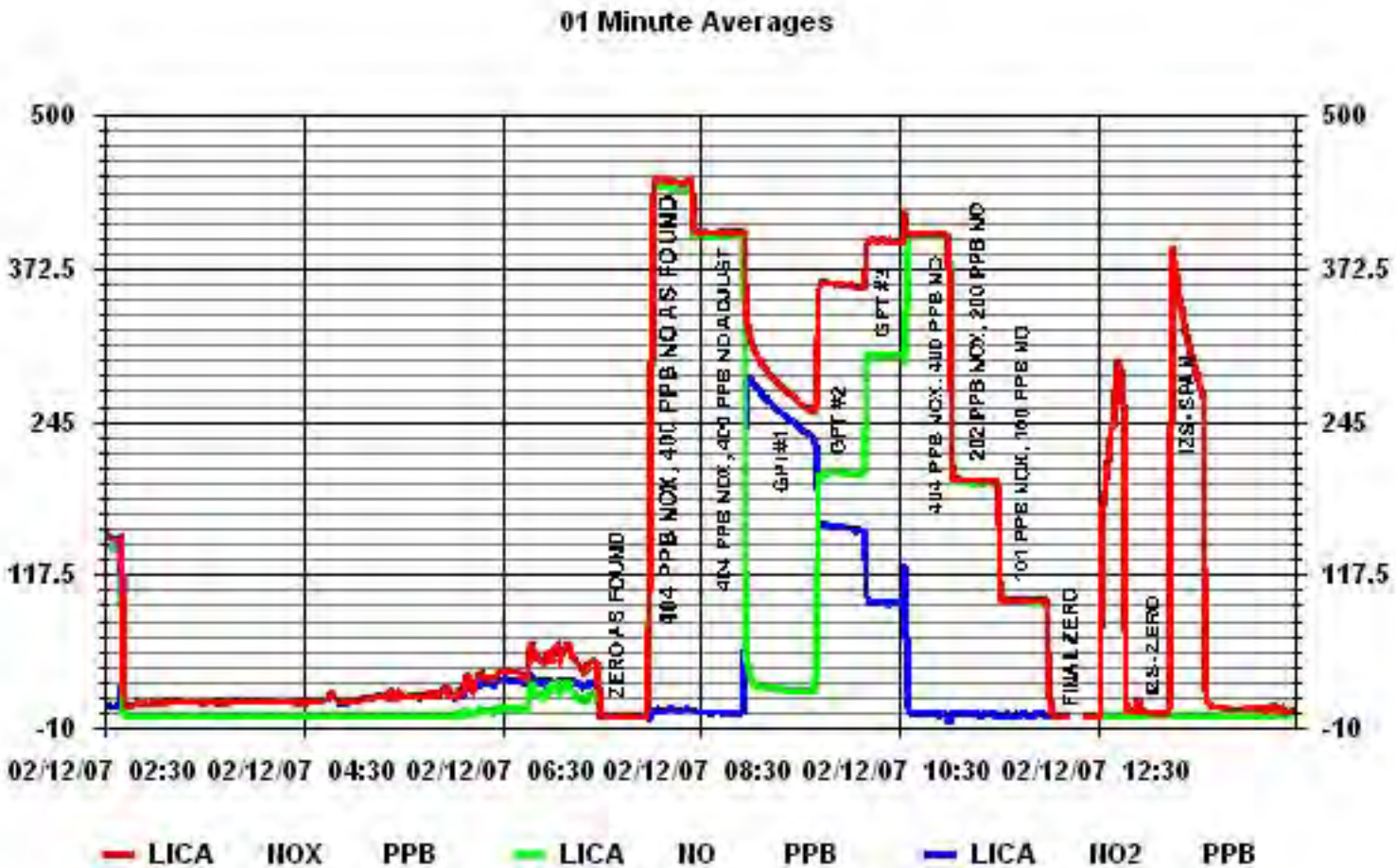
NOx Calibration Curve

Calibration Date	February 12, 2007		
Company	**Lakeland Ind & Comm. Assoc.**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	7:20	End Time (MST)	13:40

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	N/A
101	96	1.0510
202	196	1.0294
404	404	0.9989

Correlation Coefficient	(≥ 0.995)	0.999664
Slope	(0.85 to 1.15)	1.003657
Intercept	(± 3% F.S.)	-3.200026





MAXXAM ANALYTICS INC

NOx - NO- NO_2 Calibration Report

Station Information

Calibration Date	February 23, 2007	Previous Calibration	February 12, 2007
Company	**Lakeland Ind & Comm. Assoc.**	Plant/Location	**LICA 1 - Cold Lake South**
Start Time (MST)	7:50	End Time (MST)	13:15
Reason:		Repairs	
Barometric Pressure	706 mmHg	Station Temperature	22.0 Deg C
Cal Gas Concentration	NOx 52.7 ppm NO 52.2 ppm	Cal Gas Expiry date	23/06/2008
DAS Output Voltage	0 - 5 Volts		

Equipment Information

Analyzer Make / Model:	TECO 42	S/N :	42-33684-247	Method:	Chemiluminescent
Calibrator Make / Model:	API 700	S/N:	690		
DAS Make / Model:	ESC 8832	S/N :	263		
Flow Meter:	BIOS Dry Cal - DC 2	S/N :	1193		

Analyzer Settings

	Before Calibration				After Calibration			
Concentration Range			0 - 500	ppb				
Sample Flow/Conv. Temp	644	ccm	335	Deg C	640	ccm	334	Deg C
Ozone Flow / Vacuum	OK	ccm	-24.5	"Hg-A	OK	ccm	-25	"Hg-A
HVPS	OK		Volts		OK		Volts	
Rx/ Temp / PMT Temp	50.4	Deg C	-2.9	Deg C	50.4	Deg C	-2.9	Deg C
Box Temp / IZS Temp	29.9	Deg C	NA	Deg C	30.8	Deg C	NA	Deg C
Offset	2.4	NOx	2.3	NO	2.4	NOx	2.3	NO
Slope	1.004	NOx	0.69	NO	1.004	NOx	0.690	NO

