Maxxam Analytics Inc

November 23, 2007

Lakeland Industry & Community Association
Box8237
5006-50 Avenue
Bonnyville, Alberta
T9N 2J5

ATTENTION: Mr. Mike Bisaga

REFERENCE: Ambient Air Monitoring Report For October 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 October 2007.

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 October 2007 the following proceedings were noted:

Cold Lake South Site

- All analyzers and wind systems were all above 90% uptime objective for the month.
- 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.
- There was 0 hours of data for THC that was invalidated as no concentrations fell below the historical background average of 1.5 ppm, a concentration agreed to with the LICA Program Manager.
- The PM 2.5 was unstable for 1 hour during the month the data was subsequently invalidated.
- On October 13th there was 1 hour of data missing for an undetermined reason. All parameters with the exception of temperature were affected.
- On October 2nd a Thomas wobble pump that was used with the original Ozone analyzer was rebuilt. The pump was further re-connected to the new Ozone analyzer and the internal pump disconnected. The 'As Found' calibration was completed prior to the switch of the pumps with the regular monthly calibration occurring afterwards.
- On October 25th dropped off a bottle of methane span gas and also removed pump closet exhaust fan, as it was not functioning.
- On October 30th the pump closet exhaust fan was replaced.

Maxxam Analytics Inc

Passive Network

A summary of the passive monitoring are reported as follows:

- Monitoring period averages for O_3 ranged from 15.3 – 46.9 ppb.
- Monitoring period averages for SO_2 ranged from <0.1 – 1.3 ppb.
- Monitoring period averages for NO_2 ranged from 0.6 – 5.6 ppb.
- Monitoring period averages for H_2S ranged from 0.03 – 0.34 ppb.

Site #20 – Sampler shelter was destroyed by a gunshot. No samplers analyzed. The shelter was replaced. This is a re-occurring incident at this site.
Site #10 – Sampler was replaced as original sampler damaged. This was previous damage that occurred to the sampler, replacement occurred, as duplicate sampling was needed for the next month's sampling session.

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 Association
Cold Lake Monitoring Site
Ambient Air Monitoring
Data Report
For
October 2007

Prepared By:

MAXXAM ANALYTICS INC.

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

TABLE OF CONTENTS

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 – October 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	0.14	4	27	11	1.1	31	99.9
TRS (PPB)	-	-	-	-	0.00	0	ALL	ALL	0	ALL	99.9
NO_2 (PPB)	212	106	0	0	3.83	24	12	9	10.3	19	99.9
NO (PPB)	-	-	-	-	1.03	43	19	8	8.2	19	99.9
NOx (PPB)	-	-	-	-	5.09	64	12	9	18.8	19	99.9
O_3 (PPB)	82	-	0	-	21.55	43	24	19	31.5	25	99.9
THC (PPM)	-	-	-	-	2.00	4.3	28	19	2.5	20	99.9
PM 2.5 (UG/M^3)	-	30	-	0	2.58	11.1	17	15	7.3	17	99.7
TEMPERATURE (DEG C)	-	-	-	-	4.89	18.3	15	14	10.7	15	100.0
RELATIVE HUMIDITY (%)	-	-	-	-	66.81	97.4	14	7	84.6	11	99.9
VECTOR WS (KPH)	-	-	-	-	6.61	27.6	25	14	16.2	10	99.9
VECTOR WD (DEGREES)	-	-	-	-	S	-	-	-	-	-	99.9

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

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION PASSIVE NETWORK			
NETWORK MAXIMUM (PPB)			NETWORK AVERAGE (PPB)
PARAMETER	STATION	READING	READING
NO_2	25	5.6	2.0
SO_2	13	1.3	<0.4
H_2S	4	0.34	0.11
O_3	2	46.9	21.9

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

No operational issues during the month. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information. There was one hour of missing data on October 13th, 2007.

TRS

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

No operational issues during the month. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information. There was one hour of missing data on October 13th, 2007.

THC

- Analyzer make / model TECO 51C-LT

No operational issues during the month. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information. It was agreed to with the LICA Program Manager to invalidate all data, after zero correction, which falls below the historical background average of 1.5 ppm. As a result 0 hours of data was invalidated and the uptime was at 100.0%. There was one hour of missing data on October 13th, 2007.

NOx

- Analyzer make / model TECO 42C

No operational issues during the month. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information. There was one hour of missing data on October 13th, 2007.

O_3

- Analyzer make / model TECO 49I

No operational issues during the month. The original external pump being used with the original analyzer was rebuilt and re-connected to the new analyzer. The internal pump was disconnected. The pump replacement occurred after 'As Found' points were completed on the analyzer afterwards the regular monthly calibration occurred. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information. There was one hour of missing data on October 13th, 2007.

PM 2.5

- Analyzer make / model TEOM 1400A

No operational issues during the month. There were one hour of instability during the month; the data was subsequently invalidated. There was one hour of missing data on October 13th, 2007.

Wind Speed & Direction

- System make / model MET ONE 50.5

No operational issues observed during the month. The wind system is reported as vector wind speed and vector wind direction. There was one hour of missing data on October 13th, 2007.

Relative Humidity

- System make / model Rotronic Hygroclip-S3

No operational issues observed during the month. There was one hour of missing data on October 13th, 2007.

Temperature

- System make / model Rotronic Hygroclip-S3

No operational issues observed during the month.

Datalogger

- System make / model ESC 8832
- Software make / version ESC v 5.51a

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

Trailer

- A bottle of Methane Span gas was dropped off, also a non functioning exhaust fan for the pump closet was removed for replacement on October 25th, 2007.
- Replaced closet exhaust fan.

Air Quality Index (AQI)

The AQI data was adjusted to reflect regular monthly calibrations, maintenance, and downtime and daily calibrations.

Passive Network

- Site #20 – Sampler was destroyed by shotgun blast. The sampler was replaced. This is a reoccurring incidence at this site.
- Site #10 – Sampler was replaced as original sampler damaged. This was previous damage that occurred to the sampler, replacement occurred, as duplicate sampling was needed for the next month's sampling session.

LICA - COLD LAKE SITE

MONTHLY SUMMARIES, GRAPHS & WIND ROSES

AIR QUALITY INDEX

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 2007

AIR QUALITY INDEX (AQI)

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	12	11	11	10	10	8	5	**NA**	7	9	**NA**	**NA**	**NA**	**NA**	**NA**	9	10	9	8	4	2	1	1	0	12
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	-	-	-	-	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	PM2	O3_
2	1	1	2	2	3	3	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	14	14	15	15	14	13	10	15
	PM2	PM2	PM2	PM2	PM2	PM2	-	-	-	-	-	-	-	-	-	-	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
3	13	10	9	8	8	**NA**	4	6	9	11	13	15	15	15	12	11	10	8	7	7	7	7	9	8	15
	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
4	7	7	8	8	**NA**	10	10	9	10	11	12	13	13	13	13	12	12	12	10	7	5	10	11	7	13
	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
5	4	3	3	**NA**	6	6	1	6	10	12	13	13	13	14	14	14	14	12	10	11	11	11	11	11	14
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6	11	10	**NA**	9	8	8	8	7	10	13	14	14	14	14	14	13	13	12	11	9	10	10	9	8	14
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7	7	**NA**	4	8	5	4	5	8	8	10	14	17	17	17	19	19	18	17	17	16	16	16	16	15	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_
8	**NA**	13	11	9	4	3	3	4	5	11	17	18	18	18	19	19	18	17	15	13	9	5	4	**NA**	19
	-	O3_	O3_	O3_	O3_	PM2	PM2	PM2	PM2	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_
9	5	2	1	1	2	2	3	7	6	7	14	17	17	17	17	17	17	16	16	16	16	16	**NA**	16	17
	O3_	PM2	PM2	O3_	PM2	PM2	PM2	PM2	PM2	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_
10	15	15	15	14	12	10	14	13	14	14	14	15	15	16	16	16	16	16	17	16	16	**NA**	15	15	17
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_
11	15	15	14	13	13	12	11	10	10	10	10	9	9	9	8	9	8	9	4	2	**NA**	6	5	4	15
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	-	PM2	PM2	PM2	O3_
12	2	2	3	3	6	7	5	7	7	11	12	14	16	18	18	18	17	16	13	**NA**	7	5	8	5	18
	PM2	PM2	O3_	PM2	O3_	O3_	O3_	PM2	PM2	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	PM2	O3_
13	8	9	7	10	14	8	6	4	5	16	19	19	20	20	21	20	20	18	**NA**	15	14	**NA**	12	10	21
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	-	O3_	O3_	O3_
14	9	8	4	2	7	7	6	8	9	10	12	15	17	19	21	20	19	**NA**	16	15	14	13	13	12	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_
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16	16	15	14	14	14	13	12	13	13	14	15	16	18	19	21	**NA**	19	19	18	18	17	17	17	16	21
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
17	15	15	14	13	12	10	9	8	9	9	9	10	11	12	**NA**	12	10	9	8	7	7	6	7	7	15
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	PM2	PM2	PM2	PM2	O3_
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19	3	4	4	3	4	3	4	6	5	8	9	12	**NA**	11	11	13	12	9	5	2	5	4	4	3	13
	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	PM2	PM2	PM2	PM2	PM2	O3_
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23	16	16	15	14	13	13	13	12	**NA**	13	13	14	15	14	14	13	14	11	12	13	13	13	14	13	16
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24	13	12	11	9	9	9	7	**NA**	6	6	6	7	8	8	9	12	16	20	22	21	**NA**	18	16	17	22
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_
25	16	15	14	13	14	15	**NA**	14	16	16	17	17	18	18	18	18	18	18	17	16	12	16	16	16	18
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26	15	15	14	13	13	**NA**	16	14	13	16	16	17	17	17	18	17	17	15	14	12	9	7	5	10	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_
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	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	PM2	PM2	PM2	O3_
28	5	4	3	**NA**	5	6	9	11	14	16	18	18	18	19	19	19	18	14	7	3	7	5	4	3	19
	PM2	O3_	O3_	-	PM2	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	PM2	PM2	PM2	PM2	O3_
29	4	5	**NA**	14	15	15	14	13	14	14	15	15	14	14	14	8	8	5	4	2	7	6	7	8	15
	PM2	PM2	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	O3_	O3_	O3_	O3_	O3_
30	8	**NA**	9	10	10	10	10	10	11	12	14	15	17	17	17	17	18	16	14	12	12	11	10	11	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_
31	**NA**	11	9	9	9	8	8	8	9	11	13	16	17	17	17	17	14	7	7	11	11	14	13	**NA**	17
	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_
PEAK	16	16	15	14	15	15	16	14	16	16	19	19	20	20	21	20	20	20	22	21	20	19	18	17	
	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 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%
POOR (51 - 100)	0 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%
FAIR (26 - 50)	0 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%
GOOD (1 - 25)	617 hrs 82.93%	77 hrs 10.35%	0 hrs 0.00%	0 hrs 0.00%	694 hrs 93.28%
OVERALL	617 hrs 82.93%	77 hrs 10.35%	0 hrs 0.00%	0 hrs 0.00%	694 hrs 93.28%
UNAVAILABLE	-	-	-	-	50 hrs 6.72%

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc

SO_2

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 2007

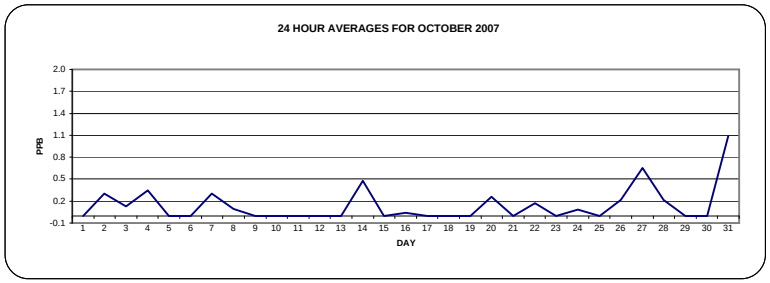
SULPHUR DIOXIDE (SO_2) hourly averages in ppb

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	0	0	0	0	**IZS**	0	0	**C**	**C**	**C**	**C**	**IZS**	0	0	0	0	0	0	0	0	0	0	0.0	24
2	0	0	0	0	0	0	**IZS**	0	0	1	1	1	0	1	2	1	0	0	0	0	0	0	0	0	2	0.3	24
3	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	0.1	24
4	1	1	1	0	**IZS**	0	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0.3	24
5	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
6	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
7	0	**IZS**	0	0	0	0	0	0	0	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	2	0.3	24
8	**IZS**	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	1	0.1	24
9	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	0.0	24
10	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	0.0	24
11	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
12	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
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	**M**	0	0	0	0.0	23
14	0	0	0	0	0	0	0	0	0	0	0	3	3	2	1	1	1	**IZS**	0	0	0	0	0	0	3	0.5	24
15	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
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	1	0	1	0.0	24
17	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	0.0	24
18	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
19	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
20	0	0	0	0	0	0	0	0	0	0	1	**IZS**	3	2	0	0	0	0	0	0	0	0	0	0	3	0.3	24
21	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
22	0	0	0	0	0	0	0	0	1	**IZS**	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0.2	24
23	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
24	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0.1	24
25	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
26	0	0	0	0	0	**IZS**	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0.2	24
27	0	0	0	0	**IZS**	0	0	0	1	1	**4**	3	1	1	1	1	0	0	0	0	1	0	1	0	4	0.7	24
28	0	0	0	**IZS**	0	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	24
29	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
30	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
31	**IZS**	0	0	0	1	1	1	1	1	2	2	2	1	1	1	2	2	1	1	1	1	1	1	**IZS**	2	**1.1**	24
HOURLY MAX	1	1	1	0	1	1	1	1	1	2	4	3	3	2	2	2	2	1	1	1	1	1	1	1			
HOURLY AVG	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.0			

STATUS FLAG CODES

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

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

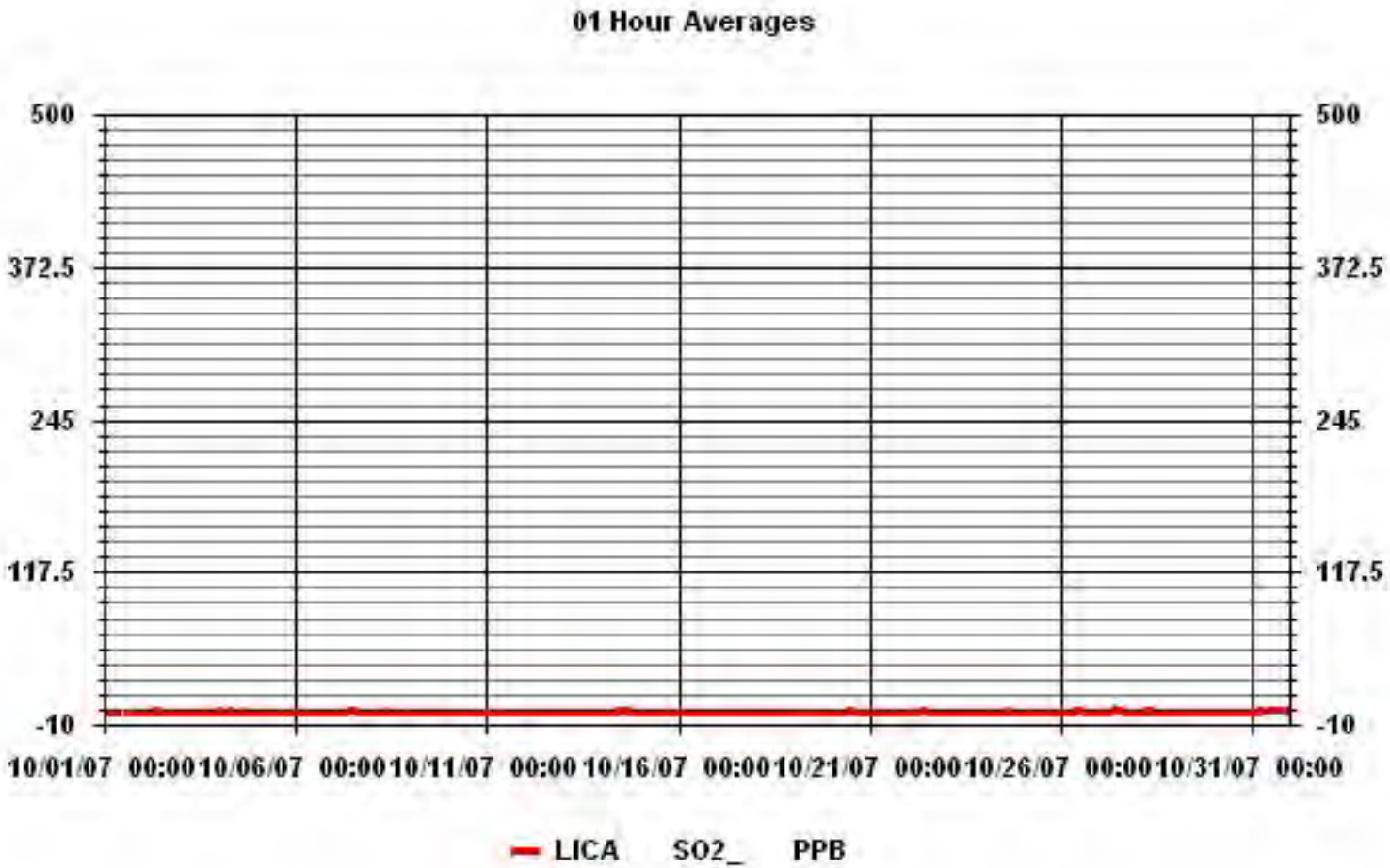


MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0					
NUMBER OF 24-HR EXCEEDENCES:	0					
NUMBER OF NON-ZERO READINGS:	80					
MAXIMUM 1-HR AVERAGE:	4	PPB	@ HOUR(S)	11	ON DAY(S)	27
MAXIMUM 24-HR AVERAGE:	1.1	PPB			ON DAY(S)	31

IZS CALIBRATION TIME:	34	HRS	OPERATIONAL TIME:	743	HRS
MONTHLY CALIBRATION TIME:	4	HRS	AMD OPERATION UPTIME:	99.9	%
STANDARD DEVIATION:	0.45		MONTHLY AVERAGE:	0.14	PPB

MOUNTAIN STANDARD TIME


01 Hour Averages
500
372.5
245
117.5
-10
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA SO2_ PPB

LICA
SO2_ / WD Joint Frequency Distribution (Percent)

October 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	.85	1.13	.85	3.68	6.09	12.19	20.85	1.98	3.97	3.26	9.92	15.88	11.20	4.82	1.84	1.41	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	.85	1.13	.85	3.68	6.09	12.19	20.85	1.98	3.97	3.26	9.92	15.88	11.20	4.82	1.84	1.41	

Calm : .00 %

Total # Operational Hours : 705

Distribution By Samples

Direction

	Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
<	20	6	8	6	26	43	86	147	14	28	23	70	112	79	34	13	10	705
<	60																	
<	110																	
<	170																	
<	340																	
>=	340																	
	Totals	6	8	6	26	43	86	147	14	28	23	70	112	79	34	13	10	

Calm : .00 %

Total # Operational Hours : 705

Logger : 01 Parameter : SO2_

Site : LICA

Period : 10/01/07-10/31/07

Level : 10

Class Limits (PPB)

>= 340

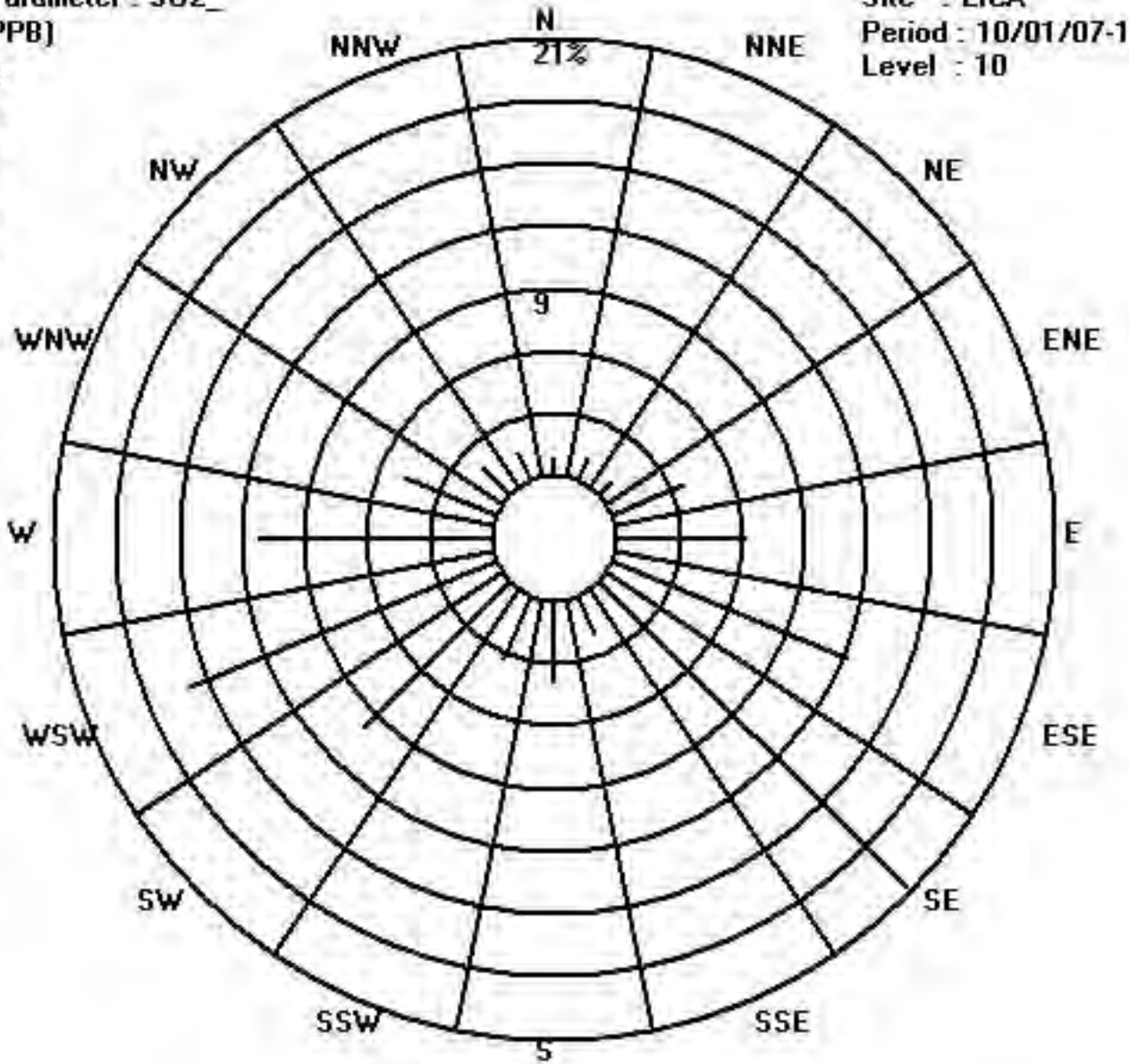
< 340

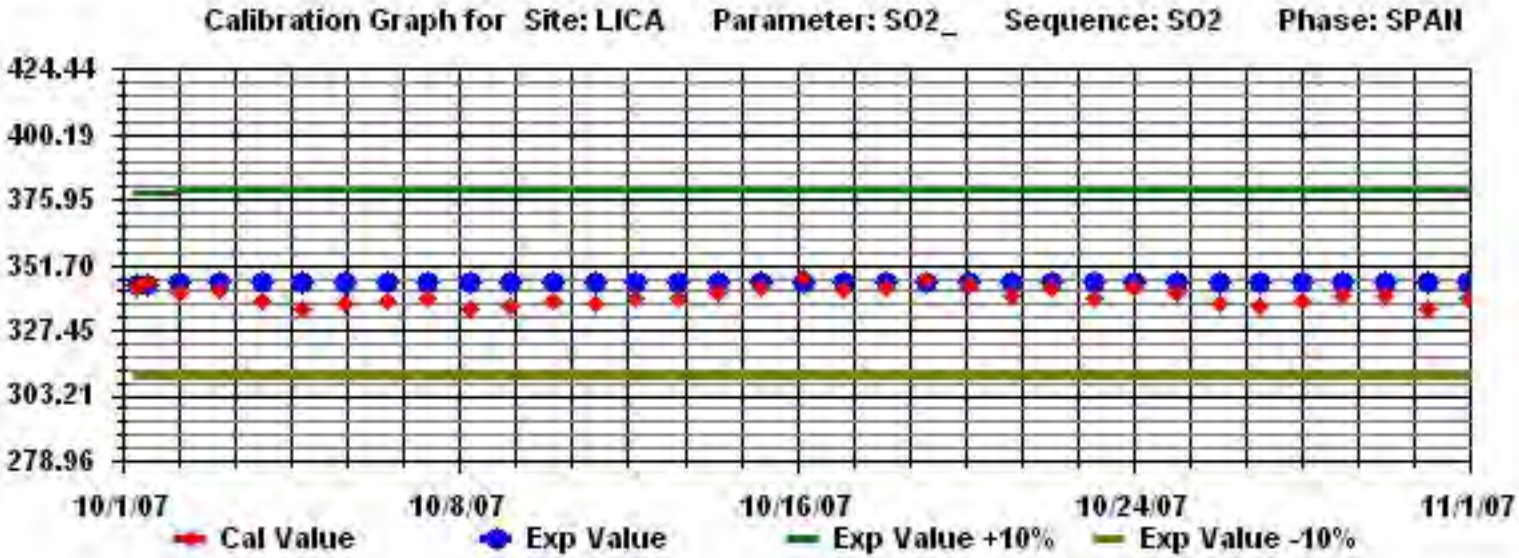
< 170

< 110

< 60

< 20




Calibration Graph for Site: LICA Parameter: SO2_ Sequence: SO2 Phase: SPAN
424.44
400.19
375.95
351.70
327.45
303.21
278.96
10/1/07
10/8/07
10/16/07
10/24/07
11/1/07
Cal Value
Exp Value
Exp Value +10%
Exp Value -10%

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 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	1	1	1	1	1	1	1	**IZS**	1	1	**C**	**C**	**C**	**C**	**IZS**	1	1	1	1	1	0	1	1	1	1	0.9	24
2	1	1	1	1	1	1	**IZS**	1	1	2	2	2	1	2	2	2	1	1	1	1	1	1	0	1	2	1.2	24
3	1	1	1	1	0	**IZS**	1	1	1	1	1	0	1	0	0	1	0	1	1	1	1	2	1	1	2	0.8	24
4	1	2	1	1	**IZS**	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.1	24
5	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
6	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
7	1	**IZS**	1	1	1	1	1	1	1	3	3	2	2	2	1	1	1	1	1	1	1	1	1	1	3	1.3	24
8	**IZS**	1	1	1	1	1	1	1	1	2	3	1	1	1	1	1	1	1	1	1	1	1	1	**IZS**	3	1.1	24
9	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	**IZS**	1	2	1.1	24
10	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
11	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
12	1	1	1	1	1	1	1	4	1	1	1	1	1	1	1	1	1	1	1	**IZS**	1	1	1	1	4	1.1	24
13	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	**IZS**	1	1	**M**	1	1	2	1.0	23
14	1	1	1	0	1	1	1	1	1	1	2	5	4	3	2	2	1	**IZS**	1	1	1	1	1	1	5	1.5	24
15	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	**IZS**	1	1	1	1	1	1	1	2	1.0	24
16	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
17	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
18	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	1.0	24
19	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
20	1	1	1	1	1	1	1	1	1	1	1	**IZS**	5	7	1	1	1	1	1	1	1	1	1	1	7	1.4	24
21	1	1	1	1	1	1	1	1	1	1	**IZS**	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
22	1	1	1	1	1	1	1	1	1	**IZS**	1	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1.0	24
23	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	1.0	24
24	1	1	1	1	1	1	1	**IZS**	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	2	1.1	24
25	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
26	1	1	1	1	1	**IZS**	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1.2	24
27	1	1	1	1	**IZS**	1	1	1	1	2	**8**	3	2	2	1	1	1	1	1	1	1	1	1	1	8	1.5	24
28	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
29	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
30	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
31	**IZS**	1	1	1	1	1	2	2	2	3	3	2	2	2	2	3	3	2	1	1	2	2	2	**IZS**	3	1.9	24
HOURLY MAX	1	2	1	1	2	1	2	4	2	3	8	5	5	7	2	3	3	2	1	1	2	2	2	1			
HOURLY AVG	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.3	1.6	1.3	1.4	1.4	1.1	1.2	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0			

STATUS FLAG CODES

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

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS: 697

MAXIMUM INSTANTANEOUS VALUE: 8 PPB @ HOUR(S) 11 ON DAY(S) 27

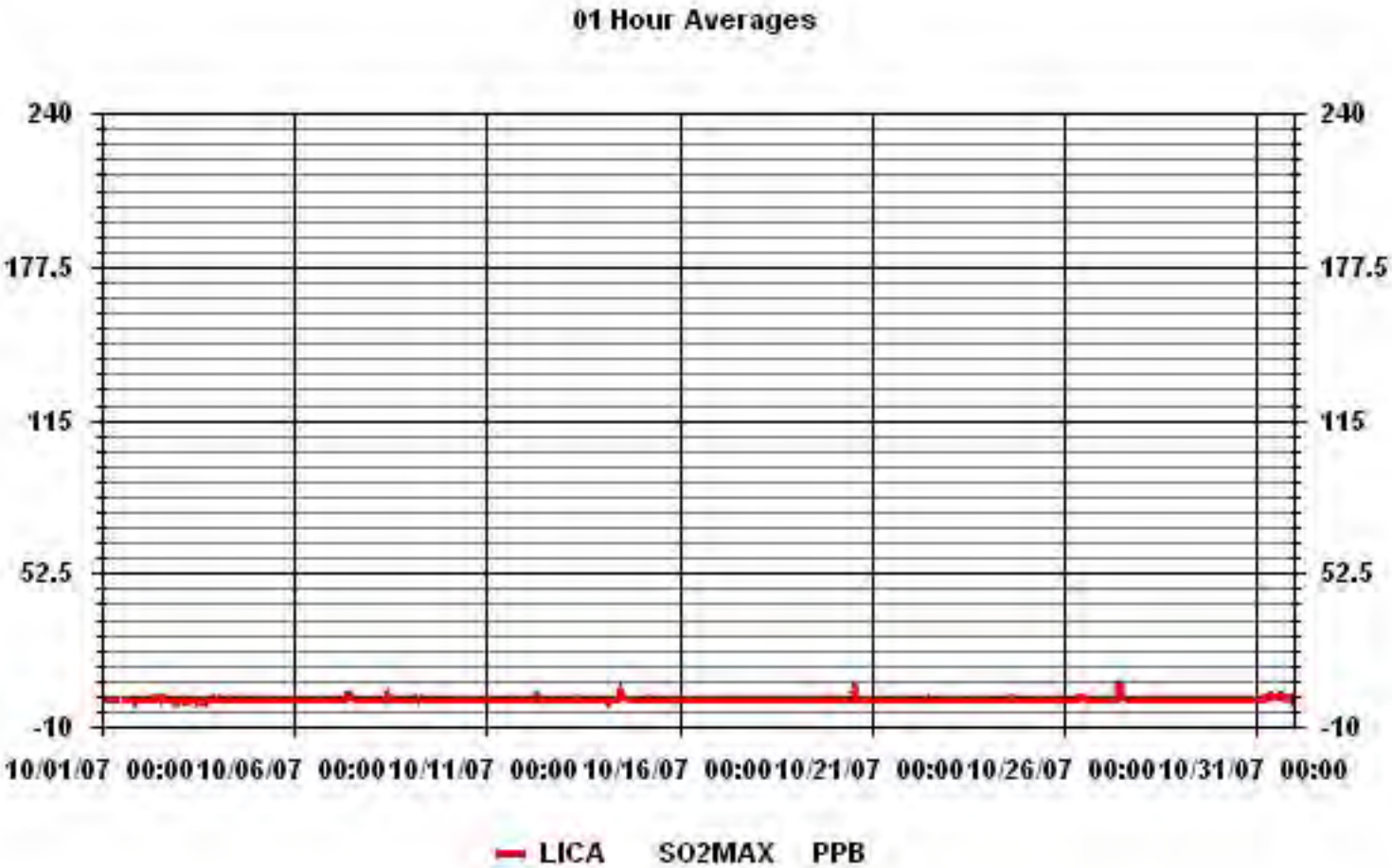
IZS CALIBRATION TIME: 34 HRS OPERATIONAL TIME: 743 HRS

MONTHLY CALIBRATION TIME: 4 HRS

STANDARD DEVIATION: 0.55

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
240
177.5
115
52.5
-10
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA SO2MAX PPB

TRS

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 2007

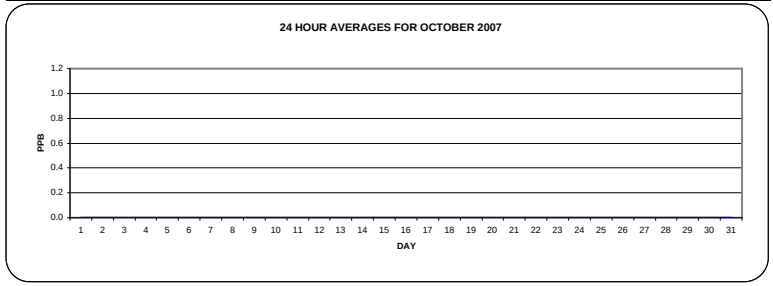
TOTAL REDUCED SULPHUR (TRS) hourly averages in ppb

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	**IZS**	0	0	**C**	**C**	**C**	**C**	**IZS**	0	0	0	0	0	0	0	0	0	0	0.0	24
2	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
3	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
4	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
5	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
6	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
7	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
8	**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
9	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	0.0	24
10	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	0.0	24
11	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
12	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
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	**M**	0	0	0	0.0	23
14	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	0.0	24
15	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
16	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
17	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	0.0	24
18	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
19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	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
31	**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
HOURLY MAX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
HOURLY AVG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

STATUS FLAG CODES

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

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

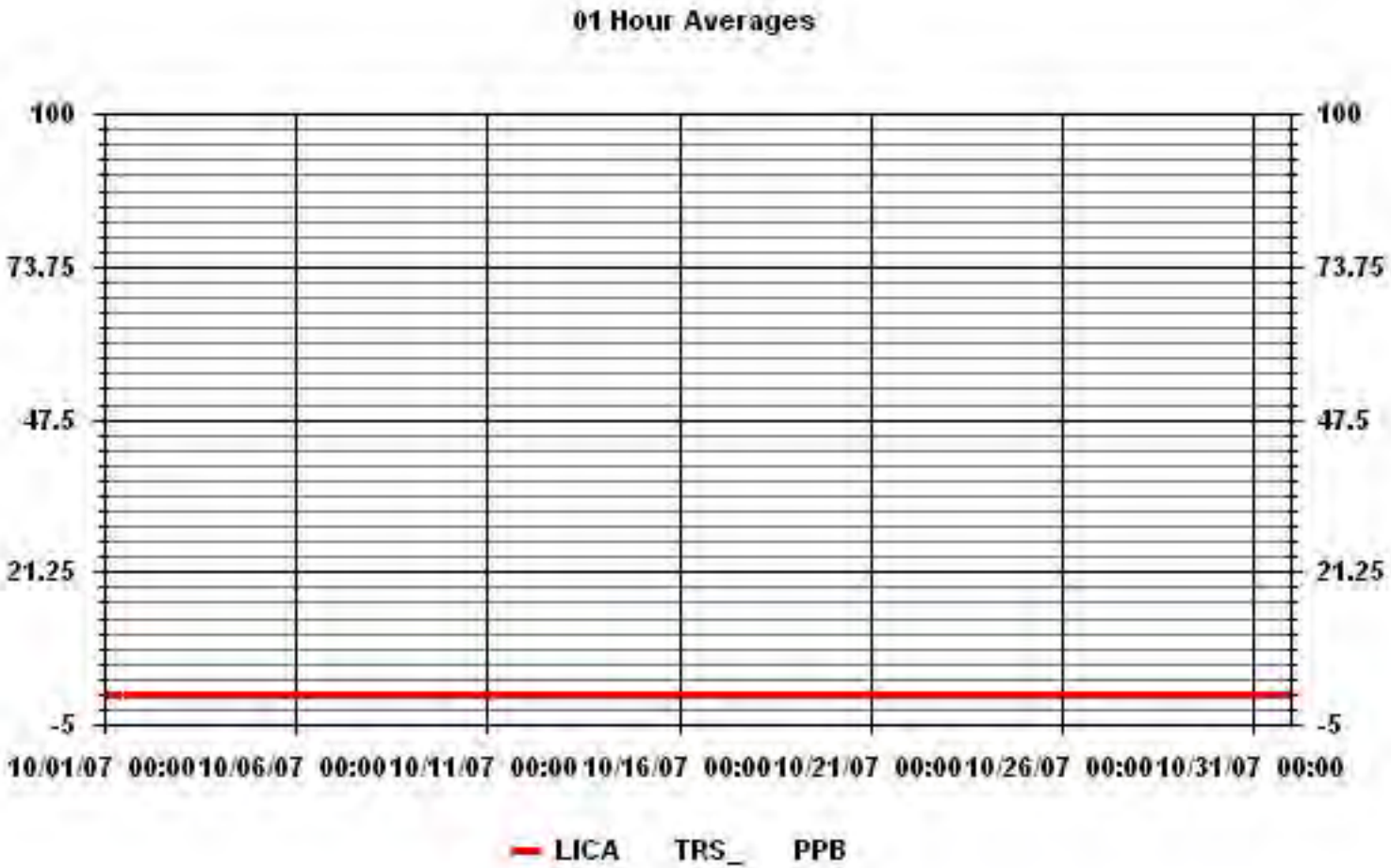


MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0					
NUMBER OF 24-HR EXCEEDENCES:	0					
NUMBER OF NON-ZERO READINGS:	0					
MAXIMUM 1-HR AVERAGE:	0	PPB	@ HOUR(S)	ALL	ON DAY(S)	ALL
MAXIMUM 24-HR AVERAGE:	0.0	PPB			ON DAY(S)	ALL
				VAR-VARIOUS		

IZS CALIBRATION TIME:	34	HRS	OPERATIONAL TIME:	743	HRS
MONTHLY CALIBRATION TIME:	4	HRS	AMD OPERATION UPTIME:	99.9	%
STANDARD DEVIATION:	0.00		MONTHLY AVERAGE:	0.00	PPB

MOUNTAIN STANDARD TIME


01 Hour Averages
100
73.75
47.5
21.25
-5
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA TRS_ PPB

LICA
TRS_ / WD Joint Frequency Distribution (Percent)

October 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	.85	1.13	.85	3.68	6.09	12.19	20.85	1.98	3.97	3.26	9.92	15.88	11.20	4.82	1.84	1.41	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	.85	1.13	.85	3.68	6.09	12.19	20.85	1.98	3.97	3.26	9.92	15.88	11.20	4.82	1.84	1.41	

Calm : .00 %

Total # Operational Hours : 705

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3	6	8	6	26	43	86	147	14	28	23	70	112	79	34	13	10	705
< 10																	
< 50																	
>= 50																	
Totals	6	8	6	26	43	86	147	14	28	23	70	112	79	34	13	10	

Calm : .00 %

Total # Operational Hours : 705

Logger : 01 Parameter : TRS_

Class Limits (PPB)

>= 50

< 50

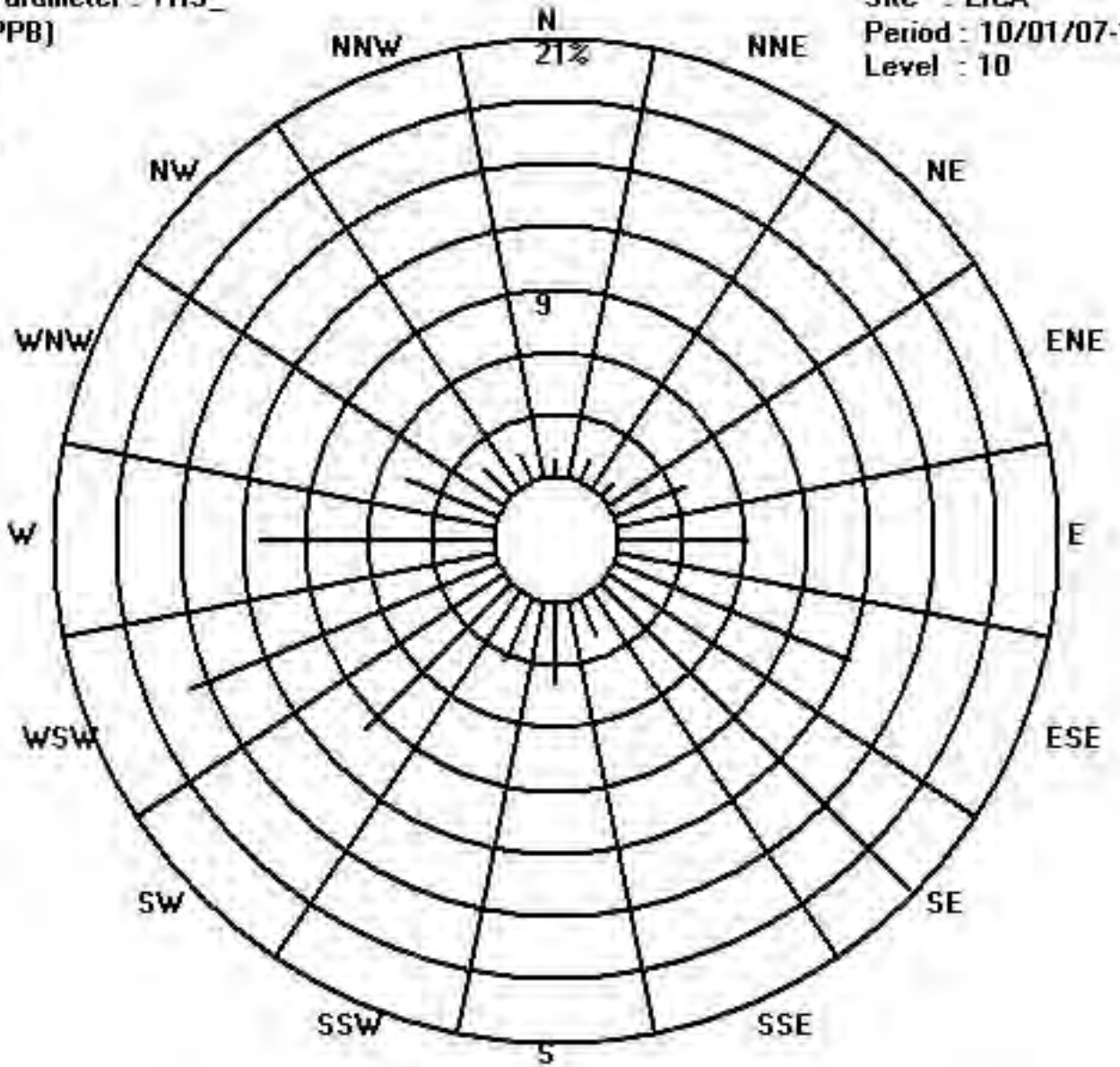
< 10

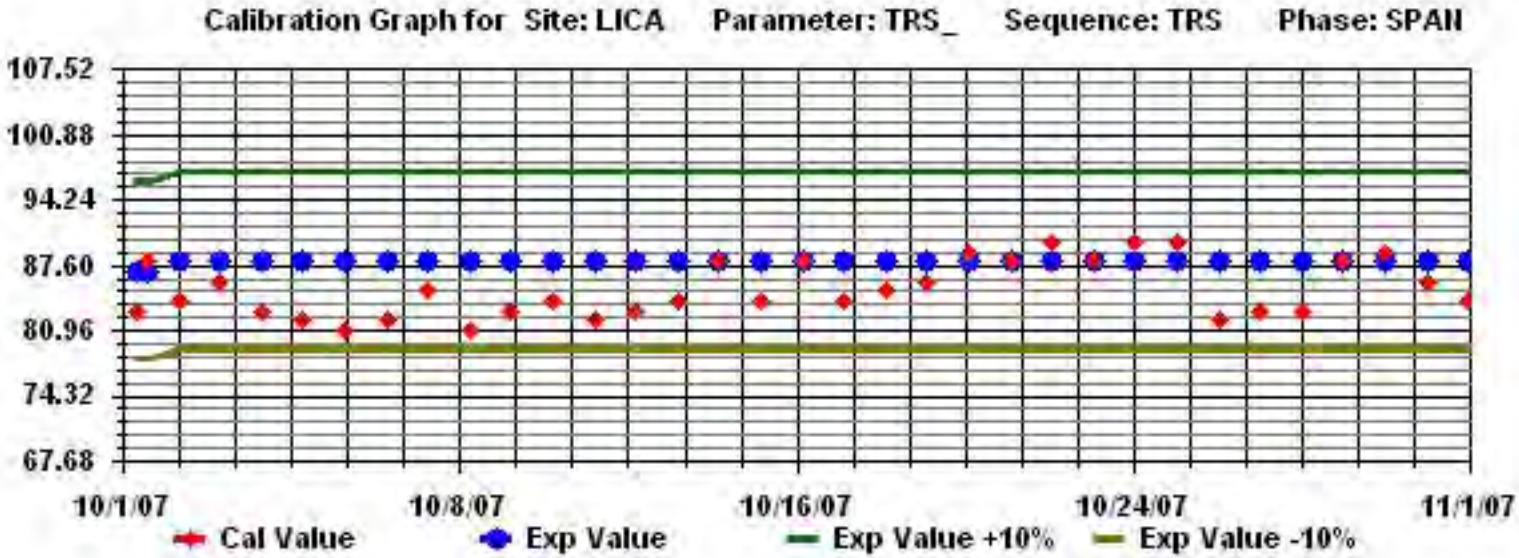
< 3

Site : LICA

Period : 10/01/07-10/31/07

Level : 10




Calibration Graph for Site: LICA Parameter: TRS_ Sequence: TRS Phase: SPAN
107.52
100.88
94.24
87.60
80.96
74.32
67.68
10/1/07
10/8/07
10/16/07
10/24/07
11/1/07
Cal Value
Exp Value
Exp Value +10%
Exp Value -10%

