

Lakeland Industry & Community Association

Cold Lake Monitoring Site
Ambient Air Monitoring
Data Report
For
February 2010

Prepared By:



March 29, 2010

Lakeland Industry & Community Association Ambient Air Monitoring

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Introduction

The following Ambient Air Monitoring report was prepared for:

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Monitoring Location: Cold Lake
Data Period: February 2010

The monthly ambient data report:

- Prepared by Lily Lin
- Reviewed by Craig Snider

The monthly analytical report for passive monitoring:
Authorized by Levi Manchak

The 6-day analytical report for VOCs and PAHs:
Authorized by Petro Oh

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*.

MONTHLY CONTINUOUS DATA SUMMARY

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

Continuous Ambient Monitoring – February 2010

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION COLD LAKE SITE						MAXIMUM VALUES							OPERATIONAL TIME (PERCENT)
						1-HOUR					24-HOUR		
PARAMETER	OBJECTIVES		EXCEEDENCES		MONTHLY AVERAGE	READING	DAY	HOUR	WIND SPEED (KPH)	WIND DIRECTION (DEGREES)	READING	DAY	
	1-HR	24-HR	1-HR	24-HR									
SO ₂ (PPB)	172	57	0	0	0.12	5	13	11	6.7	121(ESE)	0.6	13	99.7
TRS (PPB)	-	-	-	-	0.00	0	ALL	ALL	VAR	VAR	ALL	ALL	99.7
NO ₂ (PPB)	212	106	0	0	6.97	34	18	6	0.4	78(ENE)	15.7	16	99.7
NO (PPB)	-	-	-	-	1.70	37	26	8	1.2	105(ESE)	11.1	17	99.7
NO _x (PPB)	-	-	-	-	8.88	65	18	6	0.4	78(ENE)	25.0	18	99.7
O ₃ (PPB)	82	-	0	-	26.66	47	28	VAR	VAR	VAR	41.2	27, 28	99.7
THC (PPM)	-	-	-	-	2.27	4.1	2	9	3.6	248(WSW)	2.9	16, 26	99.7
PM 2.5 (UG/M ³)	-	30	-	0	8.23	39.9	17	3	0.2	166(SSE)	19.3	17	99.7
TEMPERATURE (DEG C)	-	-	-	-	-10.28	3.1	27	13	9.5	108(ESE)	-1.1	27	99.7
RELATIVE HUMIDITY (%)	-	-	-	-	76.75	93.0	17	20, 21	5.4, 6.3	229(SW), 242(WSW)	90.2	12	99.7
VECTOR WS (KPH)	-	-	-	-	4.41	14.7	14	15	-	134(SE)	9.0	14	99.7
VECTOR WD (DEGREES)	-	-	-	-	138(SE)	-	-	-	-	-	-	-	99.7

VAR-VARIOUS

Monthly Non-Continuous Data Summary

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

Passive Ambient Monitoring Network – February 2010

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION PASSIVE NETWORK			
NETWORK MAXIMUM			NETWORK AVERAGE
PARAMETER	STATION	READING (PPB)	READING (PPB)
SO ₂	#14	1.5	0.9
H ₂ S	#5	0.38	0.20
NO ₂	#28	9.6	2.5
O ₃	#4	41.0	34.4