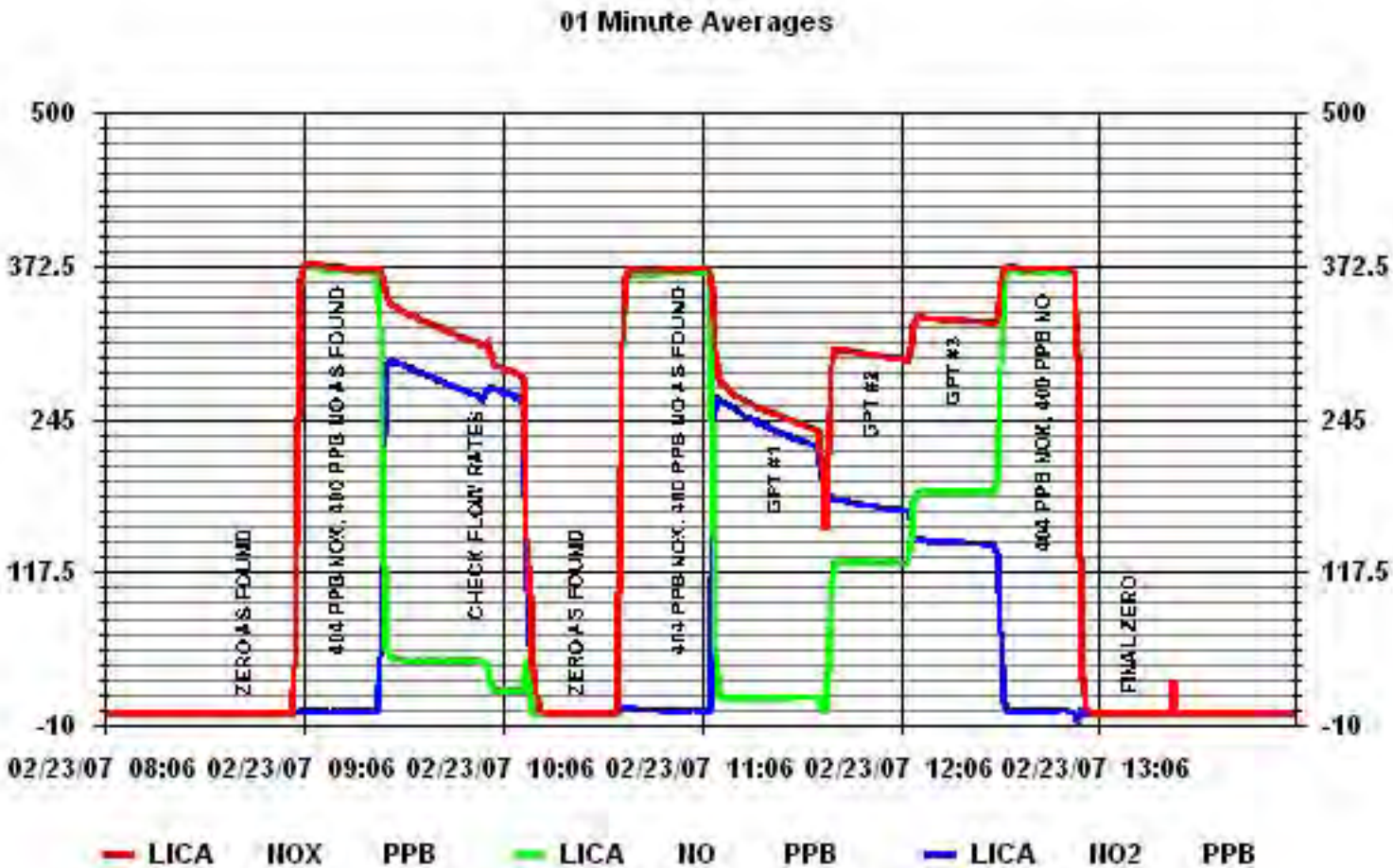
Gas Phase Titration Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration		Indicated Concentration			Correction Factor	
			NOx	NO	NOx	NO	NO2	NOx	NO
ZERO	N/A	N/A	0	0	0	0	0	N/A	N/A
6946	53.6	N/A	404	400	369	367	2	1.0936	1.0892
ZERO	N/A	N/A	0	0	0	0	0	N/A	N/A
6946	53.6	N/A	404	400	370	368	2	1.0907	1.0862
								Converter Efficiency	
6946	53.6	300	404	N/A	238	14	224	63%	
6946	53.6	200	404	N/A	296	126	170	69%	
6946	53.6	150	404	N/A	325	185	141	76%	
6946	53.6	N/A	404	400	371	368	2	N/A	
								Correction Factor	
ZERO	N/A	N/A	0	0	0	0	0	N/A	N/A

Linearity OK?	**Yes**	No	Sum of Least Squares	N/A	N/A
Flows Checked on-site?	Yes	**No**	New Correction Factor	1.0907	1.0862
			Average Converter Efficiency	69%	

	Before Calibration				After Calibration			
Auto Zero	0	NOx	0	NO2	N/A	NOx	N/A	NO2
Auto Span	116	NOx	116	NO2	N/A	NOx	N/A	NO2
Sample Lines Connected					**YES**			
Percent Change from Previous Calibration					*NOx*	-8.4%	*NO*	-8.0%

Calibration Performed by: Shea Beaton



MAXXAM ANALYTICS INC

NOx - NO- NO_2 Calibration Report

Station Information

Calibration Date	February 23, 2007	Previous Calibration	February 23, 2007
Company	**Lakeland Ind & Comm. Assoc.**	Plant/Location	**LICA 1 - Cold Lake South**
Start Time (MST)	14:40	End Time (MST)	20:45
Reason:	Post Repair - New Converter Cartridge		
Barometric Pressure	706 mmHg	Station Temperature	22.0 Deg C
Cal Gas Concentration	NOx 52.7 ppm NO 52.2 ppm	Cal Gas Expiry date	23/06/2008
DAS Output Voltage	0 - 5 Volts		

Equipment Information

Analyzer Make / Model:	TECO 42	S/N :	42-33684-247	Method:	Chemiluminescent
Calibrator Make / Model:	API 700	S/N:	690		
DAS Make / Model:	ESC 8832	S/N :	263		
Flow Meter:	BIOS Dry Cal - DC 2	S/N :	1193		

Analyzer Settings

	Before Calibration				After Calibration			
Concentration Range			0 - 500	ppb				
Sample Flow/Conv. Temp	644	ccm	332	Deg C	640	ccm	333	Deg C
Ozone Flow / Vacuum	OK	ccm	-24.5	"Hg-A	OK	ccm	-25	"Hg-A
HVPS	OK		Volts		OK		Volts	
Rx/ Temp / PMT Temp	50.4	Deg C	-3	Deg C	50.5	Deg C	-2.9	Deg C
Box Temp / IZS Temp	30.7	Deg C	NA	Deg C	29.7	Deg C	NA	Deg C
Offset	2.4	NOx	2.3	NO	4.7	NOx	2.6	NO
Slope	1.004	NOx	0.69	NO	1.008	NOx	0.752	NO

Gas Phase Titration Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration		Indicated Concentration			Correction Factor	
			NOx	NO	NOx	NO	NO_2	NOx	NO
ZERO	N/A	N/A	0	0	0	0	0	N/A	N/A
4961	38.3	N/A	404	400	404	400	4	0.9994	0.9998
								Converter Efficiency	
4961	38.3	300	404	N/A	409	14	395	101%	
4961	38.3	150	404	N/A	405	200	206	101%	
4961	38.3	75	404	N/A	404	301	103	100%	
4961	38.3	N/A	404	400	402	400	2	N/A	
								Correction Factor	
4976	23.9	N/A	252	250	248	246	1	1.0158	1.0143
4985	14.4	N/A	152	150	147	146	0	1.0326	1.0298
ZERO	N/A	N/A	0	0	0	0	-1	N/A	N/A

Linearity OK?	**Yes**	No	Sum of Least Squares	1.0065	1.0062
Flows Checked on-site?	Yes	**No**	New Correction Factor	0.9994	0.9998
			Average Converter Efficiency	101%	

	Before Calibration				After Calibration			
Auto Zero	0	NOx	0	NO2	0	NOx	0	NO2
Auto Span	116	NOx	116	NO2	131	NOx	131	NO2
Sample Lines Connected					**YES**			
Percent Change from Previous Calibration					*NOx*	N/A	*NO*	N/A