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 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	0	0	1	1	1	1	**IZS**	1	1	**C**	**C**	**C**	**C**	**IZS**	1	1	1	1	1	1	1	0	1	1	0.8	24
2	1	0	0	0	1	0	**IZS**	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0.8	24
3	1	1	0	1	1	**IZS**	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0.4	24
4	1	1	1	0	**IZS**	0	0	0	0	0	0	1	1	0	0	1	0	0	1	0	0	1	1	1	1	0.4	24
5	0	1	1	**IZS**	0	1	0	1	1	1	1	1	0	1	1	0	0	1	1	0	0	1	1	1	1	0.7	24
6	0	1	**IZS**	1	1	1	1	0	1	0	1	1	1	0	1	1	0	1	0	1	1	0	1	1	1	0.7	24
7	1	**IZS**	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	24
8	**IZS**	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	**IZS**	1	0.9	24
9	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	**IZS**	1	1	1.0	24
10	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	**IZS**	1	1	1	1.0	24
11	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	**IZS**	1	1	1	1	1.0	24
12	1	0	1	1	1	1	1	**3**	1	1	1	1	1	1	1	1	1	1	1	**IZS**	1	1	1	1	3	1.0	24
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	**IZS**	1	1	**M**	1	1	1	1.0	23
14	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	**IZS**	1	1	1	1	1	1	1	1.0	24
15	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	**IZS**	1	1	1	1	1	1	1	1	1.0	24
16	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	**IZS**	1	1	1	1	1	1	1	1	1	0.9	24
17	1	1	1	1	1	1	0	1	1	1	1	1	1	1	**IZS**	1	1	1	1	1	1	1	1	1	1	1.0	24
18	1	1	1	1	1	1	1	1	1	1	1	1	1	**IZS**	1	0	1	1	1	0	1	1	1	1	1	0.9	24
19	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
20	1	1	1	1	1	1	0	1	1	1	1	**IZS**	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
21	1	1	1	1	1	1	1	1	1	1	**IZS**	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
22	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
23	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	1.0	24
24	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
25	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
26	1	0	1	1	1	**IZS**	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0.9	24
27	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
28	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
29	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
30	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
31	**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
HOURLY MAX	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
HOURLY AVG	0.9	0.9	0.9	0.8	0.9	0.9	0.8	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.9	0.9	0.9	0.9	1.0			

STATUS FLAG CODES

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

MONTHLY SUMMARY

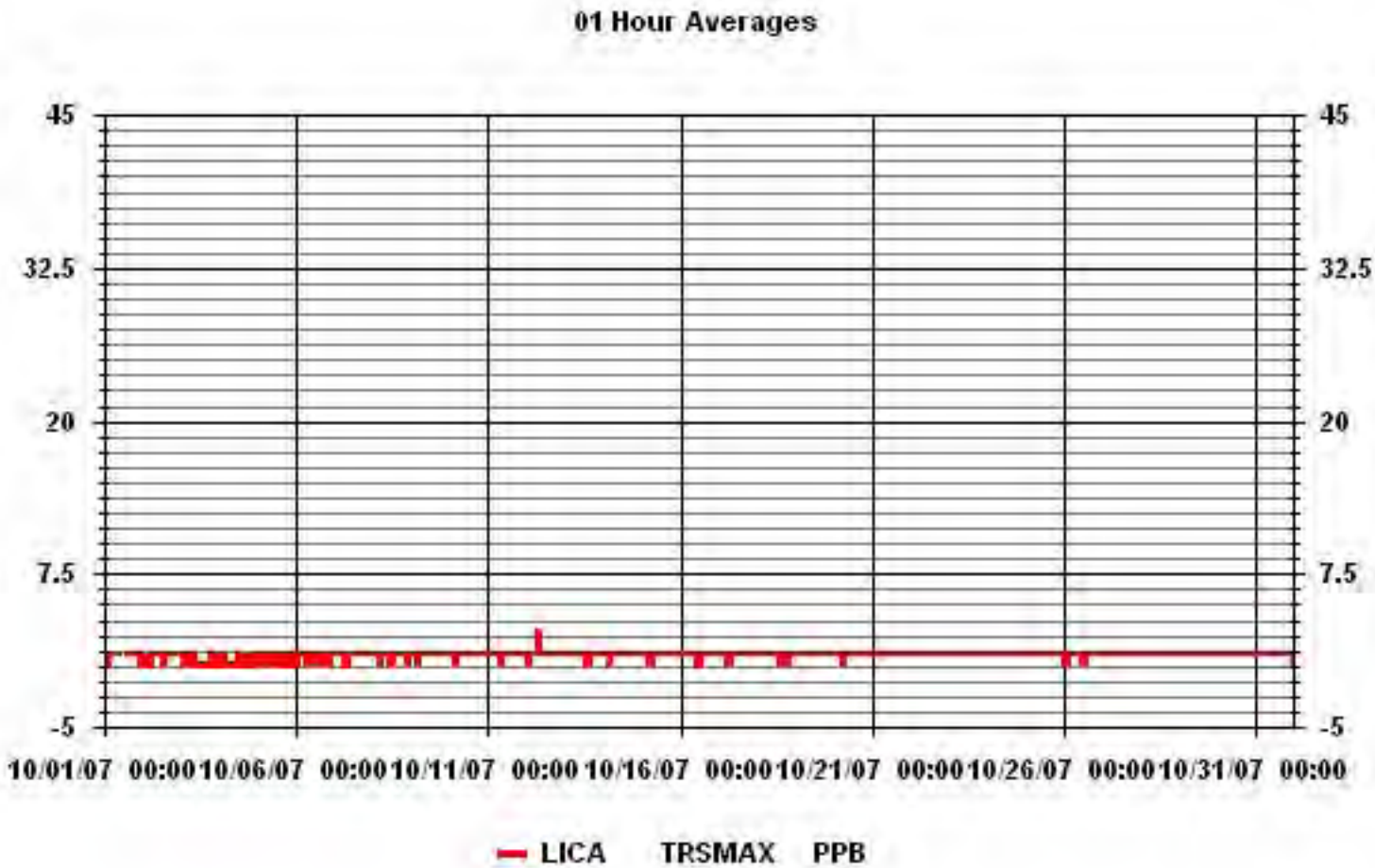
NUMBER OF NON-ZERO READINGS:	634					
MAXIMUM INSTANTANEOUS VALUE:	3	PPB	@ HOUR(S)	8	ON DAY(S)	12

VAR - VARIOUS

IZS CALIBRATION TIME:	34	HRS	OPERATIONAL TIME:	743	HRS
MONTHLY CALIBRATION TIME:	4	HRS			
STANDARD DEVIATION:	0.31				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
45
32.5
20
7.5
-5
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA TRSMAX PPB

THC

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

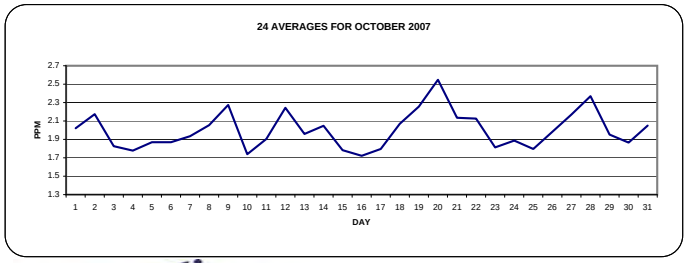
OCTOBER 2007

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	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	1.7	1.7	1.7	1.7	1.7	1.7	1.8	**IZS**	1.7	1.7	1.8	1.7	1.8	**C**	**C**	**C**	**IZS**	1.8	2.1	3.2	2.8	2.7	2.6	2.5	3.2	2.0	24
2	2.9	2.4	3.4	2.7	2.9	3.3	**IZS**	2.3	2.1	2.1	2	1.9	1.8	1.9	1.8	1.8	1.8	1.7	1.8	1.7	1.8	1.8	1.9	2.2	3.4	2.2	24
3	1.8	2	2	2	2	**IZS**	2.3	2.2	2.1	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	1.8	24
4	1.8	1.7	1.7	1.7	**IZS**	1.7	1.8	1.8	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.8	24
5	1.9	1.9	1.9	**IZS**	2.1	2.2	2	2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	2.2	1.9	24
6	2	1.9	**IZS**	2	2	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.1	2.1	2.1	1.9	24
7	2.2	**IZS**	2.1	2	2.6	2.4	2.4	2.1	2.2	2.1	2	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6	1.9	24
8	**IZS**	1.7	1.7	2.2	2.8	1.9	2.6	2.4	2.2	1.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	2	2.3	2.4	3.7	**IZS**	3.7	2.1	24
9	2.5	2.7	3.2	2.8	2.6	3.1	3.4	3.3	2.8	2.4	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	**IZS**	1.8	3.4	2.3	24
10	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	**IZS**	1.7	1.7	1.8	1.7	24
11	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	**IZS**	2.1	3.4	2.4	3.4	1.9	24
12	2.3	2.5	2.7	2.9	2.7	2.3	2.2	2.2	2.1	2.1	2	1.9	1.8	1.7	1.7	1.7	1.8	2	2	**IZS**	2.5	3	2.4	3.1	3.1	2.2	24
13	2.4	2.1	2.1	2.7	2.1	2.1	2.5	2.2	2.2	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	**IZS**	1.8	1.8	**M**	1.8	1.8	2.7	2.0	23
14	2.1	2.2	2.4	2.2	1.9	2.2	2.1	2.1	2.1	2.1	2.1	2	2	2	2	2	2	**IZS**	2.1	2	1.9	1.9	1.9	1.8	2.4	2.0	24
15	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	**IZS**	1.8	1.7	1.7	1.8	1.8	1.8	1.7	1.9	1.8	24
16	1.7	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	**IZS**	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.7	24
17	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	**IZS**	1.7	1.8	1.9	1.9	2	2	2.1	2	2.1	2.1	1.8	24
18	2	1.8	1.8	2	1.9	2.1	2	1.9	1.8	1.7	1.7	1.7	1.7	**IZS**	1.7	1.7	1.7	2.1	2.3	2	3.4	3.2	3	2.4	3.4	2.1	24
19	2.2	3.3	2.7	2.8	3.1	2.6	2.4	2.3	2	1.8	1.8	1.8	**IZS**	1.9	1.8	1.8	1.8	1.8	1.9	2.7	2.5	2.3	2.4	2.2	3.3	2.3	24
20	2.4	3.1	3.4	2.6	3.2	3.6	3.6	3.9	3.8	3.6	2.9	**IZS**	1.9	1.7	1.7	1.7	1.7	1.7	1.8	2	2.1	2	2.1	2.1	3.9	**2.5**	24
21	2.2	2.5	2.5	2.4	2.2	2.2	2.3	2.1	2	1.9	**IZS**	1.9	1.8	1.8	1.8	1.8	1.8	2.2	2.8	2	2.8	2	2	2.1	2.8	2.1	24
22	2.3	2.3	3	3.1	3.6	2.6	2.7	2.9	2.1	**IZS**	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7	3.6	2.1	24
23	1.7	1.8	1.8	1.8	1.8	1.9	1.9	1.9	**IZS**	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.8	24
24	1.9	2	2	2.1	2.1	2	2	**IZS**	2	2	2	2	2	1.9	1.9	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.7	2.1	1.9	24
25	1.8	1.8	1.9	1.8	1.8	1.8	**IZS**	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	2.4	1.8	1.8	1.8	2.4	1.8	24
26	1.9	1.9	2	2	1.9	**IZS**	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.3	2.4	2.7	3	2	3.0	2.0	24
27	2.2	2.2	2.2	2.2	**IZS**	2.1	2	2	2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2	2.1	2	2.3	2.3	3.1	3.2	2.7	3.2	2.2	24
28	2.6	3.9	2.9	**IZS**	2.7	2.6	2.2	2	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.3	**4.3**	2.4	2.2	2.2	2.8	3.1	4.3	2.4	24
29	2.2	2.3	**IZS**	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2	2.2	2.5	1.9	2.3	2.2	2.1	2.5	2.0	24
30	2	**IZS**	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.9	2.1	2.1	2.2	2	2.1	2.2	1.9	24
31	**IZS**	2.2	2.2	2.3	2	2	2.1	2	2	2	1.9	1.8	1.8	1.8	1.8	1.8	1.9	2.3	2.4	2.3	2.4	2.1	2	**IZS**	2.4	2.1	24
HOURLY MAX	2.9	3.9	3.4	3.1	3.6	3.6	3.6	3.9	3.8	3.6	2.9	2.0	2.0	2.0	2.0	2.0	2.0	2.3	4.3	3.2	3.4	3.2	3.7	3.1			
HOURLY AVG	2.1	2.2	2.2	2.1	2.2	2.2	2.2	2.1	2.0	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.0	2.0	2.1	2.1	2.2	2.1			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MISSING DATA
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE
BB	- BELOW BACKGROUND OF 1.5 PPM		



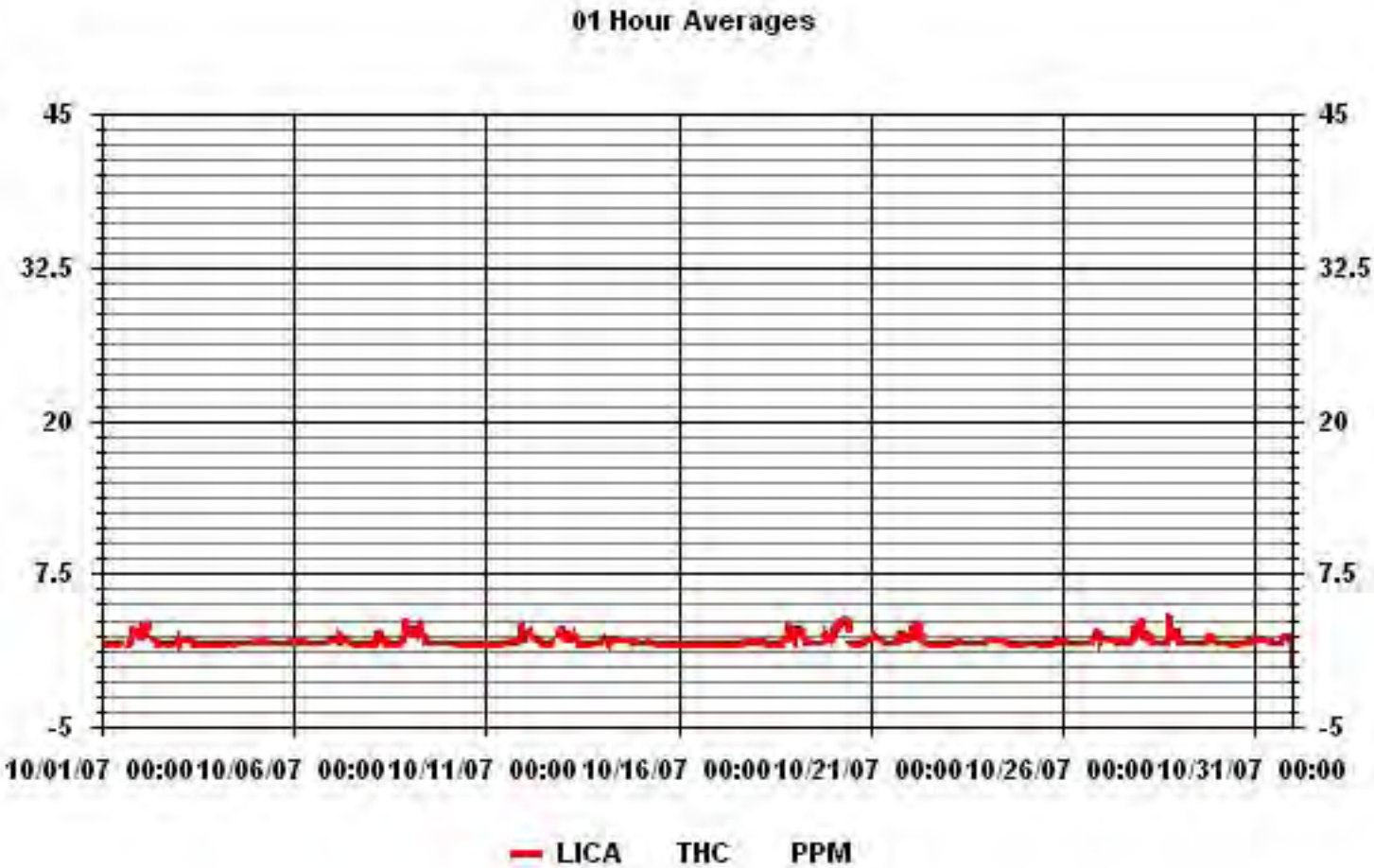
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	706					
MAXIMUM 1-HR AVERAGE:	4.3	PPM	@ HOUR(S)	19	ON DAY(S)	28
MAXIMUM 24-HR AVERAGE:	2.5	PPM			ON DAY(S)	20

IZS CALIBRATION TIME:	34	HRS	OPERATIONAL TIME:	743	HRS
MONTHLY CALIBRATION TIME:	3	HRS	AMD OPERATION UPTIME:	99.9	%
STANDARD DEVIATION:	0.40		MONTHLY AVERAGE:	2.00	PPM

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
45
32.5
20
7.5
-5
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA THC PPM

LICA
THC / WD Joint Frequency Distribution (Percent)

October 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	.84	1.13	.84	3.39	5.94	12.03	20.82	1.84	3.68	1.84	9.06	14.58	11.04	4.81	1.98	1.41	95.32
< 10.0	.00	.00	.00	.28	.14	.14	.00	.14	.28	1.41	.84	1.27	.14	.00	.00	.00	4.67
< 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	.84	1.13	.84	3.68	6.09	12.18	20.82	1.98	3.96	3.25	9.91	15.86	11.18	4.81	1.98	1.41	

Calm : .00 %

Total # Operational Hours : 706

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3.0	6	8	6	24	42	85	147	13	26	13	64	103	78	34	14	10	673
< 10.0				2	1	1		1	2	10	6	9	1				33
< 50.0																	
>= 50.0																	
Totals	6	8	6	26	43	86	147	14	28	23	70	112	79	34	14	10	

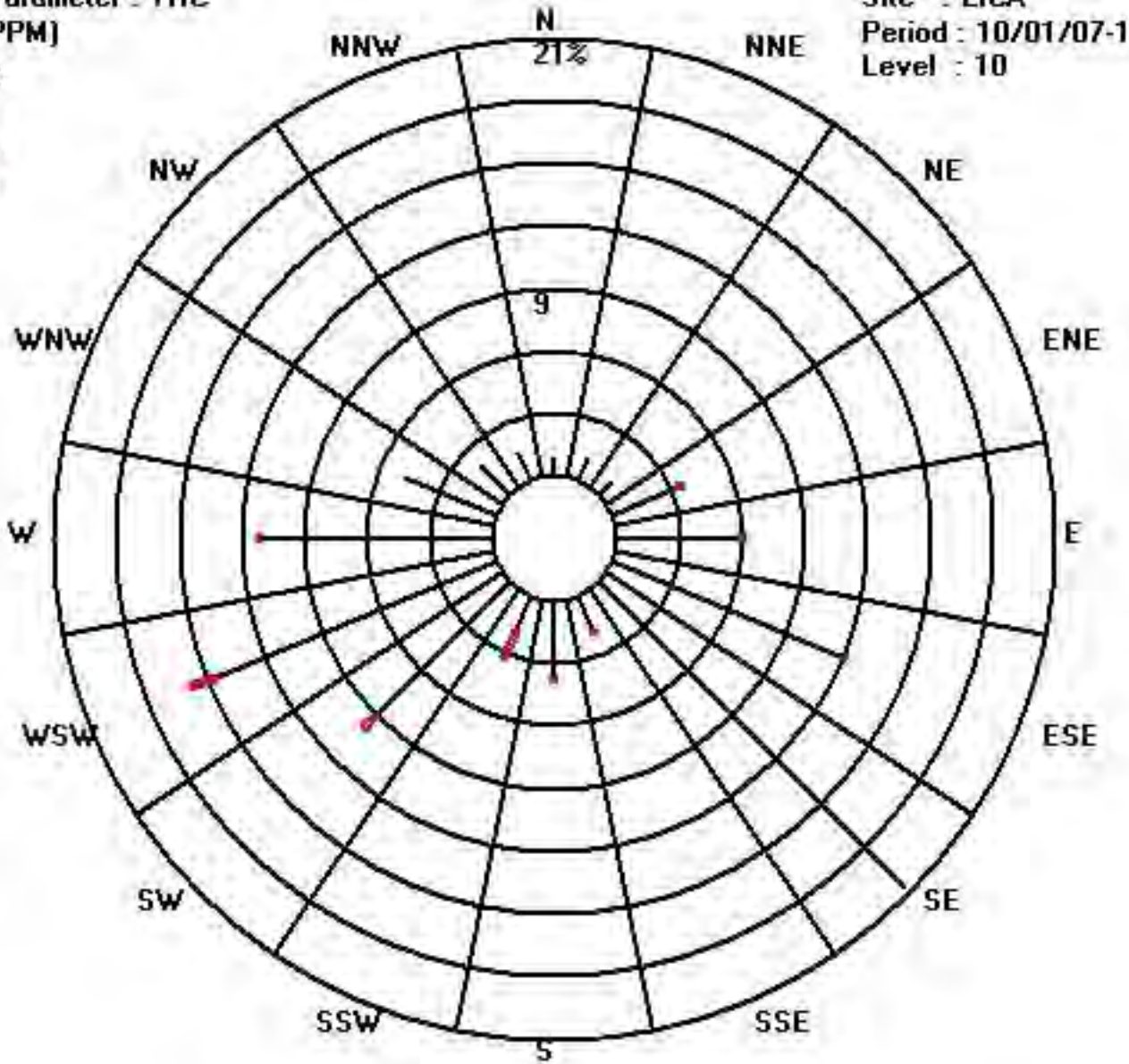
Calm : .00 %

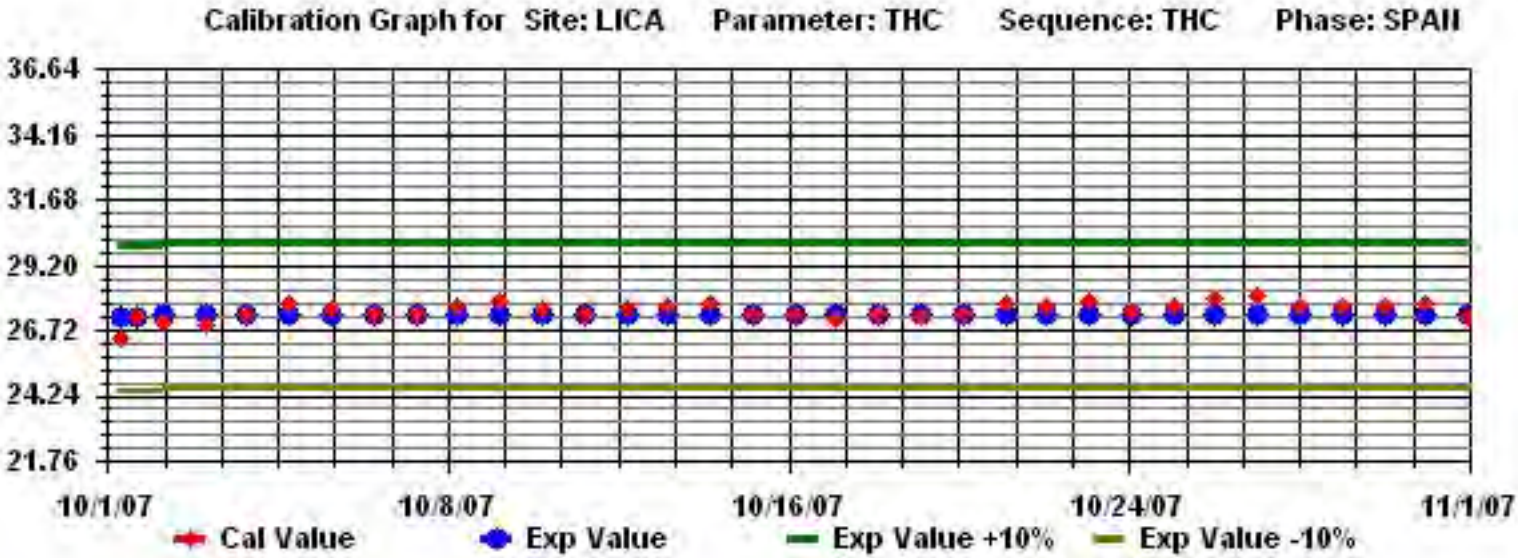
Total # Operational Hours : 706

Logger : 01 Parameter : THC
Class Limits (PPM)

>= 50.0
< 50.0
< 10.0
< 3.0

Site : LICA
Period : 10/01/07-10/31/07
Level : 10




Calibration Graph for Site: LICA Parameter: THC Sequence: THC Phase: SPAII
36.64
34.16
31.68
29.20
26.72
24.24
21.76
10/1/07
10/8/07
10/16/07
10/24/07
11/1/07
Cal Value
Exp Value
Exp Value +10%
Exp Value -10%

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 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	1.7	1.8	1.7	1.7	1.9	1.8	1.9	**IZS**	1.8	1.8	1.8	1.8	1.8	**C**	**C**	**C**	**IZS**	2.1	4.6	4.8	3.6	3.3	3.1	4.6	4.8	2.5	24
2	4.6	4.5	5.9	3.4	6	5.1	**IZS**	3	2.3	2.2	2.1	2	1.9	1.9	1.8	1.8	1.9	1.8	1.8	1.8	2	2	2.6	3.1	6	2.8	24
3	1.9	3.2	3.1	2.3	2.2	**IZS**	2.8	2.8	2.6	1.9	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.2	2.0	24
4	1.8	1.8	1.7	1.8	**IZS**	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.8	1.8	1.9	1.9	1.8	24
5	2	2	2	**IZS**	2.8	3.4	2.2	2.2	1.9	1.9	1.8	1.8	1.9	1.8	1.9	1.8	1.8	1.8	2	1.9	1.8	1.9	2	2	3.4	2.0	24
6	2	2	**IZS**	2	2	2	2.1	2	1.9	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2	1.9	1.8	1.9	2.8	2.4	2.8	2.0	24
7	3.7	**IZS**	2.2	2.1	5.3	3.4	3.6	2.3	2.3	2.4	2	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.7	5.3	2.3	24
8	**IZS**	1.7	2	6.1	4.2	2.7	6	4.3	2.8	2	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	2	2.7	3.8	3.8	9.1	**IZS**	9.1	3.0	24
9	6.1	3.3	4.3	4.3	3.2	5.5	4.8	3.7	3.1	2.6	2.1	1.9	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	**IZS**	1.8	6.1	2.8	24
10	1.8	1.8	1.8	1.8	1.9	2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.9	1.8	1.8	**IZS**	1.7	1.8	2	1.8	24
11	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.9	2	2	2	1.9	2	2.2	2.1	**IZS**	2.2	6.5	5.3	6.5	2.3	24
12	2.4	2.7	3.3	5.8	3.2	3.7	3.4	2.8	2.2	2.2	2	2	1.9	1.8	1.8	1.7	2	2.3	2.5	**IZS**	3.2	7	3.3	9.9	9.9	3.2	24
13	4.1	2.3	3.2	3.9	3.5	3.2	3.4	2.5	2.6	2.2	1.8	1.8	1.8	1.8	1.7	1.7	1.8	1.9	**IZS**	1.8	2.3	**M**	1.9	2	4.1	2.4	23
14	3.7	3.6	6.3	3.7	2	3.8	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2	2	2.2	**IZS**	2.2	2.1	2	2	2	1.9	6.3	2.6	24
15	1.9	1.9	1.8	1.9	2	2	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	**IZS**	1.8	1.8	1.8	1.9	1.8	1.8	1.8	2	1.8	24
16	1.8	1.8	1.8	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.8	**IZS**	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.9	1.8	24
17	1.7	1.7	1.7	1.7	2	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	**IZS**	1.8	1.9	2	2	2.3	2	3.9	2	2.2	3.9	1.9	24
18	2.1	1.9	1.9	3.6	2.1	2.2	2.1	2	1.9	1.8	1.7	2	2	**IZS**	1.7	1.7	1.9	3.1	3.2	2.8	4.8	5.2	5.4	4.4	5.4	2.7	24
19	2.5	7.5	4.3	4.2	5.7	3.8	2.6	2.5	2.3	2	1.8	1.8	**IZS**	1.9	1.9	1.8	1.8	1.8	2.8	5.2	6.2	4.6	3.1	2.4	7.5	3.2	24
20	3.9	5.8	7.4	3.7	5	7	5.1	5.6	4.3	3.8	3.3	**IZS**	2.1	1.8	1.7	1.7	1.8	1.9	2	3.2	4.2	2.2	2.8	2.6	7.4	3.6	24
21	3.6	4.1	3.7	2.7	2.2	2.6	2.8	2.2	2.1	2	**IZS**	1.9	1.9	1.8	1.8	1.8	1.8	**10.6**	5.7	2.3	4.2	2.3	2.2	2.2	10.6	3.0	24
22	2.3	2.8	4.8	5.1	6.5	3.3	3.6	6.1	2.5	**IZS**	2	1.9	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	6.5	2.7	24
23	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	**IZS**	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	2.2	2.2	1.9	1.9	1.9	2.2	1.9	24
24	2	2	2.2	2.1	2.2	2.1	2.1	**IZS**	2.1	2.1	2	2	2	2.1	2	1.9	1.7	1.7	1.7	1.7	1.8	1.9	1.8	1.8	2.2	2.0	24
25	1.8	1.9	2	1.9	1.9	1.9	**IZS**	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.3	7	1.9	1.9	1.9	7	2.1	24
26	1.9	1.9	2.2	2.1	2	**IZS**	1.9	2.1	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	2.4	3.2	3.4	4.8	4.9	2.1	4.9	2.3	24
27	2.6	2.4	2.3	2.2	**IZS**	2.1	2.1	2.2	2	2	2	2	2	1.9	1.9	2	2.5	3.5	2.8	3.3	4.2	7.2	5.1	3.8	7.2	2.8	24
28	3.3	7.8	4.6	**IZS**	3.3	3.3	2.8	2.7	2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.2	3.6	7.4	3.7	2.3	3.5	4.4	4.7	7.8	3.2	24
29	2.4	2.8	**IZS**	1.8	1.9	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.1	2.6	3.1	5	5.2	2.1	2.5	2.3	2.1	5.2	2.4	24
30	2	**IZS**	1.9	1.9	1.8	1.8	1.9	1.8	2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.3	2.1	2.3	3.1	3.3	2.5	2.7	3.3	2.1	24
31	**IZS**	2.8	2.9	3.3	2.2	2.1	2.2	2.1	2.3	2.1	2	1.8	1.8	1.8	1.8	1.9	2.2	4.8	5.6	3.7	3.6	2.8	2.2	**IZS**	5.6	2.6	24
HOURLY MAX	6	8	7	6	7	7	6	6	4	4	3	2	2	2	2	2	3	11	7	5	7	7	9	10			
HOURLY AVG	2.6	2.9	3.0	2.8	2.9	2.8	2.6	2.5	2.2	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.9	2.5	2.7	2.6	2.9	2.9	2.9	2.8			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MISSING DATA
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE
BB	- BELOW BACKGROUND OF 1.5 PPM		

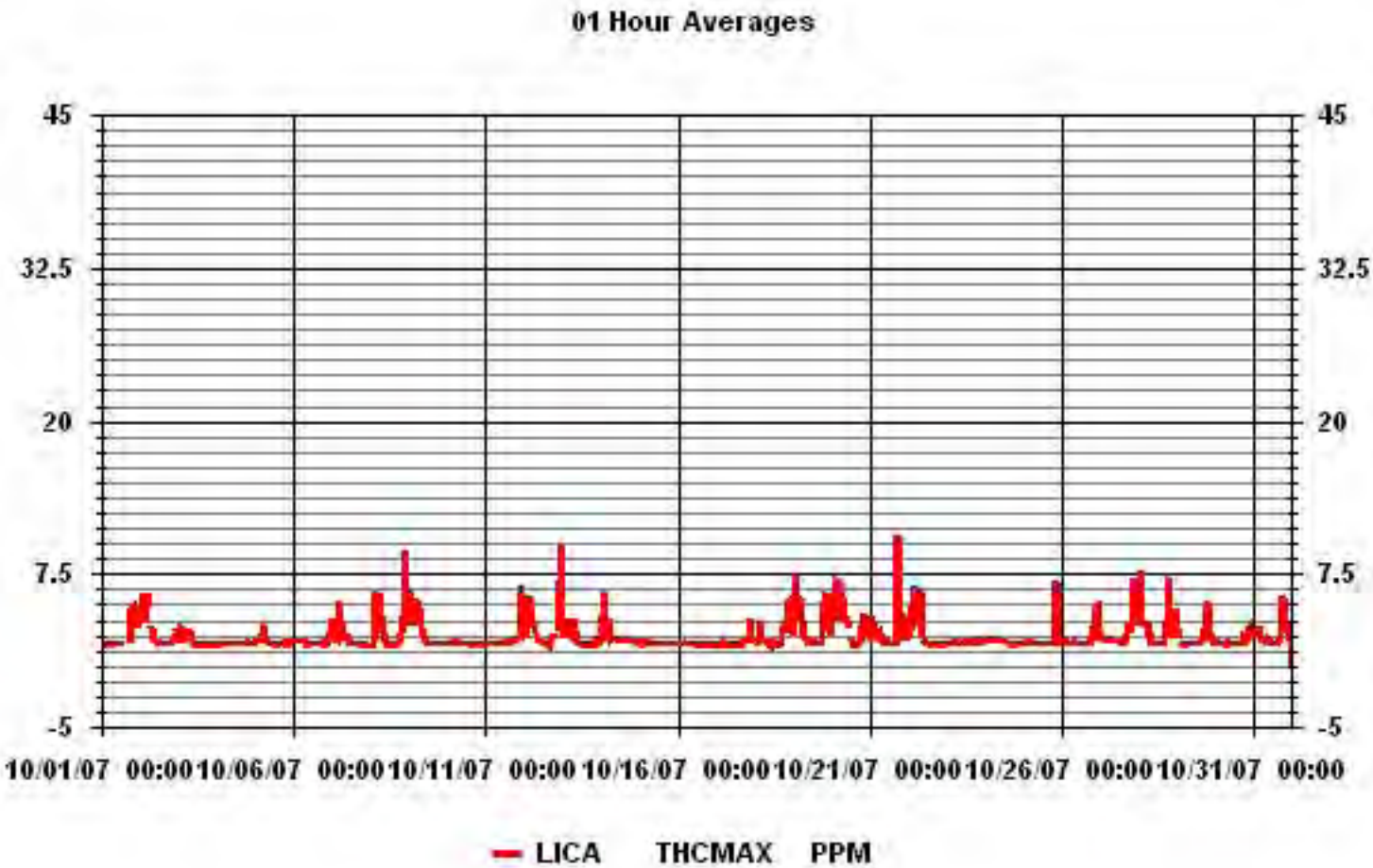
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	706					
MAXIMUM INSTANTANEOUS VALUE:	10.6	PPM	@ HOUR(S)	18	ON DAY(S)	21

IZS CALIBRATION TIME:	34	HRS	OPERATIONAL TIME:	743	HRS
MONTHLY CALIBRATION TIME:	3	HRS			
STANDARD DEVIATION:	1.20				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
45
32.5
20
7.5
-5
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA THCMAX PPM

PARTICULATE MATTER 2.5

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 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	1.4	0.7	0.8	0.5	1.3	1.2	1.5	5.4	1.1	2.4	2.5	2.1	3.2	3.6	3.7	3.3	3.7	3.9	1.4	0.3	0.9	0.2	0.7	0.4	5.4	1.9	24
2	1.3	1.4	2.1	2.6	4.1	3.5	2.3	6.5	2.2	1.5	3.2	0.9	0	0	0	1.4	0	0	1.2	0.8	1	1.5	0.3	0	6.5	1.6	24
3	0.1	0.3	1.2	1.2	1.4	1.6	1.3	4.9	3.6	0.9	0.4	0.4	0.4	2.2	1.4	1.4	1.8	1.1	1.7	0.7	1.8	2.5	2.7	2.1	4.9	1.5	24
4	2.9	1.9	1.4	1.9	1.9	1.5	2.8	3.5	2.6	1.4	1.2	2.7	2.1	2.7	3.3	3.2	4	3.9	3.2	3.6	4.7	2	0.9	0.7	4.7	2.5	24
5	0.7	0.4	0.2	1.8	1.2	0	1.1	6.9	2.3	0.1	1.2	0.4	0	0	0	0	1.2	1.7	4.2	4.8	3.2	2.5	2.9	3.4	6.9	1.7	24
6	2.6	2.1	2.3	2.1	3.3	2.8	3.2	4.6	3	2.2	3.1	2.8	2.3	0.5	1.6	1.5	1.7	1.5	2.7	1.9	2.2	0.7	1.1	1.1	4.6	2.2	24
7	0.8	1.1	1.6	3.1	0	1	3.2	4.5	3	3.7	0	0	0.4	1.6	1.5	2.2	2.5	3.3	2.4	3.2	2.9	0.8	1	0.9	4.5	1.9	24
8	3.1	2.2	2.6	2.4	3.9	3.2	4.1	4.7	5.6	1.9	0.4	1.5	1.4	0	0	0.5	0.5	2.9	2.2	1.3	2.9	5.5	1.6	1.6	5.6	2.3	24
9	1.8	2.6	1.7	1.2	2.8	2.9	3.7	8.5	7.3	7.3	0.5	0	0	0	0	0	0	1.6	2.8	2.3	1.9	2.7	1.9	1.9	8.5	2.3	24
10	2.1	2.4	2.1	2.9	2.5	3.1	4.5	3.6	1.9	0.1	0.2	0.3	1.9	0.3	0.1	0.5	1.2	4.6	4.6	5.7	3.7	2	0.1	0.7	5.7	2.1	24
11	0.6	1.8	1.5	2.5	4.5	4	4.9	4.9	5.4	4.7	5.5	5.7	4.7	3.8	3	3.6	4.3	4.7	2	2.7	2.8	7.4	5.8	4.4	7.4	4.0	24
12	1.8	2.5	2.9	3	2.3	1.2	1.2	8.4	8.9	3.7	3.7	3.1	2.3	2.1	1.3	2	2.9	3.7	4.8	5.2	5.8	5.1	5.6	6.1	8.9	3.7	24
13	5.2	4.2	4.1	2	1.9	2.1	2.9	3.6	6.2	2.2	2	2	0.9	0.8	1.3	2.2	3.3	4	3.1	3.6	3.4	**M**	3	2.4	6.2	2.9	23
14	1.6	2	0	1.2	3.3	1.4	2.2	4.5	6	2.9	1.7	2	3	2.6	3.2	4.7	3.5	3.6	5	4.3	3.4	3.2	3.5	3.4	6.0	3.0	24
15	3.3	3.2	3.6	2.9	3.9	3.1	3.4	3.5	2.6	3.2	3	2.9	1.1	2.9	2.7	2.4	2.5	1.9	3.2	3.2	3	0.8	0.7	1.5	3.9	2.7	24
16	1.8	1.4	2	1.7	1.5	0.9	1.6	2.3	2.5	2.1	2.2	1.9	0.7	1.5	2.2	2.6	4.1	2.5	2.9	3.4	3.9	3.6	3.4	3.6	4.1	2.3	24
17	3.7	4.5	3.1	4.9	4.8	5.2	6	6.7	7.2	7	7.7	7.5	8.3	9.1	**11.1**	10.2	8.8	8.9	8.9	8	8.6	7.6	7.9	8.6	11.1	**7.3**	24
18	6.2	4.2	3.7	2.4	2.2	2.2	2.7	2.9	2.1	1.5	1.1	0.2	0	0	0.8	1.5	2.9	2.9	3.2	1.7	1.9	1.7	2.9	4.3	6.2	2.3	24
19	4	5.2	4.4	3.8	5	3.4	4.2	7.3	6.3	4.1	3.1	2.5	3.1	1.8	3.5	4.4	1.8	3.7	3.8	2.9	6	4.6	4.7	3.9	7.3	4.1	24
20	3.4	2.4	2.5	2.2	3.2	1.9	3.7	6.2	6.6	6.9	6.8	4.7	5.3	4.3	3.9	4.7	3.2	3.5	2.7	2.9	2.9	3.9	4.3	4.6	6.9	4.0	24
21	4.5	3.9	3.9	4.6	4.7	5.1	4.6	4.6	7.6	7.8	6.5	5.6	2.5	2.5	3.4	4.3	2.2	1	1.3	1.7	1.1	1.5	2.7	4	7.8	3.8	24
22	3.8	1.9	1.2	2.4	1	1.9	2.3	4	4.4	1.7	1	1.7	0	0	0.9	0	0.9	2.4	2.2	1.9	1.3	2.8	2.8	2.4	4.4	1.9	24
23	2.7	1.3	1.2	1.6	2	1.3	1.7	2.1	1.6	1.2	0.3	0.6	0	0.8	1	0.3	0	0.7	0.2	0	1.7	0.8	0	0	2.7	1.0	24
24	0	0	0	0	0.1	0	0.6	0	0	1.3	3.3	2.1	4	3.7	5.5	3.3	0	0	1.4	4.3	**D**	0	0	0	5.5	1.3	23
25	0.6	0	1.8	0.4	0	1.6	3	4.6	3.9	3.5	2.8	0.8	0	0.2	0	2.4	2.1	1.7	1.7	1.7	2.4	1	1.3	1	4.6	1.6	24
26	1.7	1.5	0.4	1.5	1.8	5.2	2	2.9	2.2	0	2.2	1.5	1.3	0.9	0	0.1	0.3	0.6	1	0.9	0.3	0.4	0.1	1.3	5.2	1.3	24
27	0.6	0.8	0.5	0.5	0	0.5	0	0	2	0.6	0	0	0.4	0.6	2.2	1.5	1.2	1.7	2.3	2.3	5.2	6.9	7.7	6.7	7.7	1.8	24
28	5.5	3.4	2.4	3.9	5.4	6.6	6	6.9	6.9	4.4	3.2	3.6	3.1	2	2.1	1.9	1.3	1.2	1.5	4.1	8.2	5.7	5.1	3.6	8.2	4.1	24
29	5.2	5.6	3.7	1.6	1	1.2	2.2	2.6	2.2	2.4	1.7	2.1	1.6	1.6	4.7	6.6	4.8	3.5	3	2.2	2.4	3.6	3.5	3.7	6.6	3.0	24
30	4.3	3.8	3.1	1.1	0.9	0.6	0.7	**C**	**C**	**C**	1.1	0.2	0	0	0.1	0	0.1	0.6	1.2	0.7	0.5	0.3	0	0.2	4.3	0.9	24
31	0	0	0	1.2	2.2	2.4	2.2	2.3	2.7	2.7	3.7	2.6	2.1	2.6	2.6	2.6	4	5.1	2.9	4.1	3.3	3.4	4.9	4.9	5.1	2.7	24
HOURLY MAX	6	6	4	5	5	7	6	9	9	8	8	8	8	9	11	10	9	9	9	8	9	8	8	9			
HOURLY AVG	2.5	2.2	2.0	2.1	2.4	2.3	2.8	4.4	4.0	2.8	2.4	2.1	1.8	1.8	2.2	2.4	2.3	2.7	2.7	2.8	3.1	2.8	2.7	2.7			

STATUS FLAG CODES

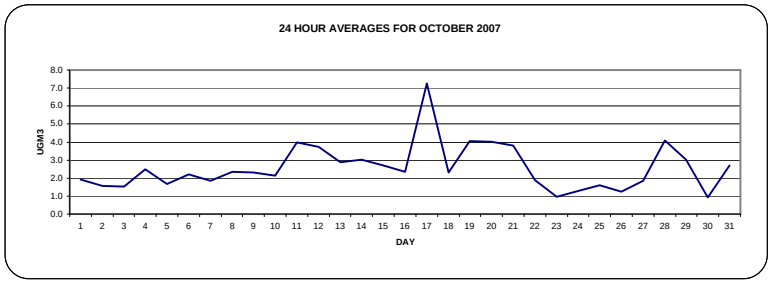
S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MISSING DATA
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

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

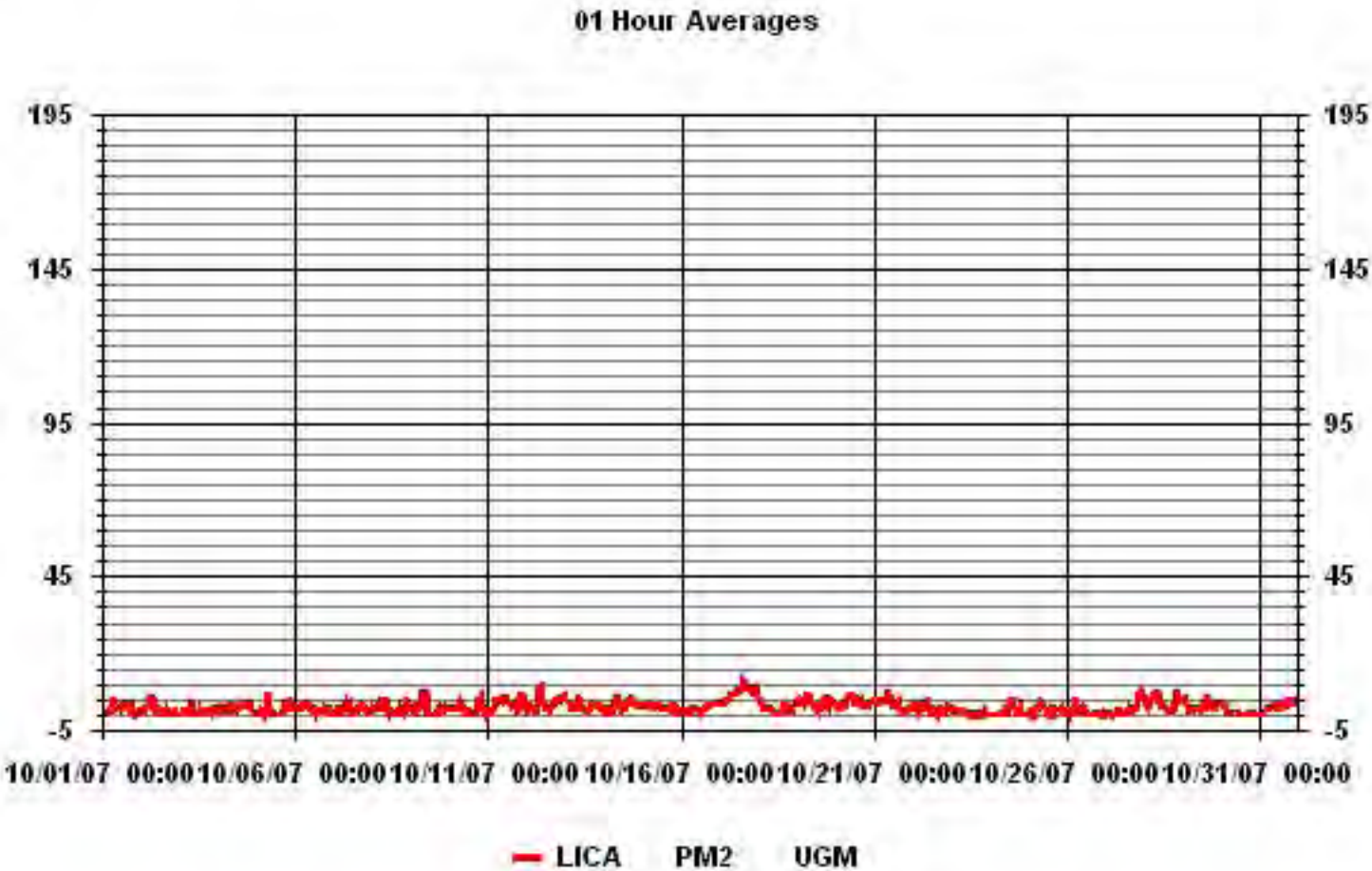
MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	-					
NUMBER OF 24-HR EXCEEDENCES:	0			PROPOSED GUIDELINE		
NUMBER OF NON-ZERO READINGS:	676					
MAXIMUM 1-HR AVERAGE:	11.1	UG/M^3	@ HOUR(S)	15	ON DAY(S)	17
MAXIMUM 24-HR AVERAGE:	7.3	UG/M^3			ON DAY(S)	17