Volatile Volatile Organics Data Summary

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

Xontech Model 910A – February 01, 2010

Maximum reading (ug/m3)	Volatile Organic
<32	Hexachlorobutadiene

Xontech Model 910A – February 07, 2010

Maximum reading (ug/m3)	Volatile Organic
<32	Hexachlorobutadiene

Xontech Model 910A – February 13, 2010

Maximum reading (ug/m3)	Volatile Organic
<32	Hexachlorobutadiene

Xontech Model 910A – February 19, 2010

Maximum reading (ug/m3)	Volatile Organic
<32	Hexachlorobutadiene

Xontech Model 910A – February 25, 2010

Maximum reading (ug/m3)	Volatile Organic
<32	Hexachlorobutadiene

Polycyclic Aromatic Hydrocarbons (PAHs) Data Summary

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

PUF cartridge – January 26, 2010

Maximum reading (ng/m3)	Volatile Organic
6.054	3-Methylcholanthrene

PUF cartridge – February 01, 2010

Maximum reading (ng/m3)	Volatile Organic
7.780	Naphthalene

PUF cartridge – February 07, 2010

Maximum reading (ng/m3)	Volatile Organic
6.054	3-Methylcholanthrene

PUF cartridge – February 13, 2010

Maximum reading (ng/m3)	Volatile Organic
6.054	3-Methylcholanthrene

PUF cartridge – February 19, 2010

Maximum reading (ng/m3)	Volatile Organic
6.054	3-Methylcholanthrene

PUF cartridge – February 25, 2010

Maximum reading (ng/m3)	Volatile Organic
NA	NA

Note: no data was collected due to a lab issue with the PUF cartridge.

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

Sulphur Dioxide (PPB)

- Analyzer make / model – Thermo 43i, S/N: 806528242

No operational issues observed during the month. The inlet filter was changed before the monthly calibration was started. The datalogger was changed on February 4th causing two hours of data to be invalidated. Data was corrected using daily zero information.

Total Reduced Sulphur (PPB)

- Analyzer make / model –TEI 450i, S/N: 812728560
- Converter - CD NOVA CDN 101, S/N: 250

No operational issues observed during the month. The inlet filter was changed before the monthly calibration was started. The datalogger was changed on February 4th causing two hours of data to be invalidated. Data was corrected using daily zero information.

Total Hydrocarbon (PPM)

- Analyzer make / model -TECO 51C-LT, S/N: 427408718

No operational issues observed during the month. The inlet filter was changed before the monthly calibration was started. The datalogger was changed on February 4th causing two hours of data to be invalidated. Data was corrected using daily zero information.

General Monthly Summary - Cold Lake

AQM STATION – LICA – COLD LAKE

Nitrogen Dioxide (PPB)

- Analyzer make / model - TECO 42C, S/N: 427408716

No operational issues observed during the month. The inlet filter was changed before the monthly calibration was started. The datalogger was changed on February 4th causing two hours of data to be invalidated. Data was corrected using daily zero information.

Ozone (PPB)

- Analyzer make / model - TECO 49i, S/N: 700419951

No operational issues observed during the month. The inlet filter was changed before the monthly calibration was started. The datalogger was changed on February 4th causing two hours of data to be invalidated.

Particulate Matter 2.5 (ug/m³)

- Analyzer make / model –TEOM1405F, S/N: 1405A201620804

No operational issues observed during the month. The data logger was changed on February 4th causing two hours of data to be invalidated. A Teom audit with a Bios flow meter was performed on February 4th. The sample inlet was cleaned and new Teom and FDMS filters were installed on February 4th. A flow check on the Teom using a Chinook FTS was performed on February 12th; the flows measured well within the tolerance. Data was corrected using Alberta air quality guideline for PM2.5 analyzer. If the data was between 0 to –3, the data was corrected to 0. If the data was below –3, the data was invalidated. No data was invalidated as none of them was below –3.0 ug/m³.

Vector Wind Speed (KPH) & Vector Wind Direction (DEG)

- System make / model – Met One 50.5, S/N: F1644

No operational issues observed during the month. The wind system is reported as vector wind speed and vector wind direction. The datalogger was changed on February 4th causing two hours of data to be invalidated.

General Monthly Summary - Cold Lake

AQM STATION – LICA – COLD LAKE

Relative Humidity (PERCENT)

- System make / model - Rotronic Hygroclip-S3

No operational issues observed during the month. The datalogger was changed on February 4th causing two hours of data to be invalidated.

Ambient Temperature (DEGC)

- System make / model - Rotronic Hygroclip-S3

No operational issues observed during the month. The datalogger was changed on February 4th causing two hours of data to be invalidated.