Replaced Converter Cartridge, calibrated. Converter efficiency now satisfactory

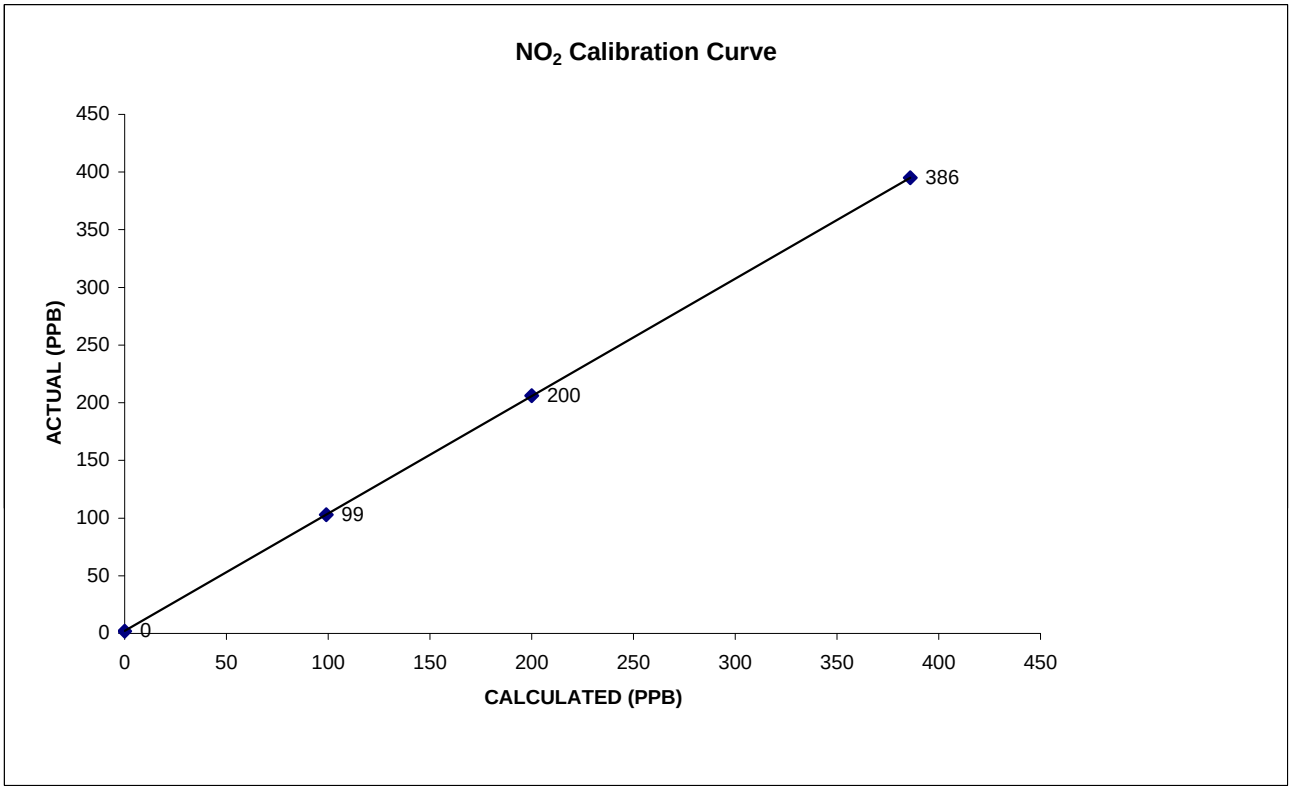
Calibration Performed by: Shea Beaton

NO_2 Calibration Curve

Calibration Date	February 23, 2007		
Company	**Lakeland Ind & Comm. Assoc.**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	14:40	End Time (MST)	20:45

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	2	N/A
99	103	0.9612
200	206	0.9709
386	395	0.9772

Correlation Coefficient	(≥ 0.995)	0.999999
Slope	(0.85 to 1.15)	1.018085
Intercept	(± 3% F.S.)	2.152965

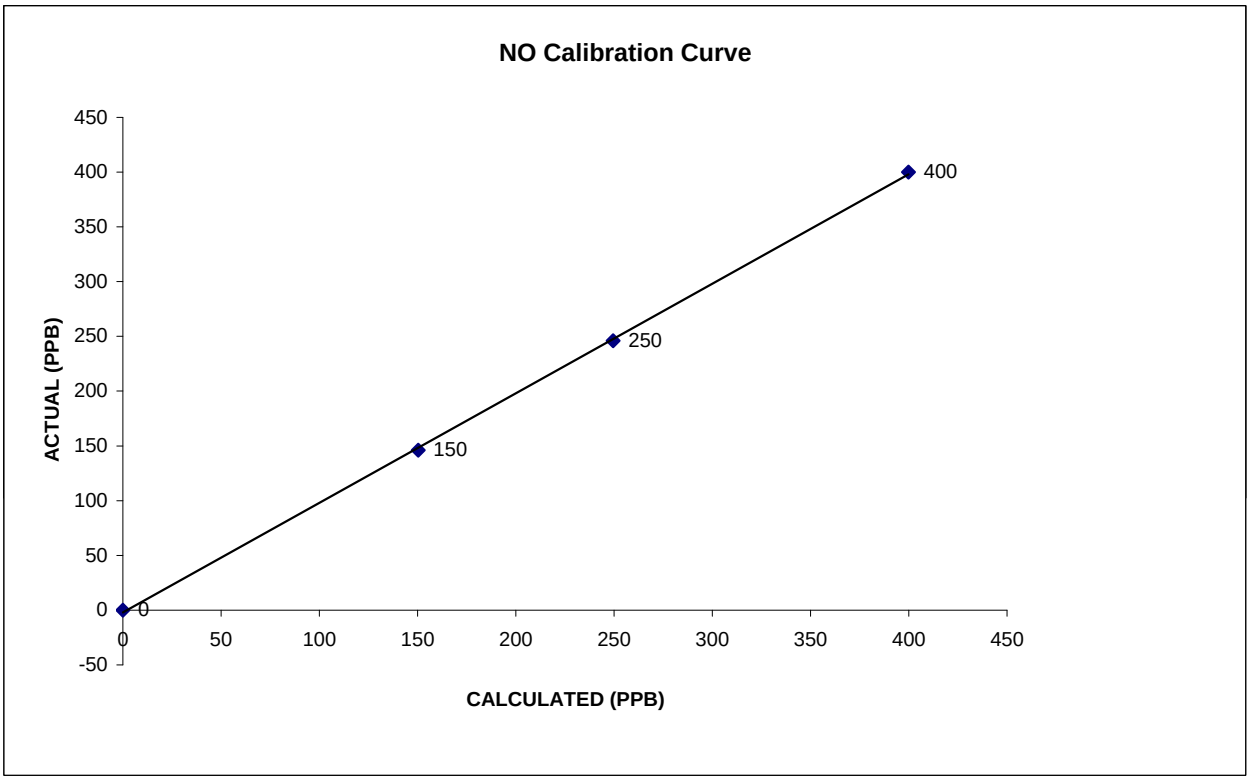


NO Calibration Curve

Calibration Date	February 23, 2007		
Company	**Lakeland Ind & Comm. Assoc.**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	14:40	End Time (MST)	20:45

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	N/A
150	146	1.0298
250	246	1.0143
400	400	0.9998

Correlation Coefficient	(≥ 0.995)	0.999810
Slope	(0.85 to 1.15)	1.000704
Intercept	(± 3% F.S.)	-2.086550