IZS CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	742	HRS
MONTHLY CALIBRATION TIME:	3	HRS	AMD OPERATION UPTIME:	99.7	%
STANDARD DEVIATION:	1.96		MONTHLY AVERAGE:	2.58	UG/M^3



MOUNTAIN STANDARD TIME


01 Hour Averages
195
145
95
45
-5
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA PM2 UGM

LICA
PM2 / WD Joint Frequency Distribution (Percent)

October 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	.81	1.08	.81	3.78	5.95	12.44	21.24	1.89	3.78	3.11	10.14	15.83	10.96	4.73	2.02	1.35	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	.81	1.08	.81	3.78	5.95	12.44	21.24	1.89	3.78	3.11	10.14	15.83	10.96	4.73	2.02	1.35	

Calm : .00 %

Total # Operational Hours : 739

Distribution By Samples

Direction

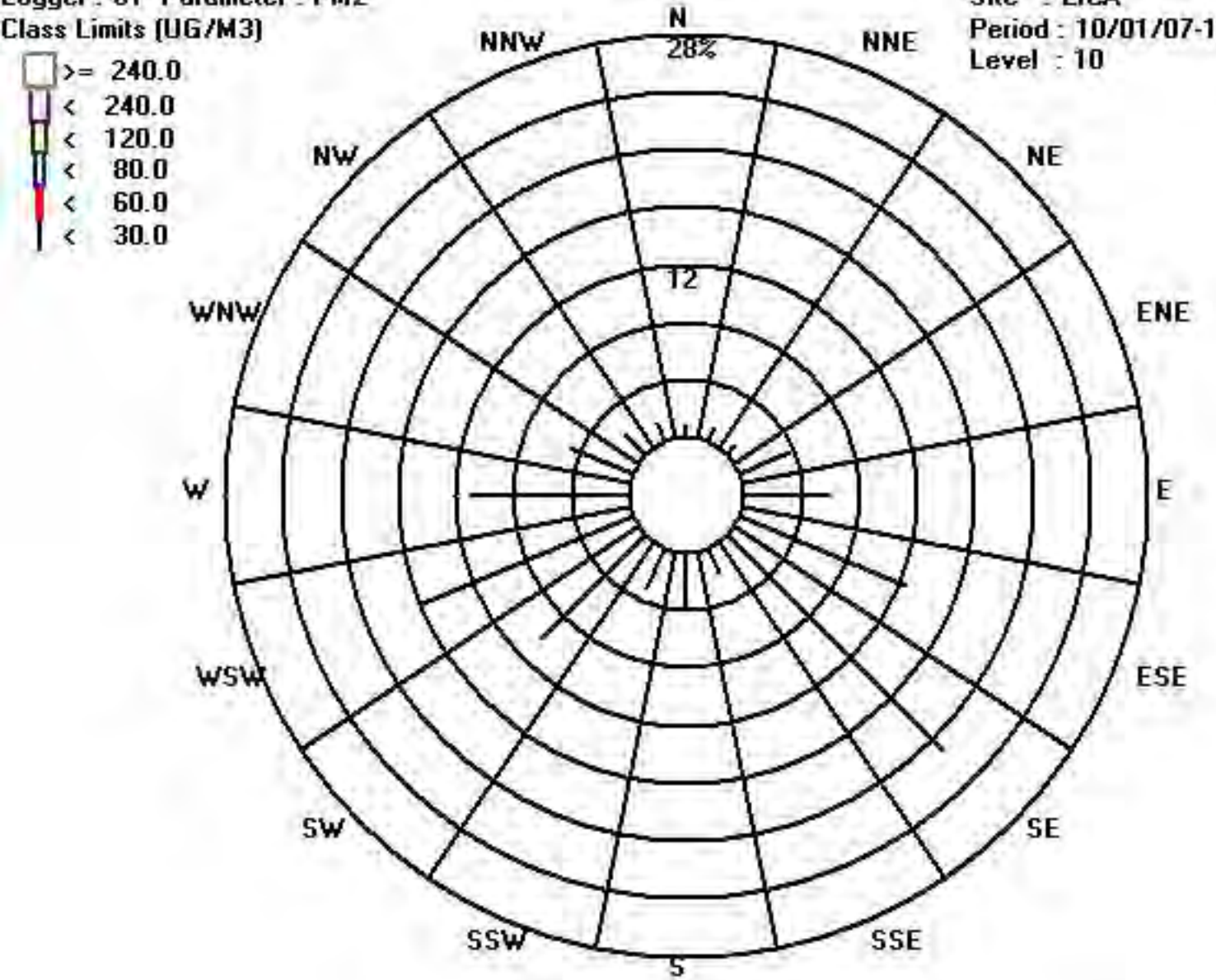
	Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
<	30.0	6	8	6	28	44	92	157	14	28	23	75	117	81	35	15	10	739
<	60.0																	
<	80.0																	
<	120.0																	
<	240.0																	
>=	240.0																	
	Totals	6	8	6	28	44	92	157	14	28	23	75	117	81	35	15	10	

Calm : .00 %

Total # Operational Hours : 739

Logger : 01 Parameter : PM2
Class Limits (UG/M3)

Site : LICA
Period : 10/01/07-10/31/07
Level : 10



LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 2007

PARTICULATE MATTER 2.5 MAX instantaneous maximum in ug/r^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	2.8	2.4	2.3	1.4	3.8	2.6	5.9	11.3	3.1	4.4	3.9	4.3	5.4	5.9	5.4	5.3	5.6	6.1	4	1.6	2.4	1.6	2.1	4.5	11.3	4.1	24
2	4.9	5.4	6.1	6.6	7.7	7.7	8.1	10.4	5.9	3.4	6	4.2	2.8	2.8	2	4.3	2.3	1.1	3.7	2.2	3.3	3.3	2.4	1.4	10.4	4.5	24
3	2.2	2.1	2.7	2.4	2.9	4.5	5	7.2	6.6	2.6	2.7	2.7	2.5	4.9	5.3	3.7	3.7	2.9	3	1.8	3.4	3.7	3.8	3.3	7.2	3.6	24
4	5.9	5.3	5.9	6	5.8	5.6	7.5	8.5	6.6	5.3	5.3	4.9	4.9	6.5	6.6	6.7	7.7	10.5	7.4	7.8	9.5	6.5	5.3	5	10.5	6.5	24
5	5.6	5	3.8	7	7.4	5.4	7	13.3	11.2	3.8	4.1	2.1	1.7	0	2.7	0.9	2.8	4	11.4	9.7	4.8	3.9	4.9	5.8	13.3	5.3	24
6	5.6	7.2	7.5	7.5	7.7	6.2	7	10.5	7.5	5.6	4.5	5.5	5.1	3.3	3.2	3.9	4.1	3.9	6	6.2	9.2	5.1	5.1	5.6	10.5	6.0	24
7	5.1	6.9	5.8	8.6	3.7	4.5	8.7	9.8	7.6	7.5	1.1	1.5	2	2.9	4.9	4.3	4.7	5.4	4	5	4.3	3.2	3.7	2.2	9.8	4.9	24
8	6	3.8	4.3	4.5	8.3	7.3	8.2	10.4	7.2	5.7	3.8	5.2	2.9	1.6	1.4	4.8	2	4.6	4.3	2.6	5.6	7.5	8.3	7.4	10.4	5.3	24
9	7	8.2	5.8	5.5	7.2	7	8	14	12.1	11.1	2.8	0.9	0.4	1.6	1.8	1.1	2.1	4.8	5.1	4.2	4	4.6	4.5	3.7	14	5.3	24
10	3.7	4.2	3.8	4.1	6.4	10	11.1	5.8	3.3	2.1	2	3.1	4.2	2	2.6	2.8	3.6	8.9	8.7	10.2	6.5	5.3	1.5	3.7	11.1	5.0	24
11	2.9	3.2	3.3	5.9	7	5.4	6.5	8.5	6.7	6.5	7.5	7.6	7.5	5.4	5.3	5.4	5.8	6.5	4.8	7.2	6.9	17.2	10.4	9.3	17.2	6.8	24
12	7.2	7	10.5	10.3	8.1	5.9	5.4	17.6	14.5	7.3	6	5.1	4.4	4.2	3.2	3.9	5.1	5.4	8.8	9	7.8	7.5	7.6	7.6	17.6	7.5	24
13	7.8	7.1	7.2	4.2	3.8	4.6	4.5	5.3	8.6	6.9	4.1	4.7	3.1	2.9	5.4	6.5	6.1	5.4	6.5	5.1	5.5	**M**	4.8	3.9	8.6	5.4	23
14	5.6	6.4	3.8	5.7	8.1	5.1	6.1	10.4	10.3	6.4	4.3	3.4	4.8	4	5.3	6.4	5.4	6	6.6	5.9	5.5	5	4.8	4.8	10.4	5.8	24
15	4.8	4.7	5.4	4.1	7.1	4.4	4.8	5.1	3.8	5.4	5.8	4.9	3.1	5.2	5	4.4	6.1	4.5	4.5	4.8	6	3.1	2.8	3.6	7.1	4.7	24
16	3.7	2.7	3.4	2.8	3.2	2.7	3.1	3.9	3.9	4.5	4.4	4.8	3.7	3.1	3.9	5.5	6	4.3	3.9	5.5	5.8	5	4.9	5.3	6	4.2	24
17	5	6	5.5	7.1	6.1	7.3	7.7	8.4	9.2	8.5	8.9	9.4	10.2	10.6	18.1	13.7	10.6	10.3	10.3	10	10.6	9.4	9.5	10	18.1	9.3	24
18	8.9	7.2	7.2	4.7	3.3	3.6	3.9	4.8	4.4	3.4	2.9	3.3	-0.1	2.2	2.9	3.8	4.5	6.4	6.5	2.9	4	3.7	4	5.8	8.9	4.3	24
19	5.5	7.7	5.6	5.9	7.8	5.6	7.1	9.8	9.5	9.4	5.6	5.4	8.6	5.5	5.7	7.8	2.9	5.6	5.1	4.5	9	6.6	8.1	6.8	9.8	6.7	24
20	5.9	5.4	3.9	3.4	4.8	3.6	6	9.4	8.4	11.7	8.8	8.8	8.9	6.8	5.9	7.4	4.7	4.8	4.3	4.8	3.8	5.4	5.7	6	11.7	6.2	24
21	6.2	6	5.7	7.3	6.7	6.9	6.2	6.9	9.7	9.4	8.9	7.6	4.7	4.5	5.3	6.9	5.1	2.9	3.2	4.2	4.2	3.1	5.4	7.4	9.7	6.0	24
22	6.8	4.6	2.8	6.4	3.8	5.8	4.8	6.2	7.1	4.8	2.9	5	2.6	0.6	3.8	2.7	4.3	4.9	4.9	4.4	4.5	5.4	5.7	4.8	7.1	4.6	24
23	4.9	3.2	2.6	4.8	4.7	3.3	5.1	6.2	4.8	4.9	4.4	3.7	3.7	3.3	3.8	3.4	1.9	3.1	2.4	1.4	4.8	4.9	4.8	1.6	6.2	3.8	24
24	2.2	1.7	1.6	2.2	2	0.9	2.4	2.4	2.3	3.6	5.6	4.5	8.5	12	8.2	9.2	5.1	3.4	13.9	9.7	**D**	1.7	0.4	1.6	13.9	4.6	23
25	6.5	1.5	3.4	1.6	1	2.7	5.6	7	6	5.5	5.1	4.3	4.4	2.5	2.1	4.5	5.4	3.2	4	3.8	4.9	3.4	3.4	2.7	7	3.9	24
26	2.8	2.7	4.5	7.1	6.8	16.5	4.9	6.6	7.6	3.9	5.9	5.5	6.7	2.6	2.5	4.5	3.6	5.1	5.3	5.4	4.3	4.2	4.2	6.2	16.5	5.4	24
27	4.9	4.9	3.4	4.5	5.9	4.3	3.4	3.3	6.1	2.8	1.1	1	2	2.7	5.5	4	3.2	3.4	4.3	4.3	13.8	14	10.1	8.8	14	5.1	24
28	8.7	5.8	7.8	13.7	10	10.9	8.5	12.2	8.3	6.6	5.3	5.9	4.5	3.7	4	3.9	3.7	2.2	3.4	6.7	**24.8**	16.9	6.9	5.7	24.8	7.9	24
29	7.2	8	8	3.3	2.4	3.8	4.3	4.5	3.8	4.5	4.4	4	4.6	3.8	8	11.1	6.7	6.5	4.7	6.2	6.4	6.1	5.8	6.1	11.1	5.6	24
30	6.1	6.5	5.1	3.2	2.6	2.1	2.8	**C**	**C**	**C**	3.2	2	1.7	2.4	1.5	4.2	3.2	5.5	4.8	4.1	3.6	3.3	3.2	3.4	6.5	3.5	24
31	3.1	2.8	2.7	4.6	5.4	6	5.5	5.5	6	6.4	5.1	4.4	3.4	5.4	4.5	4.8	5.5	8.1	6.6	7.5	7.2	6.9	9.5	8	9.5	5.6	24
HOURLY MAX	9	8	11	14	10	17	11	18	15	12	9	9	10	12	18	14	11	11	14	10	25	17	10	10			
HOURLY AVG	5.3	5.0	4.9	5.4	5.5	5.6	6.0	8.2	7.1	5.8	4.7	4.5	4.3	4.0	4.7	5.2	4.6	5.2	5.7	5.4	6.5	5.9	5.3	5.2			

STATUS FLAG CODES

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

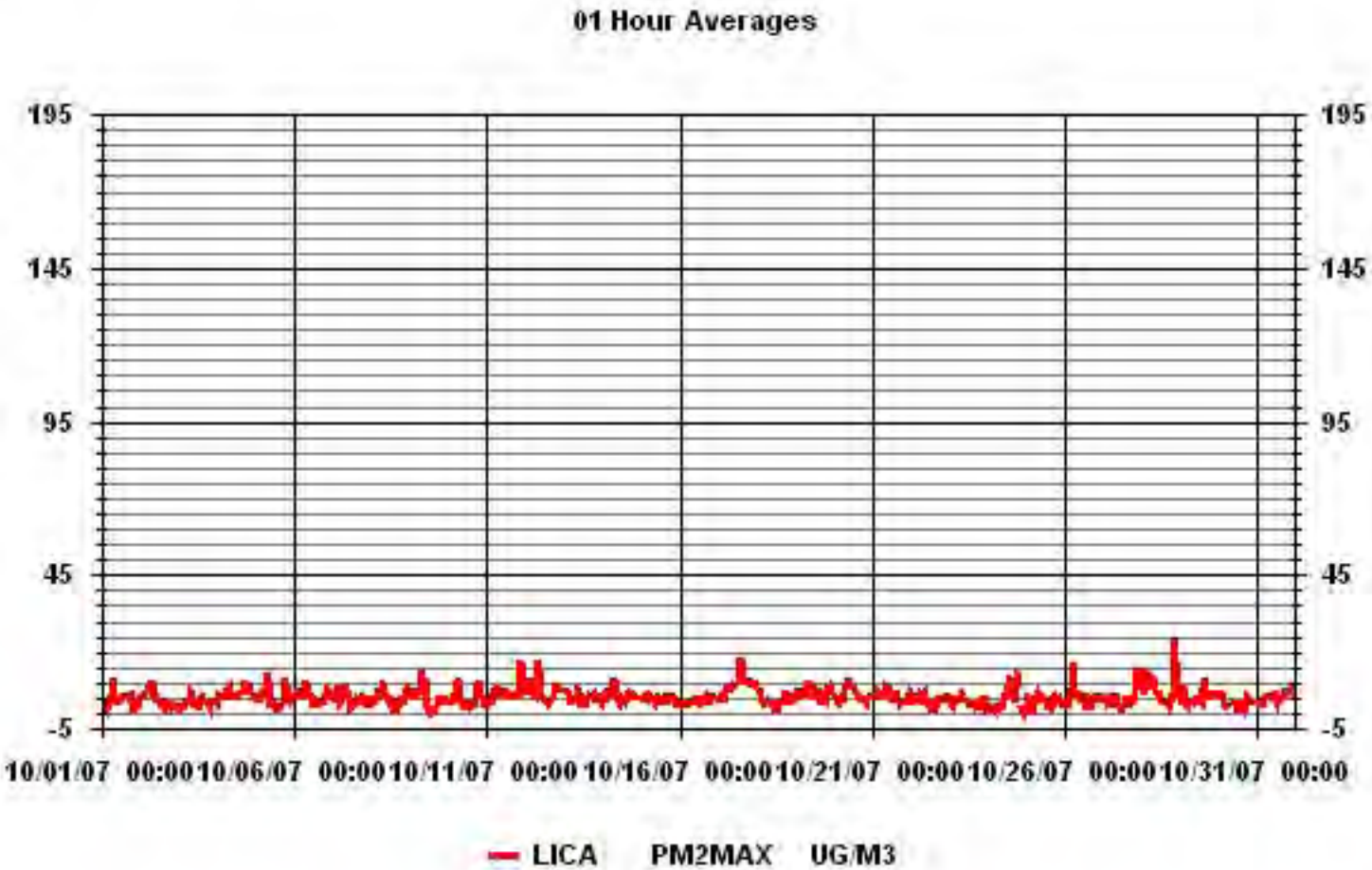
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	737					
MAXIMUM INSTANTANEOUS VALUE:	24.8	UG/M^3	@ HOUR(S)	21	ON DAY(S)	28

IZS CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	742	HRS
MONTHLY CALIBRATION TIME:	3	HRS			
STANDARD DEVIATION:	2.71				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
195
145
95
45
-5
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA PM2MAX UG/M3

NO_2

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 2007

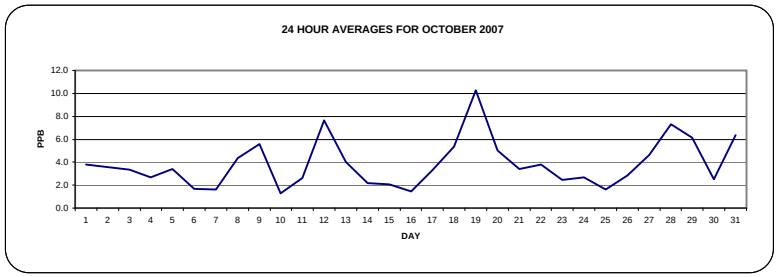
NITROGEN DIOXIDE hourly averages in ppb

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	2	2	2	3	3	6	11	**IZS**	4	2	3	2	4	4	4	3	2	5	6	7	5	3	2	2	11	3.8	24
2	2	1	3	4	4	4	**IZS**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	3	2	4	5	4	2	3	3	4	9	9	3.6	24
3	3	6	9	9	8	**IZS**	13	13	5	2	1	0	1	0	0	0	0	1	1	1	1	1	1	1	13	3.3	24
4	2	2	1	1	**IZS**	1	1	3	2	1	1	1	1	1	1	2	2	2	6	9	10	4	3	5	10	2.7	24
5	7	6	6	**IZS**	3	5	13	15	3	1	0	0	0	1	0	1	1	3	5	3	2	1	1	1	15	3.4	24
6	1	1	**IZS**	2	2	2	2	3	2	1	1	1	1	1	1	1	1	1	2	4	2	2	2	2	4	1.7	24
7	2	**IZS**	5	2	2	3	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	1.6	24
8	**IZS**	1	1	1	4	10	11	10	8	5	1	1	0	0	0	0	1	2	3	6	8	13	10	**IZS**	13	4.4	24
9	6	9	9	8	9	14	13	13	14	15	3	1	1	1	1	1	2	2	2	1	1	1	**IZS**	1	15	5.6	24
10	1	1	1	1	2	8	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	**IZS**	1	1	8	1.3	24
11	1	1	1	1	1	1	2	2	2	3	2	2	2	2	3	3	3	3	5	6	**IZS**	6	4	4	6	2.6	24
12	5	5	7	6	7	6	9	17	**24**	6	9	12	8	1	1	1	3	4	7	**IZS**	10	11	7	10	24	7.7	24
13	5	5	5	2	2	5	3	13	16	7	1	7	1	1	1	1	2	3	**IZS**	2	3	**M**	2	2	16	4.0	23
14	2	1	2	2	2	2	3	2	2	2	2	3	3	2	2	2	3	**IZS**	3	2	2	2	2	2	3	2.2	24
15	1	1	1	1	2	3	3	3	2	1	2	2	1	1	2	1	**IZS**	2	5	4	5	2	1	1	5	2.0	24
16	1	1	2	1	2	3	4	2	1	1	1	1	1	1	1	**IZS**	1	1	1	1	1	1	2	2	4	1.4	24
17	2	2	1	2	3	5	6	6	3	2	1	1	2	1	**IZS**	3	2	3	4	5	7	7	4	4	7	3.3	24
18	5	4	3	4	4	5	6	5	4	3	2	1	1	**IZS**	1	1	2	12	15	11	6	8	9	11	15	5.3	24
19	10	9	9	9	9	12	13	17	18	8	9	6	**IZS**	7	7	6	6	10	13	15	14	10	9	10	18	**10.3**	24
20	9	5	5	5	4	4	5	7	9	8	8	**IZS**	6	3	1	1	1	3	2	4	8	7	7	3	9	5.0	24
21	4	5	4	5	3	4	3	4	3	2	**IZS**	2	1	1	1	1	1	2	4	3	5	5	7	8	8	3.4	24
22	7	4	3	3	4	7	11	11	8	**IZS**	5	5	3	1	1	3	2	3	1	1	1	1	1	1	11	3.8	24
23	1	1	1	2	2	2	3	3	**IZS**	2	2	2	1	2	2	3	3	8	5	2	2	3	2	2	8	2.4	24
24	2	2	2	4	3	3	5	**IZS**	6	4	3	3	3	5	5	3	1	1	1	0	1	2	2	1	6	2.7	24
25	1	2	2	2	3	2	**IZS**	3	2	1	1	1	1	0	1	0	0	1	1	2	6	2	2	1	6	1.6	24
26	2	2	2	3	4	**IZS**	2	5	4	2	2	1	2	1	0	0	1	3	2	5	6	6	7	4	7	2.9	24
27	3	3	3	3	**IZS**	3	2	3	3	2	3	2	2	2	2	2	3	11	5	5	11	12	10	11	12	4.6	24
28	9	5	4	**IZS**	8	10	8	6	4	2	2	1	1	1	1	1	2	3	12	20	20	16	17	15	20	7.3	24
29	15	13	**IZS**	4	3	3	5	7	5	3	2	2	3	3	3	11	7	7	9	13	6	7	6	4	15	6.1	24
30	4	**IZS**	2	2	2	2	4	4	3	1	1	1	0	0	1	1	1	3	4	5	5	5	4	3	5	2.5	24
31	**IZS**	3	2	4	6	7	8	8	8	6	5	4	3	4	4	5	8	18	12	7	8	4	6	**IZS**	18	6.4	24
HOURLY MAX	15	13	9	9	9	14	13	17	24	15	9	12	8	7	7	11	8	18	15	20	20	16	17	15			
HOURLY AVG	4.0	3.6	3.4	3.3	3.8	4.9	6.0	6.7	5.8	3.3	2.6	2.3	1.9	1.7	1.7	2.0	2.2	4.1	4.7	4.9	5.4	5.0	4.5	4.2			

STATUS FLAG CODES

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

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



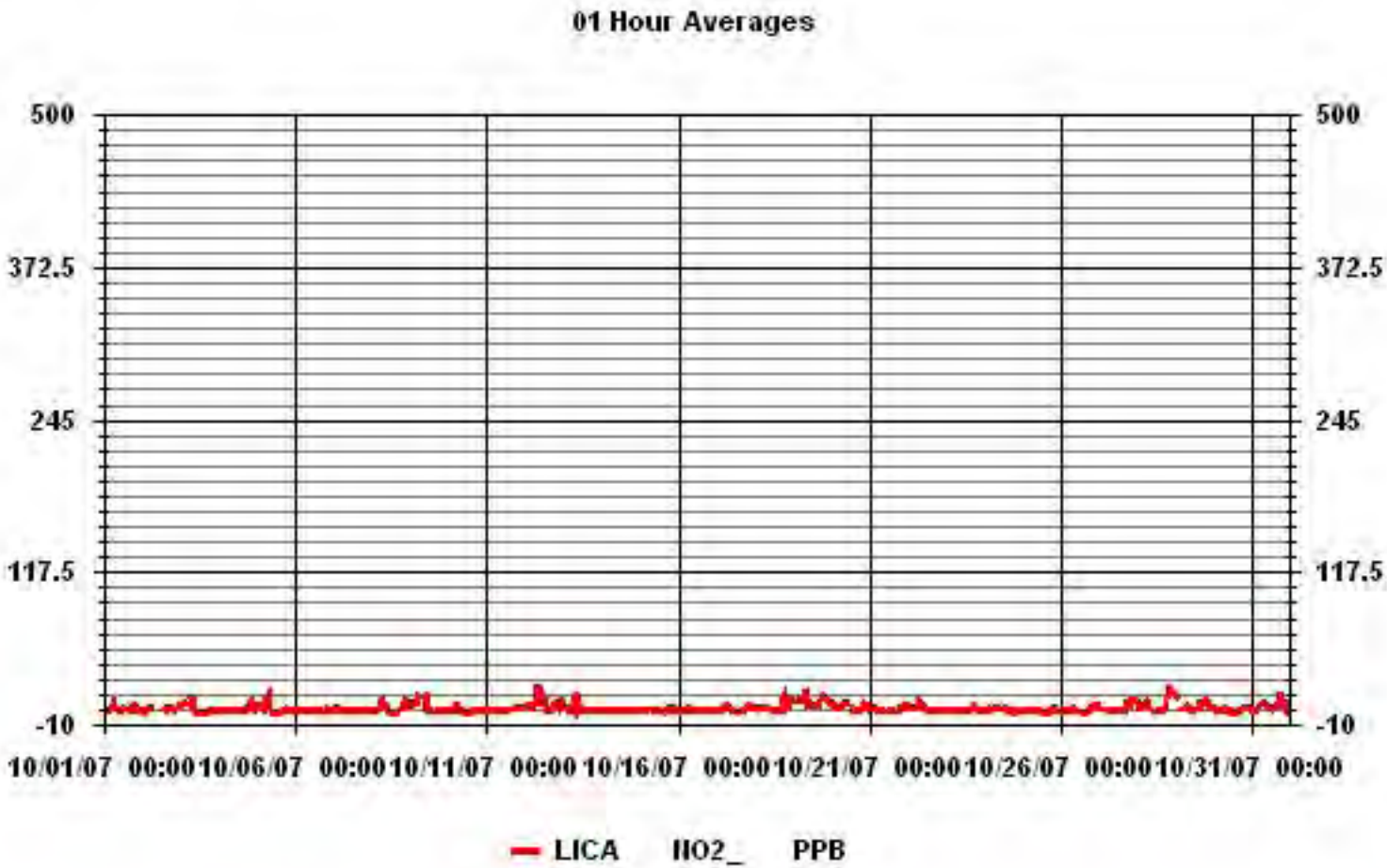
MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0					
NUMBER OF 24-HR EXCEEDENCES:	0					
NUMBER OF NON-ZERO READINGS:	680					
MAXIMUM 1-HR AVERAGE:	24	PPB	@ HOUR(S)	9	ON DAY(S)	12
MAXIMUM 24-HR AVERAGE:	10.3	PPB			ON DAY(S)	19

IZS CALIBRATION TIME:	34	HRS	OPERATIONAL TIME:	743	HRS
MONTHLY CALIBRATION TIME:	6	HRS	AMD OPERATION UPTIME:	99.9	%
STANDARD DEVIATION:	3.63		MONTHLY AVERAGE:	3.83	PPB

Maxxam Analytics Inc

MOUNTAIN STANDARD TIME


01 Hour Averages
500
372.5
245
117.5
-10
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA NO2_ PPB

LICA
NO2_ / WD Joint Frequency Distribution (Percent)

October 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	.85	1.13	.85	3.69	6.11	12.23	20.91	1.84	3.98	3.12	9.67	15.64	11.52	4.97	1.99	1.42	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	.85	1.13	.85	3.69	6.11	12.23	20.91	1.84	3.98	3.12	9.67	15.64	11.52	4.97	1.99	1.42	

Calm : .00 %

Total # Operational Hours : 703

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	6	8	6	26	43	86	147	13	28	22	68	110	81	35	14	10	703
< 110																	
< 210																	
>= 210																	
Totals	6	8	6	26	43	86	147	13	28	22	68	110	81	35	14	10	

Calm : .00 %

Total # Operational Hours : 703

Logger : 01 Parameter : NO2_

Class Limits (PPB)

>= 210

< 210

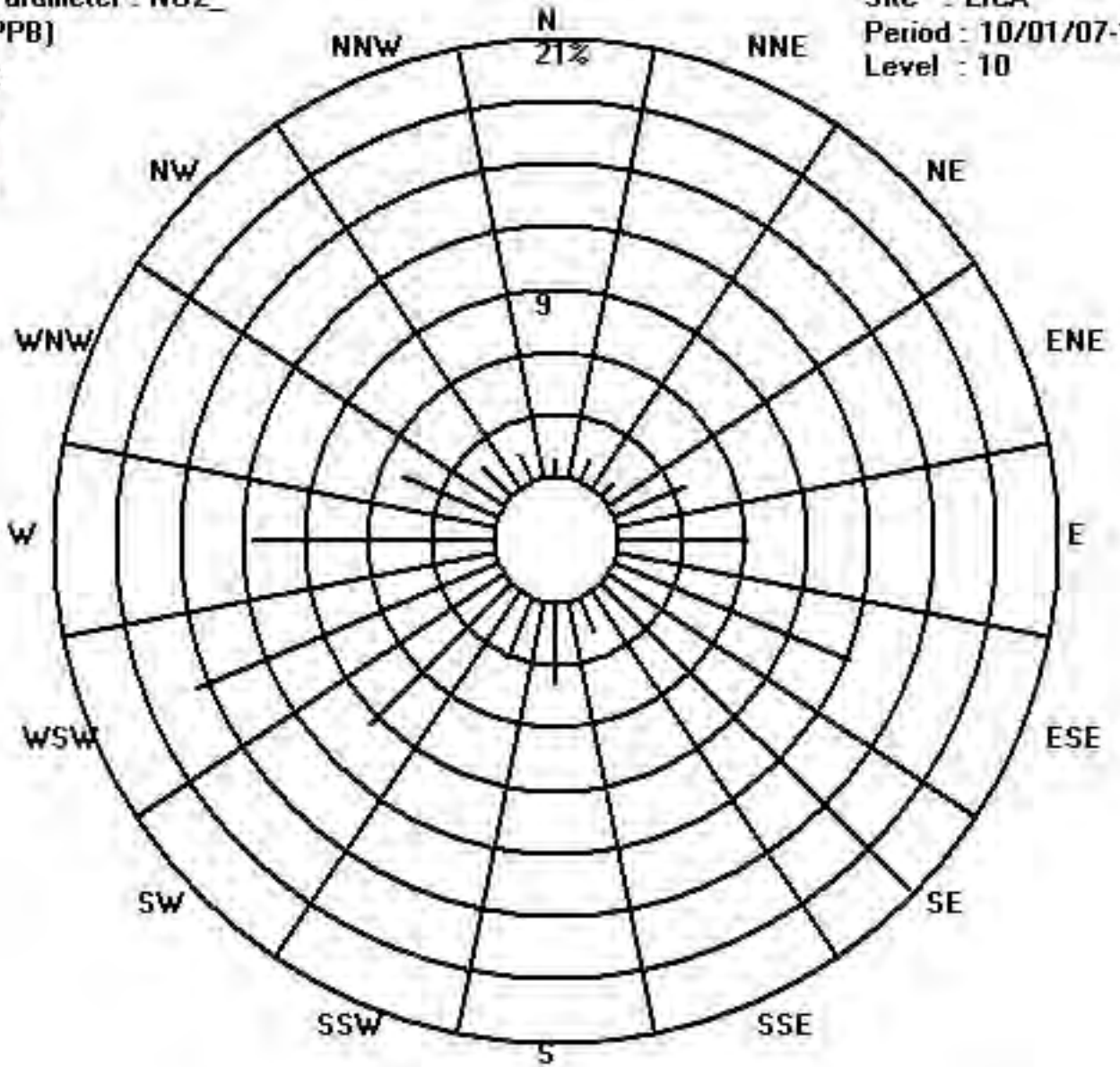
< 110

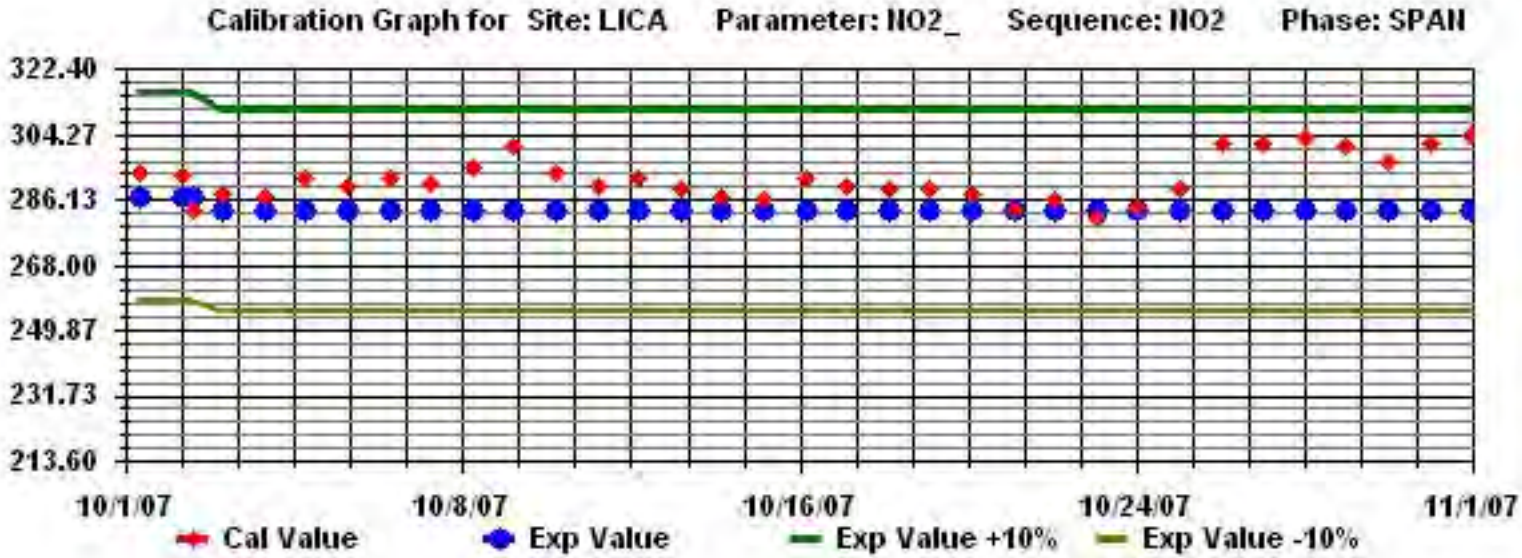
< 50

Site : LICA

Period : 10/01/07-10/31/07

Level : 10




Calibration Graph for Site: LICA Parameter: NO2_ Sequence: NO2 Phase: SPAN
322.40
304.27
286.13
268.00
249.87
231.73
213.60
10/1/07
10/8/07
10/16/07
10/24/07
11/1/07
Cal Value
Exp Value
Exp Value +10%
Exp Value -10%

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 2007

NITROGEN DIOXIDE MAX instantaneous maximum in pp

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	3	4	5	4	12	8	39	**IZS**	9	3	5	4	6	7	6	6	4	8	9	14	7	4	4	4	39	7.6	24
2	5	2	5	5	8	7	**IZS**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	4	3	6	9	6	3	5	7	8	15	15	6.1	24
3	5	10	11	15	11	**IZS**	16	16	10	4	4	3	5	1	0	1	1	2	2	1	2	2	1	3	16	5.5	24
4	2	2	2	1	**IZS**	1	1	30	2	6	2	2	1	4	2	4	5	4	12	13	15	7	4	12	30	5.8	24
5	13	11	8	**IZS**	9	15	21	20	12	2	2	8	3	5	4	13	3	6	9	9	5	2	2	2	21	8.0	24
6	2	2	**IZS**	2	3	2	7	9	7	2	1	6	4	2	2	5	2	2	10	6	4	3	2	3	10	3.8	24
7	4	**IZS**	12	3	4	7	5	5	14	6	4	2	2	2	1	3	1	1	1	1	1	1	1	2	14	3.6	24
8	**IZS**	3	2	2	11	15	15	11	10	8	3	2	1	1	1	1	1	3	5	10	15	18	15	**IZS**	18	7.0	24
9	9	13	13	10	11	26	26	22	19	20	7	2	13	5	7	3	12	4	3	4	4	3	**IZS**	1	26	10.3	24
10	1	1	1	3	5	26	3	2	2	2	1	1	4	2	12	7	6	4	2	2	2	**IZS**	1	1	26	4.0	24
11	1	1	1	3	10	4	5	11	35	34	8	5	8	4	5	4	4	4	12	8	**IZS**	10	6	6	35	8.2	24
12	6	7	8	8	7	11	12	113	**140**	8	63	62	88	3	3	3	6	8	14	**IZS**	16	18	11	13	140	27.3	24
13	7	12	8	4	3	11	12	43	52	59	6	71	28	1	3	16	16	15	**IZS**	4	8	**M**	5	4	71	17.6	23
14	2	2	5	4	3	3	4	4	5	2	4	4	12	3	3	4	7	**IZS**	7	3	3	4	2	2	12	4.0	24
15	2	2	2	2	7	20	5	15	4	3	3	3	4	2	15	2	**IZS**	4	8	8	10	6	3	1	20	5.7	24
16	1	2	2	2	4	22	5	4	2	2	1	2	3	2	3	**IZS**	5	2	5	2	2	2	2	2	22	3.4	24
17	4	2	3	4	9	10	9	10	5	4	8	3	14	4	**IZS**	7	3	5	5	6	9	9	5	5	14	6.2	24
18	5	6	5	9	7	6	7	7	5	4	3	2	2	**IZS**	2	2	5	26	30	16	9	17	15	19	30	9.1	24
19	17	14	13	12	12	31	19	26	32	11	14	11	**IZS**	13	16	16	10	19	19	22	19	13	13	12	32	16.7	24
20	11	8	6	7	6	5	10	14	11	9	9	**IZS**	10	6	1	1	3	4	3	7	13	9	12	4	14	7.3	24
21	5	9	6	8	4	5	5	12	7	3	**IZS**	2	5	1	1	1	2	6	7	5	15	8	11	12	15	6.1	24
22	13	6	5	6	6	10	21	15	10	**IZS**	6	10	7	2	1	7	4	5	1	2	1	2	2	3	21	6.3	24
23	1	1	1	3	3	3	4	6	**IZS**	3	3	6	2	2	3	9	8	12	9	7	7	5	2	2	12	4.4	24
24	3	3	3	8	8	6	8	**IZS**	17	17	7	23	7	10	6	5	3	1	1	1	1	3	4	1	23	6.3	24
25	3	3	3	3	24	2	**IZS**	12	5	4	3	3	2	1	1	1	1	1	2	5	14	5	4	3	24	4.6	24
26	5	4	3	5	5	**IZS**	4	9	8	10	5	5	11	10	1	1	2	6	3	6	9	10	13	6	13	6.1	24
27	4	3	5	4	**IZS**	6	3	13	6	4	4	3	3	4	5	3	8	30	9	13	20	19	13	14	30	8.5	24
28	16	7	5	**IZS**	9	15	10	7	6	3	2	2	2	1	3	2	9	6	19	27	24	21	20	18	27	10.2	24
29	18	17	**IZS**	7	13	6	11	10	8	6	6	5	13	29	7	16	14	11	15	17	11	11	8	5	29	11.5	24
30	5	**IZS**	3	3	2	3	5	5	4	3	1	1	1	1	3	1	2	7	8	8	6	6	7	4	8	3.9	24
31	**IZS**	3	3	6	7	8	9	18	11	7	6	5	5	6	5	6	21	26	19	16	14	6	8	**IZS**	26	9.8	24
HOURLY MAX	18	17	13	15	24	31	39	113	140	59	63	71	88	29	16	16	21	30	30	27	24	21	20	19			
HOURLY AVG	6.0	5.5	5.1	5.3	7.7	10.1	10.4	16.8	15.8	8.6	6.6	8.9	9.2	4.6	4.2	5.1	5.8	8.0	8.5	8.2	9.0	8.0	6.8	6.2			

STATUS FLAG CODES

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

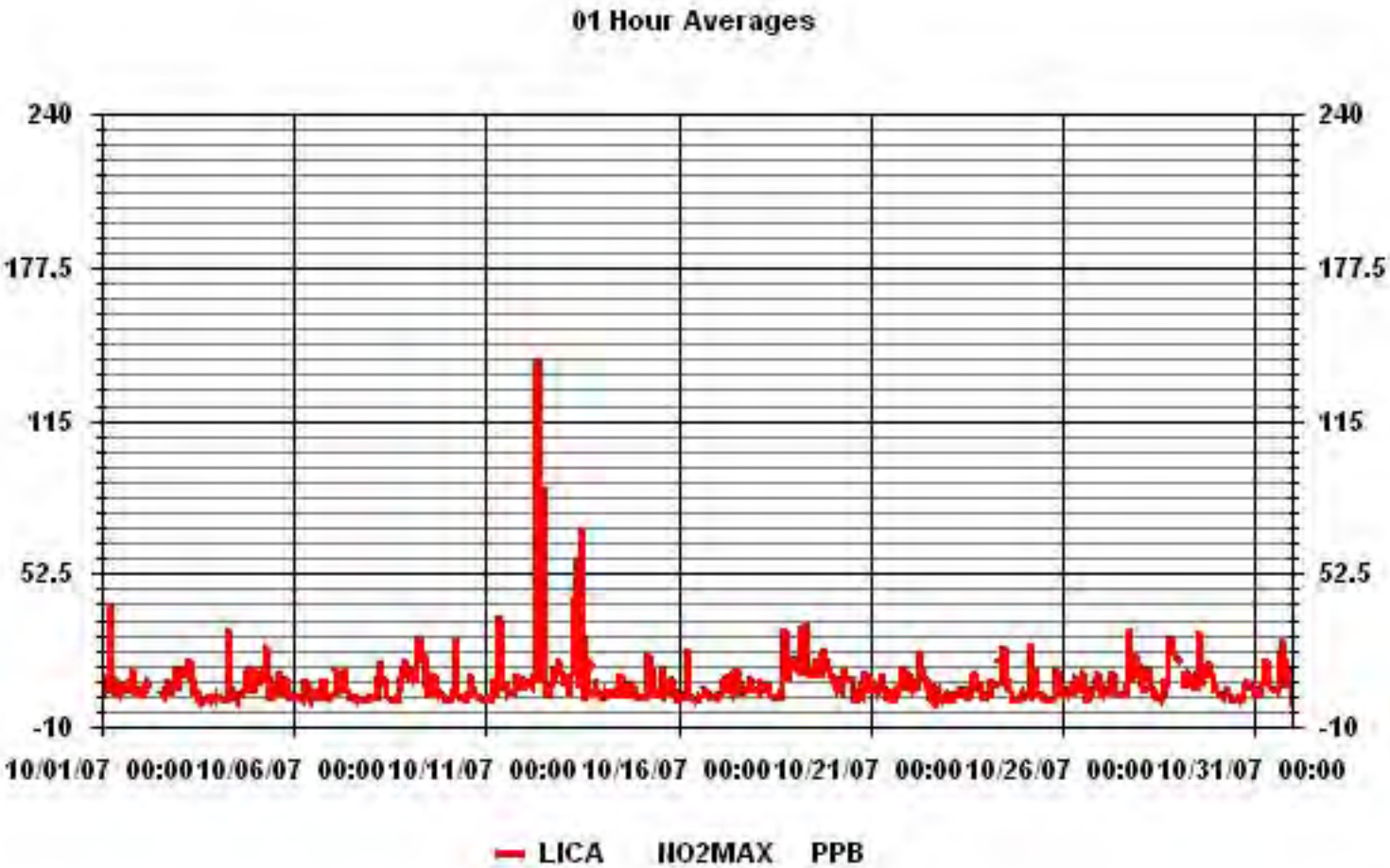
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	702					
MAXIMUM INSTANTANEOUS VALUE:	140	PPB	@ HOUR(S)	9	ON DAY(S)	12

IZS CALIBRATION TIME:	34	HRS	OPERATIONAL TIME:	743	HRS
MONTHLY CALIBRATION TIME:	6	HRS			
STANDARD DEVIATION:	10.46				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
240
177.5
115
52.5
-10
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA NO2MAX PPB