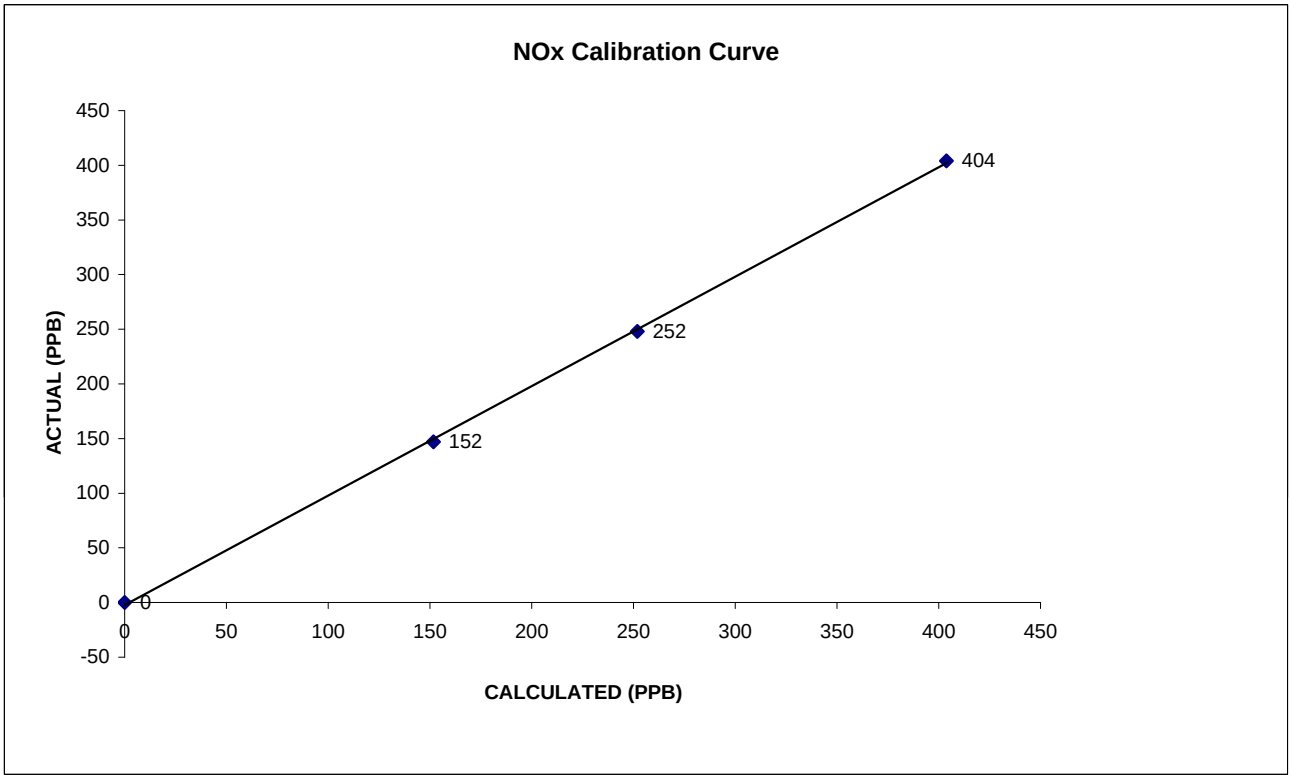


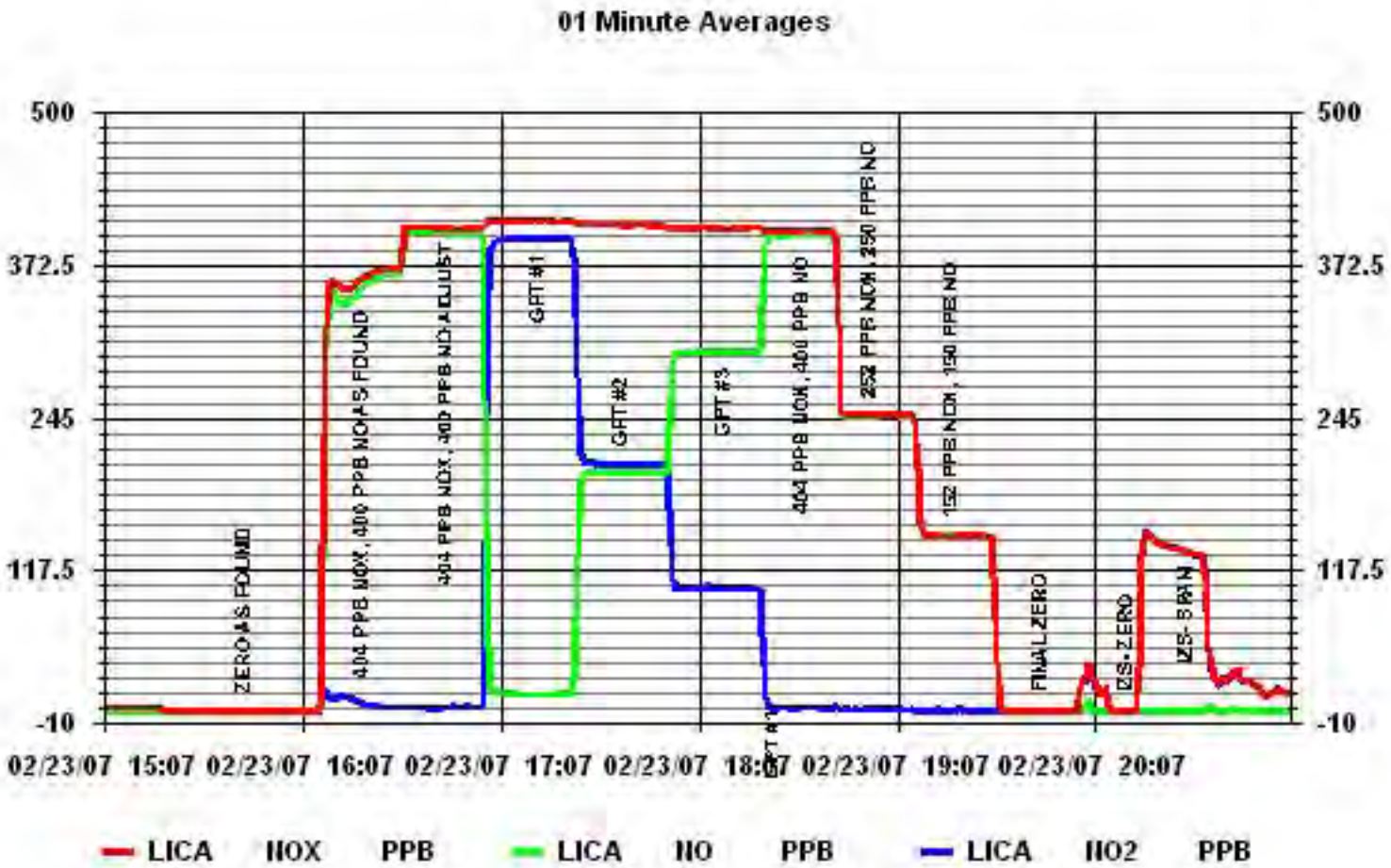
NOx Calibration Curve

Calibration Date	February 23, 2007		
Company	**Lakeland Ind & Comm. Assoc.**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	14:40	End Time (MST)	20:45

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	N/A
152	147	1.0326
252	248	1.0158
404	404	0.9994

Correlation Coefficient	(≥ 0.995)	0.999765
Slope	(0.85 to 1.15)	1.001122
Intercept	(± 3% F.S.)	-2.337433





MAXXAM ANALYTICS INC

OZONE

O_3 Calibration Report

Station Information

Calibration Date	February 12, 2007	Previous Calibration	January 15, 2007
Company	**Lakeland Industry & Community Association**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	13:50	End Time (MST)	17:55
Reason:		Monthly Calibration	
Barometric Pressure	729 mm Hg	Station Temperature	21 Deg C
DAS Output Voltage	0 - 10 Volts		

Equipment Information

Analyzer Make / Model:	TECO 49	S/N :	AOM-13892-143	Method:	Fluorescent
Calibrator Make / Model:	API 700	S/N :	690	Method:	Dilution
DAS Make / Model:	ESC 8832	S/N :	263		
Flow Meter:	API 700	S/N :	690		

Analyzer Settings

	Before Calibration		After Calibration	
Concentration Range	0 - 500 ppb			
Box Temp	OK		OK	
O_3 Set Level	3.75		3.75	
Sample Flow A/B	1 LPM	1 LPM	1 LPM	1 LPM
Offset / Slope	50	0.69	51	0.0739

Calibration Data

Dilution Flow Rate	Ozone Set Point	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
ZERO	ZERO	0	-1	N/A
ZERO	ZERO	0	0	N/A
7000	300	379	354	1.0706
7000	300	379	379	1.0000
7000	150	198	204	0.9706
7000	75	99	104	0.9519
ZERO	ZERO	0	0	N/A
			Sum of Least Squares	N/A
			New Correction Factor	1.0000

	Before Calibration	After Calibration
Auto Zero	0	0
Auto Span	284	304
Sample Lines Connected		YES
Percent Change from Previous Calibration		-6.6%

Notes:

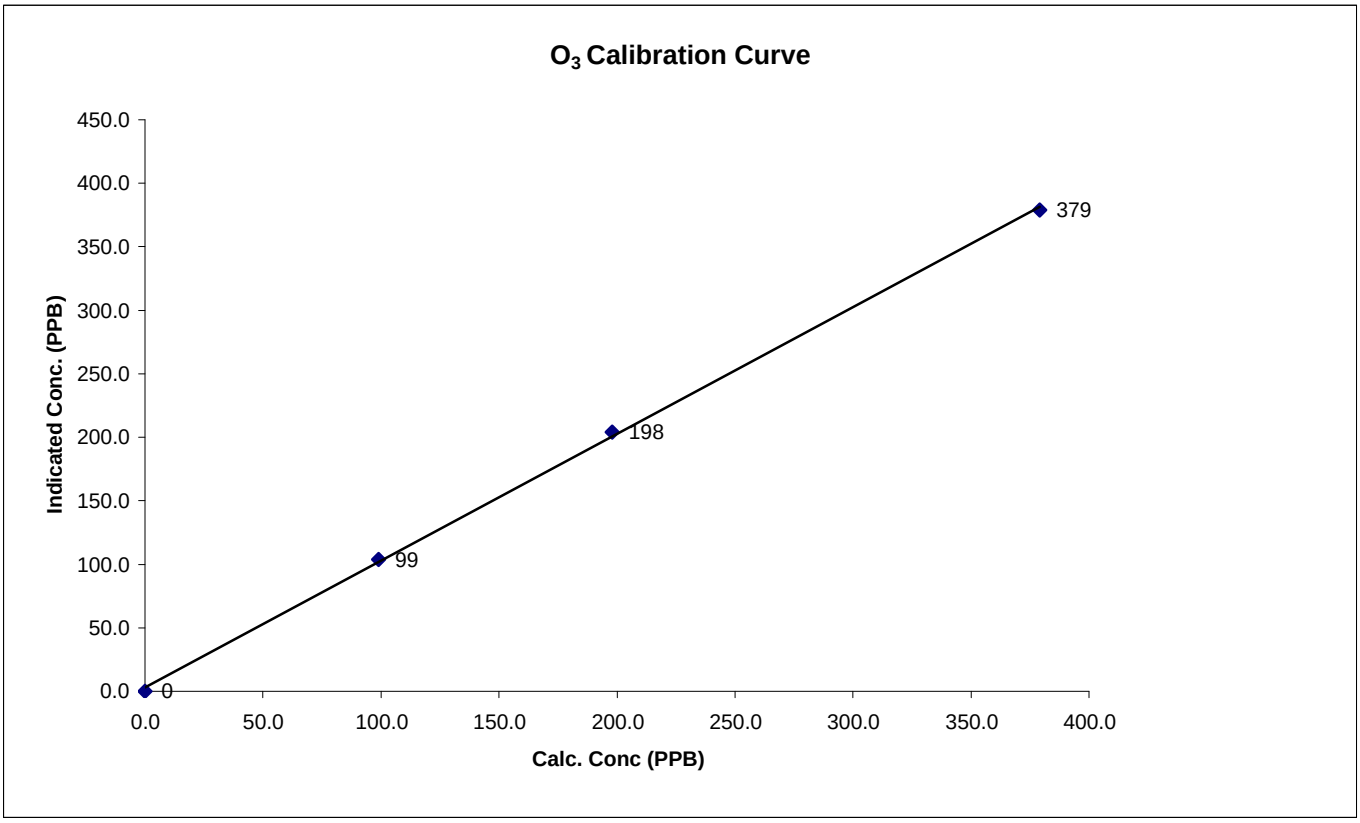
Calibration Performed by: Shea Beaton

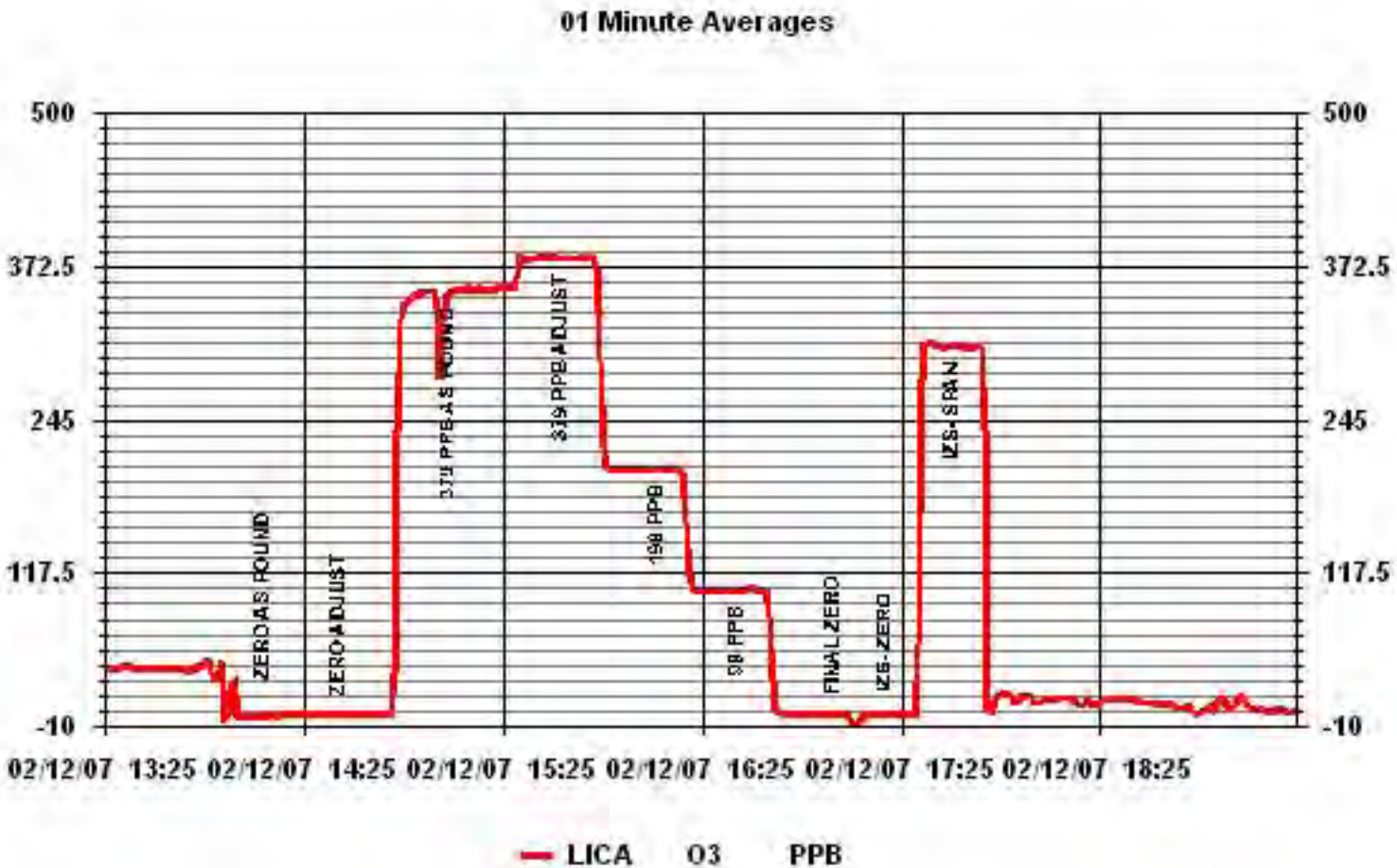
O_3 Calibration Curve

Calibration Date	February 12, 2007		
Company	**Lakeland Industry & Community Association**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	13:50	End Time (MST)	17:55

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	n/a
99	104	0.9519
198	204	0.9706
379	379	1.0000

Correlation Coefficient	(≥ 0.995)	0.999611
Slope	(0.85 to 1.15)	0.997755
Intercept	(± 3% F.S.)	3.129378