NO

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

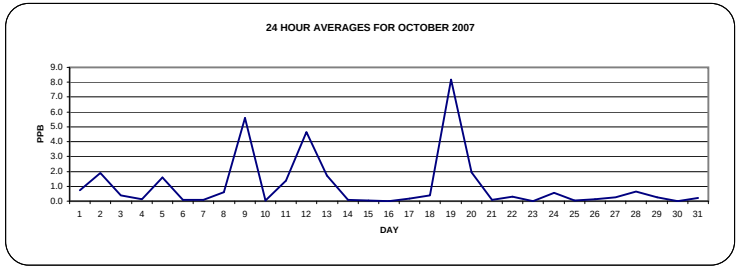
OCTOBER 2007

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	4	**IZS**	3	1	1	0	1	1	0	0	0	0	0	0	0	0	1	5	5	0.7	24
2	1	0	3	6	12	8	**IZS**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	0	0	0	0	0	0	0	0	0	0	12	1.9	24
3	0	0	0	0	0	**IZS**	1	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.4	24
4	0	0	0	0	**IZS**	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.1	24
5	0	0	0	**IZS**	0	1	10	22	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	22	1.6	24
6	0	0	**IZS**	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0.1	24
7	0	**IZS**	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24
8	**IZS**	0	0	0	0	5	2	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	5	0.6	24
9	0	1	2	0	3	14	31	35	26	16	1	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	35	5.6	24
10	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	1	0.0	24
11	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	5	**IZS**	15	8	2	15	1.4	24
12	0	1	0	0	0	0	0	31	40	3	8	17	6	0	0	0	0	0	0	**IZS**	0	1	0	0	40	4.7	24
13	0	0	0	0	0	0	0	9	16	3	0	9	1	0	0	0	0	0	**IZS**	0	0	**M**	0	0	16	1.7	23
14	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	**IZS**	0	0	0	0	0	0	1	0.1	24
15	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	1	0.0	24
16	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
17	0	0	0	0	0	1	0	1	1	0	1	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	1	0.2	24
18	0	0	0	0	1	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	5	0	0	0	1	2	5	0.4	24
19	6	10	10	10	8	16	26	**43**	20	2	2	1	**IZS**	1	2	1	0	0	1	6	10	3	5	5	43	**8.2**	24
20	4	1	1	1	2	2	3	8	6	10	5	**IZS**	2	0	0	0	0	0	0	0	0	0	0	0	10	2.0	24
21	0	0	0	0	0	0	0	0	1	1	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24
22	1	0	0	0	0	0	2	3	0	**IZS**	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0.3	24
23	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
24	0	0	0	0	0	0	0	**IZS**	1	2	2	2	2	3	1	0	0	0	0	0	0	0	0	0	3	0.6	24
25	0	0	0	0	1	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
26	0	0	0	0	0	**IZS**	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24
27	0	0	0	0	**IZS**	0	0	0	0	0	1	1	0	0	0	0	0	3	0	0	0	1	0	0	3	0.3	24
28	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	1	1	3	5	0.7	24
29	2	2	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	2	0.3	24
30	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
31	**IZS**	0	0	0	0	0	0	0	0	1	2	1	1	0	0	0	0	0	0	0	0	0	0	**IZS**	2	0.2	24
HOURLY MAX	6	10	10	10	12	16	31	43	40	16	8	17	6	3	2	1	0	3	5	6	10	15	8	5			
HOURLY AVG	0.5	0.5	0.6	0.6	0.9	1.7	2.7	5.9	4.2	1.6	0.8	1.1	0.5	0.2	0.1	0.1	0.0	0.1	0.3	0.6	0.5	0.7	0.5	0.6			

STATUS FLAG CODES

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



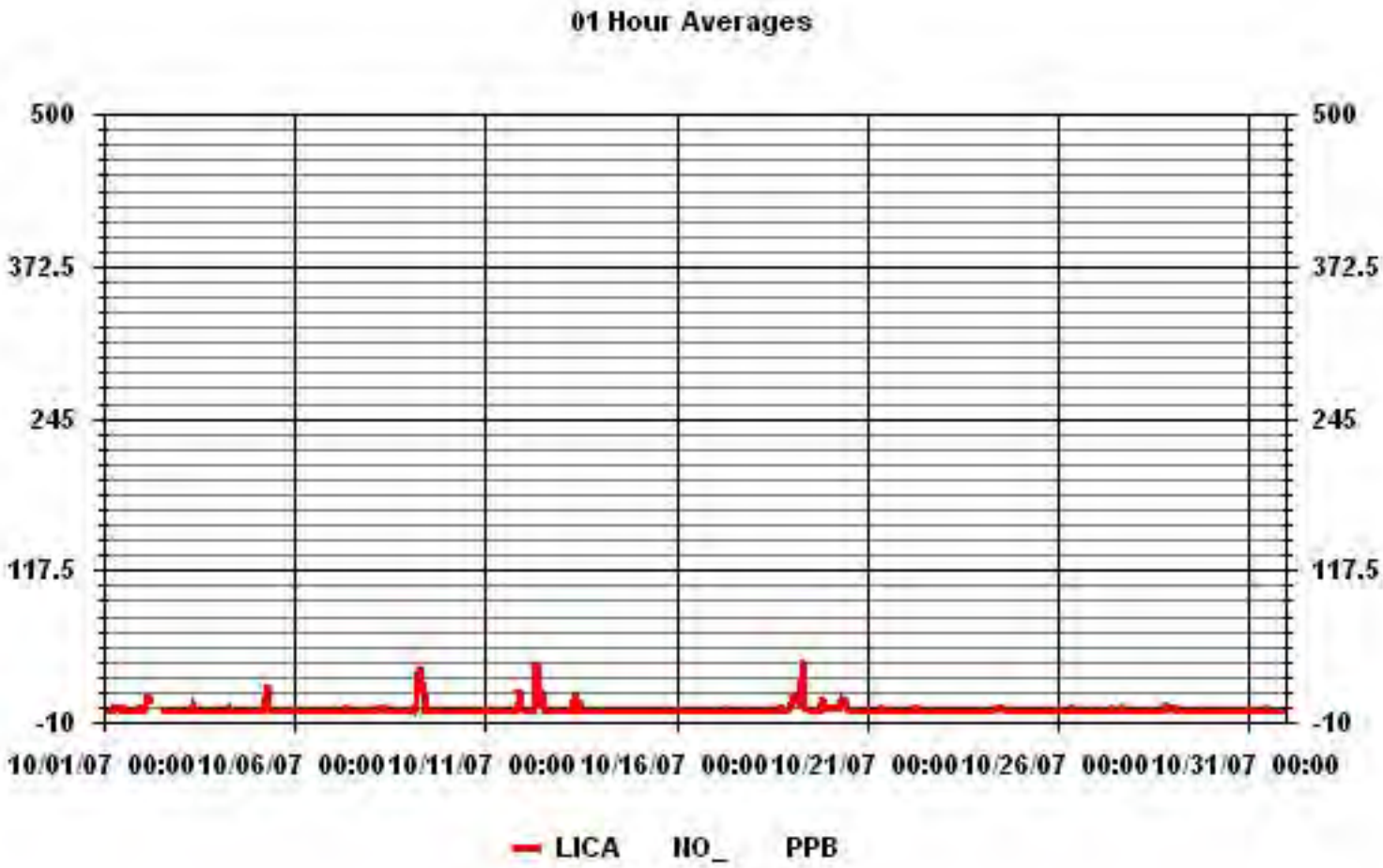
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	140					
MAXIMUM 1-HR AVERAGE:	43	PPB	@ HOUR(S)	8	ON DAY(S)	19
MAXIMUM 24-HR AVERAGE:	8.2	PPB			ON DAY(S)	19

IZS CALIBRATION TIME:	34	HRS	OPERATIONAL TIME:	743	HRS
MONTHLY CALIBRATION TIME:	6	HRS	AMD OPERATION UPTIME:	99.9	%
STANDARD DEVIATION:	4.05		MONTHLY AVERAGE:	1.03	PPB

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
500
372.5
245
117.5
-10
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA NO_ PPB

LICA
NO_ / WD Joint Frequency Distribution (Percent)

October 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	.85	1.13	.85	3.69	6.11	12.23	20.91	1.84	3.98	3.12	9.67	15.64	11.52	4.97	1.99	1.42	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	.85	1.13	.85	3.69	6.11	12.23	20.91	1.84	3.98	3.12	9.67	15.64	11.52	4.97	1.99	1.42	

Calm : .00 %

Total # Operational Hours : 703

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	6	8	6	26	43	86	147	13	28	22	68	110	81	35	14	10	703
< 110																	
< 210																	
>= 210																	
Totals	6	8	6	26	43	86	147	13	28	22	68	110	81	35	14	10	

Calm : .00 %

Total # Operational Hours : 703

Logger : 01 Parameter : NO_

Class Limits (PPB)

>= 210

< 210

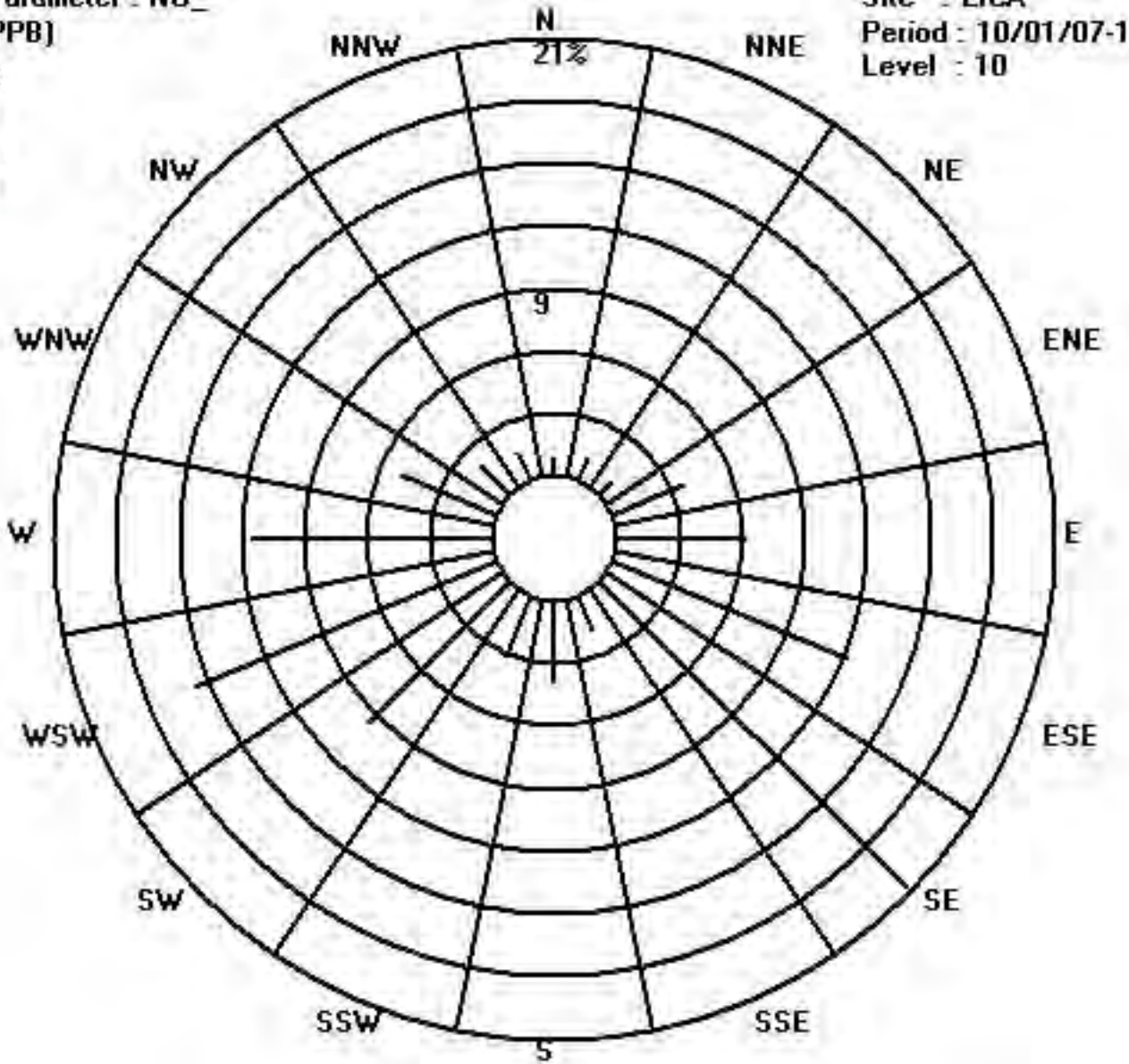
< 110

< 50

Site : LICA

Period : 10/01/07-10/31/07

Level : 10



LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 2007

NITRIC OXIDE MAX instantaneous maximum in pp

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	1	0	10	1	36	**IZS**	19	3	2	1	3	2	2	1	1	0	0	5	8	2	2	32	36	5.8	24
2	3	0	10	8	26	14	**IZS**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	1	1	4	0	0	0	0	0	0	0	26	4.2	24
3	0	0	0	0	0	**IZS**	5	7	5	1	2	3	2	0	0	0	0	0	0	0	0	0	0	0	7	1.1	24
4	0	0	0	0	**IZS**	0	0	81	0	4	0	1	0	3	1	1	3	2	10	2	1	2	1	6	81	5.1	24
5	5	1	0	**IZS**	5	11	25	32	9	9	3	2	4	2	2	15	3	5	10	7	3	0	0	0	32	6.7	24
6	0	0	**IZS**	0	2	0	15	12	4	2	0	1	3	3	1	3	0	0	33	1	2	0	0	0	33	3.6	24
7	1	**IZS**	4	1	0	2	0	5	2	4	3	0	1	4	1	3	0	0	0	0	0	0	0	0	5	1.3	24
8	**IZS**	0	0	0	4	10	6	5	4	1	0	0	0	0	0	0	0	0	0	0	0	1	7	**IZS**	10	1.7	24
9	1	3	6	1	14	25	118	63	50	24	4	1	2	1	4	2	10	2	2	1	0	0	**IZS**	0	118	14.5	24
10	0	0	0	1	1	25	2	0	0	2	0	2	1	10	1	9	1	1	0	0	0	**IZS**	0	0	25	2.4	24
11	0	0	0	0	18	1	2	25	18	30	4	4	3	1	1	0	1	0	3	12	**IZS**	26	18	10	30	7.7	24
12	3	1	1	1	0	1	3	**500**	129	5	64	65	34	0	0	0	0	0	0	**IZS**	1	21	0	1	500	36.1	24
13	0	12	0	0	0	5	7	47	46	48	8	110	32	0	3	8	10	12	**IZS**	0	3	**M**	4	1	110	16.2	23
14	0	0	0	3	4	0	2	5	6	0	2	6	1	0	1	1	2	**IZS**	6	0	0	16	0	0	16	2.4	24
15	0	0	0	0	6	14	1	3	4	12	1	1	12	5	3	1	**IZS**	1	5	4	3	0	0	0	14	3.3	24
16	0	0	0	0	7	9	2	5	0	1	1	6	0	1	2	**IZS**	2	3	1	0	0	0	0	0	9	1.7	24
17	0	0	0	0	5	16	5	19	11	4	18	2	9	2	**IZS**	10	0	0	0	0	1	0	0	0	19	4.4	24
18	0	0	0	0	68	0	0	0	1	1	0	0	0	**IZS**	0	0	0	2	53	11	0	2	3	6	68	6.4	24
19	14	17	18	13	21	45	56	82	53	7	6	2	**IZS**	14	27	11	2	7	11	34	31	10	17	19	82	22.5	24
20	8	3	3	5	4	8	6	87	8	13	8	**IZS**	4	2	0	0	0	0	0	0	0	0	1	0	87	7.0	24
21	0	0	0	0	0	0	0	7	2	1	**IZS**	1	0	1	0	0	1	0	0	0	13	0	0	2	13	1.2	24
22	13	0	0	0	0	1	10	22	0	**IZS**	0	2	1	0	0	0	0	0	0	0	0	0	0	0	22	2.1	24
23	0	0	0	0	0	0	0	0	**IZS**	0	0	2	0	0	0	1	10	2	5	2	2	0	0	0	10	1.0	24
24	0	0	0	2	3	3	7	**IZS**	13	16	10	4	13	7	4	1	0	0	0	0	0	0	0	0	16	3.6	24
25	0	0	0	0	32	0	**IZS**	2	1	0	0	1	1	0	0	0	0	0	0	0	0	0	3	0	32	1.7	24
26	0	0	0	0	0	**IZS**	0	1	3	6	8	4	19	3	0	0	3	0	0	0	2	0	3	0	19	2.3	24
27	0	0	0	0	**IZS**	1	0	3	3	0	1	8	2	3	3	1	0	62	0	12	9	5	1	0	62	5.0	24
28	4	0	1	**IZS**	1	0	0	0	0	0	0	0	0	0	1	0	7	0	11	13	13	4	3	17	17	3.3	24
29	6	3	**IZS**	1	8	0	1	2	4	3	6	2	5	11	16	4	15	0	4	6	0	0	0	0	16	4.2	24
30	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0.1	24
31	**IZS**	0	0	0	0	0	0	2	1	2	6	2	7	3	1	0	27	1	3	3	6	0	0	**IZS**	27	2.9	24
HOURLY MAX	14	17	18	13	68	45	118	500	129	48	64	110	34	14	27	15	27	62	53	34	31	26	18	32			
HOURLY AVG	2.0	1.4	1.5	1.2	8.2	6.6	10.7	36.3	13.7	6.9	5.4	8.0	5.5	2.7	2.6	2.4	3.4	3.3	5.2	3.8	3.3	3.1	2.1	3.2			

STATUS FLAG CODES

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

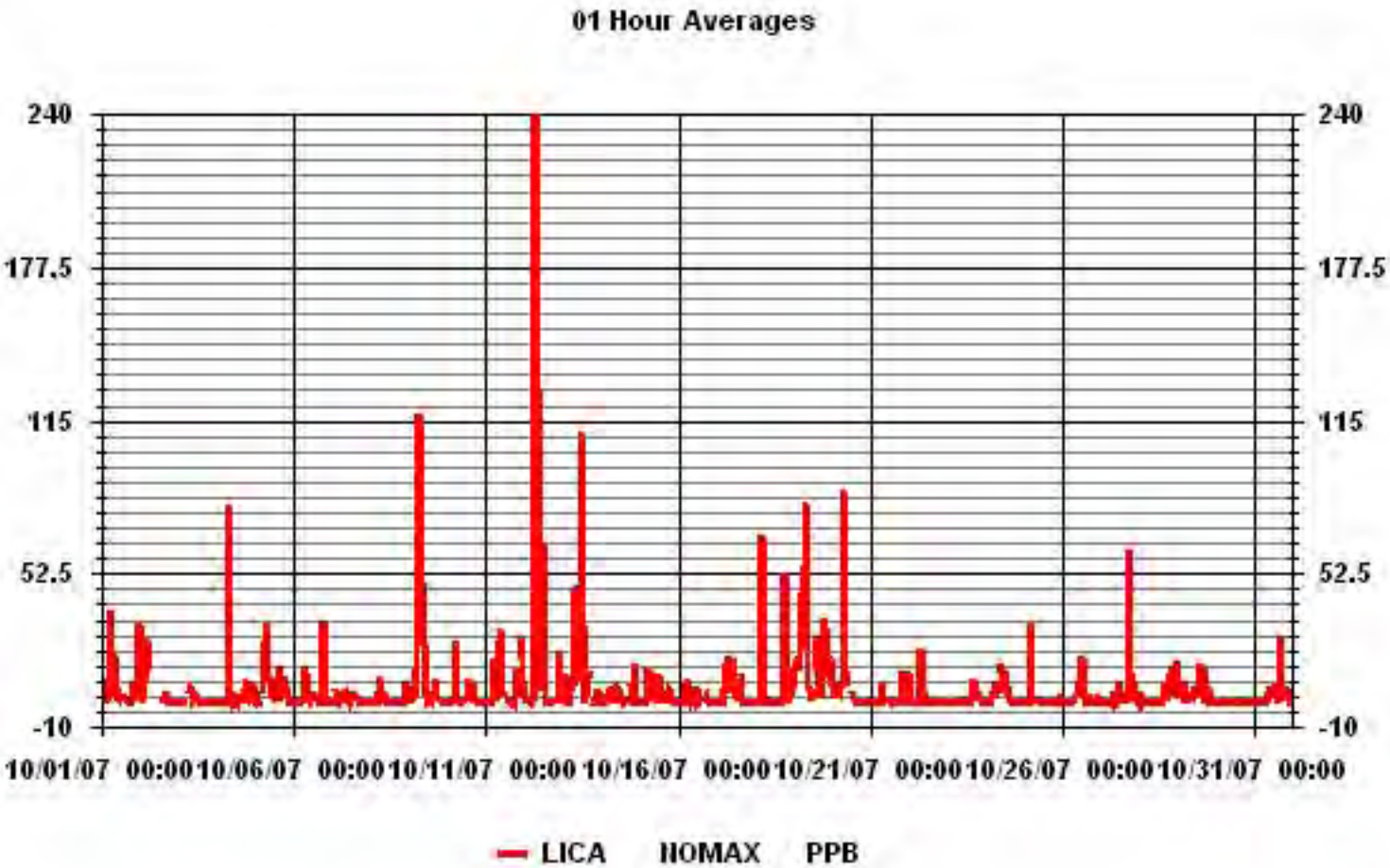
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	385					
MAXIMUM INSTANTANEOUS VALUE:	500	PPB	@ HOUR(S)	8	ON DAY(S)	12

IZS CALIBRATION TIME:	34	HRS	OPERATIONAL TIME:	743	HRS
MONTHLY CALIBRATION TIME:	6	HRS			
STANDARD DEVIATION:	22.73				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
240
177.5
115
52.5
-10
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA NOMAX PPB

NO_X

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

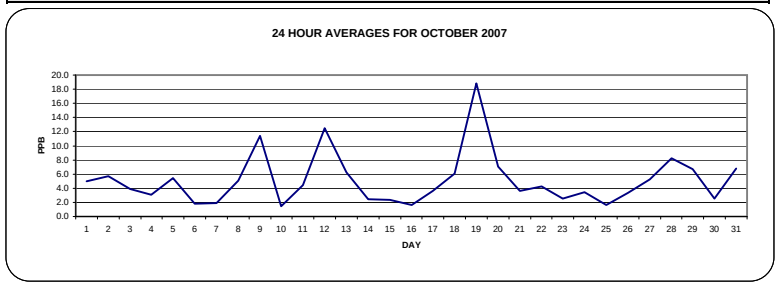
OCTOBER 2007

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	2	2	2	3	4	6	16	**IZS**	8	4	4	2	5	5	4	4	3	5	6	7	6	4	4	8	16	5.0	24
2	3	2	6	10	16	13	**IZS**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	4	3	4	5	4	2	3	3	4	9	16	5.7	24
3	3	6	9	9	8	**IZS**	15	19	7	3	2	1	1	0	0	0	0	1	1	1	1	1	1	1	19	3.9	24
4	1	2	1	1	**IZS**	1	1	7	2	2	1	1	1	2	2	2	2	3	7	9	11	4	3	5	11	3.1	24
5	8	6	6	**IZS**	4	7	23	38	6	1	1	1	1	1	1	2	1	3	6	4	2	1	1	1	38	5.4	24
6	1	2	**IZS**	2	2	2	2	4	2	1	1	1	1	1	1	1	1	1	4	4	2	2	2	2	4	1.8	24
7	2	**IZS**	6	2	2	3	3	3	4	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	6	1.9	24
8	**IZS**	1	1	1	4	16	13	13	10	6	1	1	0	0	0	0	1	2	3	6	8	13	11	**IZS**	16	5.0	24
9	6	11	11	8	13	28	44	49	40	32	4	1	1	1	1	1	2	2	2	1	2	1	**IZS**	1	49	11.4	24
10	1	1	1	1	3	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	**IZS**	1	1	9	1.4	24
11	1	1	1	1	2	1	2	4	3	4	2	2	3	3	4	3	3	3	6	12	**IZS**	21	13	7	21	4.4	24
12	6	6	7	6	7	7	10	47	**64**	9	18	29	14	1	1	1	3	4	7	**IZS**	11	13	7	10	64	12.5	24
13	5	6	5	2	2	5	4	23	32	11	2	17	2	1	1	2	3	4	**IZS**	2	3	**M**	2	3	32	6.2	23
14	2	1	2	2	2	2	3	3	3	2	2	4	4	3	2	2	3	**IZS**	3	2	2	3	2	2	4	2.4	24
15	1	1	1	1	3	4	4	4	3	2	2	2	1	1	2	2	**IZS**	2	5	4	5	2	1	1	5	2.3	24
16	1	1	2	1	2	3	4	3	2	1	1	2	1	1	1	**IZS**	2	1	1	1	1	1	2	2	4	1.6	24
17	2	2	1	2	3	6	6	8	4	3	2	2	2	2	**IZS**	3	2	3	4	5	7	7	4	4	8	3.7	24
18	5	4	3	4	5	5	6	6	5	4	3	2	1	**IZS**	1	1	2	12	20	12	7	9	10	13	20	6.1	24
19	16	20	19	19	18	28	40	60	39	11	12	7	**IZS**	8	9	7	7	11	14	21	24	13	15	15	60	**18.8**	24
20	13	6	6	6	6	6	9	16	16	18	13	**IZS**	9	3	1	1	1	2	2	4	8	7	7	3	18	7.1	24
21	4	5	4	5	3	4	3	5	4	3	**IZS**	3	2	1	1	1	1	2	4	3	6	5	7	8	8	3.7	24
22	8	4	3	3	4	8	13	14	9	**IZS**	5	6	4	1	1	3	2	3	1	1	1	1	1	1	14	4.2	24
23	1	1	1	1	2	2	3	3	**IZS**	2	2	3	2	2	2	3	4	8	5	2	3	3	2	2	8	2.6	24
24	2	2	2	4	4	4	6	**IZS**	7	6	6	6	5	8	7	3	1	1	0	0	0	2	2	1	8	3.4	24
25	1	2	2	2	4	2	**IZS**	3	2	1	1	1	1	1	1	0	0	0	1	2	6	2	2	1	6	1.7	24
26	2	2	2	3	4	**IZS**	2	5	5	4	3	2	4	2	1	0	1	3	2	5	6	6	8	4	8	3.3	24
27	3	3	3	3	**IZS**	3	2	3	4	3	4	3	3	3	3	3	3	14	5	6	12	13	10	11	14	5.2	24
28	9	5	4	**IZS**	8	10	8	6	5	3	2	2	1	1	1	1	2	3	13	25	26	18	18	18	26	8.2	24
29	17	15	**IZS**	4	3	3	6	7	5	4	3	3	4	4	3	13	7	7	9	14	6	7	6	4	17	6.7	24
30	4	**IZS**	2	2	2	2	4	4	3	1	1	1	0	0	1	1	1	3	4	5	5	5	4	3	5	2.5	24
31	**IZS**	3	2	4	6	7	8	9	9	7	7	5	4	4	5	5	9	18	12	7	8	4	6	**IZS**	18	6.8	24
HOURLY MAX	17	20	19	19	18	28	44	60	64	32	18	29	14	8	9	13	9	18	20	25	26	21	18	18			
HOURLY AVG	4.5	4.2	4.0	3.9	5.0	6.8	9.0	13.1	10.5	5.3	3.7	3.9	2.7	2.1	2.1	2.3	2.4	4.3	5.1	5.6	6.1	5.9	5.2	4.9			

STATUS FLAG CODES

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



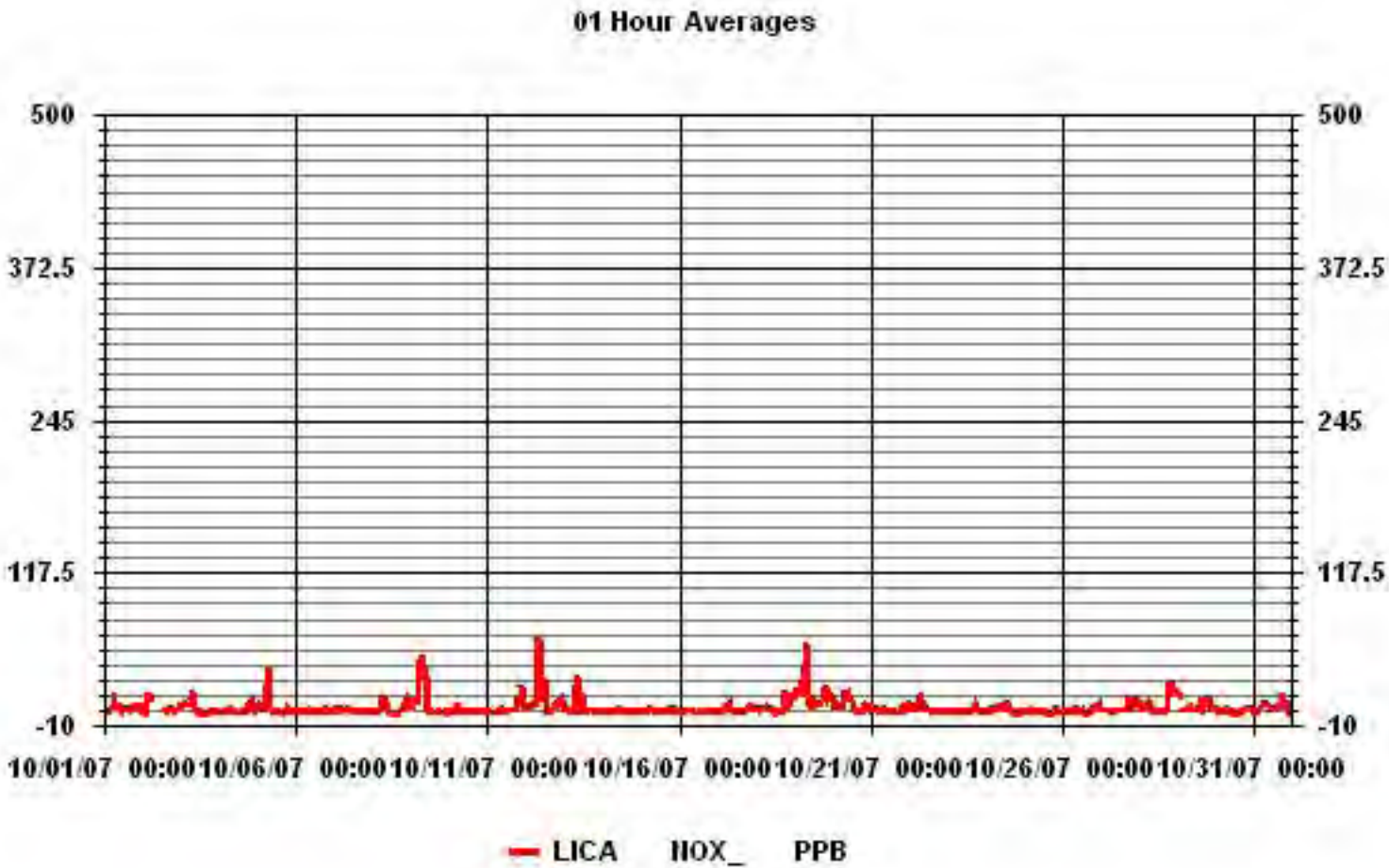
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	686					
MAXIMUM 1-HR AVERAGE:	64	PPB	@ HOUR(S)	9	ON DAY(S)	12
MAXIMUM 24-HR AVERAGE:	18.8	PPB			ON DAY(S)	19

IZS CALIBRATION TIME:	34	HRS	OPERATIONAL TIME:	743	HRS
MONTHLY CALIBRATION TIME:	6	HRS	AMD OPERATION UPTIME:	99.9	%
STANDARD DEVIATION:	6.84		MONTHLY AVERAGE:	5.09	PPB

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
500
372.5
245
117.5
-10
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA NOX_ PPB

LICA
NOX_ / WD Joint Frequency Distribution (Percent)

October 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	.85	1.13	.85	3.55	6.11	12.23	20.91	1.84	3.98	3.12	9.53	15.64	11.52	4.97	1.99	1.42	99.71
< 110	.00	.00	.00	.14	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.28
< 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	.85	1.13	.85	3.69	6.11	12.23	20.91	1.84	3.98	3.12	9.67	15.64	11.52	4.97	1.99	1.42	

Calm : .00 %

Total # Operational Hours : 703

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	6	8	6	25	43	86	147	13	28	22	67	110	81	35	14	10	701
< 110				1							1						2
< 210																	
>= 210																	
Totals	6	8	6	26	43	86	147	13	28	22	68	110	81	35	14	10	

Calm : .00 %

Total # Operational Hours : 703

Logger : 01 Parameter : NOX_

Class Limits (PPB)

>= 210

< 210

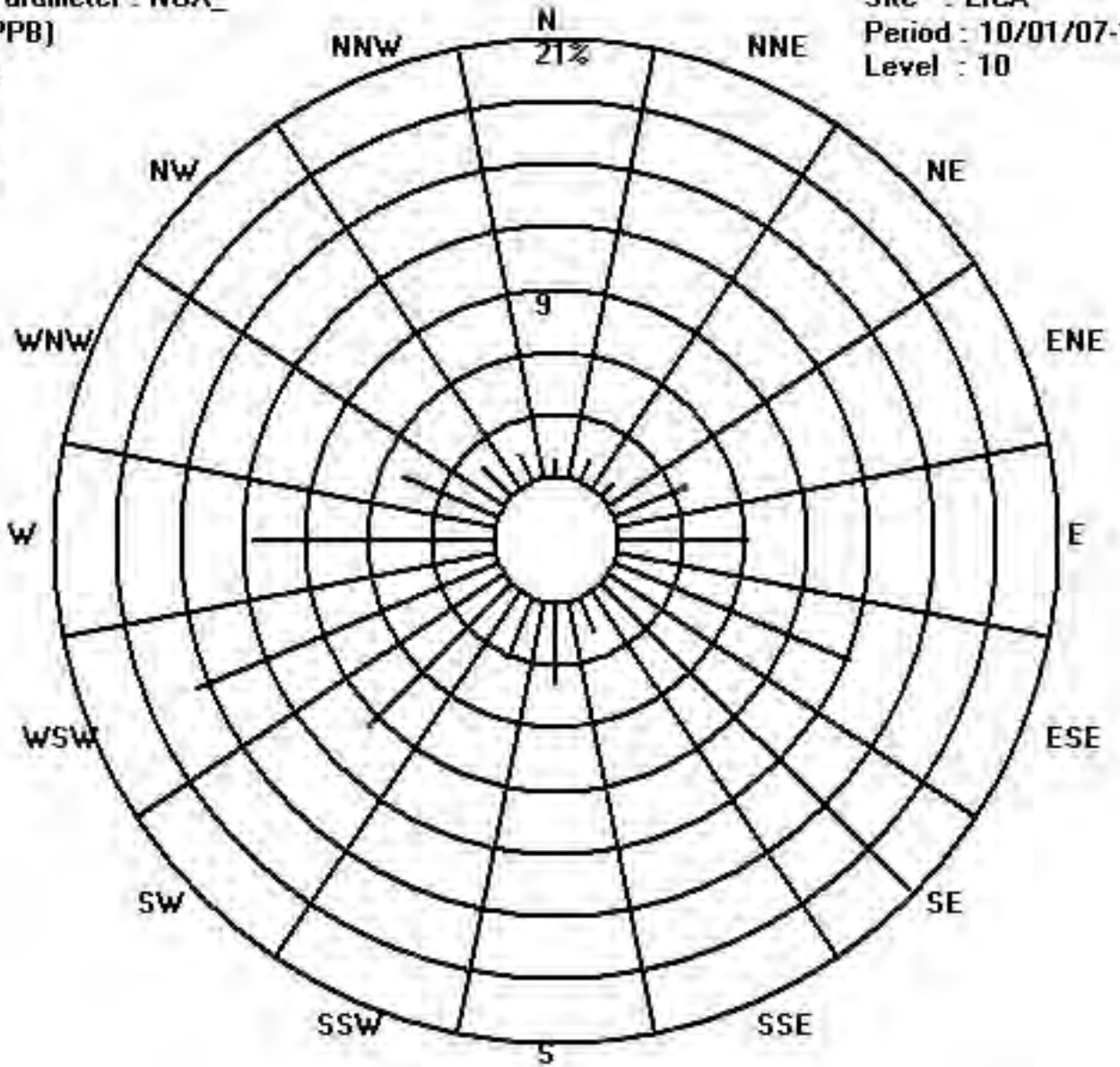
< 110

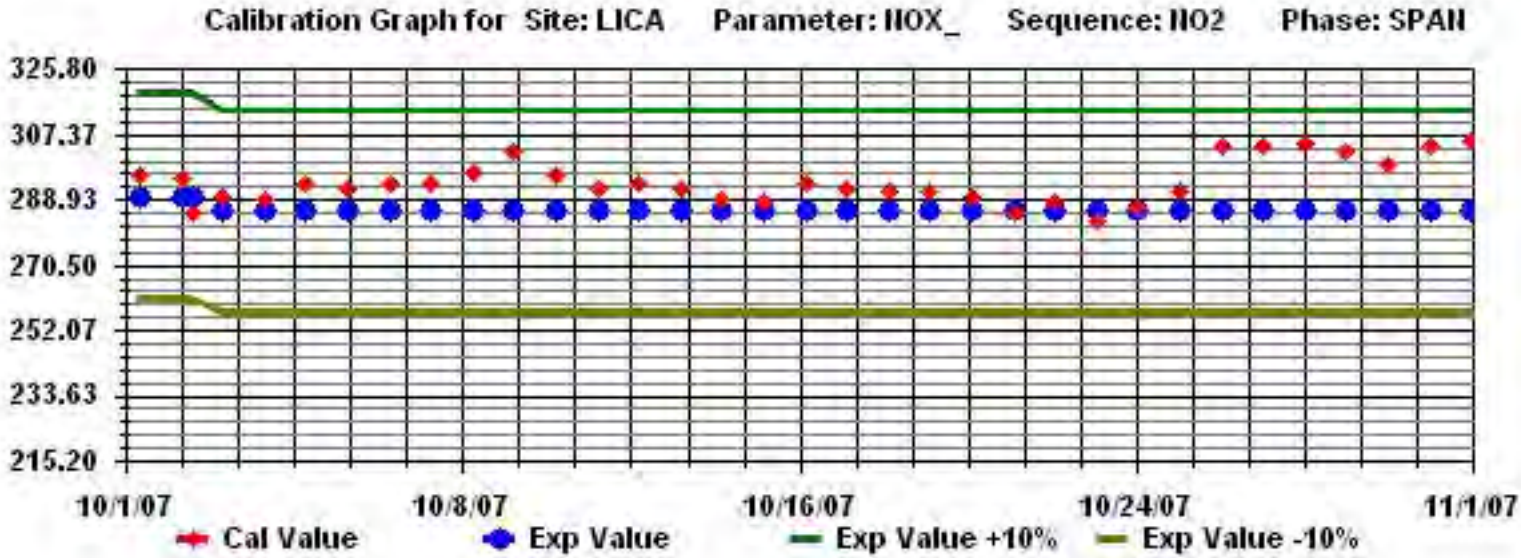
< 50

Site : LICA

Period : 10/01/07-10/31/07

Level : 10




Calibration Graph for Site: LICA Parameter: NOX_ Sequence: NO2 Phase: SPAN
325.80
307.37
288.93
270.50
252.07
233.63
215.20
10/1/07
10/8/07
10/16/07
10/24/07
11/1/07
Cal Value
Exp Value
Exp Value +10%
Exp Value -10%

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 2007

OXIDES OF NITROGEN MAX instantaneous maximum in pp

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	4	5	7	5	23	10	73	**IZS**	22	6	7	5	10	10	9	8	5	9	9	20	15	6	6	36	73	13.5	24
2	8	3	15	14	28	21	**IZS**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	7	4	10	10	6	3	5	7	8	15	28	10.3	24
3	5	10	12	15	11	**IZS**	21	23	15	6	6	4	8	1	1	1	1	3	2	1	2	2	1	3	23	6.7	24
4	2	2	2	1	**IZS**	1	1	107	3	9	2	3	2	7	3	6	9	7	21	14	15	9	5	18	107	10.8	24
5	18	12	9	**IZS**	15	27	42	49	22	7	4	10	6	6	5	17	6	10	20	17	8	2	2	2	49	13.7	24
6	2	3	**IZS**	2	6	3	14	21	8	3	2	7	6	5	4	8	2	2	35	7	5	3	2	4	35	6.7	24
7	4	**IZS**	16	4	4	7	6	10	17	8	7	3	4	2	2	6	2	1	2	1	2	1	1	3	17	4.9	24
8	**IZS**	3	2	2	15	26	21	16	15	10	3	3	1	1	1	1	1	3	5	10	15	18	22	**IZS**	26	8.8	24
9	11	17	16	12	24	53	124	82	67	44	12	5	16	7	11	6	22	5	4	4	5	3	**IZS**	2	124	24.0	24
10	2	1	1	4	5	51	5	3	2	4	2	2	5	3	12	8	7	5	3	2	2	**IZS**	1	1	51	5.7	24
11	1	2	2	4	12	7	7	23	51	62	11	8	11	5	6	5	5	4	15	20	**IZS**	33	24	14	62	14.4	24
12	9	8	9	9	7	13	14	**500**	253	13	107	101	101	4	3	3	7	8	14	**IZS**	18	32	12	14	500	54.7	24
13	7	24	8	5	3	14	14	91	98	106	13	126	39	2	4	25	24	25	**IZS**	5	12	**M**	7	5	126	29.9	23
14	2	2	5	6	6	4	5	8	8	3	6	9	13	4	4	5	8	**IZS**	9	3	3	13	2	3	13	5.7	24
15	2	2	2	2	13	33	6	19	9	11	4	5	5	3	19	3	**IZS**	5	12	9	13	6	4	1	33	8.2	24
16	1	2	3	2	5	31	7	8	3	3	2	5	3	3	3	**IZS**	5	2	7	2	3	3	2	3	31	4.7	24
17	5	2	3	5	15	18	10	22	8	5	14	4	17	5	**IZS**	15	4	5	5	6	11	9	5	5	22	8.6	24
18	6	7	5	10	25	7	7	7	5	5	4	3	3	**IZS**	2	2	5	29	77	20	9	19	19	24	77	13.0	24
19	27	28	32	25	29	61	68	104	85	17	21	14	**IZS**	27	40	27	11	27	30	51	48	22	30	30	104	37.1	24
20	17	11	10	10	9	11	12	92	17	22	17	**IZS**	13	8	2	2	3	4	3	7	13	10	13	4	92	13.5	24
21	5	9	6	8	5	5	5	19	9	5	**IZS**	4	6	2	2	2	3	6	7	6	27	9	12	14	27	7.7	24
22	27	7	6	6	6	11	30	34	10	**IZS**	7	12	8	3	1	8	4	5	1	2	1	2	2	3	34	8.5	24
23	1	2	2	3	3	3	4	6	**IZS**	4	3	8	2	3	3	10	14	14	11	9	9	5	2	2	14	5.3	24
24	3	4	3	9	11	9	16	**IZS**	27	24	16	26	19	15	10	6	3	1	1	1	2	3	5	1	27	9.3	24
25	3	3	3	3	51	3	**IZS**	14	6	5	4	5	4	1	2	1	1	1	2	5	15	6	8	3	51	6.5	24
26	5	4	3	5	5	**IZS**	4	9	12	15	13	7	24	14	2	1	6	6	3	6	11	10	17	7	24	8.2	24
27	5	3	5	4	**IZS**	8	4	15	9	4	6	5	6	6	9	4	9	85	9	23	29	24	15	14	85	13.1	24
28	20	7	7	**IZS**	11	16	10	8	6	4	3	3	2	2	3	2	17	6	31	37	35	24	22	31	37	13.3	24
29	23	21	**IZS**	8	20	6	12	12	12	9	8	6	17	36	9	19	23	11	19	21	12	11	8	5	36	14.3	24
30	5	**IZS**	3	3	3	4	6	5	5	3	2	2	1	1	5	1	2	7	8	8	6	6	7	4	8	4.2	24
31	**IZS**	3	3	6	7	9	9	22	12	10	12	6	11	10	6	7	48	28	22	18	19	6	9	**IZS**	48	12.9	24
HOURLY MAX	27	28	32	25	51	61	124	500	253	106	107	126	101	36	40	27	48	85	77	51	48	33	30	36			
HOURLY AVG	7.9	7.1	6.9	6.6	13.0	16.3	19.2	47.5	28.1	14.7	11.0	13.8	12.5	6.8	6.3	7.1	8.9	11.1	13.1	11.3	12.3	10.5	9.1	9.3			

STATUS FLAG CODES

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

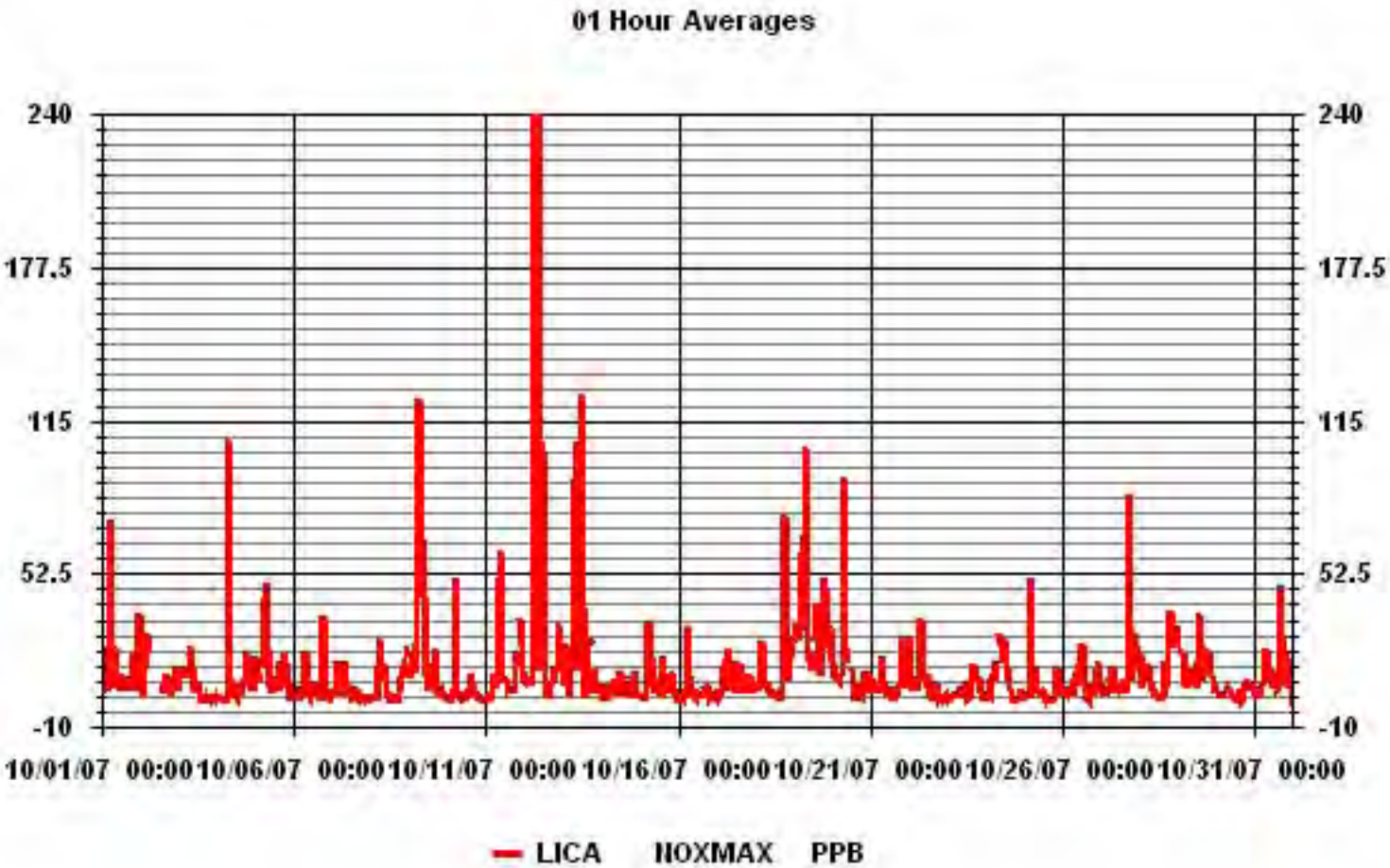
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	703					
MAXIMUM INSTANTANEOUS VALUE:	500	PPB	@ HOUR(S)	8	ON DAY(S)	12

IZS CALIBRATION TIME:	34	HRS	OPERATIONAL TIME:	743	HRS
MONTHLY CALIBRATION TIME:	6	HRS			
STANDARD DEVIATION:	26.34				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
240
177.5
115
52.5
-10
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA NOXMAX PPB

O_3

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

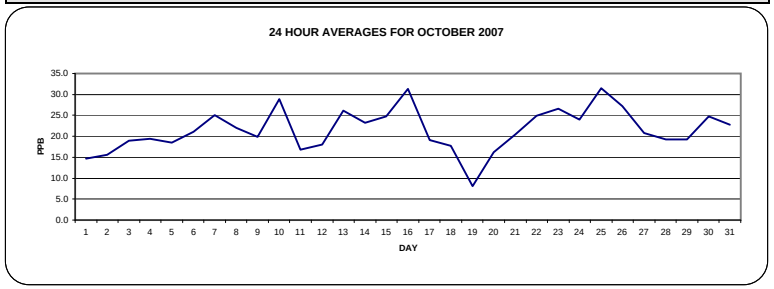
OCTOBER 2007

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	23	21	22	20	19	15	9	**IZS**	14	18	19	20	18	18	17	17	19	17	16	8	4	2	1	0	23	14.7	24
2	1	1	0	0	0	0	**IZS**	5	14	17	20	24	29	**C**	**C**	**C**	**IZS**	27	27	30	29	28	25	20	30	15.6	24
3	26	20	18	16	16	**IZS**	8	11	18	22	25	29	29	29	24	21	20	16	14	14	13	14	17	16	29	19.0	24
4	13	13	15	15	**IZS**	19	20	18	19	22	24	25	26	25	25	24	24	23	19	14	10	20	21	13	26	19.4	24
5	8	6	6	**IZS**	12	11	2	3	19	24	25	25	26	27	28	28	27	23	20	21	22	22	21	21	28	18.6	24
6	21	19	**IZS**	17	16	16	16	13	19	25	27	28	28	28	27	25	25	24	21	17	20	19	18	16	28	21.1	24
7	14	**IZS**	7	16	10	7	9	16	16	20	28	33	34	34	37	37	36	34	33	31	31	32	31	30	37	25.0	24
8	**IZS**	26	22	17	8	2	2	3	8	22	34	35	35	36	37	37	36	33	30	26	18	10	7	**IZS**	37	22.0	24
9	9	3	1	2	1	0	0	1	7	13	28	33	34	34	34	34	34	32	32	32	32	31	**IZS**	31	34	19.9	24
10	30	30	30	28	24	19	27	26	27	27	28	29	30	31	31	32	32	32	33	31	31	**IZS**	29	29	33	29.0	24
11	29	29	28	26	25	24	21	20	20	19	19	17	17	17	16	17	16	17	7	0	**IZS**	0	0	1	29	16.7	24
12	1	1	5	4	11	13	9	10	12	21	24	27	32	35	36	36	33	31	26	**IZS**	13	9	16	9	36	18.0	24
13	16	17	13	20	27	16	12	8	7	31	37	37	40	40	41	40	39	35	**IZS**	30	27	**M**	23	20	41	26.2	23
14	17	16	7	4	13	13	12	15	17	19	23	29	33	37	41	40	38	**IZS**	31	29	27	26	25	23	41	23.3	24
15	21	20	20	19	17	15	14	14	16	17	19	25	32	35	33	33	**IZS**	34	30	32	29	31	32	32	35	24.8	24
16	31	29	28	27	27	25	24	25	26	27	29	31	36	38	41	**IZS**	37	37	36	35	34	34	33	31	41	31.3	24
17	30	29	27	25	23	20	18	16	18	18	18	19	21	23	**IZS**	23	20	18	15	14	11	9	12	11	30	19.0	24
18	17	20	20	18	16	14	11	12	15	19	22	27	33	**IZS**	37	37	35	19	9	9	10	6	2	1	37	17.8	24
19	0	0	0	0	0	0	0	1	3	15	18	23	**IZS**	22	22	25	23	17	10	2	0	4	2	1	25	8.2	24
20	0	1	0	1	0	0	0	1	3	5	9	**IZS**	24	33	36	36	35	34	34	33	23	22	20	24	36	16.3	24
21	23	19	21	18	18	15	15	14	16	19	**IZS**	24	28	32	32	31	31	28	24	23	14	11	9	7	32	20.5	24
22	7	17	15	10	10	10	6	4	14	**IZS**	23	25	30	36	36	34	36	34	39	40	39	38	36	33	40	24.9	24
23	31	31	29	27	25	26	25	23	**IZS**	25	26	27	30	28	27	26	27	22	24	26	26	26	27	26	31	26.5	24
24	25	24	22	18	18	17	13	**IZS**	11	12	12	13	16	16	17	23	31	40	**43**	42	40	35	31	33	43	24.0	24
25	32	29	27	25	27	29	**IZS**	28	31	32	33	34	35	35	36	36	36	35	34	31	24	31	32	32	36	**31.5**	24
26	29	30	28	26	25	**IZS**	32	27	26	31	31	33	33	34	35	34	33	29	27	23	18	13	10	19	35	27.2	24
27	22	23	22	23	**IZS**	23	23	23	22	25	27	29	28	28	28	28	26	16	22	18	8	5	5	4	29	20.8	24
28	5	7	5	**IZS**	6	11	18	22	27	32	35	36	36	37	38	37	35	28	13	3	2	6	3	1	38	19.3	24
29	1	1	**IZS**	28	30	29	27	25	27	28	29	29	28	28	28	16	15	10	7	3	14	12	14	15	30	19.3	24
30	15	**IZS**	17	19	19	19	19	20	21	24	27	30	34	34	34	34	35	31	28	24	23	21	20	22	35	24.8	24
31	**IZS**	21	17	17	17	16	16	16	18	22	26	31	33	33	33	34	28	13	14	22	21	27	25	**IZS**	34	22.7	24
HOURLY MAX	32	31	30	28	30	29	32	28	31	32	37	37	40	40	41	40	39	40	43	42	40	38	36	33			
HOURLY AVG	17.1	17.3	16.3	16.8	15.9	14.6	14.1	14.5	17.0	21.7	24.8	27.6	29.6	30.4	31.3	30.2	29.7	26.3	23.9	22.1	20.4	18.8	18.2	18.0			

STATUS FLAG CODES

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



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

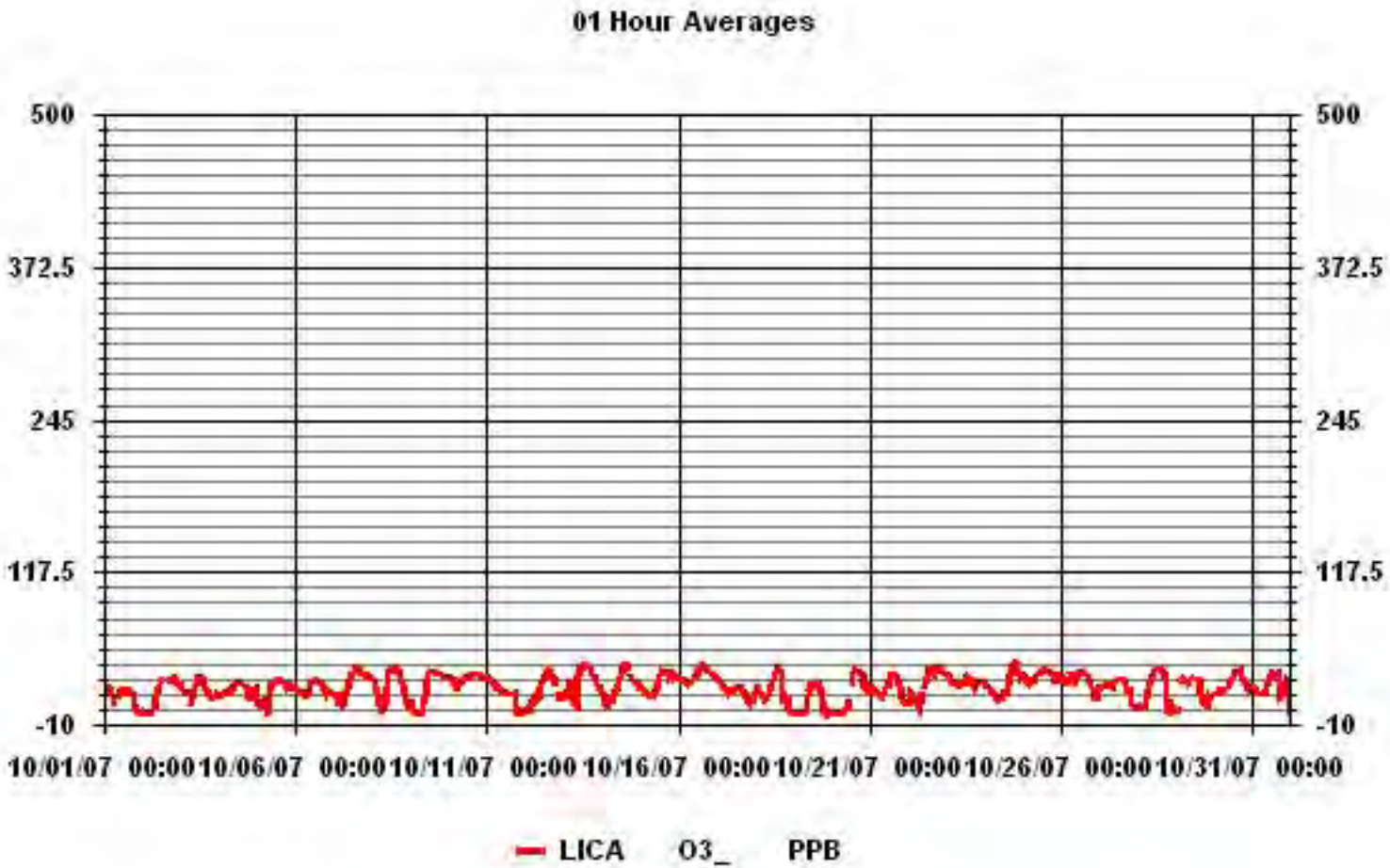
MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0					
NUMBER OF NON-ZERO READINGS:	683					
MAXIMUM 1-HR AVERAGE:	43	PPB	@ HOUR(S)	19	ON DAY(S)	24
MAXIMUM 24-HR AVERAGE:	31.5	PPB			ON DAY(S)	25

IZS CALIBRATION TIME:	34	HRS	OPERATIONAL TIME:	743	HRS
MONTHLY CALIBRATION TIME:	3	HRS	AMD OPERATION UPTIME:	99.9	%
STANDARD DEVIATION:	10.40		MONTHLY AVERAGE:	21.55	PPB

Maxxam Analytics Inc

MOUNTAIN STANDARD TIME


01 Hour Averages
500
372.5
245
117.5
-10
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA O3_ PPB

LICA
O3_ / WD Joint Frequency Distribution (Percent)

October 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	.84	1.13	.84	3.68	6.09	12.18	20.82	1.98	3.96	3.25	9.63	15.72	11.47	4.95	1.98	1.41	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	.84	1.13	.84	3.68	6.09	12.18	20.82	1.98	3.96	3.25	9.63	15.72	11.47	4.95	1.98	1.41	

Calm : .00 %

Total # Operational Hours : 706

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	6	8	6	26	43	86	147	14	28	23	68	111	81	35	14	10	706
< 110																	
< 210																	
>= 210																	
Totals	6	8	6	26	43	86	147	14	28	23	68	111	81	35	14	10	

Calm : .00 %

Total # Operational Hours : 706

Logger : 01 Parameter : 03_

Class Limits (PPB)

>= 210

< 210

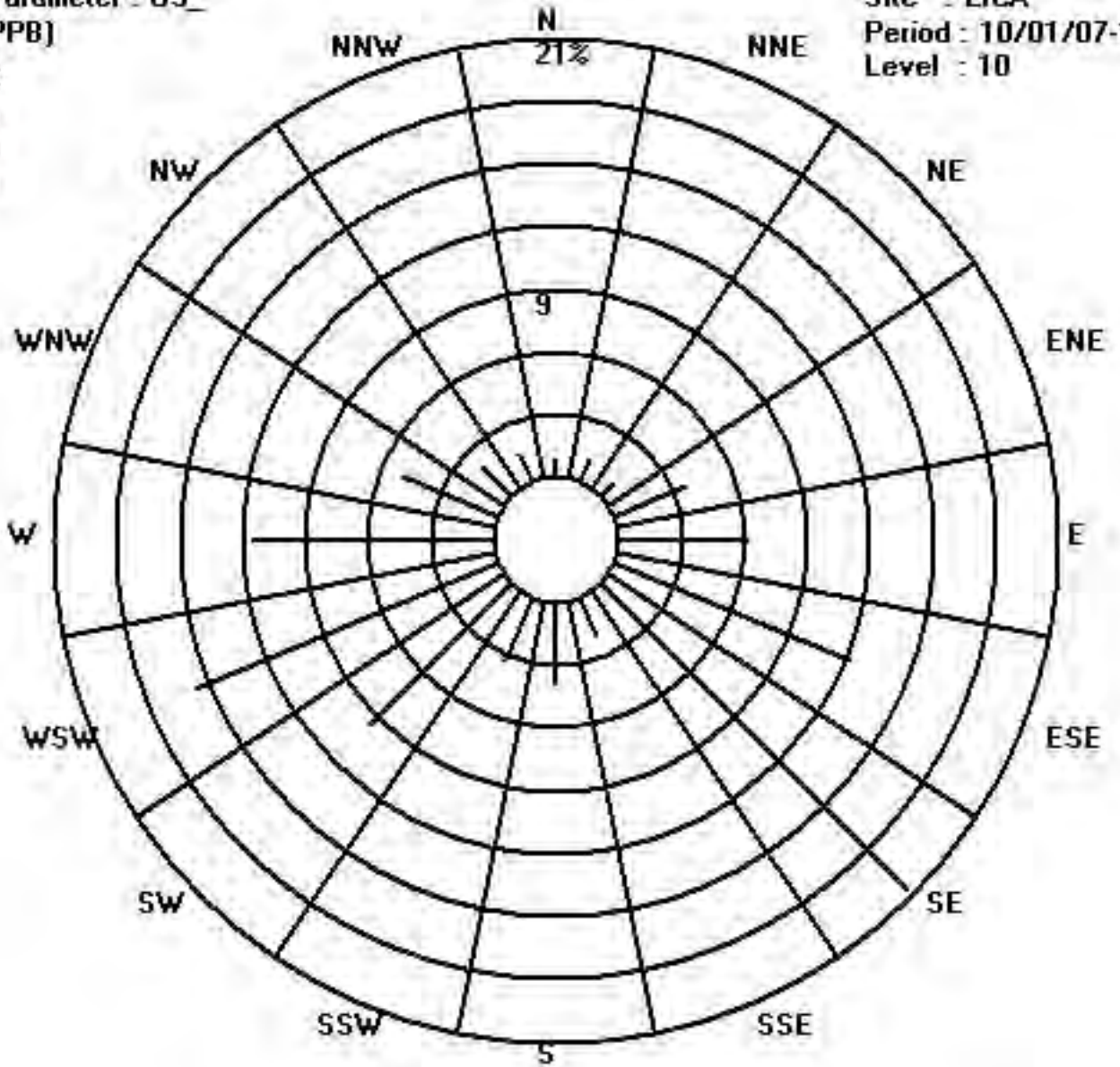
< 110

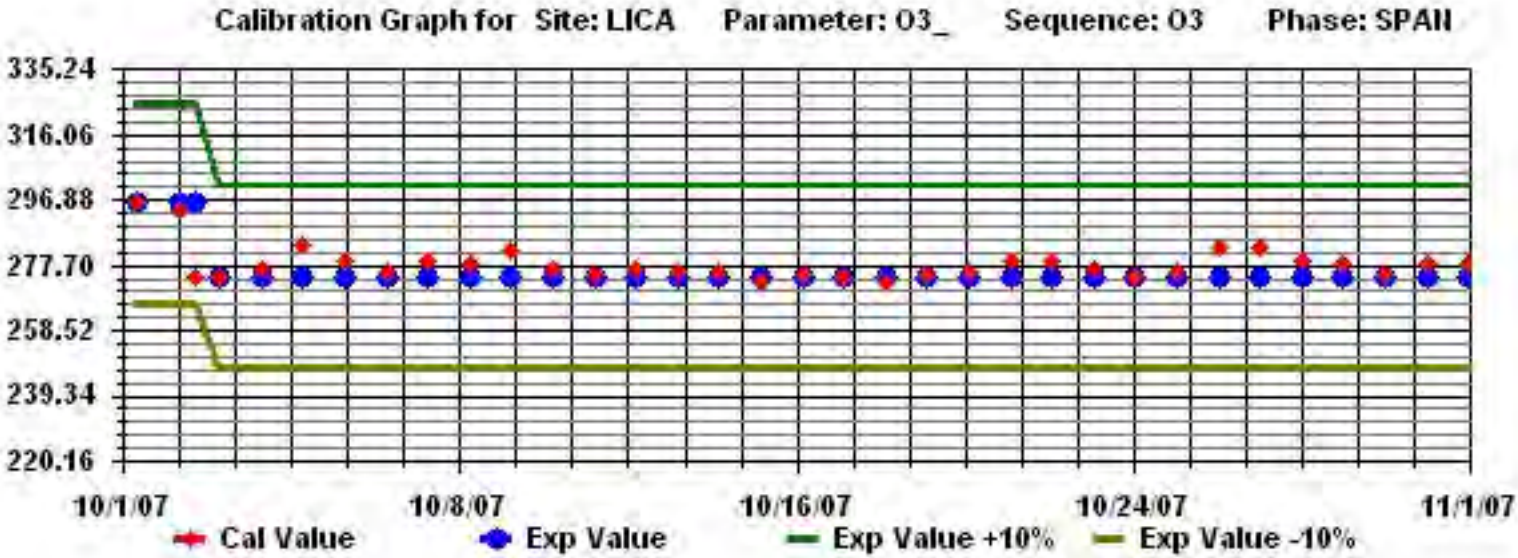
< 50

Site : LICA

Period : 10/01/07-10/31/07

Level : 10




Calibration Graph for Site: LICA Parameter: O3_ Sequence: O3 Phase: SPAN
335.24
316.06
296.88
277.70
258.52
239.34
220.16
10/1/07
10/8/07
10/16/07
10/24/07
11/1/07
Cal Value
Exp Value
Exp Value +10%
Exp Value -10%

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 2007

OZONE MAX instantaneous maximum in pp

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	24	23	23	21	21	18	12	**IZS**	17	20	21	21	21	20	19	19	22	21	21	13	10	5	1	2	24	17.2	24
2	2	1	1	1	2	1	**IZS**	14	16	20	23	29	31	**C**	**C**	**C**	**IZS**	30	30	31	30	30	28	25	31	18.2	24
3	27	24	20	19	18	**IZS**	13	16	21	24	28	30	30	31	29	22	22	19	16	15	14	17	17	17	31	21.3	24
4	16	15	15	16	**IZS**	20	20	20	20	25	25	26	26	26	25	25	25	24	22	18	17	22	22	19	26	21.3	24
5	13	9	11	**IZS**	19	21	4	10	23	25	26	26	27	28	29	29	29	26	26	24	23	23	22	22	29	21.5	24
6	22	20	**IZS**	18	17	18	18	15	21	27	28	28	29	29	28	26	26	26	23	21	22	21	19	17	29	22.6	24
7	17	**IZS**	13	17	16	11	16	17	16	25	32	34	34	35	38	38	37	35	34	32	32	32	32	31	38	27.1	24
8	**IZS**	28	24	21	14	7	4	5	13	32	37	36	36	37	39	39	37	35	31	29	26	16	10	**IZS**	39	25.3	24
9	13	10	3	3	3	1	1	3	14	22	31	34	35	36	35	35	35	34	33	34	33	32	**IZS**	31	36	22.2	24
10	30	31	30	29	25	27	28	27	28	28	28	30	32	32	33	34	33	34	34	34	32	**IZS**	30	29	34	30.3	24
11	30	29	29	27	27	25	23	21	21	20	20	19	18	18	18	18	17	19	17	2	**IZS**	4	1	2	30	18.5	24
12	2	4	7	9	14	15	11	16	17	25	27	32	35	36	37	37	35	33	32	**IZS**	22	15	21	18	37	21.7	24
13	32	34	24	29	31	26	19	18	17	38	38	41	41	41	43	42	41	38	**IZS**	33	31	**M**	25	23	43	32.0	23
14	20	19	16	7	16	15	15	16	18	21	27	32	35	40	43	41	39	**IZS**	33	30	28	27	26	24	43	25.6	24
15	23	21	21	20	18	17	14	16	16	18	20	32	34	36	34	33	**IZS**	35	33	34	33	33	33	32	36	26.3	24
16	32	31	29	28	28	27	25	26	27	28	30	33	38	39	42	**IZS**	38	38	37	36	35	34	33	33	42	32.5	24
17	31	30	28	27	24	22	20	18	19	19	19	21	23	24	**IZS**	27	22	19	16	15	13	12	13	13	31	20.7	24
18	20	23	22	22	19	16	13	14	17	23	24	31	37	**IZS**	38	38	38	31	18	14	13	11	5	2	38	21.3	24
19	1	0	4	0	0	1	2	5	7	20	27	28	**IZS**	25	26	27	26	24	15	5	2	85	6	4	85	14.8	24
20	2	2	1	2	1	1	0	3	5	7	13	**IZS**	32	36	38	37	37	36	36	**195**	27	26	24	26	195	25.5	24
21	25	24	22	22	19	16	16	16	18	20	**IZS**	27	31	33	33	32	32	31	29	27	20	19	16	12	33	23.5	24
22	16	23	20	13	19	16	13	11	16	**IZS**	25	27	34	37	38	37	37	38	41	41	41	38	38	34	41	28.4	24
23	32	32	31	29	26	26	26	25	**IZS**	26	28	30	31	30	28	28	29	26	27	27	27	27	27	26	32	28.0	24
24	25	25	23	21	19	18	15	**IZS**	12	13	13	16	19	19	18	29	40	43	45	44	43	38	33	33	45	26.3	24
25	33	31	29	26	29	29	**IZS**	30	33	34	33	35	35	36	37	37	37	36	35	33	29	33	33	33	37	32.9	24
26	32	31	29	26	27	**IZS**	34	29	28	33	33	34	34	35	36	35	34	31	29	27	22	19	14	23	36	29.3	24
27	24	25	23	24	**IZS**	24	24	24	25	27	29	30	29	28	29	28	28	25	25	23	15	16	7	7	30	23.4	24
28	11	10	6	**IZS**	10	15	22	25	30	34	36	36	37	38	38	38	36	33	23	9	16	11	8	4	38	22.9	24
29	2	3	**IZS**	31	31	30	29	29	28	30	31	31	30	30	30	22	17	16	12	9	16	15	16	16	31	21.9	24
30	17	**IZS**	18	20	20	21	21	21	23	26	29	32	35	35	35	35	37	33	31	26	24	25	24	23	37	26.6	24
31	**IZS**	22	22	20	17	17	17	19	21	25	29	33	34	34	36	36	32	19	21	28	25	29	27	**IZS**	36	25.6	24
HOURLY MAX	33	34	31	31	31	30	34	30	33	38	38	41	41	41	43	42	41	43	45	195	43	85	38	34			
HOURLY AVG	19.8	20.0	18.8	18.9	18.3	17.3	16.4	17.6	19.6	24.5	27.0	29.8	31.4	31.9	32.8	31.9	31.7	29.6	27.5	30.3	24.0	24.7	20.4	20.0			

STATUS FLAG CODES

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

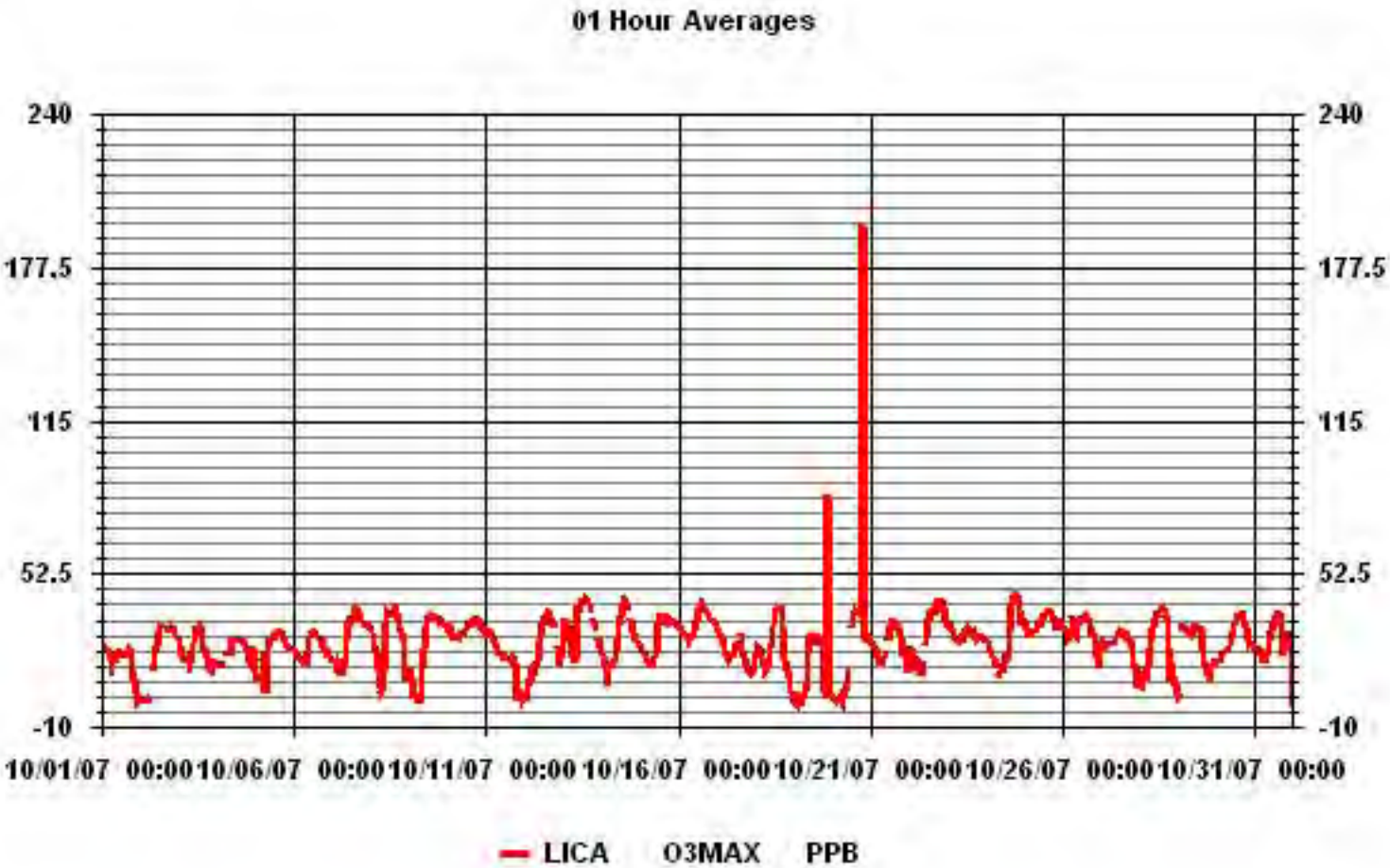
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	702					
MAXIMUM INSTANTANEOUS VALUE:	195	PPB	@ HOUR(S)	20	ON DAY(S)	20

IZS CALIBRATION TIME:	34	HRS	OPERATIONAL TIME:	743	HRS
MONTHLY CALIBRATION TIME:	3	HRS			
STANDARD DEVIATION:	11.96				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
240
177.5
115
52.5
-10
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA O3MAX PPB

VECTOR WIND SPEED

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

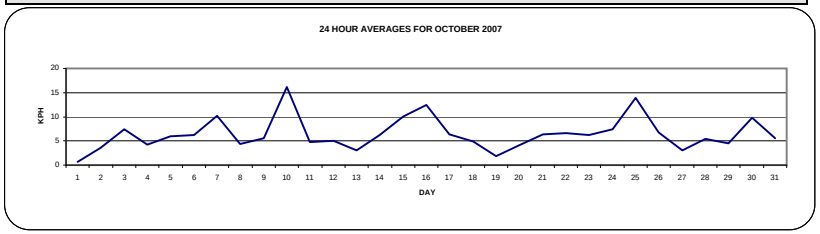
OCTOBER 2007

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	5.5	3.9	3.5	5.5	5.4	4.4	3.1	1.7	3.1	1.8	3.4	5.3	6.8	9.1	9.3	5.5	3.4	2.2	2.7	1.7	0.4	0.2	0.2	0.6	9.3	0.6	24
2	0.2	0.7	1.5	0.4	0.5	1	0.1	1.2	2.3	4.9	4.4	7.5	8.3	7.5	8.7	6.8	5.6	5.4	5.4	4.2	4.4	4.9	3.6	4.3	8.7	3.6	24
3	5.2	5.2	5.4	5.7	7.2	5.7	4.5	5.8	8.1	9.3	11.5	15.6	14.6	17.7	17	13.6	12.1	10.1	10.8	10.4	4.7	7.2	5	2.5	17.7	7.4	24
4	4.5	6.6	7.6	8	5.4	5.8	5.6	6.5	7.9	8.7	10.3	7.6	6.4	5.8	6.8	5.7	4.9	4.4	3.7	1.8	2.3	3.8	3.1	1.5	10.3	4.3	24
5	1.2	0.8	1.6	2.5	1.8	1.2	1	1.8	4.7	9.9	10.8	8.1	7.8	9.8	9.9	10.8	10.5	6.8	4.3	5.3	9	8.6	7.2	7.2	10.8	5.9	24
6	7.8	5.8	7.1	6.2	7.7	8.2	9.1	10	10	10	7.7	7	6.2	7.4	6.6	4.7	4	3.4	3.5	3.7	5.4	4.3	0.8	2	10.0	6.2	24
7	0.9	1.2	3.2	5.8	1.7	1	4.8	11	11.9	10.4	14.5	15.7	16.6	16.6	15.7	13	14.7	13.7	12.2	14.2	13.1	15.2	9	8.2	16.6	10.2	24
8	5.7	5	3.2	0.5	1.2	2	1.1	0.6	1.8	5.4	5.9	11.2	9.4	7	8.3	7	8.3	6.7	5.4	4.1	2.7	0.9	0.5	0.6	11.2	4.4	24
9	0.8	0.9	0.3	0.3	0.3	0.5	0.1	0.1	0.7	1.7	6.9	9.9	9.3	10.1	10.2	11.6	9.9	7.5	6.3	9.5	8.6	9.1	10.1	9	11.6	5.6	24
10	8.4	10.5	12.3	11.2	6.3	5.9	17.8	14.4	16.8	20.6	23.6	23.6	23.4	22.4	20.7	21.4	21.7	17.7	18.2	13.6	11.7	16.7	15.4	13.4	23.6	**16.2**	24
11	12.7	9.1	5.7	4.9	7.4	7.4	7.5	7.4	5.2	4.8	5.1	2.3	5.1	5.2	4.7	3.1	5.2	3.9	0.7	0.8	0.9	0.7	0.9	2.5	12.7	4.7	24
12	3.6	4.2	4.3	4.4	7	5.8	3.4	5.7	6	6.1	5	7.6	11	9.7	8.4	6.4	4.6	5.1	3.5	3.1	0.5	0.9	2.6	0.9	11.0	5.0	24
13	1.5	0.6	0.9	1	0.8	0.1	0.8	1.3	0.3	2.4	2.5	3.7	1.3	1.5	2.1	5.7	8.2	7.5	6.4	5.6	5.4	M	5.4	5.3	8.2	3.1	23
14	4.7	3.2	0.5	2	3.7	3.8	5.9	6.8	8.4	6.8	6.3	5.2	5.5	6.3	6.8	6.1	7.9	5.2	8.9	8.4	7.4	8.5	9.8	10.7	10.7	6.2	24
15	10.4	9.9	9.9	8.7	7.9	8.1	9.8	10.6	11.4	11	8.7	8.8	13.9	13.2	14.8	17.3	14.8	9.1	3	5.7	4.6	7.2	11.9	12.4	17.3	10.1	24
16	8.9	5.5	3.5	6.5	6.4	9.5	10.5	10	13.2	15.4	16.3	15.9	19.1	22.1	23.2	22.3	15.7	14.8	13.6	15	10.5	7.5	6.5	5.8	23.2	12.4	24
17	6.5	6.8	8.1	5.8	6.6	6.6	6	6.6	6.1	7.5	8.8	7.9	9	10	9.4	5.9	6	4.7	4.8	3.9	3.5	3.5	3.5	5.2	10.0	6.4	24
18	6.2	2.1	6.4	4.6	6.4	6.4	4.4	6.6	7.1	5.4	5.3	6.4	10	10.3	10.4	9	5.8	2.4	0.3	0.5	0.7	0.3	0.5	0.4	10.4	4.9	24
19	0.5	0.3	0.4	0.8	0.7	1.8	1.3	2	1.3	1.4	1.6	3.4	4.6	3.9	5.2	4.3	4.4	2.8	0.1	0.4	0.3	0.4	0.7	0.9	5.2	1.8	24
20	0.9	1.6	1.8	0.9	0.8	1.2	1.6	3.3	2.9	3.7	3.5	5.3	4.1	7.9	9.1	10.2	8.5	3.5	4.6	5	4.5	5	4.8	5.2	10.2	4.2	24
21	5	4.4	5.8	5.4	6.3	5.3	5.2	7.1	7.7	9.3	10.5	10.4	11.2	11.4	11.2	11.1	8.9	4.5	3.6	2.9	1.6	0.7	1.1	1.1	11.4	6.3	24
22	1.3	2.2	0.5	0.9	2.1	1.1	0.8	2.8	5.5	5.6	8.9	10	11.3	14.9	9.9	4.1	8.4	8	11.8	11.9	9.3	11.9	10	5.7	14.9	6.6	24
23	6.9	7.6	7.1	6.7	6.6	7.3	6.6	7	6.6	8.2	7.3	5.9	5.3	6.2	3	1.8	4.7	3.2	4.9	7	5.8	8.1	7.9	8.4	8.4	6.3	24
24	9.3	6.8	5.2	3.7	7	6.8	3.7	5.6	3.9	5	4.4	4.2	2	5.2	2.9	13.6	13.3	13.4	15.5	13.7	6.6	6.2	8.9	9.7	15.5	7.4	24
25	10.7	10.3	8.6	8.9	7.8	10.9	12.1	13.2	17.1	17.5	19.8	22.1	24.3	**27.6**	25.1	26.8	21.6	13.4	7	4.1	3.3	7.1	6.7	7.5	27.6	13.9	24
26	7.3	6.3	7.1	6.8	6.3	6.6	5.4	3.8	4.3	10.4	15.2	13.9	12.5	10.4	11.5	9	5.6	6.5	4.9	4	2.1	0.7	1.3	1.6	15.2	6.8	24
27	1	1.3	2.1	2.7	2.6	3.4	3.5	4.6	3.5	4.9	6.8	6.2	6	5.7	6	5.1	1.6	0.8	0.8	0.8	0.7	0.5	0.3	0.9	6.8	3.0	24
28	0.6	0.9	0.8	4.2	3.6	6.5	6.5	5.7	7.2	10.1	11.3	13.4	11.4	11.5	10.9	10	6	2.9	1.2	1.1	1.4	1.1	0.6	0.4	13.4	5.4	24
29	1	0.9	3.7	3.6	5.8	7.2	6.9	6.1	7.1	7.1	6.7	6.2	7	4.8	2.5	1.8	2.3	1.9	1.8	2.5	5.4	5.2	5.7	5.9	7.2	4.5	24
30	6.7	6.3	7.9	8.1	8.4	8.4	9	9.2	9.9	12.7	14.4	17.5	18.7	19	15.4	12.4	10.8	6.5	6.3	5.9	5.9	4.5	5	4.9	19.0	9.7	24
31	4.8	3.8	2.5	3.7	6.3	6.3	4.6	3.8	4.7	7.6	9	10.3	10.5	9.2	8.6	9.3	4.3	1.5	1.6	1.8	3.2	4.6	3	7.3	10.5	5.5	24
HOURLY MAX	12.7	10.5	12.3	11.2	8.4	10.9	17.8	14.4	17.1	20.6	23.6	23.6	24.3	27.6	25.1	26.8	21.7	17.7	18.2	15.0	13.1	16.7	15.4	13.4			
HOURLY AVG	4.9	4.3	4.5	4.5	4.8	5.0	5.2	5.9	6.7	7.9	8.9	9.6	10.1	10.6	10.1	9.5	8.5	6.4	5.7	5.6	4.7	5.2	4.9	4.9			

STATUS FLAG CODES

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



LAST CALIBRATION:	NA

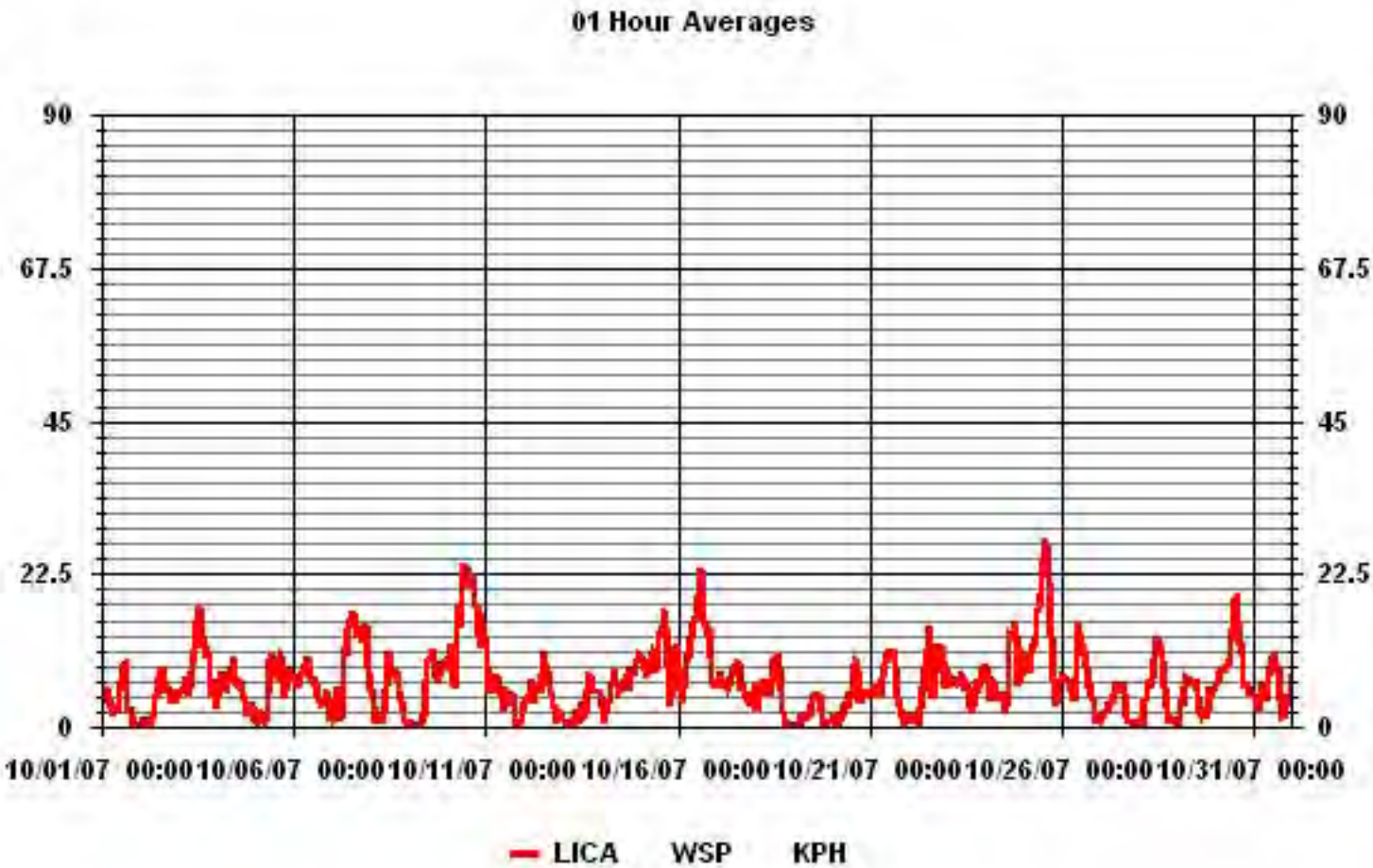
MONTHLY SUMMARY

MAXIMUM 1-HR AVERAGE:	27.6	KPH	@ HOUR(S)	14	ON DAY(S)	25
MAXIMUM 24-HR AVERAGE:	16.2	KPH			ON DAY(S)	10

CALMS (≤ 0 KPH)	2.29	%	OPERATIONAL TIME:	743	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	99.9	%
STANDARD DEVIATION:	4.81		MONTHLY AVERAGE:	6.61	KPH

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
90
67.5
45
22.5
0
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA WSP KPH

LICA
WSP / WD Joint Frequency Distribution (Percent)

October 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : WSP
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	.13	.67	.67	3.49	3.90	5.38	6.46	1.48	3.09	2.15	7.26	8.47	3.09	.80	.80	.94	48.85
<	12.0	.67	.40	.00	.00	2.01	6.46	8.07	.13	.67	.26	2.69	6.72	6.19	2.28	.53	.40	37.55
<	20.0	.00	.00	.00	.00	.00	.13	4.97	.00	.00	.00	.13	.40	.94	1.74	.67	.00	9.01
<	29.0	.00	.00	.00	.00	.00	.13	1.34	.00	.00	.00	.00	.00	.80	.00	.00	.00	2.28
<	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	.80	1.07	.67	3.49	5.92	12.11	20.86	1.61	3.76	2.42	10.09	15.61	11.03	4.84	2.01	1.34	

Calm : 2.28 %

Total # Operational Hours : 743

Distribution By Samples

Direction

	Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
<	6.0	1	5	5	26	29	40	48	11	23	16	54	63	23	6	6	7	363
<	12.0	5	3			15	48	60	1	5	2	20	50	46	17	4	3	279
<	20.0						1	37				1	3	7	13	5		67
<	29.0						1	10						6				17
<	39.0																	
>=	39.0																	
	Totals	6	8	5	26	44	90	155	12	28	18	75	116	82	36	15	10	