MAXXAM ANALYTICS INC

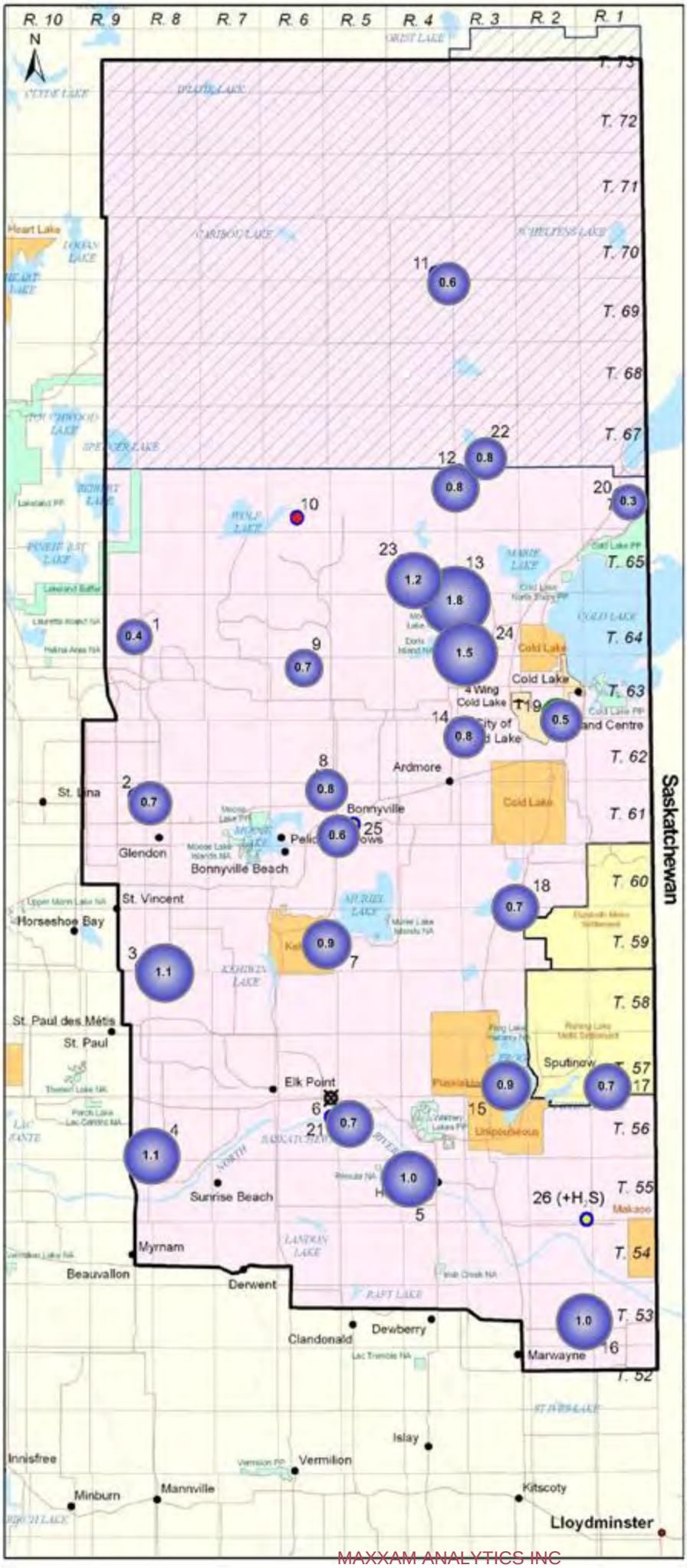
FEBRUARY 2007
LICA
PASSIVE BUBBLE MAPS

LICA
Lakeland Industry & Community Association

PASSIVE BUBBLE MAP

February 2007

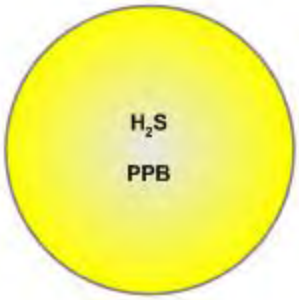
Maxxam Analytics Inc



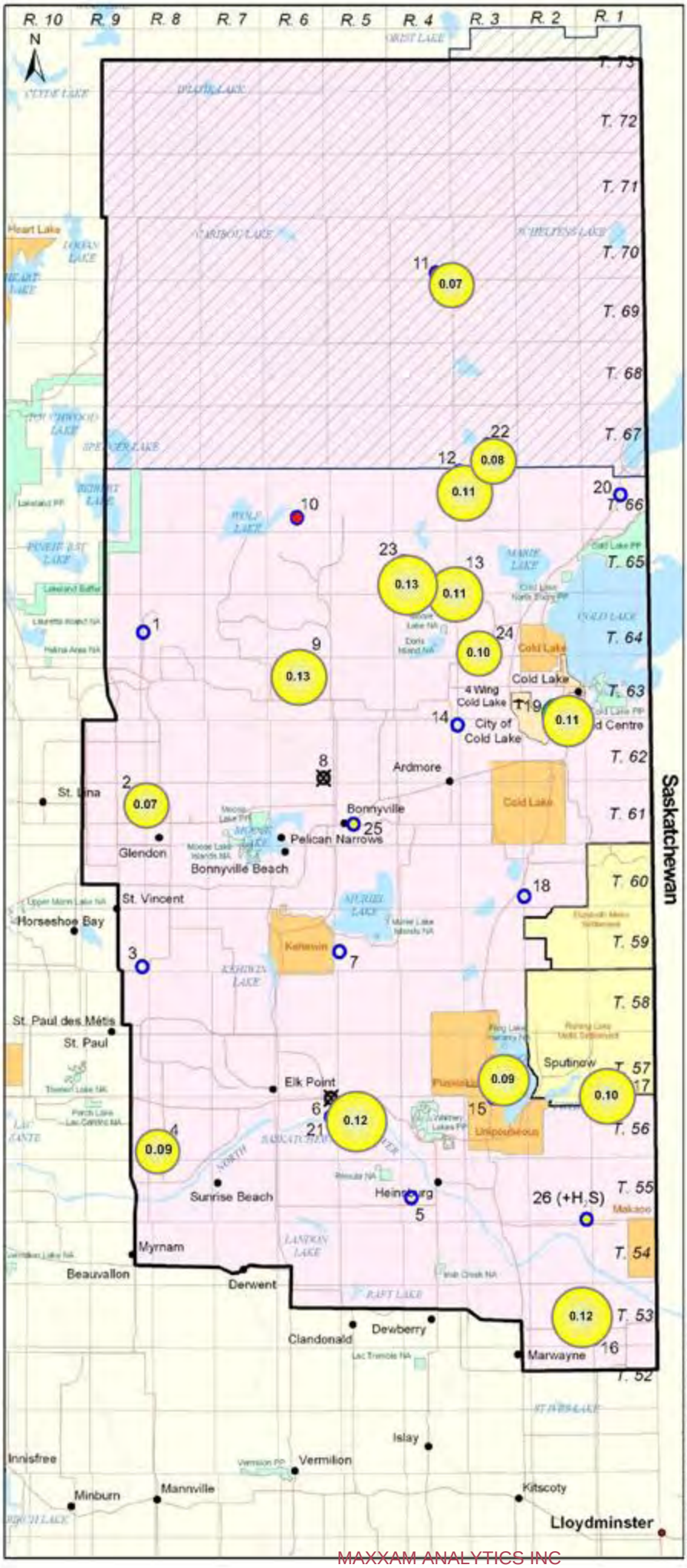
LICA
Lakeland Industry & Community Association