Calm : 2.28 %

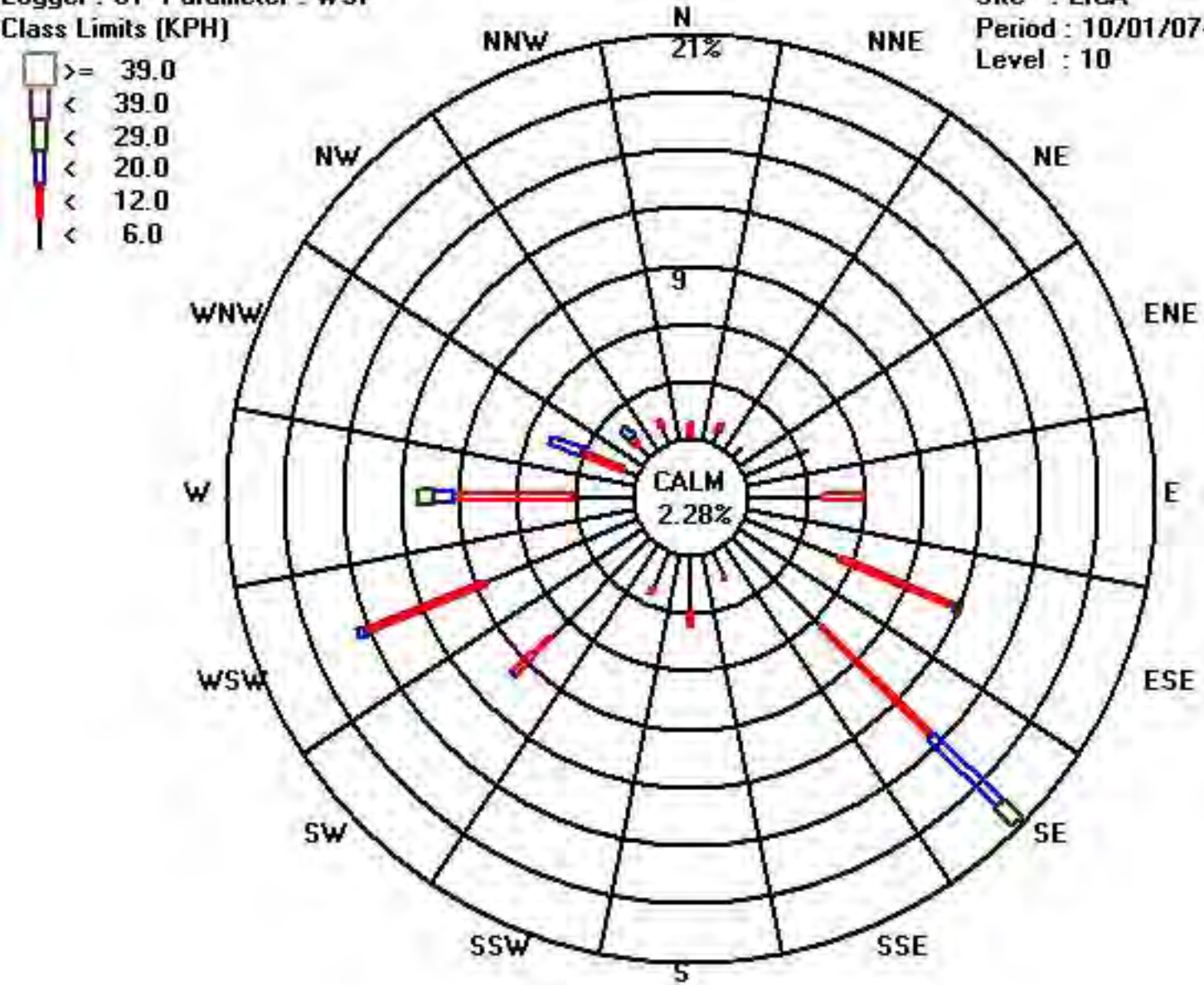
Total # Operational Hours : 743

Logger : 01 Parameter : WSP

Site : LICA

Period : 10/01/07-10/31/07

Level : 10



LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 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	9.2	6	6.5	9.4	9.1	7	4.4	3.9	5.7	5.6	7.7	10.9	10	15	13.4	8.9	6.9	4.5	5.3	3.2	2.1	1.5	1.2	1.9	15
	E	ENE	E	E	E	E	NE	ENE	ENE	WNW	WNW	NW	W	WSW	WSW	WSW	W	WSW	WSW	SSW	SSE	SSE	NNE	SE	WSW
2	1.5	3.4	3.5	3.9	2.4	2.9	2.2	3.6	7.4	9.6	9.2	13.5	12.9	12.9	14.8	11.7	8.6	8	9.3	10.5	9.9	7.2	6.6	6.4	14.8
	-	SW	WNW	W	E	SW	ESE	SSW	SSW	SW	WSW	WSW	SW	WSW	SW	WSW	SW	WSW	WSW	NW	SW	SW	SW	WSW	SW
3	7	7.5	7.7	7.8	9.5	7.5	6.7	8.8	13.5	15.4	23.1	22.5	22.6	26.2	25.4	22.3	19.1	15.8	16.5	17.1	7.5	13.7	9.5	6	26.2
	WSW	WSW	SW	WSW	WSW	WSW	WSW	SW	-	WSW	WSW	WSW	WNW	WSW	NW	WNW	NW	NW	NW	NW	NNW	N	NNW	NNE	WSW
4	8.4	10.1	12.6	12.5	9.5	8.6	8.5	10	12.7	13.9	14.9	13.8	12.5	11.2	15.1	10.6	7.8	6.7	6.8	4.2	4.8	5.4	4.6	3.5	15.1
	-	N	N	NW	-	NNW	-	WNW	NW	N	NNE	NNE	NNE	N	NE	N	ENE	NNE	-	NE	ESE	E	ESE	ESE	NE
5	2.8	2.2	3.2	5.1	5	3	3.4	4.3	8.6	16.2	18.3	13.1	14.8	16.8	18.1	17.3	15.8	10.8	7	9	12.4	10.9	9.4	9.9	18.3
	ENE	N	ESE	E	SE	ESE	ESE	E	SE	SE	SE	SE	SE	SE	SE	SE	ESE	-	SE	ESE	SE	SE	SE	SE	SE
6	10.7	8	10.4	8.7	10.2	11.7	12.3	14.1	14.8	16.7	14.2	10.8	12.1	14.1	15.3	11.3	6.9	6.5	5.6	5.9	8	6.7	3.3	4.2	16.7
	SE	SE	SE	SE	ESE	-	ESE	ESE	ESE	SE	SE	SE	SSE	SE	SW	SSW	-	S	SE	SE	SE	SE	SSE	SE	SE
7	4.2	3.7	5.9	8.2	4.4	3	12.7	15.1	15.5	16.1	19.8	22.2	23.9	24	24.1	22.1	21.4	23.1	18.8	20.2	18.4	19.9	14.5	14.4	24.1
	SE	ESE	SE	SE	ESE	-	SE	ESE	SE	SE	SE	SE	SE	SE	SE	-	SE	-	SE	SE	SE	-	SE	ESE	SE
8	14	8.3	7.7	4.8	2.6	3.7	5.3	3.8	4.1	12.8	11.5	17.6	15.2	12.4	15.9	14.4	12.5	11.3	7.2	6.1	4.6	4.7	2.3	2.4	17.6
	-	E	E	-	SW	W	SW	-	W	NW	NW	WSW	WNW	WNW	NW	NW	WSW	WSW	W	W	W	SW	SSW	ESE	WSW
9	4.5	3.7	2.3	1.7	2.4	2.5	1.3	1	2.3	6.8	12.4	16.2	17.3	16.5	19.9	16.8	19.1	10.6	8.7	13.2	12.2	15.5	15.1	14	19.9
	-	SW	-	NE	-	SW	NE	SW	SE	ESE	ESE	SE	SE	-	SE	SE	ESE	SE	ESE	ESE	ESE	ESE	SE	ESE	SE
10	12.1	15	15.7	16.9	9.3	19.2	25.8	23.1	27.4	29.9	32.8	32.1	32.4	32	30.6	33.2	32	27.8	27.3	24.8	20.6	21.7	26.9	23	33.2
	-	SE	ESE	SE	E	SE	SE	SE	ESE	SE	SE	SE	SE	SE	-	SE	ESE	SE	SE	ESE	SE	SE	-	SE	SE
11	18.3	12.8	9.4	8.7	11	11.7	11.5	12.8	11.3	8.2	8.3	5.3	9.1	10.6	8.2	6.7	8	6.9	2	2.3	2.9	2.3	2	5.7	18.3
	SE	SE	ESE	SE	SE	SE	ESE	SE	SE	SE	SE	S	WSW	SW	SW	SW	SW	WSW	WNW	E	E	N	SW	WSW	SE
12	5.8	6.9	7.3	9.5	9.4	8	6.1	7.9	8.9	10.2	8.6	14.1	15.7	16.1	13.3	10.3	7.1	7.2	5.7	4.3	1.9	5.1	6.6	2.8	16.1
	WSW	WSW	SW	-	SW	SW	WSW	SW	WSW	WSW	SW	WSW	WNW	WSW	W	-	WSW	SW	SW	WSW	WSW	WSW	WSW	SSW	WSW
13	4.3	3.3	2.7	4.3	3.5	6.1	4.1	4.7	2.7	7	8.2	9.5	6.7	6.3	7.9	9.6	11.8	10	8.2	7	7.4	0	8.8	7.7	11.8
	-	SSW	S	ESE	SE	WNW	WNW	SE	WNW	WSW	SE	WSW	WNW	WSW	E	SE	SE	ESE	SE	SE	SE	-	SE	SE	SE
14	6.5	5.9	1.4	3.4	6.2	7.5	8.8	9.4	11.7	12.4	11.9	8.4	10.7	14.1	16.8	13.1	11.6	7.9	11.6	10.9	11.1	12	12.2	13	16.8
	SE	SE	E	ESE	SE	SE	ESE	SE	SE	SE	SE	SE	SSW	SW	SW	SE	SE	ESE	SE	SE	SE	ESE	ESE	SE	SW
15	12.7	14.3	11.8	12.9	10.2	12.1	13.8	15.2	14.7	16.5	15.7	17.6	19.4	21.2	21.6	23	19.9	13.2	5.8	8	6.2	11	16	15.4	23
	SE	-	SE	ESE	SE	-	SE	-	SE	-	SE	SE	SE	SE	SE	ESE	SE	SE	ESE	SE	-	SE	SE	SE	ESE
16	14.8	10.6	7.1	12	11.1	13.3	14.8	14.9	18.4	22.3	22.1	23.8	27.3	29.4	31.7	32.1	24.9	21	20.7	21.3	17.3	12.7	11.4	9	32.1
	SE	ESE	ESE	ESE	ESE	-	ESE	ESE	-	SE	SE	ESE	SE	SE	SE	ESE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE
17	8.8	10.5	13.3	11.3	9.9	9.6	9.3	9.1	8.9	12.3	14	12.8	14.4	15.4	14	11.4	11.3	7.3	7.7	6.3	6.4	5.5	6.1	10	15.4
	E	ESE	E	ESE	E	E	E	E	E	SE	SE	ESE	ESE	SE	SE	SE	SW	SW	W	WSW	WSW	WSW	W	WSW	SE
18	10.9	9.6	9.9	6.5	9.4	9	6.4	8.6	9.9	9.7	9.7	10.9	15.9	16.6	19.4	13.7	10.9	4.3	1.3	1.5	2.4	2.5	1.8	3.6	19.4
	WNW	W	W	-	-	-	WSW	WSW	W	WNW	WNW	W	-	WNW	NW	W	W	WSW	SSE	ENE	SW	SW	SW	W	NW
19	2.2	3.1	3.8	3.5	4.1	4.3	3.3	4.4	3.4	4	5.8	5.5	8.9	6.1	9	6.4	8.3	6.3	3.3	2	5.3	4.2	2.9	2.2	9
	ENE	SW	SW	SSW	SSW	ENE	NE	ENE	ENE	ENE	ESE	ENE	ESE	ESE	ENE	NE	ENE	-	WNW	SSW	-	WNW	NNE	SE	ENE
20	2.8	5.9	3.5	3.2	3.1	2.8	4.7	6.3	5.1	6.7	5.5	8.4	10.3	12.8	16.8	16.3	16.5	8.8	6.8	6.8	8.1	7.2	6.1	6.6	16.8
	E	NW	WSW	WSW	W	WSW	W	WSW	SW	SW	SW	W	WNW	W	-	W	WNW	-	WSW	WSW	WSW	WSW	WSW	WSW	-
21	6.4	7	8.5	7.5	8.8	7.8	8	11.1	10.9	14	15.1	14.7	15.7	16.8	17.2	16.3	13.2	7.7	7.3	5.9	4.1	1.6	2.3	2.1	17.2
	WSW	WSW	WSW	SW	WSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	W	WSW	W	WSW	WSW	SW	-	SW	S	ESE	ENE	WSW
22	2.7	4.5	3.5	3.6	6.2	4.2	3.1	7.8	7.7	9.8	12.9	16.2	16.8	24.8	16.5	14.3	12.3	18.6	21.3	21.7	16.7	21.6	16.3	8.8	24.8
	ESE	SE	SW	WSW	SSW	SW	SSW	SW	SW	SW	SW	WSW	WSW	WSW	WNW	W	WSW	WSW	WNW	WSW	-	WNW	WNW	W	WSW
23	9.3	10.8	9.1	9.2	8.6	11.9	9.7	11.5	9.8	12.2	11.1	11.6	9.4	11	8.5	6.7	7.9	5.1	9.5	9.4	9	11.9	10.6	11.7	12.2
	W	W	WSW	-	WSW	W	W	WNW	W	W	WSW	WSW	WSW	SSW	WSW	ESE	SE	E	SE	ESE	-	SE	ESE	SE	W
24	11.8	10.1	7.8	6.9	11.4	11.6	6.8	9.3	7.6	8.4	8.9	8.6	13.4	18.9	10	20.5	26.7	22.8	30.4	31.2	16	10.6	13.3	13.6	31.2
	SE	ESE	SE	ESE	SE	SE	SE	SE	SE	SE	SE	SE	NNW	NW	NNW	NW	WNW	WNW	NW	-	WSW	WSW	WSW	W	-
25	14.7	14.6	15.1	12.6	11.6	14.3	17.2	19.5	23.5	25.5	28.1	32.4	36.2	38.9	36.3	**47.4**	33.7	20.5	13.2	5.7	8.6	13.1	9.7	11	47.4
	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	**W**	W	W	W	-	WSW	WNW	W	WSW	W
26	10.1	9.9	11.1	11.2	11.3	14.5	9	5.5	12.4	16.9	22.8	19.6	21	19.3	18.2	13.9	14.6	8.1	7.2	5.7	3.8	2.3	2.7	4	22.8
	WSW	WSW	WSW	SW	WSW	NW	SW	-	NW	NNW	NNW	WNW	NW	WNW	NW	WNW	WNW	WSW	WSW	SW	SW	W	SSW	ESE	NNW
27	3.2	4.5	4.9	5.4	5.4	5.8	6.4	7.7	6.9	9.7	12.4	14.2	12.2	12.3	11.7	10.9	6.9	3	3.2	4.2	4.3	3.5	4.6	3.6	14.2
	SSE	SSW	SE	SSE	SE	SE	SE	SE	SE	SSW	SW	SW	SW	SSW	SW	S	SSE	ESE	ESE	WNW	SE	NNW	NNW	S	SW
28	3	3.8	3.1	6.4	7.7	8.9	9.7	9	13	14.6	17.3	19	15.6	19.2	18.9	15.8	9.5	5.6	3.6	2.3	2.4	5.1	2.2	1.8	19.2
	S	SSW	SW	WSW	WSW	WSW	SW	SW	-	W	W	WSW	WNW	W	W	WSW	WSW	SW	SW	SE	NE	NE	NE	ESE	W
29	3	2.7	6.4	5.8	10.6	12.8	10.6	11.2	11.9	12.5	11.2	9.9	11	8.8	7.8	4.9	5.4	4.4	3.8	6.6	9.4	8.1	8	9.3	12.8
	NNE	NE	-	E	E	-	E	E	ENE	E	-	E	E	ENE	ESE	WNW	NW	SW	WNW	WSW	-	SW	WSW	W	-
30	10.3	8.7	11.5	12.6	11.8	12.8	14	13.4	14.8	22.9	20.3	24.7	27.5	30.9	25.1	21	26.5	9.3	8.5	8.2	7.7	6.9	8.5	7.5	30.9
	W	WSW	WSW	W	WSW	WSW	WSW	W	W	-	WNW	WNW	WNW	NW	WNW	WNW	WNW	WSW	SW	SW	WSW	WSW	SSW	SW	NW
31	6.6	5.6	5.3	5.9	10.1	9.5	8	8	7.6	13	14.6	17.9	16	14.2	15.7	14.2	11.2	3.8	3.6	3.3	6	7	7	9.3	17.9
	SW	SW	SW	SW	SW	-	WSW	SW	SW	SW	SW	WSW	WSW	WSW	SW	SW	SW	SW	-	SSW	SSW	SSW	SW	SSW	WSW
PEAK	18.3	15.0	15.7	16.9	11.8	19.2	25.8	23.1	27.4	29.9	32.8	32.4	36.2	38.9	36.3	47.4	33.7	27.8	30.4	31.2	20.6	21.7	26.9	23.0	
	SE	SE	ESE	SE	WSW	SE	SE	SE	ESE	SE	SE	WSW	WSW	WSW	WSW	W	W	SE	NW	-	SE	SE	-	SE	

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**

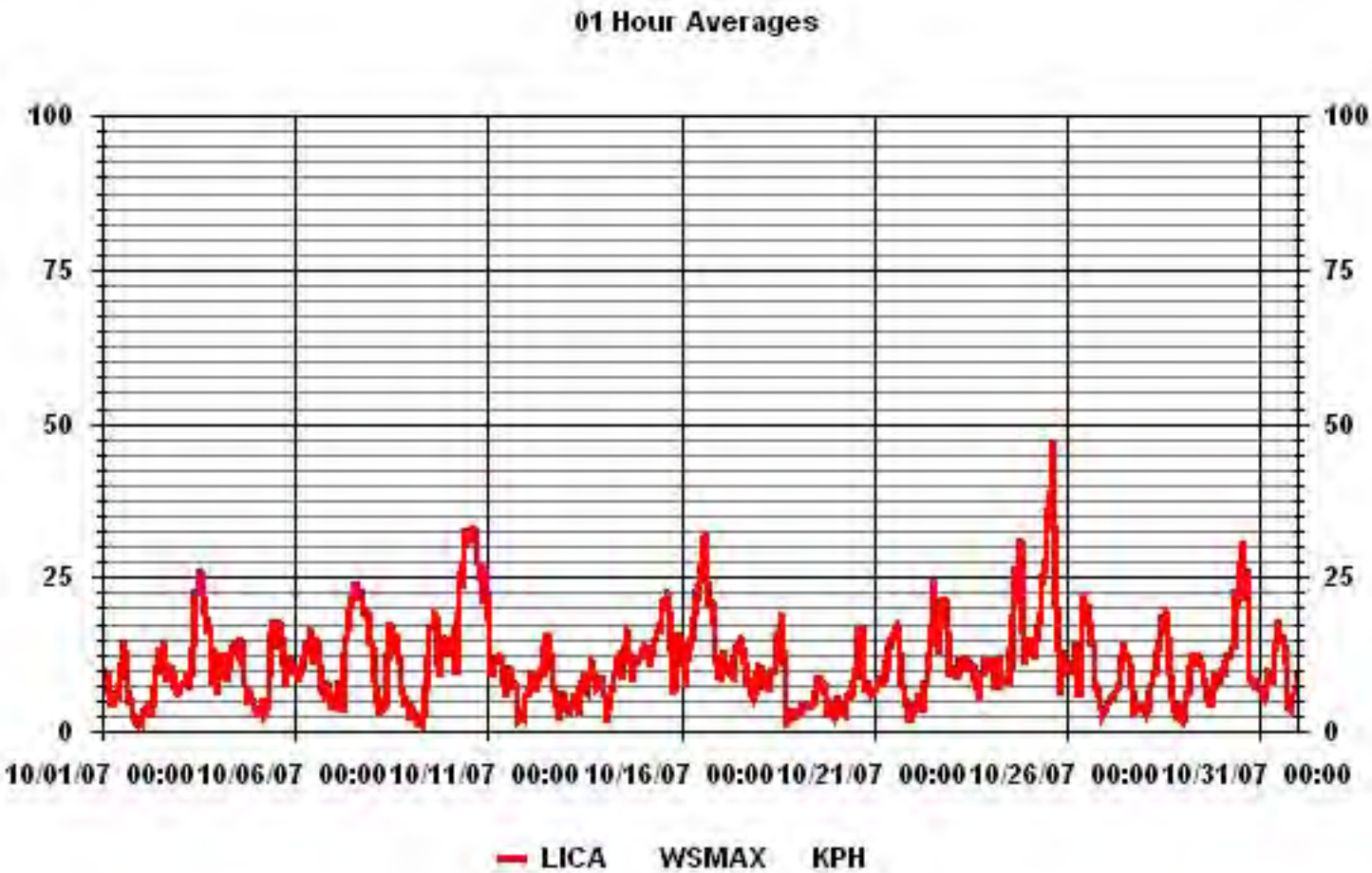
NOTE: WIND DIRECTION CORRESPONDS TO WIND SPEED MAXIMUMS

MONTHLY SUMMARY

MAXIMUM INSTANTANEOUS READING	47.4	KPH	@ HOUR(S)	16
		DEG	ON DAY(S)	25

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
100
75
50
25
0
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA WSMAX KPH

VECTOR
WIND DIRECTION

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 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	93	71	67	74	81	77	65	66	60	299	269	310	284	262	255	265	283	268	238	199	146	165	40	172	301	WNW	24
2	131	187	253	295	96	226	105	147	211	229	229	238	243	241	235	239	224	242	272	287	228	229	244	235	237	SW	24
3	250	238	230	232	245	240	234	231	240	256	263	267	283	281	295	291	296	310	324	331	336	357	348	345	281	W	24
4	322	355	358	327	323	328	310	308	322	352	7	25	15	23	32	31	41	26	47	67	109	107	107	102	2	N	24
5	83	82	115	95	139	115	74	99	102	119	116	114	104	119	118	118	127	121	120	125	127	128	127	126	118	ESE	24
6	127	125	127	129	124	123	122	122	129	134	142	140	142	141	207	188	179	156	132	130	133	130	138	131	136	SE	24
7	145	112	119	127	142	123	125	128	130	132	132	135	133	134	133	135	133	131	124	125	125	129	124	114	129	SE	24
8	116	105	106	99	238	253	201	179	250	308	329	272	271	272	294	292	262	259	260	259	236	238	199	145	268	W	24
9	178	248	196	114	143	175	64	200	82	111	125	127	115	119	117	118	122	121	114	119	119	119	121	120	120	ESE	24
10	114	120	122	118	99	102	126	124	125	131	127	125	127	128	126	124	123	127	127	128	134	134	130	129	125	SE	24
11	128	127	123	110	128	130	129	132	138	136	135	171	238	238	233	237	227	244	163	109	102	74	204	255	150	SSE	24
12	251	240	240	234	234	233	234	231	236	244	249	259	270	261	260	254	230	219	228	246	190	213	255	174	244	WSW	24
13	193	110	158	147	172	202	238	136	276	238	156	277	34	208	91	111	127	128	131	134	132	M	132	128	137	SE	23
14	133	141	94	126	121	137	124	126	125	127	133	148	188	187	184	157	137	131	128	127	125	122	125	127	136	SE	24
15	124	123	127	128	125	123	122	120	122	125	115	116	127	132	128	126	128	127	100	121	95	119	127	132	124	ESE	24
16	126	109	97	117	115	122	119	122	127	128	129	128	128	127	128	128	129	125	124	124	119	113	108	97	123	ESE	24
17	98	107	98	90	89	93	93	88	94	113	127	125	125	128	129	136	220	238	258	238	247	242	263	259	125	SE	24
18	293	346	262	238	243	254	245	257	257	280	289	284	288	283	303	272	261	234	160	106	219	243	72	92	272	W	24
19	81	205	75	57	240	57	74	77	70	64	88	88	107	90	73	52	75	104	202	190	75	278	27	67	79	ENE	24
20	103	268	227	201	255	227	244	238	237	246	242	245	269	280	267	268	288	268	262	245	248	249	250	250	258	WSW	24
21	246	239	238	240	238	236	222	223	233	254	248	256	259	262	264	254	242	240	215	240	203	144	120	91	244	WSW	24
22	112	128	201	194	211	184	186	226	230	225	229	244	261	270	292	256	252	257	278	285	281	289	288	267	262	W	24
23	258	256	259	255	260	263	267	279	261	264	261	244	245	221	232	127	121	98	118	124	122	125	124	124	225	SW	24
24	127	124	123	110	125	123	127	128	126	128	126	114	318	2	27	319	308	292	295	298	247	248	251	266	270	W	24
25	252	255	231	234	234	232	236	237	253	262	258	263	265	265	271	270	275	273	268	258	249	278	267	263	259	WSW	24
26	255	254	239	235	248	267	231	239	288	331	319	319	313	299	298	291	268	244	239	226	228	220	167	121	280	W	24
27	161	179	139	168	141	134	144	138	148	177	195	182	177	174	191	179	170	171	135	143	75	106	249	131	165	SSE	24
28	146	229	246	232	240	242	237	235	244	256	260	266	273	269	274	252	244	232	225	79	59	102	44	83	254	WSW	24
29	77	68	60	96	92	96	87	79	80	82	103	89	83	97	132	96	332	263	263	248	273	233	260	266	92	E	24
30	255	255	259	263	259	254	260	264	259	284	283	281	283	296	300	300	288	248	232	228	238	222	215	227	270	W	24
31	222	231	214	238	232	239	231	221	215	225	236	247	242	239	231	227	220	190	183	202	207	208	214	226	228	SW	24
HOURLY AVG	322	355	358	327	323	328	310	308	322	352	329	319	318	299	303	319	332	310	324	331	336	357	348	345			

STATUS FLAG CODES

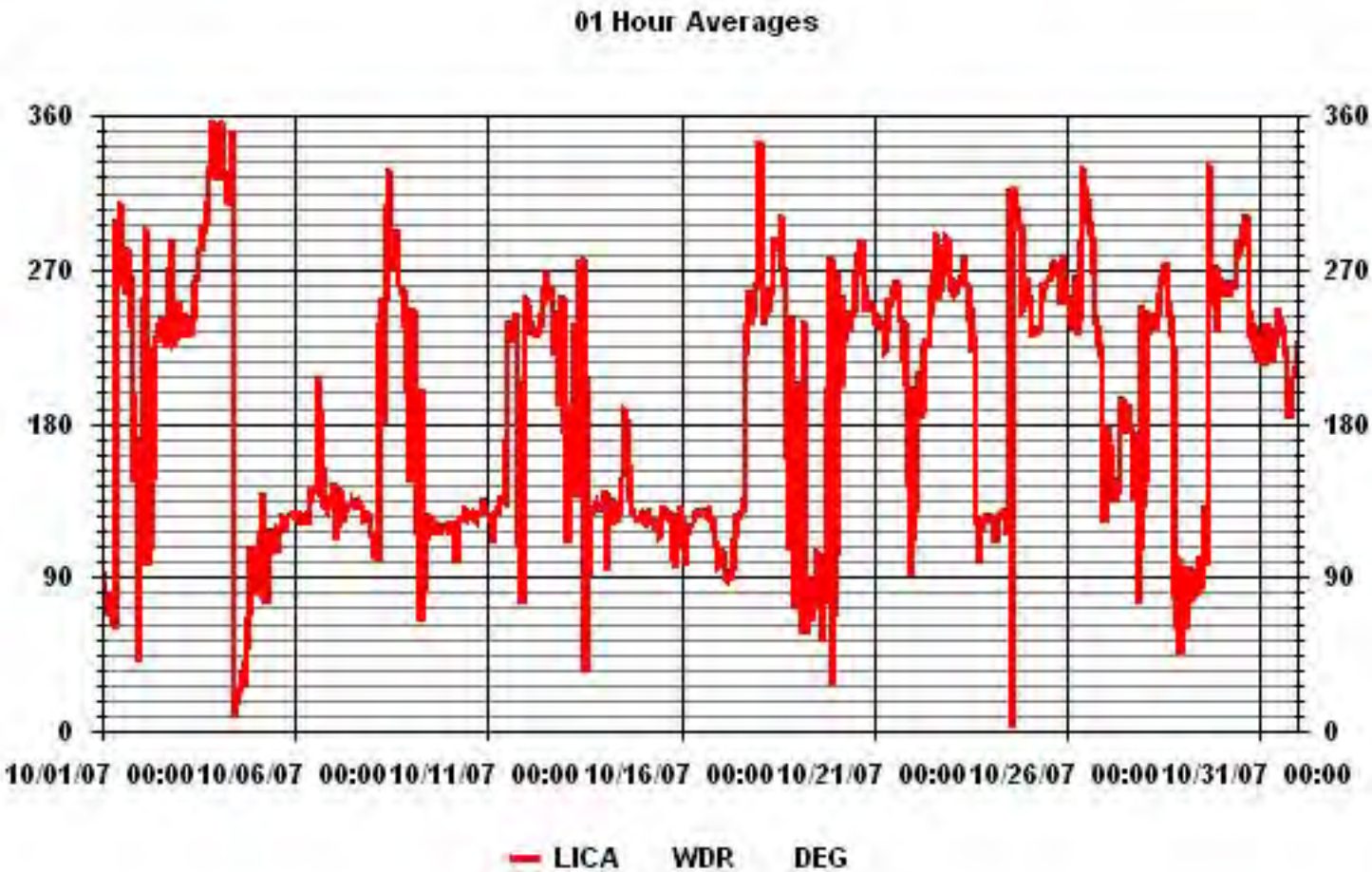
S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MISSING DATA
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

LAST CALIBRATION:	NA
DECLINATION :	19 DEGREES FROM MAGNETIC NORTH

MONTHLY CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	743	HRS
STANDARD DEVIATION	75.76		AMD OPERATION UPTIME	99.9	%
			MONTHLY AVERAGE	188.00	DEG

Maxxam Analytics Inc

MOUNTAIN STANDARD TIME


01 Hour Averages
360
270
180
90
0
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA WDR DEG

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 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	18	20	24	14	18	17	18	30	26	56	38	31	19	19	16	19	44	17	14	16	66	65	47	31
2	46	21	22	45	28	35	74	41	39	24	38	24	22	21	22	27	17	12	15	23	25	15	17	15
3	11	11	12	11	9	10	10	14	17	21	21	20	18	18	17	22	16	13	15	15	18	19	17	21
4	16	18	17	13	13	14	12	13	16	21	21	23	30	31	23	26	24	17	17	30	35	16	17	23
5	28	34	32	38	34	49	50	36	22	19	20	24	27	22	23	20	15	15	12	13	11	11	11	11
6	12	11	10	12	12	13	13	15	15	20	30	24	28	27	33	39	35	30	17	15	14	17	65	44
7	62	53	19	12	34	36	19	11	13	17	15	20	16	19	17	18	15	13	13	14	14	13	16	18
8	26	20	16	76	33	21	51	34	21	19	25	23	25	33	25	27	18	15	15	13	18	45	45	40
9	59	49	63	40	72	47	61	73	41	41	24	20	21	22	21	19	14	14	17	15	16	16	15	16
10	18	15	14	15	20	18	12	15	15	15	14	14	14	13	15	15	14	14	14	13	16	15	15	16
11	13	14	14	19	14	14	13	15	22	25	18	31	23	22	29	35	22	22	40	35	30	44	26	17
12	9	11	14	15	11	10	14	11	14	20	30	23	22	23	21	21	14	13	13	8	44	40	28	47
13	47	51	44	43	65	52	29	41	80	52	59	48	48	31	60	23	12	10	11	11	11	**M**	10	10
14	12	36	54	14	14	21	11	11	12	16	23	37	39	39	38	32	17	14	12	12	12	11	11	10
15	10	11	11	11	11	12	13	14	13	14	18	22	15	21	14	13	11	12	22	11	16	16	12	13
16	19	20	28	16	17	12	13	14	14	14	15	15	14	13	13	13	14	13	14	13	18	21	23	25
17	18	23	18	18	15	17	17	17	21	21	19	19	20	19	17	25	28	15	16	12	20	16	15	14
18	18	29	15	11	11	13	14	15	14	21	22	26	22	23	18	20	16	10	46	38	44	45	62	43
19	68	51	55	66	75	25	21	25	45	43	39	24	19	19	16	18	18	18	51	51	61	35	44	40
20	32	34	25	27	43	23	27	17	18	21	14	20	30	20	22	18	17	17	15	9	11	9	9	10
21	8	12	9	10	12	12	14	14	16	18	18	21	21	20	19	17	15	14	18	21	35	35	46	35
22	34	37	61	55	32	52	60	44	16	17	17	17	19	21	16	35	16	16	18	17	18	15	16	16
23	15	15	15	13	16	17	17	17	16	17	18	29	30	23	49	47	17	19	16	11	15	11	13	13
24	10	14	13	17	13	14	19	13	21	21	20	30	52	37	27	15	14	18	17	18	36	16	14	17
25	14	13	15	14	15	16	16	16	16	19	17	19	20	19	19	19	18	19	17	13	17	18	16	16
26	13	13	13	17	15	22	16	14	18	18	18	18	19	22	18	17	15	10	12	14	24	44	30	39
27	57	58	45	45	40	27	33	31	37	38	39	36	39	40	38	36	46	43	66	30	68	55	67	51
28	49	57	54	11	12	10	14	14	16	17	19	18	20	20	20	16	13	15	32	22	17	42	50	49
29	42	31	14	16	18	20	16	16	17	18	23	22	18	23	37	44	33	25	31	41	16	16	15	17
30	15	15	15	16	16	14	15	16	16	17	18	19	19	17	15	14	17	12	15	13	12	14	15	14
31	13	13	19	17	14	16	17	19	16	18	18	18	17	17	17	16	18	32	31	44	24	21	29	17

STATUS FLAG CODES

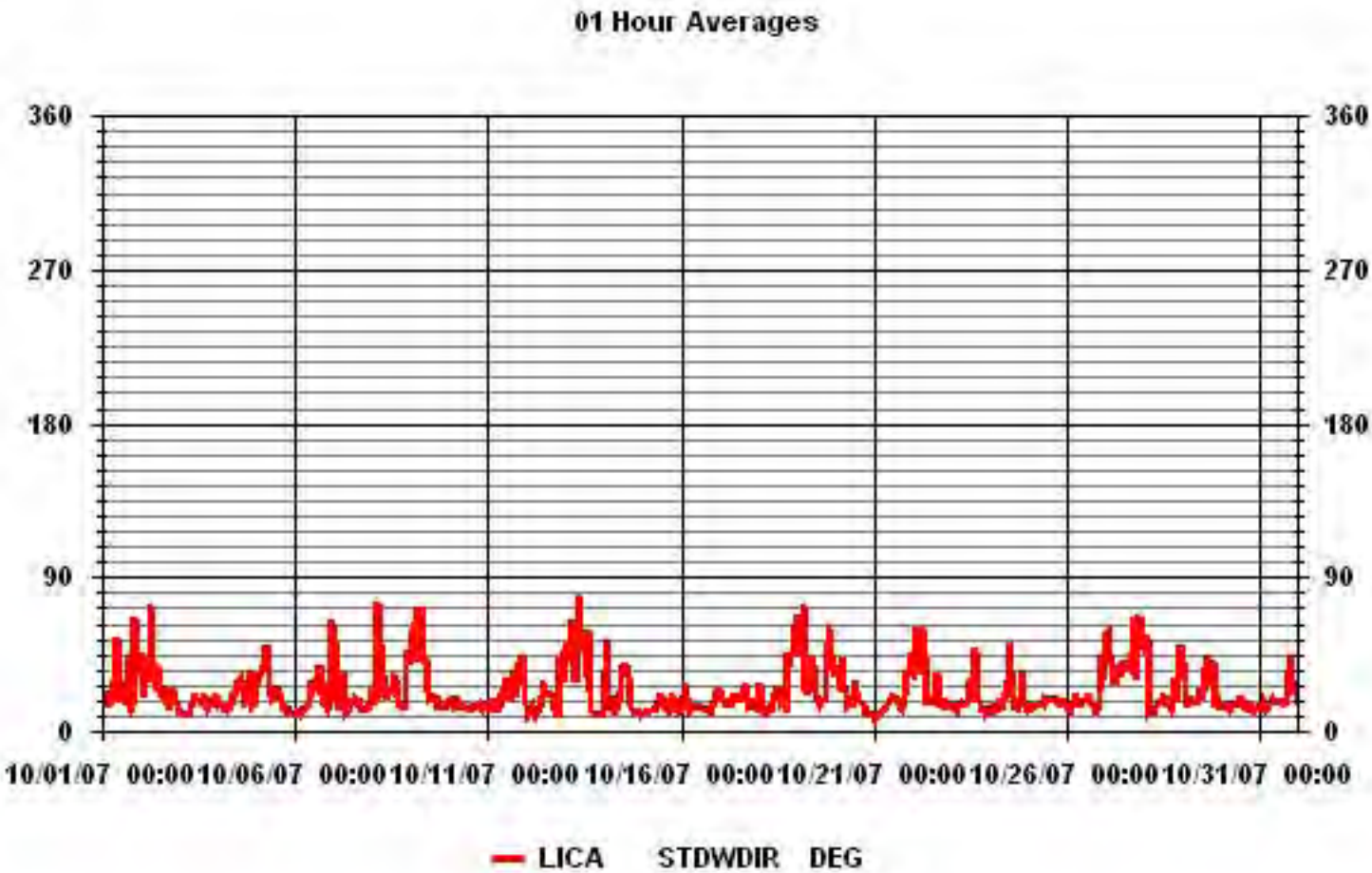
S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MISSING DATA
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

LAST CALIBRATION: NA

CALIBRATION TIME: 0 HRS OPERATIONAL TIME: 743 HRS

Maxxam Analytics Inc

MOUNTAIN STANDARD TIME


01 Hour Averages
360
270
180
90
0
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA STDWDIR DEG

TEMPERATURE

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 2007

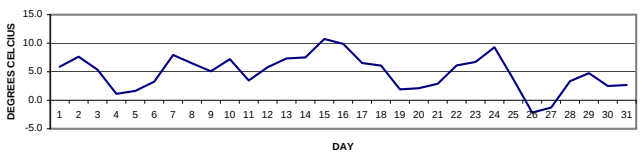
AMBIENT TEMPERATURE hourly averages (Degrees C)

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.	RDGS.
DAY																											
1	5.9	5.4	5.6	5.1	5	4.3	3.5	4.3	6.1	8	9	9.7	10	10	8.2	8.4	9.4	9.3	7.2	4	2.3	0.9	0	-0.7	10.0	5.9	24
2	-1.2	-1.5	-1.5	-1.8	-0.8	0	0.3	2	6.6	8.5	11	13.2	13.7	14.5	15.2	15.7	14.1	13.3	12.3	11.6	10.8	10.2	9.1	8	15.7	7.6	24
3	7.4	5.8	4.9	3.5	2.1	1	0.2	1.2	3.8	6.3	8.2	9.5	9.6	9.5	8.2	8.4	7.4	6.3	5.7	4.9	3.7	4.1	3.7	3.2	9.6	5.4	24
4	2.4	2.6	2	1.7	1.4	1.3	1.1	1.1	1.3	1.9	2	2	2.4	2.5	2.4	2.4	2.5	1.7	0.5	-0.6	-1.6	-1.3	-1.7	-3	2.6	1.1	24
5	-3.9	-4.8	-5.4	-4.3	-5.4	-5.3	-6.7	-4.9	-0.5	1.3	2.9	4.4	5.9	7.2	8.2	8.9	8.9	7.6	5.4	4.3	4.1	3.7	3.9	3.8	8.9	1.6	24
6	3.4	2.6	1.6	1	0.7	1.1	1.7	2.3	3.4	4.1	4.3	4.8	5.3	5.9	6.2	6.1	6.5	5.7	3.8	2.1	2.2	1.6	1.1	0.5	6.5	3.3	24
7	0.2	-1.1	-1.5	0.5	-0.7	-2.1	-1.6	1.1	2.8	6.7	10.3	13.1	14.7	15.6	16.9	17.3	16.8	15.1	13.5	12.5	11.1	10.6	9.7	9.1	17.3	7.9	24
8	8.1	5.9	4.1	2.3	0.5	0.2	1.3	2.3	4.3	7.7	10.7	11.5	12.7	13.8	14.3	14.5	13.5	10.9	8.5	6.6	3.6	0.9	-0.8	-1.9	14.5	6.5	24
9	-2.7	-3.3	-3.9	-4.6	-5.1	-5.5	-5.9	-4.4	2.1	6.4	9.7	11.9	13.1	13.6	14.1	14.2	12.9	11.6	10.5	9.5	8.1	7.2	6.5	6	14.2	5.1	24
10	5.2	5	4.5	4	2.5	2.2	5	4.9	5.8	7.1	7.7	8.9	9.9	10.3	11.3	12	11.1	10.2	9.5	8.5	7.8	7.2	6.5	6	12.0	7.2	24
11	5.3	4.9	4.2	3.9	4	4	4.1	4.1	4.1	4.3	4.2	4	3.8	4.1	4.8	5.4	5.7	5.8	4	1.6	0.3	-0.3	-1.1	-2	5.8	3.5	24
12	-1.9	-1.9	-0.9	-1.5	0	-0.4	-1.3	-0.2	2.3	5.3	8.5	10.8	12.4	13.2	13.5	12.9	11.6	10.7	9.6	8.3	7.5	6.6	7.3	6.5	13.5	5.8	24
13	6.6	6.7	5.8	5.8	6.3	4.7	3	3	5	9.1	10.2	11.1	11.9	12	13	12.4	11.5	9.3	7.2	5.8	4.5	4	3.8	3.2	13.0	7.3	24
14	2.5	2	0.2	-0.8	0	0	0	1.3	3.3	5.6	9.2	12.6	14.4	15.7	16.2	16.3	15.3	13	11.3	10	8.9	8.1	8	7.1	16.3	7.5	24
15	6.4	6.5	6.5	5.8	5.3	5	4.8	5.1	5.5	7.5	9.6	14.2	16.9	**18.3**	18	17.6	17.5	15.9	13.7	12.6	11.5	11.1	11.5	11.1	18.3	**10.7**	24
16	10.3	8.8	7.6	7.1	6.6	5.6	5.2	5.3	6.7	8.3	10.3	12.3	14.3	15.2	15.4	15.2	14.2	12.6	11.3	10.5	9.6	8.8	8.2	7.6	15.4	9.9	24
17	6.4	6.2	5.6	5.1	4.5	4.2	4.2	3.7	4.6	5.5	6.4	7.7	9	9.2	8.9	9.1	8.2	7.7	7.6	7.4	7	6.4	6.3	5.8	9.2	6.5	24
18	6.1	6.3	6.2	5.9	5.7	5.4	5.1	4.9	5.4	6.8	8	10	11.3	12.4	12.8	12.9	11.9	8	3.9	1.6	-0.1	-1	-1.6	-2	12.9	6.1	24
19	-2.5	-3	-3.4	-3.6	-3.2	-2	-1.6	-0.6	1.1	3.3	5	6.2	6.4	6.4	6.5	7.4	7.4	6.5	4.8	2	0.7	0.8	0.8	0.4	7.4	1.9	24
20	-0.8	-2.1	-2.6	-3.1	-3.4	-4	-4.4	-3.6	-1.6	0.7	3.5	6	8.3	8.9	9.7	9.2	7.8	6.6	5.1	3.6	2.2	1.4	1.6	1.7	9.7	2.1	24
21	1.5	0.8	0.2	0	0.4	0.7	0.6	-0.3	0.4	3	5.2	6.7	8.1	9.1	9.6	9.4	8.4	5.9	3	1.7	-0.5	-1.5	-1.5	-1.5	9.6	2.9	24
22	-0.3	0.9	-0.5	-1.1	-1	-0.4	-0.4	0	3.7	5.4	7.8	10.2	11.8	12.7	12.4	12	11.9	11.3	10.8	9.7	8.8	8	6.8	6.1	12.7	6.1	24
23	5.4	5.3	4.7	4.1	4.2	4.7	4.8	4.9	5.2	6.1	6.9	8.1	8.6	8.7	8.7	9.4	8.9	8.3	7.8	7.4	7.1	7.7	7.5	6.6	9.4	6.7	24
24	6	5.6	5.1	5	4.7	4.7	4.5	4.3	5	7	10	13	17.7	17.3	17.2	17	15.5	13.8	11.9	7.3	7.2	7.7	7.8	7.6	17.7	9.3	24
25	6.1	4.8	3.2	2	1.7	2.1	2.1	2.1	3.4	4.5	5.1	6.1	6.7	6.9	6.5	5.9	5.4	4.5	3.3	2.2	1.2	1.9	1.2	0	6.9	3.7	24
26	-0.8	-1.5	-2.6	-2.5	-2.1	-2	-2.1	-1.9	-1.4	-0.8	-0.6	-0.5	-0.1	0.3	0.4	0.6	0	-1.6	-2.8	-3.7	-5	-6.8	**-7.5**	-6.9	0.6	-2.2	24
27	-6.5	-6.4	-6.2	-5.9	-5.8	-5.6	-5.2	-5	-3.7	-1	1.4	3	3.7	4.1	4.4	3.7	2.5	0.3	0.6	-0.3	-0.5	-0.6	-1.1	-0.7	4.4	-1.3	24
28	-1.1	-1.6	-2.4	-2.6	-3	-1.2	-0.1	0.4	2.5	5.9	7.5	8.7	10	11	11.1	10.4	8.6	5.8	2.8	1.4	1.9	2.1	1.8	0.4	11.1	3.3	24
29	0.1	1.1	2.8	4.3	4.5	4.5	4.3	4.2	4.5	5.5	7	7.3	7.1	7.7	8	6.5	5.7	5	4.5	3.8	4.1	4	3.9	3.7	8.0	4.8	24
30	3.7	3.3	3.3	3.2	2.9	2.1	1.5	0.7	1	2	3.5	4.6	5.2	5.3	5.5	5.3	5	3.1	2	0.9	0	-0.8	-1.7	-1.6	5.5	2.5	24
31	-2.2	-2.3	-3.1	-2.7	-1.4	-0.6	-0.3	0	0.7	2.5	5.1	7.2	8	8.4	8.8	8.4	6.6	3.4	1.2	2.1	2.2	3.9	4	4.3	8.8	2.7	24
HOURLY MAX	10.3	8.8	7.6	7.1	6.6	5.6	5.2	5.3	6.7	9.1	11.0	14.2	17.7	18.3	18.0	17.6	17.5	15.9	13.7	12.6	11.5	11.1	11.5	11.1			
HOURLY AVG	2.4	2.0	1.4	1.2	1.0	0.9	0.9	1.4	3.0	5.0	6.8	8.3	9.4	10.0	10.2	10.2	9.4	8.0	6.5	5.1	4.2	3.8	3.4	2.9			

STATUS FLAG CODES

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

24 HOUR AVERAGES FOR OCTOBER 2007



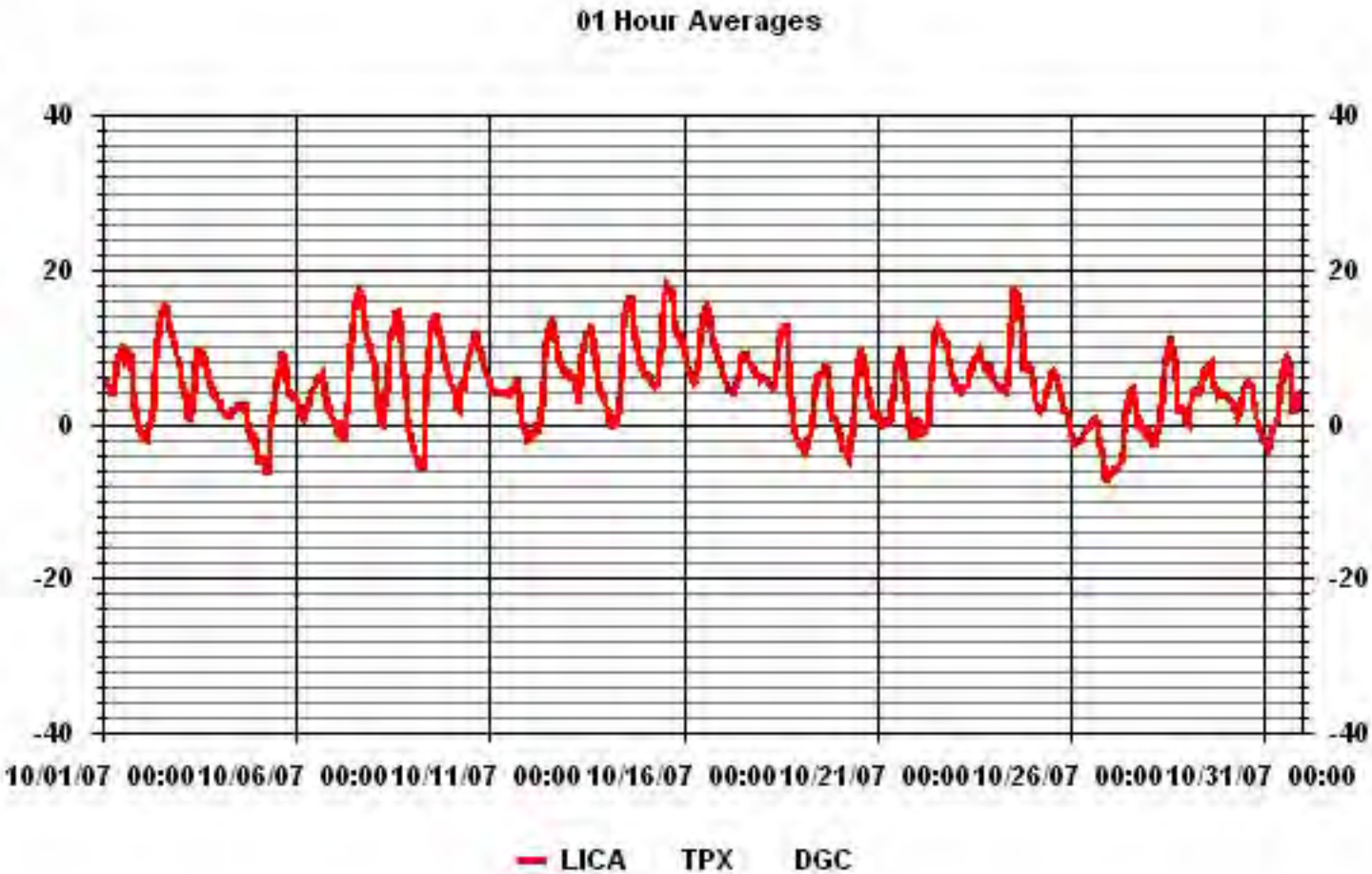
MONTHLY SUMMARY

MINIMUM 1-HR AVERAGE:	-7.5	^{o}C	@ HOUR(S)	23	ON DAY(S)	26
MAXIMUM 1-HR AVERAGE:	18.3	^{o}C	@ HOUR(S)	14	ON DAY(S)	15
MAXIMUM 24-HR AVERAGE:	10.7	^{o}C			ON DAY(S)	15

CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	744	HRS
			AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	5.09		MONTHLY AVERAGE:	4.89	^{o}C

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
40
20
0
-20
-40
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA TPX DGC

RELATIVE HUMIDITY

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

OCTOBER 2007

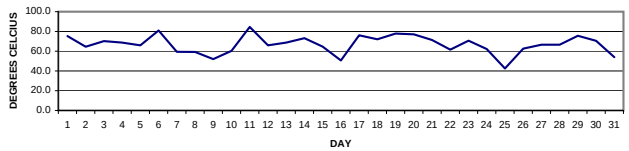
RELATIVE HUMIDITY hourly averages (%)

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.	RDGS.
DAY																											
1	67.0	68.9	68.5	71.1	72.7	76.6	80.4	77.8	72.7	65.4	62.2	62.6	61.0	61.1	74.6	76.6	71.9	73.3	81.7	90.2	92.3	92.7	92.7	93.1	93.1	75.3	24
2	93.5	93.4	93.5	93.0	91.5	93.4	93.8	88.5	73.7	66.7	58.3	48.1	42.1	38.8	34.3	33.5	38.5	41.1	45.3	50.1	55.0	55.9	61.5	65.3	93.8	64.5	24
3	66.0	71.9	75.6	80.4	83.5	86.2	88.1	83.4	74.8	66.9	60.9	53.5	51.4	50.7	56.2	55.2	63.0	68.3	69.3	70.4	76.9	77.0	77.5	78.6	88.1	70.2	24
4	82.4	79.2	77.7	77.3	74.2	72.9	71.1	73.2	73.3	66.3	61.1	59.3	57.6	57.2	57.6	57.6	57.2	61.1	65.7	71.1	75.4	70.6	71.9	78.1	82.4	68.7	24
5	80.4	83.0	84.0	79.2	86.4	85.3	88.0	83.6	72.3	63.5	58.8	54.3	49.0	43.7	39.8	38.2	41.4	49.1	57.9	62.7	64.8	69.2	72.8	75.6	88.0	66.0	24
6	79.0	82.4	85.7	88.7	90.5	89.8	88.3	88.1	83.5	78.5	75.7	73.8	71.5	68.4	68.0	70.4	69.3	72.0	79.7	85.1	85.6	87.9	89.6	91.6	91.6	81.0	24
7	91.3	93.1	93.2	89.2	90.4	93.0	91.2	82.1	77.9	66.9	47.9	35.9	33.2	32.9	28.8	27.9	29.9	35.4	39.0	43.7	48.0	47.7	51.4	54.5	93.2	59.4	24
8	59.4	69.2	77.5	83.7	87.7	89.9	87.6	86.2	83.3	66.3	49.1	46.9	40.7	32.9	27.1	23.0	23.9	33.8	40.7	44.6	55.8	64.9	72.3	74.9	89.9	59.2	24
9	76.6	82.9	83.4	82.2	82.9	84.3	85.4	82.4	63.6	53.0	40.3	31.3	26.7	23.8	22.8	22.2	21.8	26.0	30.5	35.7	39.8	45.9	50.0	54.2	85.4	52.0	24
10	58.8	62.5	65.4	69.5	75.8	79.4	76.8	77.3	71.0	64.0	61.7	57.1	50.6	47.1	43.9	41.8	43.9	45.8	48.5	53.5	57.8	62.6	66.0	67.6	79.4	60.4	24
11	69.9	71.9	75.5	77.8	78.0	78.5	78.5	79.0	79.1	79.0	82.2	89.3	90.1	88.8	86.2	83.9	84.4	87.3	92.9	95.1	95.4	95.3	95.6	95.8	95.8	**84.6**	24
12	97.0	96.3	94.6	93.6	89.9	89.3	90.2	85.4	77.5	68.2	57.8	48.7	41.1	36.4	34.8	35.9	39.9	42.6	48.3	55.5	61.5	66.0	64.0	68.5	97.0	66.0	24
13	69.6	73.9	79.5	76.0	71.8	80.5	86.1	86.0	79.4	63.0	58.3	54.6	48.5	46.9	41.2	43.0	46.5	58.5	69.4	76.7	83.7	**M**	92.3	94.4	94.4	68.7	23
14	95.5	95.7	94.9	94.7	96.6	97.3	**97.4**	95.9	90.8	83.1	70.1	53.5	45.2	40.7	38.2	39.6	44.0	50.5	59.2	66.4	71.6	76.0	77.8	81.5	97.4	73.2	24
15	84.8	84.6	83.5	85.1	86.1	86.1	86.6	84.8	83.7	78.0	72.9	57.5	46.4	40.6	42.0	42.7	42.8	46.9	53.1	54.8	56.6	52.3	49.1	49.5	86.6	64.6	24
16	51.4	57.0	62.2	65.0	66.2	66.7	65.8	63.6	58.2	53.2	47.6	43.2	36.8	33.6	31.5	31.4	35.8	39.5	41.9	45.8	50.1	53.8	56.3	59.0	66.7	50.7	24
17	64.5	66.5	69.4	72.3	75.8	79.7	82.5	84.2	82.7	80.7	78.7	74.2	70.3	70.0	71.2	70.2	72.0	73.7	74.7	75.9	79.1	83.6	84.1	90.6	90.6	76.1	24
18	92.3	92.0	92.6	93.2	92.6	91.8	91.6	89.0	84.5	76.9	69.6	57.4	43.8	34.5	32.9	32.2	36.2	51.3	66.9	73.7	80.8	84.0	84.6	85.5	93.2	72.1	24
19	86.2	88.0	88.1	89.2	89.9	87.3	85.8	83.8	82.5	77.7	70.2	62.4	60.3	60.6	61.2	64.2	60.4	65.2	73.5	83.4	86.3	87.0	87.3	87.6	89.9	77.8	24
20	89.9	92.9	93.0	93.0	92.1	92.3	92.6	92.2	90.7	87.0	81.6	68.9	56.0	52.0	48.1	50.3	54.7	60.0	64.8	70.8	76.9	82.3	83.6	83.5	93.0	77.1	24
21	84.2	87.0	88.9	90.6	90.3	90.1	91.2	92.5	88.6	81.4	72.7	65.7	56.9	48.5	43.2	42.3	41.0	46.1	55.0	59.5	70.5	74.1	75.2	76.4	92.5	71.3	24
22	75.5	71.4	77.5	80.8	81.5	78.7	80.5	80.5	68.3	63.2	55.0	48.5	42.4	36.8	37.0	38.8	39.4	42.2	46.7	52.6	58.3	64.6	76.4	81.4	81.5	61.6	24
23	85.1	83.3	83.9	85.9	85.3	82.9	82.1	82.1	81.5	77.2	71.0	61.1	54.1	57.1	58.3	57.4	57.7	60.2	61.5	63.4	65.3	64.3	65.5	69.2	85.9	70.6	24
24	72.8	75.5	78.8	80.3	81.2	81.5	82.9	83.4	81.8	75.8	66.7	57.6	43.9	45.2	45.2	44.6	45.0	37.2	38.3	71.5	66.0	54.9	45.9	37.0	83.4	62.2	24
25	38.0	43.2	50.6	55.8	51.9	49.5	52.1	52.5	46.2	44.2	45.5	40.4	34.6	30.4	28.7	29.8	30.9	33.5	37.3	42.1	48.0	42.9	44.5	47.5	55.8	42.5	24
26	52.2	54.3	59.9	60.7	60.1	77.9	84.8	86.0	82.3	55.4	54.8	53.1	49.3	47.5	43.9	41.9	44.1	51.4	59.1	65.0	72.0	81.9	82.2	81.8	86.0	62.6	24
27	82.8	82.3	80.8	78.3	78.6	77.4	74.8	73.8	69.7	61.9	50.0	46.2	45.8	46.8	47.0	51.1	56.0	63.8	63.7	69.2	71.9	73.3	76.2	76.0	82.8	66.6	24
28	78.2	80.4	84.4	83.6	84.3	76.7	74.2	75.0	70.0	57.9	52.9	49.7	46.8	43.9	43.2	45.1	50.7	59.5	68.3	72.5	71.9	72.8	75.6	79.8	84.4	66.6	24
29	80.6	79.1	75.7	70.3	68.8	67.5	68.3	68.4	67.3	63.8	58.2	56.7	57.6	56.1	59.2	82.2	90.3	93.9	94.5	94.4	88.6	89.9	91.1	92.1	94.5	75.6	24
30	92.2	93.9	93.2	90.2	88.3	87.2	85.4	84.3	80.4	75.7	66.7	58.4	53.3	50.0	47.8	47.2	45.8	54.0	60.3	64.3	65.8	67.5	69.6	70.3	93.9	70.5	24
31	73.3	71.9	75.4	75.0	72.1	70.8	68.6	65.4	61.2	53.7	44.9	38.7	36.6	35.8	35.5	33.5	38.8	50.3	57.5	52.5	51.9	43.8	43.4	44.2	75.4	54.0	24
HOURLY MAX	97.0	96.3	94.9	94.7	96.6	97.3	97.4	95.9	90.8	87.0	82.2	89.3	90.1	88.8	86.2	83.9	90.3	93.9	94.5	95.1	95.4	95.3	95.6	95.8			
HOURLY AVG	76.5	78.3	80.2	80.8	81.2	82.0	82.3	81.0	75.9	68.2	61.4	55.1	49.8	47.1	46.1	46.9	48.9	54.0	59.5	64.9	68.5	69.5	71.8	73.7			

STATUS FLAG CODES

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

24 HOUR AVERAGES FOR OCTOBER 2007



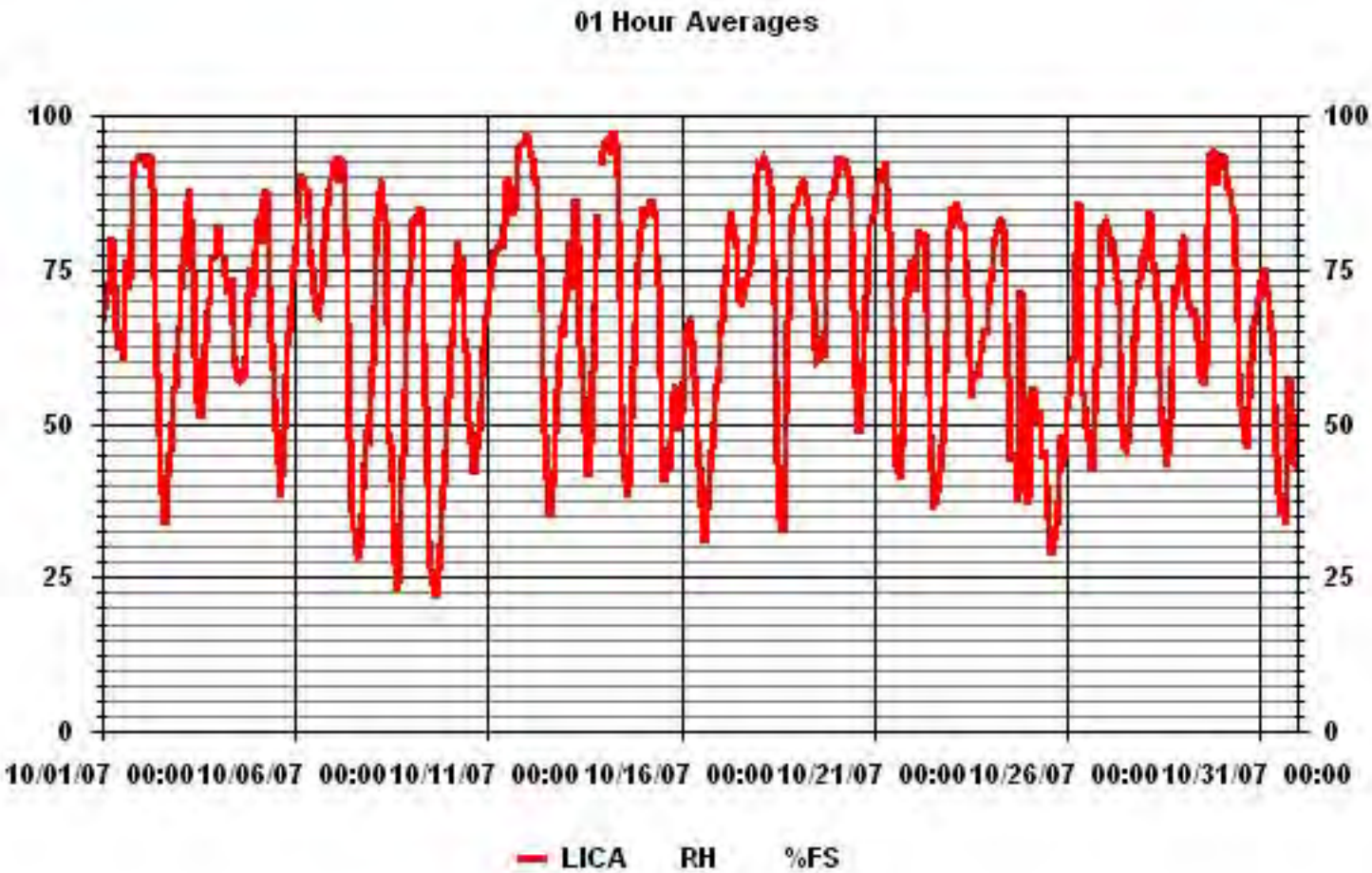
MONTHLY SUMMARY

MAXIMUM 1-HR AVERAGE:	97.4	%	@ HOUR(S)	7	ON DAY(S)	14
MAXIMUM 24-HR AVERAGE:	84.6	%			ON DAY(S)	11

CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	743	HRS
			AMD OPERATION UPTIME:	99.9	%
STANDARD DEVIATION:	18.22		MONTHLY AVERAGE:	66.81	%

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
100
75
50
25
0
10/01/07 00:00
10/06/07 00:00
10/11/07 00:00
10/16/07 00:00
10/21/07 00:00
10/26/07 00:00
10/31/07 00:00
LICA RH %FS

OCTOBER 2007
CALIBRATION REPORTS

LICA – COLD LAKE

SO_2

SO_2 Calibration Report

Station Information

Calibration Date	October 1, 2007		Previous Calibration	September 21, 2007	
Company	**Lakeland Industry & Community Association**				
Plant / Location	**LICA 1 - Cold Lake South**				
Start Time (MST)	10:25		End Time (MST)	14:15	
Reason:			Monthly Calibration		
Barometric Pressure	702	mmHg	Station Temperature	24	Deg C
Cal Gas	50.2	ppm	Cal Gas Expiry date	06/18/2009	
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	700	ccm	OK	Deg C	700	ccm	OK	Deg C
HVPS / Lamp Setting	OK		843		OK		845	
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		879		98		878	

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
ZERO	ZERO	0	0	N/A
4960	39.8	400	398	1.0040
4960	39.8	400	400	0.9990
4974	24.9	250	249	1.0042
4985	14.9	150	148	1.0108
ZERO	ZERO	0	1	N/A
			Sum of Least Squares	1.0014
			New Correction Factor	0.9990

	Before Calibration	After Calibration
Auto Zero	0	0
Auto Span	343	345
Sample Lines Connected		**YES**
Percent Change from Previous Calibration		-0.7%

Notes:

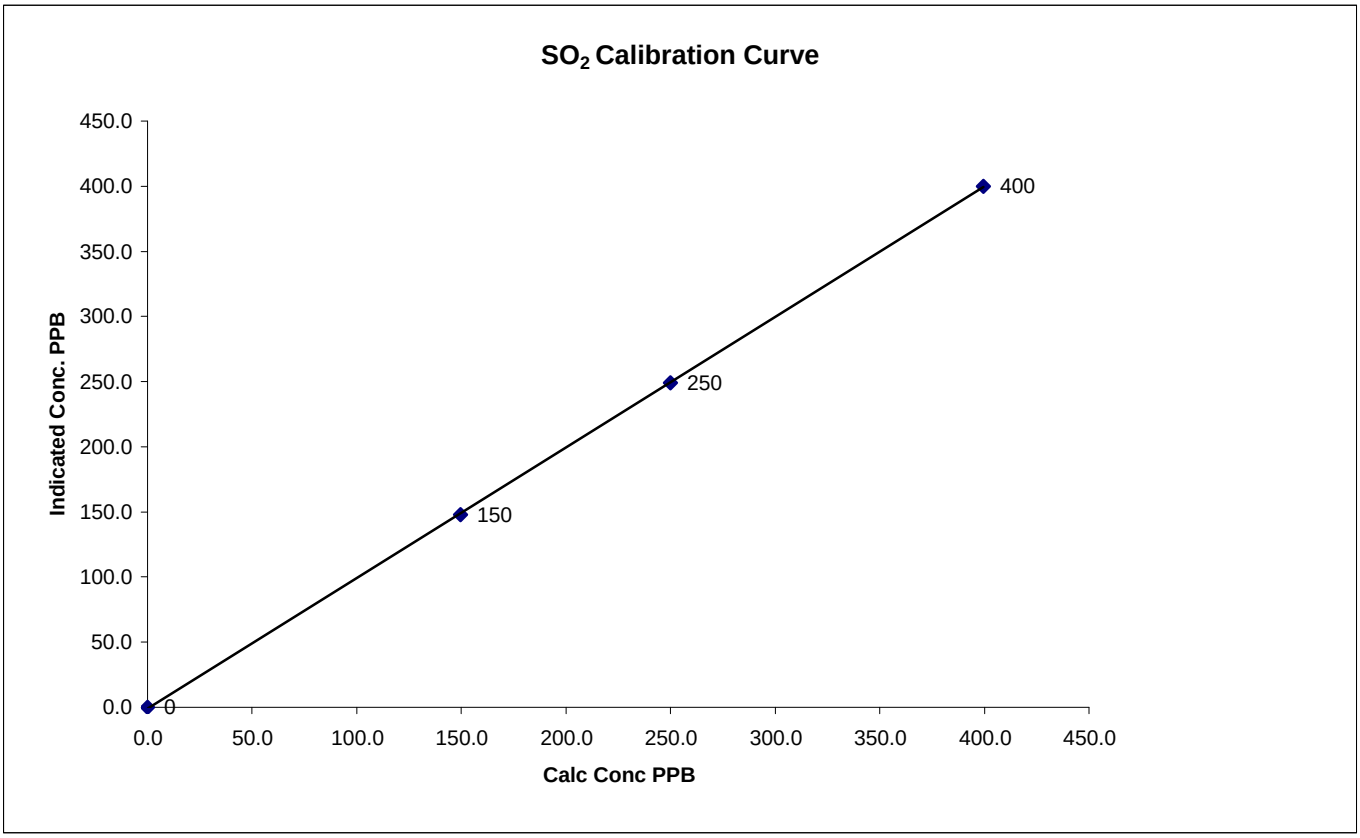
Calibration Performed by: Shea Beaton

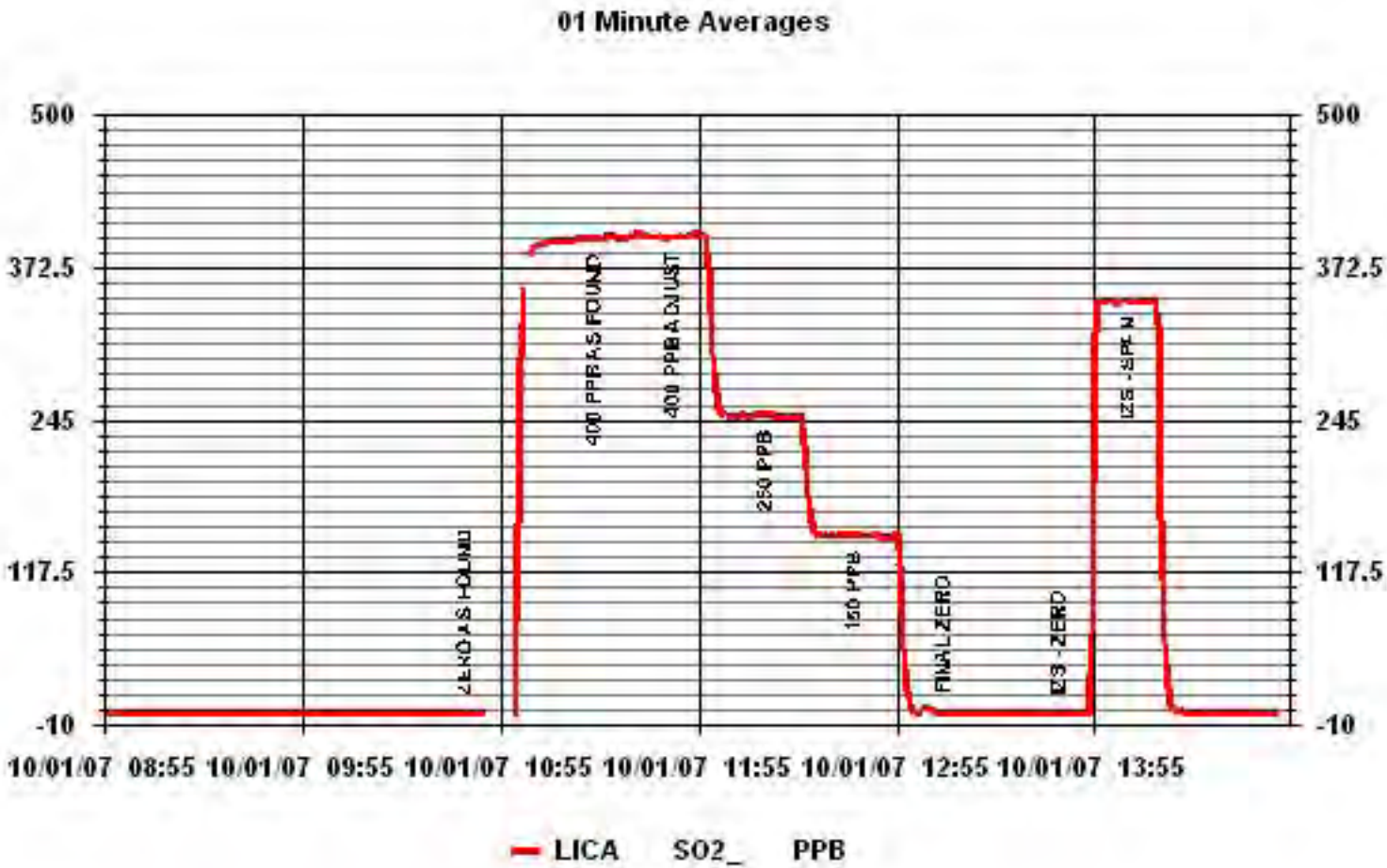
SO_2 Calibration Curve

Calibration Date	October 1, 2007		
Company	**Lakeland Industry & Community Association**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	10:25	End Time (MST)	14:15

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	n/a
150	148	1.0108
250	249	1.0042
400	400	0.9990

Correlation Coefficient	(≥ 0.995)	0.999972
Slope	(0.85 to 1.15)	1.001247
Intercept	(± 3% F.S.)	-0.813574




01 Minute Averages
500
372.5
245
117.5
-10
ZERO AS FOUND
400 PPB AS FOUND
400 PPB ADJUST
250 PPB
150 PPB
FINAL ZERO
IZS - ZERO
IZS - SPAN
10/01/07 08:55
10/01/07 09:55
10/01/07 10:55
10/01/07 11:55
10/01/07 12:55
10/01/07 13:55
LICA SO2_ PPB

TRS

TRS Calibration Report

Station Information

Calibration Date	October 1, 2007	Previous Calibration	September 24, 2007
Company	**Lakeland Industry & Community Association**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	10:25	End Time (MST)	14:15
Reason:	Monthly Calibration		
Barometric Pressure	702 mm Hg	Station Temperature	24 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		
Flow Meter:	Environics 2000	S/N :	1991		

Analyzer Settings

	Before Calibration				After Calibration			
Concentration Range	0 -100 ppb							
Sample Flow / Box Temp	400	ccm	OK	Deg C	400	ccm	OK	Deg C
HVPS / Lamp Setting	OK		884		OK		885	
PMT / RxCell Temp	OK	Deg C	OK	Deg C	OK	Deg C	OK	Deg C
Converter / IZS Temp	851	Deg C	OK	Deg C	850	Deg C	OK	Deg C
Offset / Slope	850		836		850		874	

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
ZERO	ZERO	0	0	N/A
4960	39.2	80	78	1.0254
4960	39.2	80	80	0.9998
4980	19.6	40	40	0.9997
4990	9.8	20	19	1.0523
ZERO	ZERO	0	0	N/A
			Sum of Least Squares	1.0021
			New Correction Factor	0.9998

	Before Calibration	After Calibration
Auto Zero	0	0
Auto Span	83	88
Sample Lines Connected		YES
Percent Change from Previous Calibration		-2.5%

Notes:

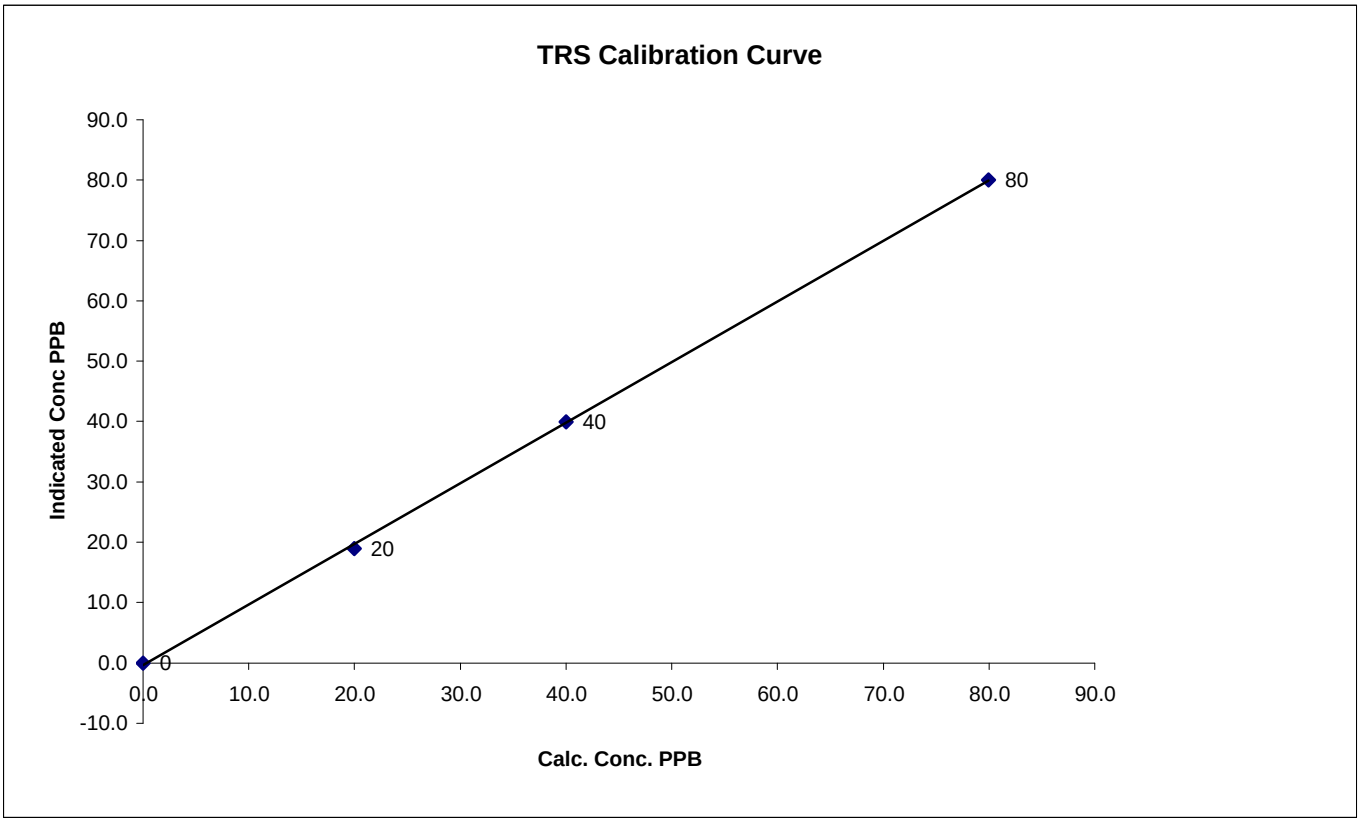
Calibration Performed by: Shea Beaton

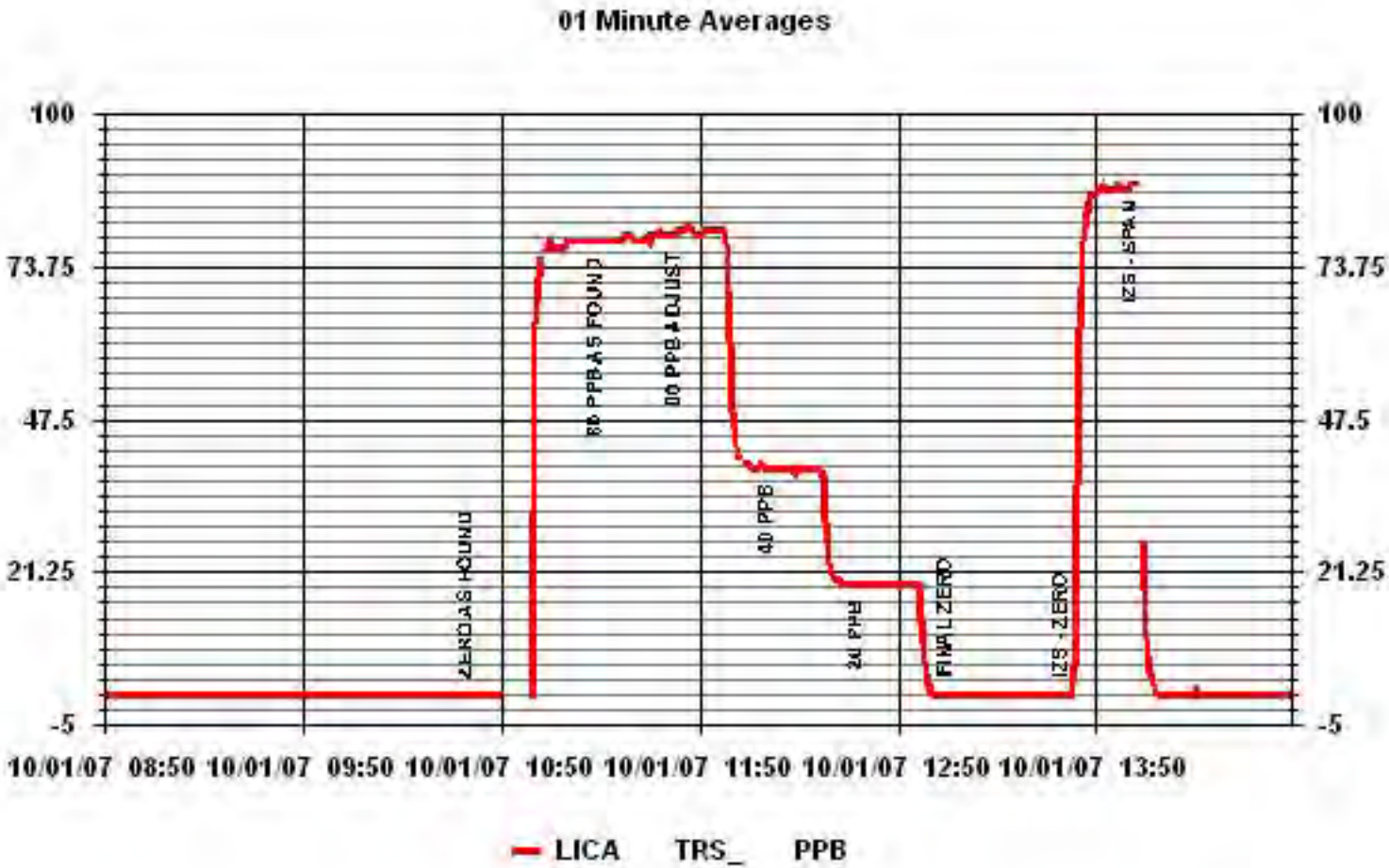
TRS Calibration Curve

Calibration Date	October 1, 2007		
Company	**Lakeland Industry & Community Association**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	10:25	End Time (MST)	14:15

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	n/a
20	19	1.0523
40	40	0.9997
80	80	0.9998

Correlation Coefficient	(≥ 0.995)	0.999806
Slope	(0.85 to 1.15)	1.004521
Intercept	(± 3% F.S.)	-0.398402




01 Minute Averages
100
73.75
47.5
21.25
-5
ZERO AS FOUND
86 PPB AS FOUND
80 PPB ADJUST
40 PPB
24 PPB
FINAL ZERO
IZS - ZERO
IZS - SPAN
10/01/07 08:50
10/01/07 09:50
10/01/07 10:50
10/01/07 11:50
10/01/07 12:50
10/01/07 13:50
LICA TRS_ PPB

THC

THC Calibration Report

Station Information

Calibration Date:	October 1, 2007	Previous Calibration	September 24, 2007
Company:	**Lakeland Industry and Community Association**		
Plant / Location:	**LICA1/Cold Lake**		
Start Time (MST)	13:20	End Time (MST)	16:35
Reason:		Monthly Calibration	
Barometric Pressure:	702 mmHg	Station Temperature:	24 Deg C
Calibrator:	Environics 2000	S/N:	1991
Cal Gas Concentration:	1010 ppm	Cal Gas Expiry Date:	Jan-10
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	9	psi	9	psi
Air Pressure	18	psi	18	psi

Calibration Data

Dilution Flow	Source Gas Flow	Calculated Concentration	Indicated Concentration	Correction Factor
ZERO	ZERO	0.0	0.0	N/A
1920	79.2	40.0	39.3	1.0181
1920	79.2	40.0	40.1	0.9978
1960	39.6	20.0	19.6	1.0205
1980	19.8	10.0	9.5	1.0526
ZERO	ZERO	0.0	0.0	N/A
			Correction Factor:	0.9978

Percent Change

Previous Calibration Correction Factor:	1.0003
Current Correction Factor Before Span Adjust:	1.0181
Percent Change:	-1.7%

IZS Calibration Data

	Before Calibration	After Calibration
Auto Zero	0.0	0.0
Auto Span	26.5	27.3
Sample Lines Connected		**YES**

Notes:	Cylinder Pressures	
	Span	700 psi
	Hydrogen	700 psi
	Zero Air	Maxxam-owned API 701 zero air supply with catalytic oxidizer

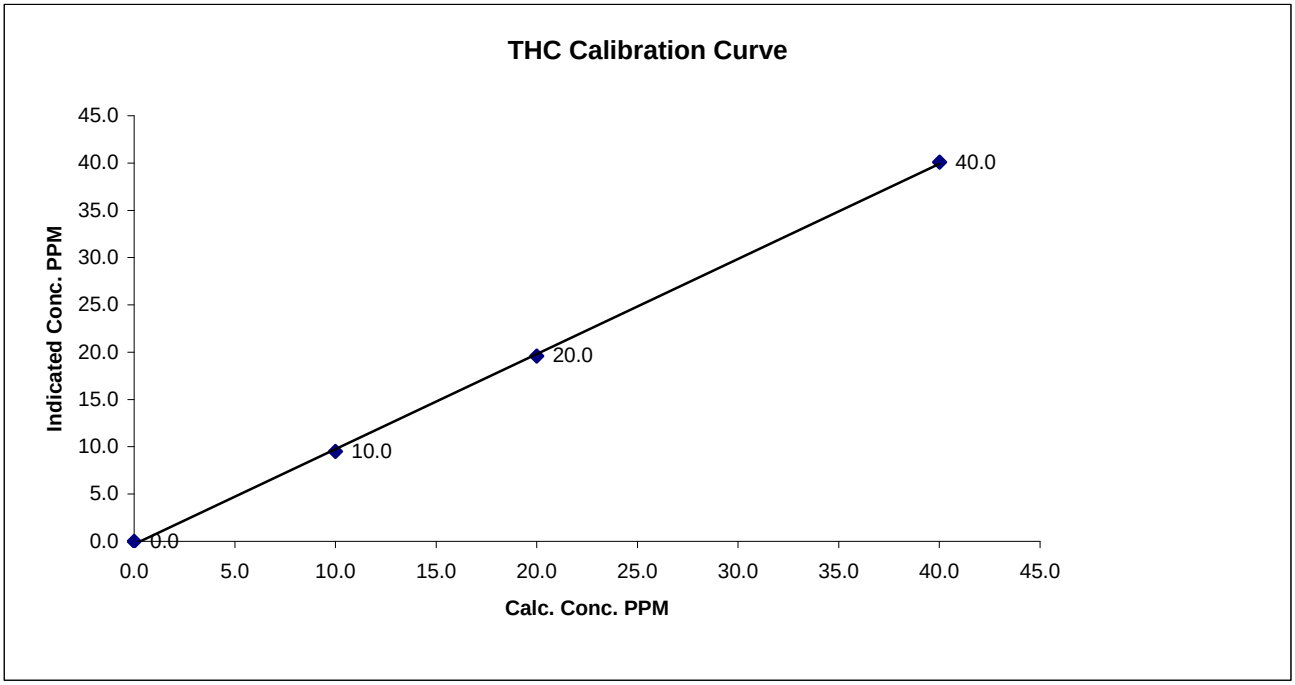
Calibration Performed by: Shea Beaton

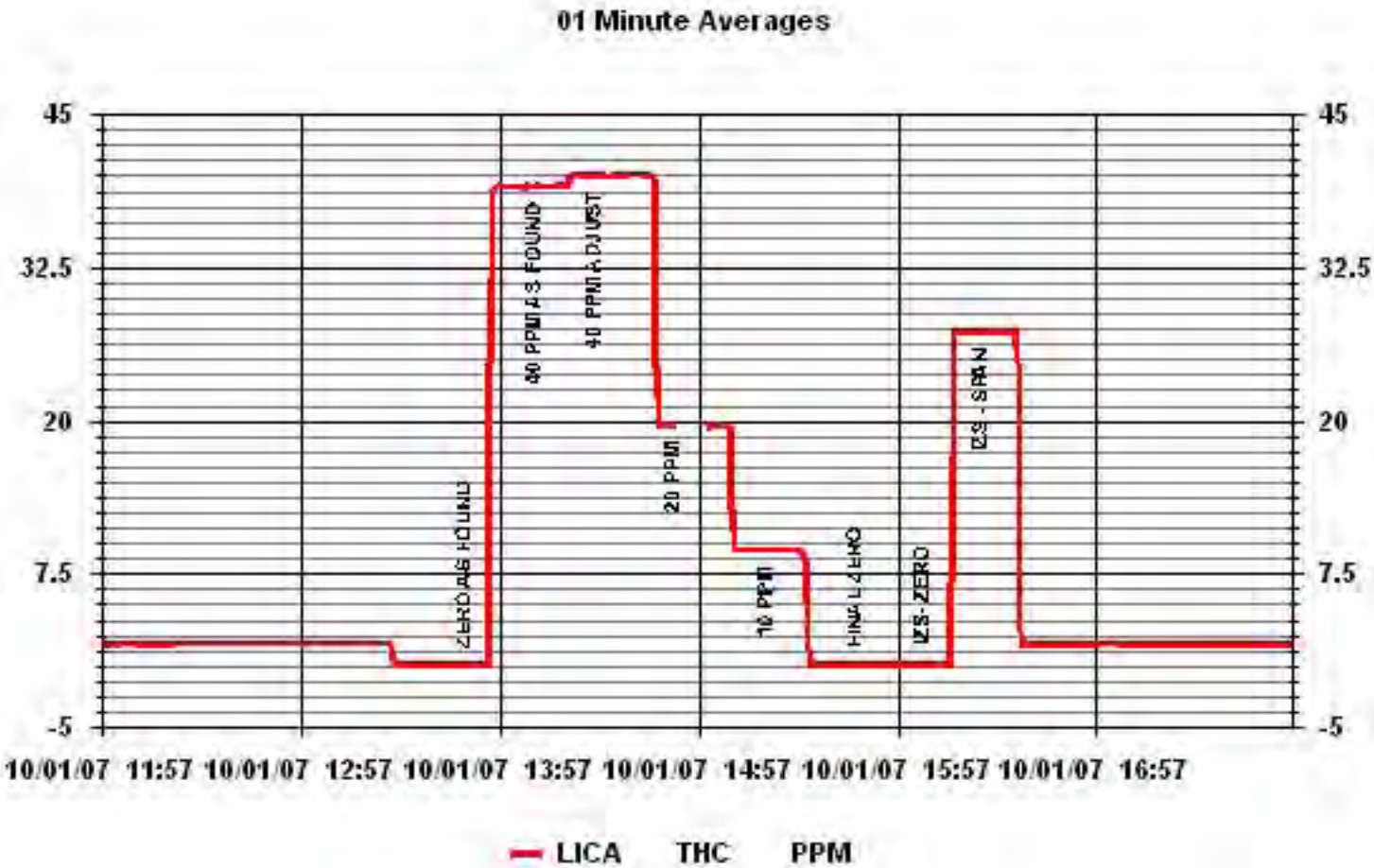
THC Calibration Curve

Calibration Date		October 1, 2007			
Company		**Lakeland Industry and Community Association**			
Plant / Location		**LICA1/Cold Lake**			
Start Time	(MST)	13:20	End Time	(MST)	16:35

Calculated Conc. ppm	Indicated Response ppm	Correction Factor
0.0	0.0	
10.0	9.5	1.0526
20.0	19.6	1.0205
40.0	40.1	0.9978

Correlation Coefficient	(≥ 0.995)	0.999742
Slope	(0.85 to 1.15)	1.005400
Intercept	(± 3% F.S.)	-0.298021




01 Minute Averages
45
32.5
20
7.5
-5
ZERO AS FOUND
40 PPM AS FOUND
40 PPM ADJUST
20 PPM
10 PPM
HIGH ZERO
ZS - ZERO
ZS - SPAN
10/01/07 11:57
10/01/07 12:57
10/01/07 13:57
10/01/07 14:57
10/01/07 15:57
10/01/07 16:57
LICA THC PPM

PARTICULATE MATTER 2.5

TEOM® Calibration

Station		Transfer Standard	
Date:	October 30, 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:	2178

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 (%)	32
Transducer s/n	140AB213859701	K_o Factor	11095
Parameter	PM 2.5	Temp (^oC)	-0.6
		Press (ATM)	0.933

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)	0.06		**(45-60 Sec)**	37
F-Aux (l/min)	0.17		**(45-60 Sec)**	54

Temperature/Pressure

Measured Temp **(± 1 ^oC)**	0.2	**Δ ^oC**	0.8
Measured Press **(± 1.5% ATM)**	0.934	**Δ % ATM**	0.1%

Flow Audit

			Δ % from Set-pt
Indicated Main/Aux Flow (l/min)	3.00 / 13.65	**(± 2%)**	0.0% / 0.1%
Total Flow = Main + Aux (l/min)	16.65	**(± 2%)**	0.1%
Measured Total Flow (l/min)	17.12	**(± 1.0 l/min. (5.65%))**	-2.7%
Measured Main Flow (l/min)	3.02	**(± 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: 7:20 **Finish Time:** 8:20

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

Comments:

Fadj Main = 0.945, Fadj Aux = 0.965

Calibrator/s: Shea Beaton

NO_2

NOx - NO- NO_2 Calibration Report

Station Information

Calibration Date	October 2, 2007	Previous Calibration	September 21, 2007
Company	**Lakeland Ind & Comm. Assoc.**	Plant/Location	**LICA 1 - Cold Lake South**
Start Time (MST)	7:05	End Time (MST)	13:35
Reason:	Monthly Calibration		
Barometric Pressure	700 mmHg	Station Temperature	23.0 Deg C
Cal Gas Concentration	NOx 49.8 ppm NO 49.7 ppm	Cal Gas Expiry date	06/18/2009
DAS Output Voltage	0 - 5 Volts		

Equipment Information

Analyzer Make / Model:	TECO 42C	S/N :	42-7408-716	Method:	Chemiluminescent
Calibrator Make / Model:	Environics 2000	S/N:	1991		
DAS Make / Model:	ESC 8832	S/N :	263		
Flow Meter:	Environics 2000	S/N :	1991		

Analyzer Settings

	Before Calibration				After Calibration			
Concentration Range			0 - 500	ppb				
Sample Flow/Conv. Temp	723	ccm	317	Deg C	721	ccm	317	Deg C
Ozone Flow / Vacuum	OK	ccm	176.7	"Hg-A	OK	ccm	177.1	"Hg-A
HVPS	-821		Volts		-820		Volts	
Rx/ Temp / PMT Temp	49.4	Deg C	-2.4	Deg C	49.9	Deg C	-2.5	Deg C
Box Temp / IZS Temp	28.6	Deg C	OK	Deg C	28.3	Deg C	OK	Deg C
Offset	2.7	NOx	2.7	NO	2.7	NOx	2.7	NO
Slope	1.003	NOx	0.73	NO	1	NOx	0.725	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
4959	40.2	N/A	400	400	404	403	1	0.9912	0.9917
4959	40.2	N/A	400	400	400	400	0	1.0011	0.9991
4959	40.2	N/A	400	400	399	399	0	1.0036	1.0016
								Converter Efficiency	
4959	40.2	275	400	N/A	396	146	250	99%	
4959	40.2	200	400	N/A	395	205	190	98%	
4959	40.2	100	400	N/A	396	300	96	97%	
4959	40.2	N/A	400	400	395	395	0	N/A	
								Correction Factor	
4974	25.2	N/A	251	251	249	250	0	1.0082	1.0021
4984	15.1	N/A	150	150	150	150	0	1.0028	1.0008
ZERO	N/A	N/A	0	0	0	0	0	N/A	N/A
Linearity OK?			**Yes**	No	Sum of Least Squares			1.0047	1.0017
Flows Checked on-site?			Yes	**No**	New Correction Factor			1.0036	1.0016
					Average Converter Efficiency			98%	

	Before Calibration				After Calibration			
Auto Zero	0	NOx	0	NO2	0	NOx	0	NO2
Auto Span	299	NOx	297	NO2	290	NOx	287	NO2
Sample Lines Connected					**YES**			
Percent Change from Previous Calibration					*NOx*	0.7%	*NO*	0.8%

Notes: Power supply voltages +15 @ 15.1v, +5 @ 5.0v, -15 @ -15.1v, battery at 0.2v