PASSIVE BUBBLE MAP

February 2007



Maxxam Analytics Inc

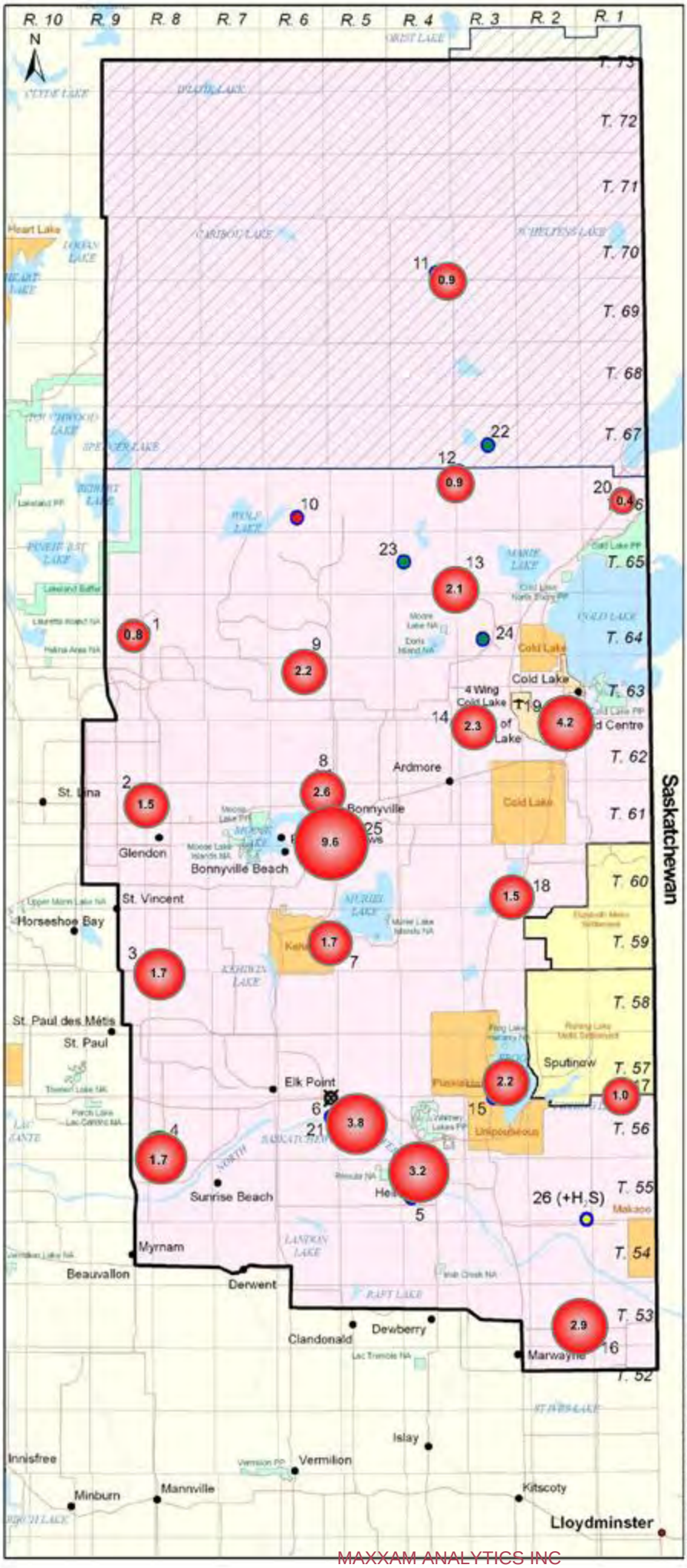


LICA
Lakeland Industry & Community Association

PASSIVE BUBBLE MAP

February 2007

Maxxam Analytics Inc



LICA
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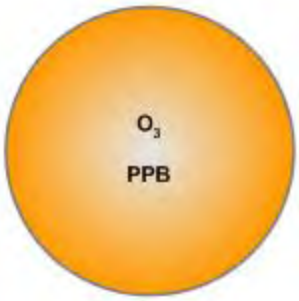
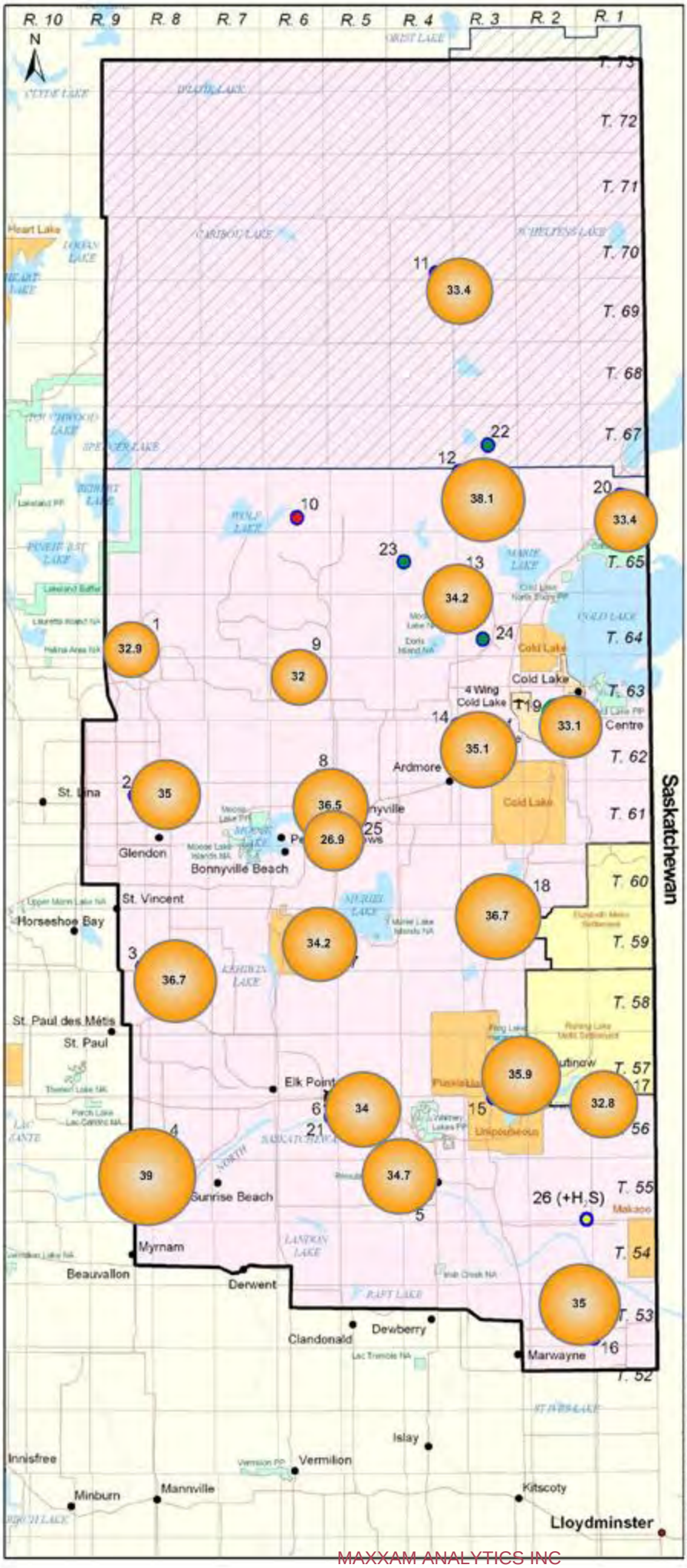
PASSIVE BUBBLE MAP

February 2007



Maxxam Analytics Inc



FEBRUARY 2007
LICA PASSIVE NETWORK
LAB ANALYSIS

Your Project #: FEBRUARY 2007
Site: LICA

Attention: MICHAEL BISAGA
LAKELAND INDUSTRY AND COMMUNITY ASSOCIATION
BONNYVILLE
PO BOX 8237
5006 - 50TH AVENUE
BONNYVILLE, AB, AB
CANADA T9N 2J5

Report Date: 2007/03/19

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A709102
Received: 2007/03/07, 9:00

Sample Matrix: Air
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
H2S Passive Analysis (1)	1	2007/03/19	2007/03/19		EDM SOP-0320
NO2 Passive Analysis (1)	1	2007/03/19	2007/03/19		EDM SOP-0318
O3 Passive Analysis (1)	1	2007/03/19	2007/03/19		EDM SOP-0317
SO2 Passive Analysis (1)	1	2007/03/19	2007/03/19		EDM SOP-0319

Sample Matrix: Air
Samples Received: 25

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
H2S Passive Analysis (1)	16	2007/03/19	2007/03/19		EDM SOP-0320
NO2 Passive Analysis (1)	22	2007/03/19	2007/03/19		EDM SOP-0318
O3 Passive Analysis (1)	22	2007/03/19	2007/03/19		EDM SOP-0317
SO2 Passive Analysis (1)	25	2007/03/19	2007/03/19		EDM SOP-0319

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The detection limit is based on a 30 day sampling period.

../2

Your Project #: FEBRUARY 2007
Site: LICA

Attention: MICHAEL BISAGA
LAKELAND INDUSTRY AND COMMUNITY ASSOCIATION
BONNYVILLE
PO BOX 8237
5006 - 50TH AVENUE
BONNYVILLE, AB, AB
CANADA T9N 2J5

Report Date: 2007/03/19

CERTIFICATE OF ANALYSIS

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

JODI HANSON,
Email: jodi.hanson@maxxamanalytics.com
Phone# (780) 468-3500

==========
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

Total cover pages: 2

Maxxam Job #: A709102
Report Date: 2007/03/19

LAKELAND INDUSTRY AND COMMUNITY ASSOCIATION
Client Project #: FEBRUARY 2007
Site Reference: LICA
Sampler Initials: SB

RESULTS OF CHEMICAL ANALYSES OF AIR

Maxxam ID		E59879		
Sampling Date		2007/01/30 09:40		
	Units	**15A**	**RDL**	**QC Batch**
Passive Montioring				
Calculated H2S	ppb	0.11	0.02	1530177
Calculated NO2	ppb	2.0	0.1	1530178
Calculated O3	ppb	37.4	0.1	1530179
Calculated SO2	ppb	0.9	0.1	1530184

RDL = Reportable Detection Limit

Maxxam Analytics Inc

Maxxam Job #: A709102
Report Date: 2007/03/19

LAKELAND INDUSTRY AND COMMUNITY ASSOCIATION
Client Project #: FEBRUARY 2007
Site Reference: LICA
Sampler Initials: SB

RESULTS OF CHEMICAL ANALYSES OF AIR

Maxxam ID		E59859	E59860	E59861	E59862		
Sampling Date		2007/01/29 07:40	2007/01/29 07:02	2007/01/30 13:20	2007/01/30 12:18		
	Units	**1**	**2**	**3**	**4**	**RDL**	**QC Batch**
Passive Montioring							
Calculated H2S	ppb		0.07		0.09	0.02	1530177
Calculated NO2	ppb	0.8	1.5	1.7	1.7	0.1	1530178
Calculated O3	ppb	32.9	35.0	36.7	39.0	0.1	1530179
Calculated SO2	ppb	0.4	0.7	1.1	1.1	0.1	1530184

RDL = Reportable Detection Limit

Maxxam ID		E59863	E59864	E59865	E59866		
Sampling Date		2007/01/30 11:05	2007/01/30 14:25	2007/01/29 15:55	2007/01/29 08:20		
	Units	**5**	**7**	**8**	**9**	**RDL**	**QC Batch**
Passive Montioring							
Calculated H2S	ppb				0.13	0.02	1530177
Calculated NO2	ppb	3.2	1.7	2.6	2.2	0.1	1530178
Calculated O3	ppb	34.7	34.2	36.5	32.0	0.1	1530179
Calculated SO2	ppb	1.0	0.9	0.8	0.7	0.1	1530184

RDL = Reportable Detection Limit

Maxxam ID		E59867	E59868	E59869	E59870		
Sampling Date		2007/01/29 08:50	2007/01/29 10:00	2007/01/29 11:45	2007/01/29 12:30		
	Units	**10**	**11**	**12**	**13**	**RDL**	**QC Batch**
Passive Montioring							
Calculated H2S	ppb	NO RETURN	0.07	0.11	0.11	0.02	1530177
Calculated NO2	ppb	NO RETURN	0.9	0.9	2.1	0.1	1530178
Calculated O3	ppb	NO RETURN	33.4	38.1	34.2	0.1	1530179
Calculated SO2	ppb	NO RETURN	0.6	0.8	1.8	0.1	1530184

RDL = Reportable Detection Limit

Maxxam Job #: A709102
Report Date: 2007/03/19

LAKELAND INDUSTRY AND COMMUNITY ASSOCIATION
Client Project #: FEBRUARY 2007
Site Reference: LICA
Sampler Initials: SB

RESULTS OF CHEMICAL ANALYSES OF AIR

Maxxam ID		E59871	E59872	E59873	E59874		
Sampling Date		2007/01/29 15:20	2007/01/30 09:40	2007/01/30 10:25	2007/01/30 09:00		
	Units	**14**	**15**	**16**	**17**	**RDL**	**QC Batch**
Passive Montioring							
Calculated H2S	ppb		0.06	0.12	0.10	0.02	1530177
Calculated NO2	ppb	2.3	2.3	2.9	1.0	0.1	1530178
Calculated O3	ppb	35.1	34.3	36.0	32.8	0.1	1530179
Calculated SO2	ppb	0.8	0.9	1.0	0.7	0.1	1530184

RDL = Reportable Detection Limit

Maxxam ID		E59875	E59876	E59877	E59878		
Sampling Date		2007/01/30 08:05	2007/01/29 14:35	2007/01/29 13:50	2007/01/30 11:45		
	Units	**18**	**19**	**20**	**21**	**RDL**	**QC Batch**
Passive Montioring							
Calculated H2S	ppb		0.11		0.12	0.02	1530177
Calculated NO2	ppb	1.5	4.2	0.4	3.8	0.1	1530178
Calculated O3	ppb	36.7	33.1	33.4	34.0	0.1	1530179
Calculated SO2	ppb	0.7	0.5	0.3	0.7	0.1	1530184

RDL = Reportable Detection Limit

Maxxam ID		E59880	E59884	E59885	E59886		
Sampling Date		2007/01/30 10:25	2007/01/29 11:30	2007/01/29 12:13	2007/01/29 12:45		
	Units	**16A**	**22**	**23**	**24**	**RDL**	**QC Batch**
Passive Montioring							
Calculated H2S	ppb	0.11	0.08	0.13	0.10	0.02	1530177
Calculated NO2	ppb	2.8				0.1	1530178
Calculated O3	ppb	34.0				0.1	1530179
Calculated SO2	ppb	1.0	0.8	1.2	1.5	0.1	1530184

RDL = Reportable Detection Limit

Maxxam Job #: A709102
Report Date: 2007/03/19

LAKELAND INDUSTRY AND COMMUNITY ASSOCIATION
Client Project #: FEBRUARY 2007
Site Reference: LICA
Sampler Initials: SB

RESULTS OF CHEMICAL ANALYSES OF AIR

Maxxam ID		E59887		
Sampling Date		2007/01/30 15:00		
	Units	**25**	**RDL**	**QC Batch**
Passive Montioring				
Calculated NO2	ppb	9.6	0.1	1530178
Calculated O3	ppb	26.9	0.1	1530179
Calculated SO2	ppb	0.6	0.1	1530184

RDL = Reportable Detection Limit

Maxxam Job #: A709102
Report Date: 2007/03/19

LAKELAND INDUSTRY AND COMMUNITY ASSOCIATION
Client Project #: FEBRUARY 2007
Site Reference: LICA
Sampler Initials: SB

General Comments

No results for Station 10 because of the road was not accessible according the field sheet.

Results relate only to the items tested.

LAKELAND INDUSTRY AND COMMUNITY ASSOCIATION
Attention: MICHAEL BISAGA
Client Project #: FEBRUARY 2007
P.O. #:
Site Reference: LICA

Quality Assurance Report

Maxxam Job Number: PA709102

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1530177 AB7	Calibration Check	Calculated H2S	2007/03/19		102	%	80 - 120
1530178 DF4	Calibration Check	Calculated NO2	2007/03/19		100	%	76 - 118
	BLANK	Calculated NO2	2007/03/19	ND, RDL=0.1		ppb	
1530179 DF4	Calibration Check	Calculated O3	2007/03/19		99	%	91 - 107
	SPIKE	Calculated O3	2007/03/19		100	%	N/A
	BLANK	Calculated O3	2007/03/19	ND, RDL=0.1		ppb	
1530184 DF4	Calibration Check	Calculated SO2	2007/03/19		100	%	95 - 105
	SPIKE	Calculated SO2	2007/03/19		100	%	N/A
	BLANK	Calculated SO2	2007/03/19	ND, RDL=0.1		ppb	

ND = Not detected
N/A = Not Applicable

Edmonton: 9331 - 48th Street T6B 2R4 Telephone(780) 468-3500 FAX(780) 466-3332

FEBRUARY 2007
PASSIVE FIELD DATA

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION
PASSIVE FIELD DATA

SAMPLER	ID	START		END		NOTES
		DATE	TIME	DATE	TIME	
$SO_2/NO_2/O_3$	1	01/29/07	07:40	02/27/07	09:50	
$H_2S/SO_2/NO_2/O_3$	2	01/29/07	07:02	02/27/07	09:00	
$SO_2/NO_2/O_3$	3	01/30/07	13:20	03/01/07	09:15	
$H_2S/SO_2/NO_2/O_3$	4	01/30/07	12:18	02/28/07	17:10	
$SO_2/NO_2/O_3$	5	01/30/07	11:05	02/28/07	15:35	
$SO_2/NO_2/O_3$	7	01/30/07	14:25	03/01/07	08:25	
$SO_2/NO_2/O_3$	8	01/29/07	15:55	02/27/07	08:25	
$H_2S/SO_2/NO_2/O_3$	9	01/29/07	08:20	02/27/07	10:25	
$H_2S/SO_2/NO_2/O_3$	10	01/29/07	08:50	NA	NA	Not Accessible, Road Snowed In.
$H_2S/SO_2/NO_2/O_3$	11	01/29/07	10:00	02/27/07	12:45	
$H_2S/SO_2/NO_2/O_3$	12	01/29/07	11:45	02/27/07	18:05	
$H_2S/SO_2/NO_2/O_3$	13	01/29/07	12:30	02/27/07	18:50	
$SO_2/NO_2/O_3$	14	01/29/07	15:20	02/27/07	07:25	
$H_2S/SO_2/NO_2/O_3$	15	01/30/07	09:40	02/28/07	14:00	
$H_2S/SO_2/NO_2/O_3$	16	01/30/07	10:25	02/28/07	14:50	
$H_2S/SO_2/NO_2/O_3$	17	01/30/07	09:00	02/28/07	13:20	
$SO_2/NO_2/O_3$	18	01/30/07	08:05	02/28/07	12:10	
$H_2S/SO_2/NO_2/O_3$	19	01/29/07	14:35	02/27/07	20:20	
$SO_2/NO_2/O_3$	20	01/29/07	13:50	02/28/07	07:35	
$H_2S/SO_2/NO_2/O_3$	21	01/30/07	11:45	02/28/07	16:35	
H_2S/SO_2	22	01/29/07	11:30	02/27/07	17:45	
H_2S/SO_2	23	01/29/07	12:13	02/27/07	18:35	
H_2S/SO_2	24	01/29/07	12:45	02/27/07	19:10	
$SO_2/NO_2/O_3$	25	01/30/07	15:00	02/27/07	08:05	
$H_2S/SO_2/NO_2/O_3$	15A	01/30/07	09:40	02/28/07	14:00	
$H_2S/SO_2/NO_2/O_3$	16A	01/30/07	10:25	02/28/07	14:50	