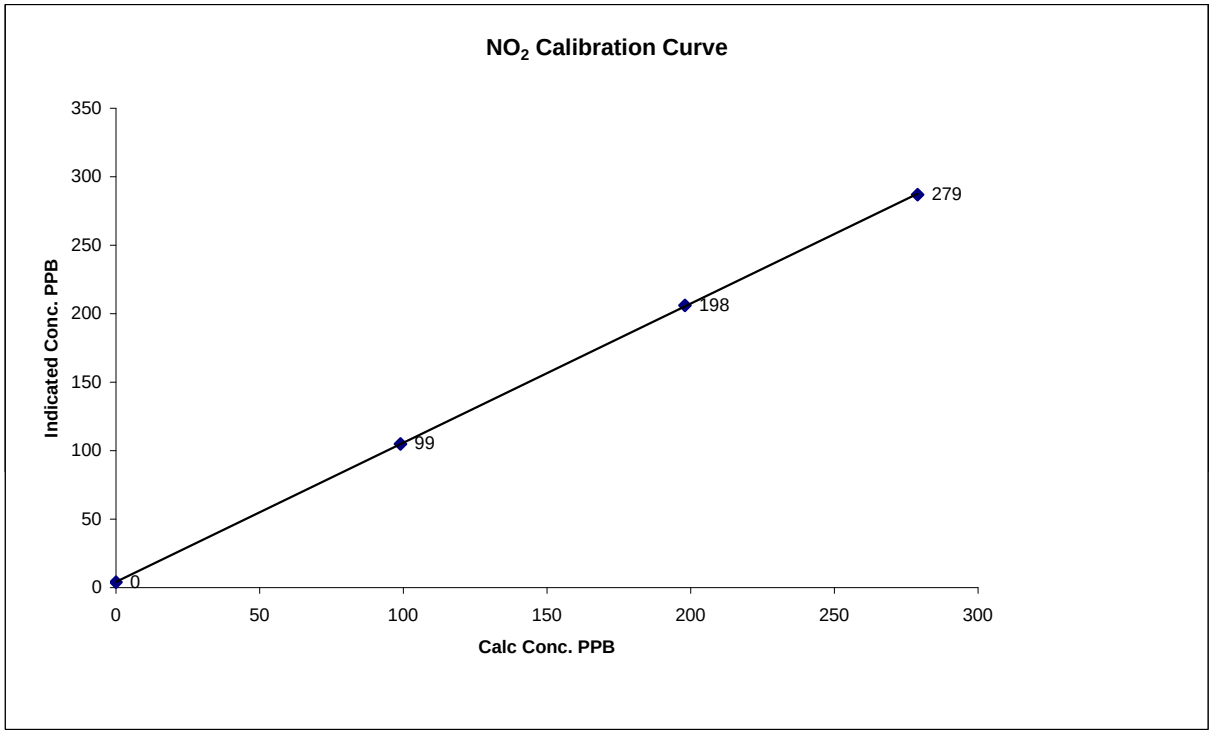
Calibration Performed by: Shea Beaton

NO_2 Calibration Curve

Calibration Date	October 2, 2007		
Company	**Lakeland Ind & Comm. Assoc.**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	7:05	End Time (MST)	13:35

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	N/A
99	96	1.0313
194	190	1.0211
253	250	1.0120

Correlation Coefficient	(≥ 0.995)	0.999914
Slope	(0.85 to 1.15)	0.987350
Intercept	(± 3% F.S.)	-0.773275

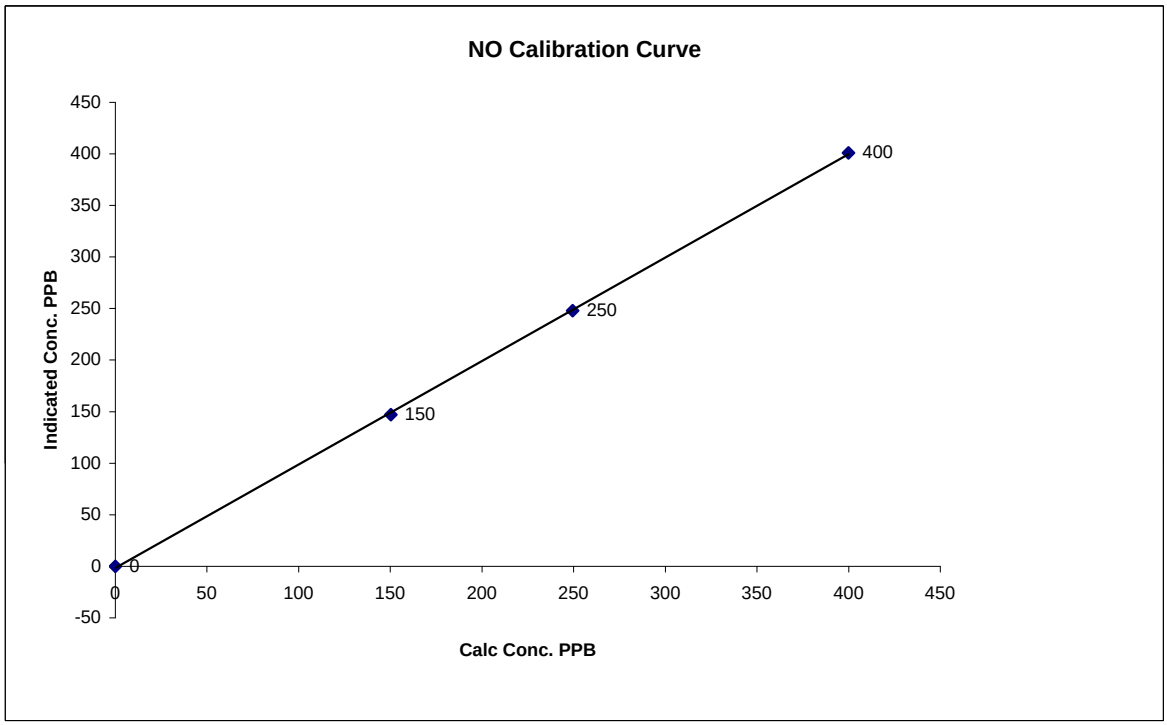


NO Calibration Curve

Calibration Date	October 2, 2007		
Company	**Lakeland Ind & Comm. Assoc.**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	7:05	End Time (MST)	13:35

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	N/A
150	150	1.0008
251	250	1.0021
400	400	0.9991

Correlation Coefficient	(≥ 0.995)	0.999996
Slope	(0.85 to 1.15)	1.000576
Intercept	(± 3% F.S.)	-0.190418

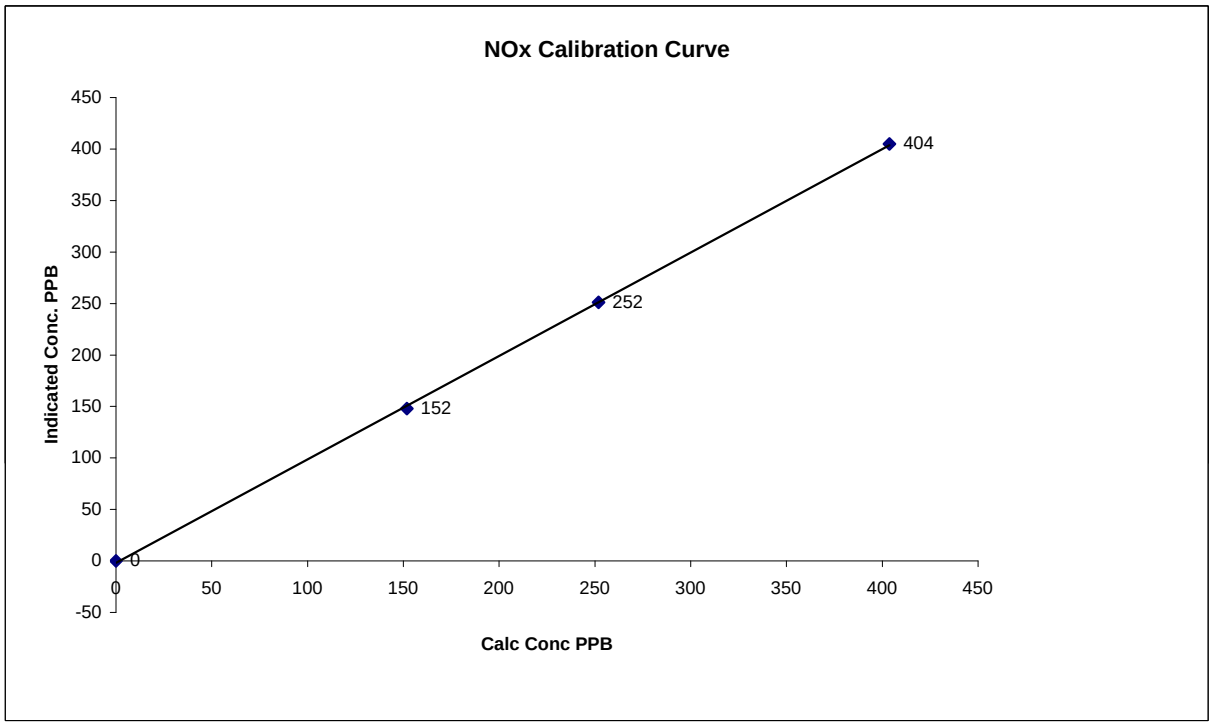


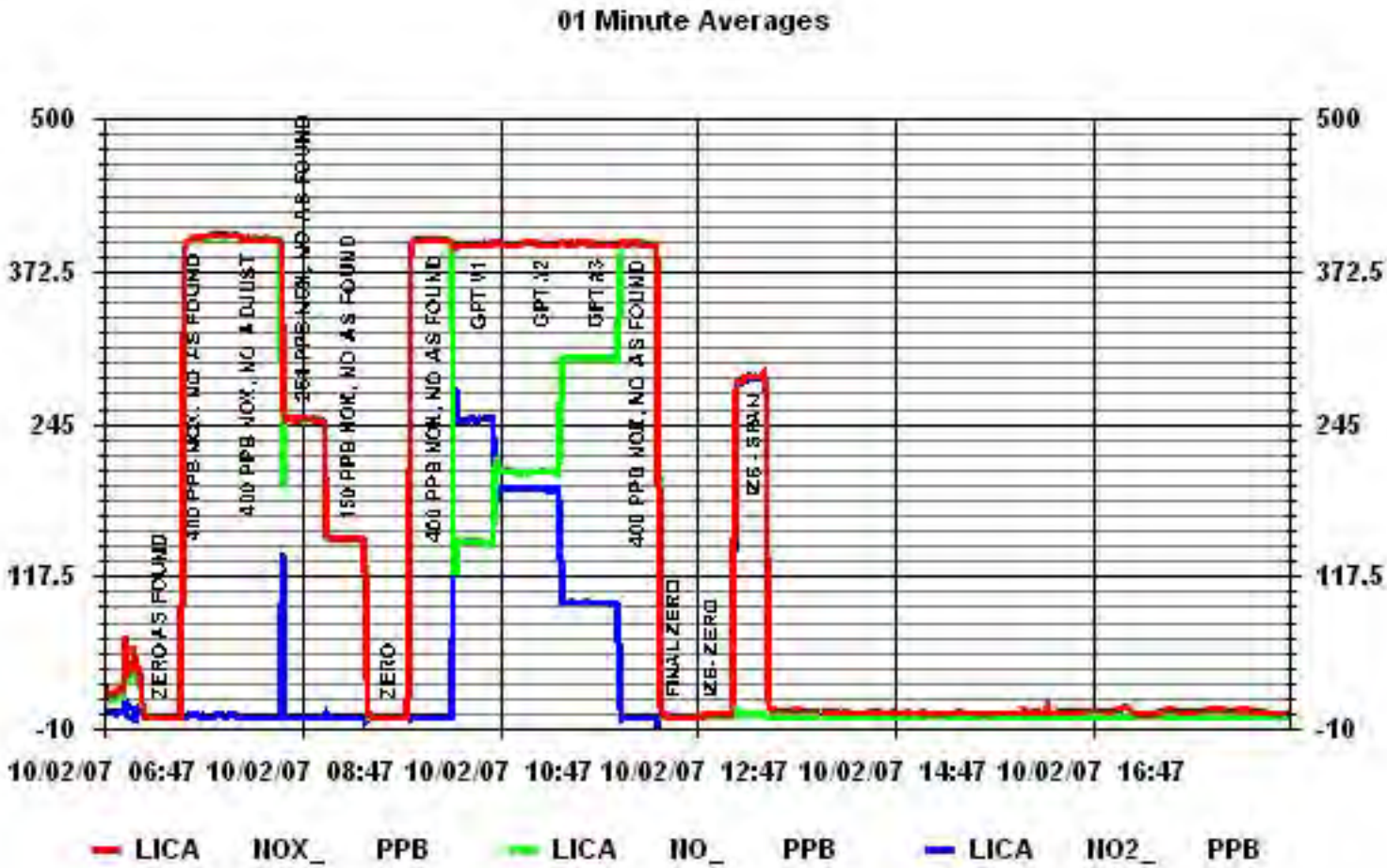
NOx Calibration Curve

Calibration Date	October 2, 2007		
Company	**Lakeland Ind & Comm. Assoc.**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	7:05	End Time (MST)	13:35

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	N/A
150	150	1.0028
251	249	1.0082
400	400	1.0011

Correlation Coefficient	(≥ 0.995)	0.999976
Slope	(0.85 to 1.15)	0.997973
Intercept	(± 3% F.S.)	-0.321523




01 Minute Averages
500
372.5
245
117.5
-10
ZERO AS FOUND
400 PPB NOX, NO AS FOUND
400 PPB NOX, NO ADJUST
150 PPB NOX, NO AS FOUND
ZERO
400 PPB NOX, NO AS FOUND
GPT #1
GPT #2
GPT #3
400 PPB NOX, NO AS FOUND
FINAL ZERO
ZS- ZERO
ZS - SPAN
10/02/07 06:47
10/02/07 08:47
10/02/07 10:47
10/02/07 12:47
10/02/07 14:47
10/02/07 16:47
LICA NOX_ PPB
LICA NO_ PPB
LICA NO2_ PPB

OZONE

O_3 Calibration Report

Station Information

Calibration Date	October 2, 2007	Previous Calibration	September 24, 2007
Company	**Lakeland Industry & Community Association**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	12:45	End Time (MST)	16:40
Reason:		Monthly Calibration	
Barometric Pressure	700 mm Hg	Station Temperature	23 Deg C
DAS Output Voltage	0 - 10 Volts		

Equipment Information

Analyzer Make / Model:	TEI 49i	S/N :	700419951	Method:	Fluorescent
Calibrator Make / Model:	Environics 2000	S/N :	1991	Method:	Dilution
DAS Make / Model:	ESC 8832	S/N :	263		

Analyzer Settings

	Before Calibration		After Calibration	
Concentration Range	0 - 500 ppb			
Bench Temp/ Pressure	33.4	691	34.1	691
O_3 Set Level	29%		29%	
Bench Lamp/O3 Lamp	53.8	67.7	53.8	67.7
Sample Flow A/B	0.693 LPM	0.704 LPM	0.729 LPM	0.744 LPM
Offset / Slope	0.4	1.061	0.7	1.005

Calibration Data

Dilution Flow Rate	Ozone Set Point	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
ZERO	ZERO	0	0	N/A
5000	275	253	268	0.9440
ZERO	ZERO	0	0	N/A
5000	275	253	253	1.0000
5000	200	194	188	1.0319
5000	100	99	92	1.0761
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	294	274
Sample Lines Connected		YES
Percent Change from Previous Calibration		-0.2%

Notes: Connected newly rebuilt Thomas pump to analyzer in place of internal pump after 'As Founds'

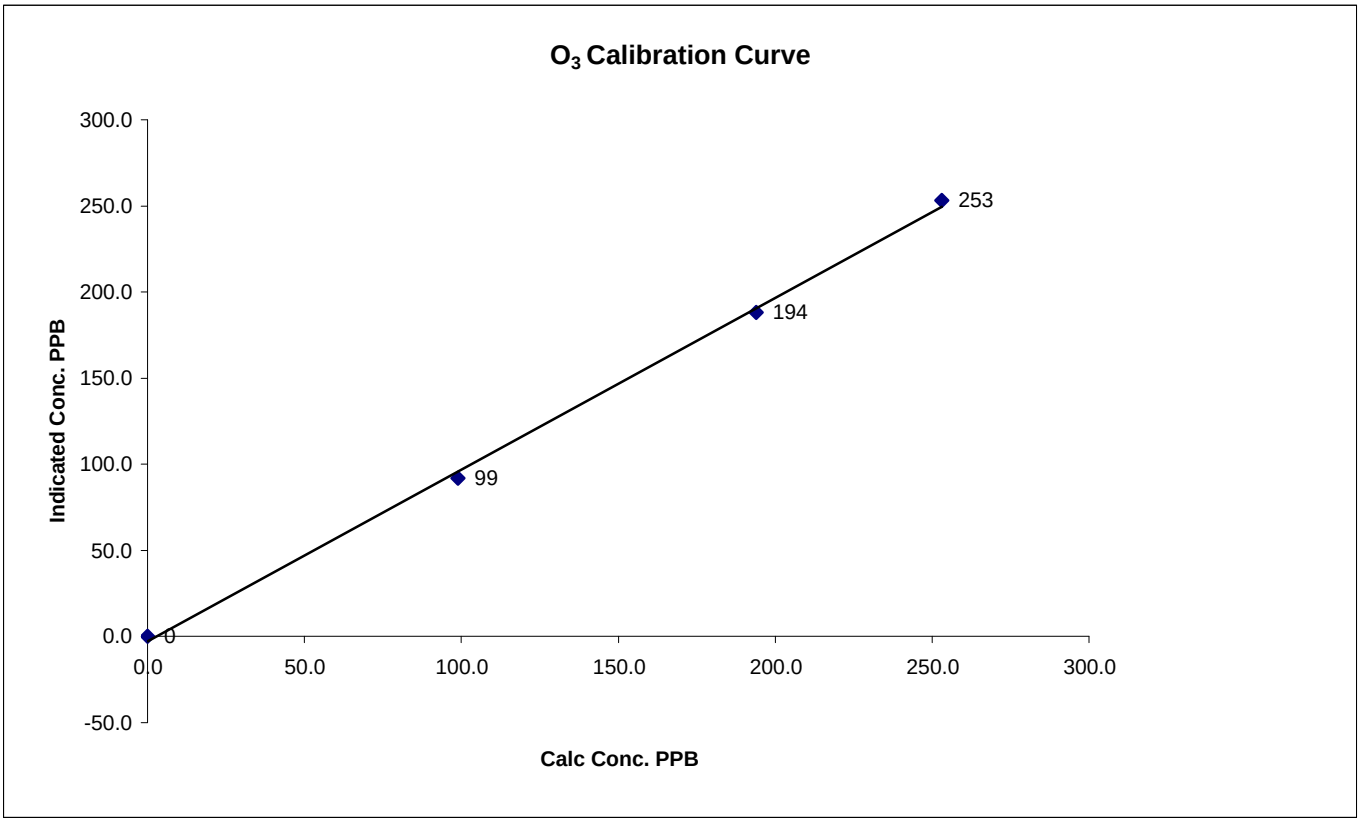
Calibration Performed by: Shea Beaton

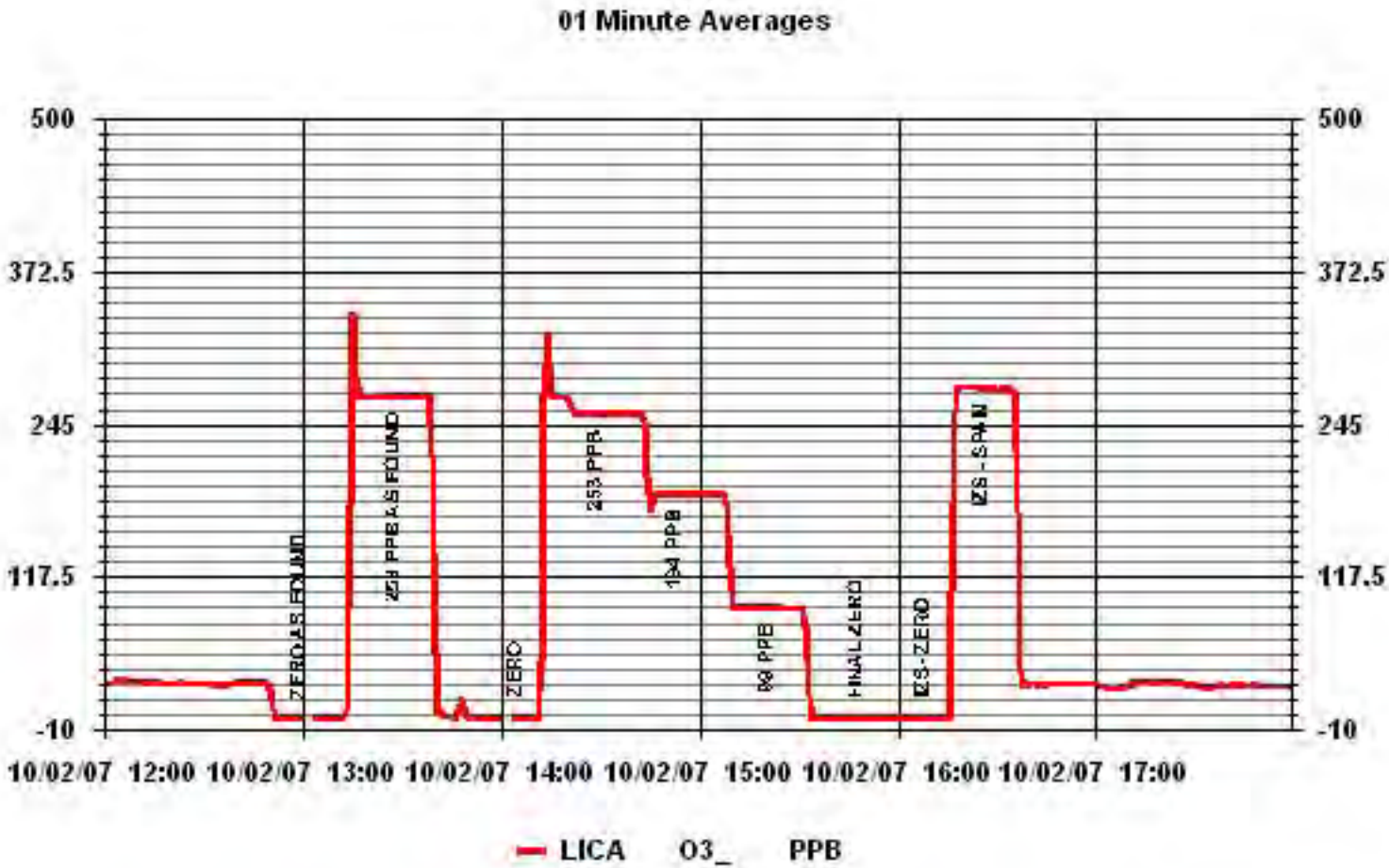
O_3 Calibration Curve

Calibration Date	October 2, 2007		
Company	**Lakeland Industry & Community Association**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	12:45	End Time (MST)	16:40

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	n/a
99	92	1.0761
194	188	1.0319
253	253	1.0000

Correlation Coefficient	(≥ 0.995)	0.998843
Slope	(0.85 to 1.15)	0.997765
Intercept	(± 3% F.S.)	-2.944958



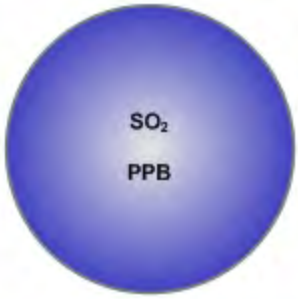

01 Minute Averages
500
372.5
245
117.5
-10
ZERO AS FOUND
ZERO
253 PPB
134 PPB
FINAL ZERO
ZS - ZERO
10/02/07 12:00
10/02/07 13:00
10/02/07 14:00
10/02/07 15:00
10/02/07 16:00
10/02/07 17:00
LICA O3_ PPB

OCTOBER 2007
LICA
PASSIVE BUBBLE MAPS

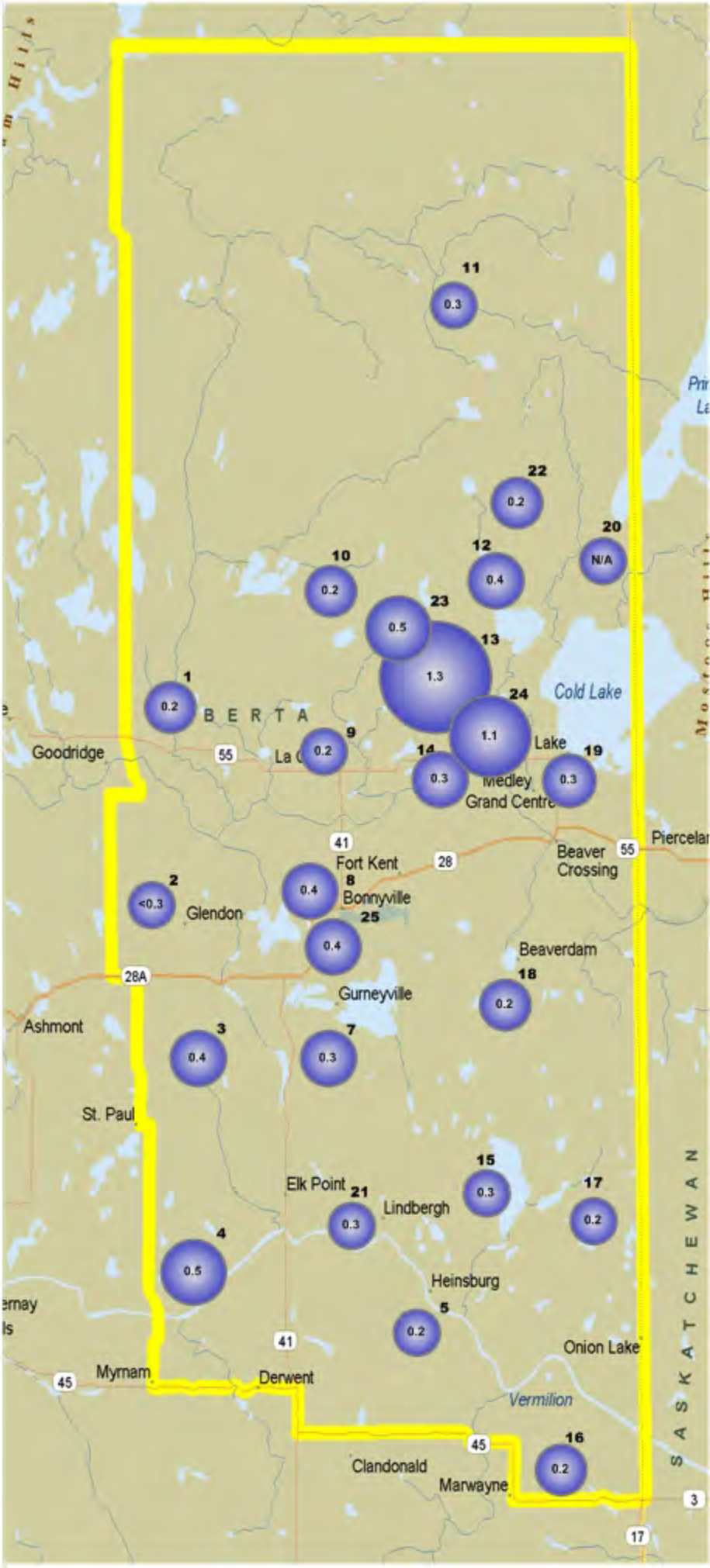
LICA
Lakeland Industry & Community Association

PASSIVE BUBBLE MAP

October 2007



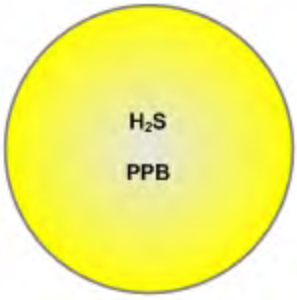
Maxxam Analytics Inc



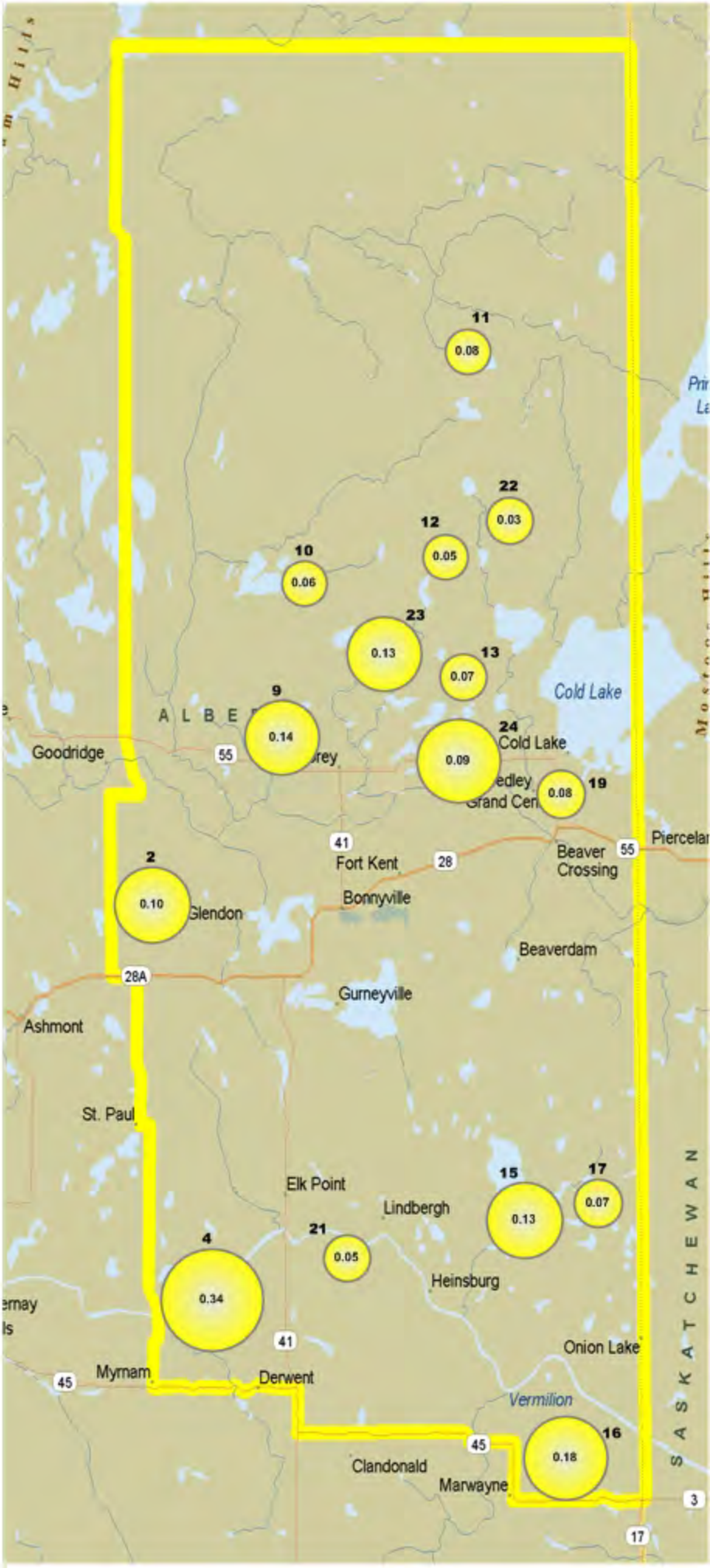
LICA
Lakeland Industry & Community Association

PASSIVE BUBBLE MAP

October 2007



Maxxam Analytics Inc

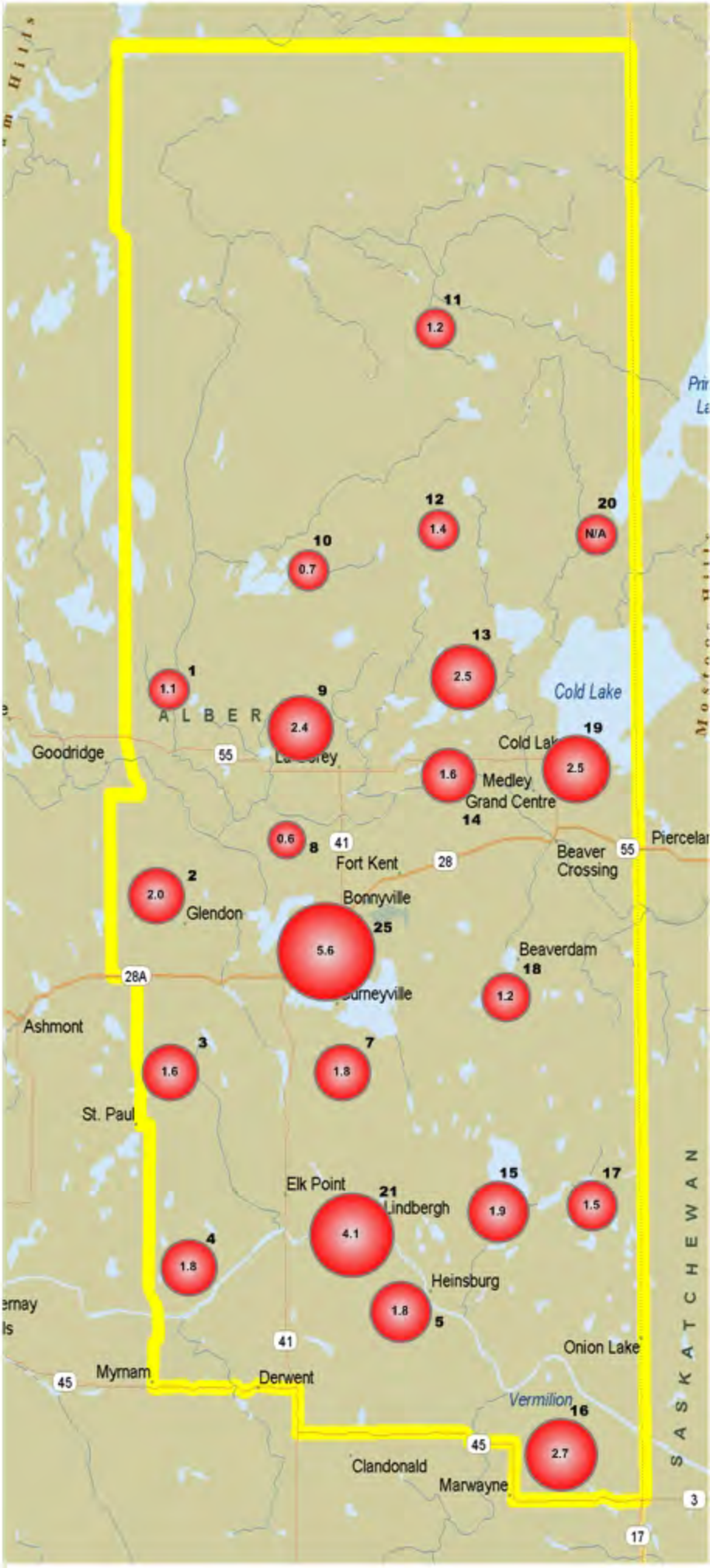


LICA
Lakeland Industry & Community Association

PASSIVE BUBBLE MAP

October 2007

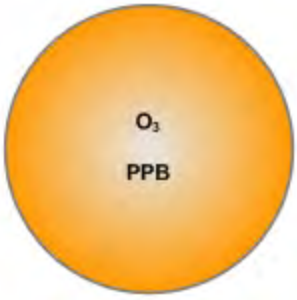
Maxxam Analytics Inc



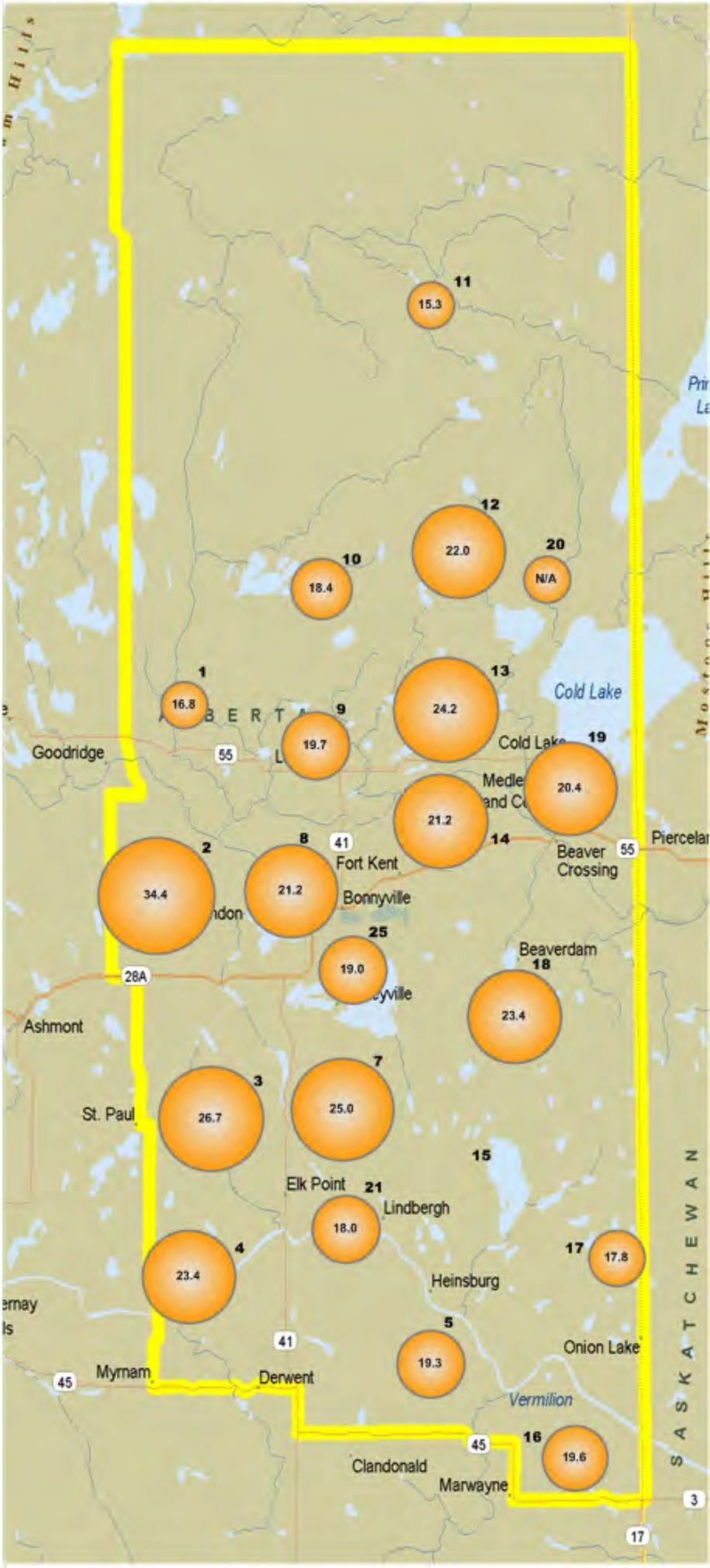
LICA
Lakeland Industry & Community Association

PASSIVE BUBBLE MAP

October 2007



Maxxam Analytics Inc



OCTOBER 2007
LICA PASSIVE NETWORK
LAB ANALYSIS

Maxxam Analytics Inc

Your Project #: OCTOBER 2007
Site:LICA

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

Report Date: 2007/11/20

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A753434
Received: 2007/10/31, 11:59

Sample Matrix: Air
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
H2S Passive Analysis (1)	1	2007/11/20	2007/11/20		EDM SOP-0320
NO2 Passive Analysis (1)	1	2007/11/20	2007/11/20		EDM SOP-0318
O3 Passive Analysis (1)	1	2007/11/06	2007/11/06		EDM SOP-0317
SO2 Passive Analysis (1)	1	2007/11/20	2007/11/20		EDM SOP-0319

Sample Matrix: Air
Samples Received: 25

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
H2S Passive Analysis (1)	16	2007/11/20	2007/11/20		EDM SOP-0320
NO2 Passive Analysis (1)	22	2007/11/20	2007/11/20		EDM SOP-0318
O3 Passive Analysis (1)	22	2007/11/06	2007/11/06		EDM SOP-0317
SO2 Passive Analysis (1)	25	2007/11/20	2007/11/20		EDM SOP-0319

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

Encryption Key

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

JODI HANSON, Project Manager, Customer Service
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

Your Project #: OCTOBER 2007
Site:LICA

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

Report Date: 2007/11/20

CERTIFICATE OF ANALYSIS

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

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

Maxxam Job Number : PA753434
Report Date : 2007/11/20

Sample Description	Set Number	Matrix	Date Sampled	Calculated H2S ppb	Calculated NO2 ppb	Calculated O3 ppb
1	H71389	Air	2007/09/27	N/A	1.1	16.8
2	H71390	Air	2007/09/27	0.12	1.7	46.9
3	H71391	Air	2007/09/28	N/A	1.6	26.7
4	H71392	Air	2007/09/28	0.34	1.8	23.4
5	H71393	Air	2007/09/28	N/A	1.8	19.3
7	H71394	Air	2007/09/28	N/A	1.8	25.0
8	H71395	Air	2007/09/27	N/A	0.6	21.2
9	H71396	Air	2007/09/27	0.14	2.2	19.2
10	H71397	Air	2007/09/27	0.06	0.7	18.4
11	H71398	Air	2007/09/27	0.08	1.2	15.3
12	H71399	Air	2007/09/28	0.05	1.4	22.0
13	H71400	Air	2007/09/27	0.07	2.5	24.2
14	H71401	Air	2007/09/27	N/A	1.6	21.2
15	H71402	Air	2007/09/28	0.13	1.9	21.9
16	H71403	Air	2007/09/28	0.18	2.7	19.6
17	H71404	Air	2007/09/28	0.07	1.5	17.8
18	H71405	Air	2007/09/28	N/A	1.2	23.4
19	H71406	Air	2007/09/28	0.08	2.5	20.4
20	H71407	Air	2007/09/27	N/A	MISSING	MISSING
21	H71408	Air	2007/09/28	0.05	4.1	18.0
2A	H71409	Air	2007/09/27	0.08	2.2	21.9
9A	H71410	Air	2007/09/27	0.13	2.6	20.2
22	H71413	Air	2007/09/27	0.03	N/A	N/A
23	H71414	Air	2007/09/27	0.13	N/A	N/A
24	H71415	Air	2007/09/27	0.09	N/A	N/A
25	H71416	Air	2007/09/27	N/A	5.6	19.0

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

Maxxam Job Number : PA753434
Report Date : 2007/11/20

Sample Description	Set Number	Matrix	Date Sampled	Calculated SO2 ppb
1	H71389	Air	2007/09/27	0.2
2	H71390	Air	2007/09/27	0.4
3	H71391	Air	2007/09/28	0.4
4	H71392	Air	2007/09/28	0.5
5	H71393	Air	2007/09/28	0.2
7	H71394	Air	2007/09/28	0.3
8	H71395	Air	2007/09/27	0.4
9	H71396	Air	2007/09/27	0.2
10	H71397	Air	2007/09/27	0.2
11	H71398	Air	2007/09/27	0.3
12	H71399	Air	2007/09/28	0.4
13	H71400	Air	2007/09/27	1.3
14	H71401	Air	2007/09/27	0.3
15	H71402	Air	2007/09/28	0.3
16	H71403	Air	2007/09/28	0.2
17	H71404	Air	2007/09/28	0.2
18	H71405	Air	2007/09/28	0.2
19	H71406	Air	2007/09/28	0.3
20	H71407	Air	2007/09/27	MISSING
21	H71408	Air	2007/09/28	0.3
2A	H71409	Air	2007/09/27	<0.1
9A	H71410	Air	2007/09/27	0.2
22	H71413	Air	2007/09/27	0.2
23	H71414	Air	2007/09/27	0.5
24	H71415	Air	2007/09/27	1.1
25	H71416	Air	2007/09/27	0.4

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

Quality Assurance Report

Maxxam Job Number: PA753434

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1947377	LM1	Calibration Check	Calculated O3	2007/11/06		96	%	91 - 107
		SPIKE	Calculated O3	2007/11/06		100	%	N/A
		BLANK	Calculated O3	2007/11/06	<0.1		ppb	
1972207	SY	Calibration Check	Calculated H2S	2007/11/20		114	%	80 - 120
		SPIKE	Calculated H2S	2007/11/20		99	%	N/A
1972208	DF4	Calibration Check	Calculated NO2	2007/11/20		99	%	76 - 118
		SPIKE	Calculated NO2	2007/11/20		104	%	N/A
		BLANK	Calculated NO2	2007/11/20	<0.1		ppb	
1972212	DF4	Calibration Check	Calculated SO2	2007/11/20		99	%	95 - 105
		SPIKE	Calculated SO2	2007/11/20		100	%	N/A
		BLANK	Calculated SO2	2007/11/20	<0.1		ppb	

N/A = Not Applicable

OCTOBER 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	09/27/07	10:00	10/28/07	11:05	
$H_2S/SO_2/NO_2/O_3$	2	0927/07	09:30	10/28/07	10:30	
$SO_2/NO_2/O_3$	3	09/28/07	16:30	10/29/07	15:25	
$H_2S/SO_2/NO_2/O_3$	4	09/28/07	15:55	10/29/07	14:55	
$SO_2/NO_2/O_3$	5	09/28/07	14:25	10/29/07	13:40	
$SO_2/NO_2/O_3$	7	09/28/07	17:20	10/29/07	16:10	
$SO_2/NO_2/O_3$	8	09/27/07	08:40	10/28/07	09:55	
$H_2S/SO_2/NO_2/O_3$	9	09/27/07	14:15	10/28/07	15:50	
$H_2S/SO_2/NO_2/O_3$	10	09/27/07	11:30	10/28/07	12:15	
$H_2S/SO_2/NO_2/O_3$	11	09/27/07	12:45	10/28/07	14:00	
$H_2S/SO_2/NO_2/O_3$	12	09/28/07	08:40	10/28/07	17:15	
$H_2S/SO_2/NO_2/O_3$	13	09/27/07	17:00	10/28/07	18:15	
$SO_2/NO_2/O_3$	14	09/27/07	07:45	10/28/07	09:05	
$H_2S/SO_2/NO_2/O_3$	15	09/28/07	13:00	10/29/07	12:10	
$H_2S/SO_2/NO_2/O_3$	16	09/28/07	13:40	10/29/07	12:55	
$H_2S/SO_2/NO_2/O_3$	17	09/28/07	12:15	10/29/07	11:20	
$SO_2/NO_2/O_3$	18	09/28/07	11:15	10/29/07	10:30	
$H_2S/SO_2/NO_2/O_3$	19	09/28/07	10:10	10/28/07	08:15	
$SO_2/NO_2/O_3$	20	09/27/07	18:15			SITE VANDALIZED
$H_2S/SO_2/NO_2/O_3$	21	09/28/07	15:15	10/29/07	14:10	
H_2S/SO_2	22	09/27/07	15:50	10/28/07	17:05	
H_2S/SO_2	23	09/27/07	16:40	10/28/07	18:00	
H_2S/SO_2	24	09/27/07	17:20	10/28/07	18:35	
$SO_2/NO_2/O_3$	25	09/27/07	08:20	10/28/07	09:40	
$H_2S/SO_2/NO_2/O_3$	2A	09/27/07	09:30	10/28/07	10:30	
$H_2S/SO_2/NO_2/O_3$	9A	09/27/07	14:15	10/28/07	15:50	