Trailer Temperature (DEGC)

- System make / model - R&R 61

No operational issues observed during the month. The datalogger was changed on February 4th causing two hours of data to be invalidated.

Datalogger

- System make / model - ESC 8832, S/N: 263
- Software make / version - ESC v 5.51a

The ESC 8832 is connected to a modem with DSL for continuous connection with the base computer. The datalogger was changed on February 4th.

Trailer

No issue was observed during this month.

General Monthly Summary - Cold Lake

AQM STATION – LICA – COLD LAKE

Air Quality Index (AQI)

The AQI data was adjusted to reflect regular monthly and daily calibrations, maintenance, and downtime. Five hours of data were within the Fair range, and all were due to PM2.5. The highest hourly concentration of PM2.5 was 39.9 UG/M3 and an AQI value of 31 on February 17th, hour 3. The highest hourly concentration of Ozone was 47 ppb and an AQI value of 24 on February 28th, hour 14, 15, and 16.

Passive Network

No issue was observed during this month.

Volatile Organics (VOCs)

The volatile organics were sampled on February 1st, 7th, 13th, 19th, and 25th. The sampler was programmed to run for 24 hours, and, every 6 days per sample cycle.

The values for the VOCs in this report were reported as ug/m3.

Polycyclic Aromatic Hydrocarbons (PAHs)

The PAHs were sampled on February 1st, 7th, 13th and 19th. The sampler was programmed to run for 24 hours, and, every 6 days per sample cycle.

The values for the PAHs in this report were reported as ng/m3.

No data was collected on February 25th due to a lab issue with the PUF cartridge.

Continuous Monitoring

Monthly Summaries, Graphs & Wind Roses

Air Quality Index

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

AIR QUALITY INDEX (AQI)

MST		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	
DAY	HOURLY	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	
1	19	19	19	18	-	18	18	18	17	17	17	16	17	16	17	15	15	14	14	14	14	13	13	5	7	19	
	O3_	O3_	O3_	O3_	NA	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
2	7	4	5	-	5	6	9	8	4	10	9	11	12	13	13	12	12	11	11	10	9	9	9	8	13		
	PM2	PM2	O3_	NA	PM2	PM2	PM2	O3_	O3_	PM2	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
3	13	12	-	9	8	7	7	8	9	10	12	13	13	15	15	14	13	13	13	12	12	11	11	12	15		
	O3_	O3_	NA	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	PM2	O3_	PM2	PM2
4	11	-	14	17	18	18	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17	17	18		
	O3_	NA	O3_	O3_	O3_	O3_	O3_	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	O3_	O3_	O3_	O3_	O3_
5	-	17	16	16	16	15	16	15	16	17	17	18	18	18	18	17	15	12	14	14	15	17	17	-	18		
	NA	PM2	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	O3_	O3_	O3_	O3_	O3_	NA	O3_	O3_
6	16	16	16	16	15	15	15	15	15	16	18	19	18	18	17	16	16	15	18	18	18	17	-	18	19		
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	NA	O3_	O3_	O3_
7	18	18	18	17	17	17	17	17	-	18	18	17	17	17	17	17	18	18	16	16	17	-	17	18	18		
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	NA	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	NA	O3_	O3_	O3_	O3_
8	17	17	17	17	16	17	17	17	17	17	18	18	18	18	20	20	20	18	18	19	-	17	17	16	20		
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	NA	O3_	O3_	O3_	O3_	O3_	O3_
9	16	16	16	15	15	15	15	14	14	15	15	16	16	17	17	17	16	15	14	-	13	13	13	14	17		
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	NA	O3_	O3_	O3_	O3_	O3_	O3_	O3_
10	14	13	13	12	12	15	17	18	14	17	15	15	19	17	19	19	22	20	-	20	19	17	15	17	22		
	O3_	O3_	O3_	O3_	O3_	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	NA	PM2	PM2	PM2	PM2	PM2	PM2	O3_
11	15	14	15	26	22	14	12	11	11	13	12	9	11	12	14	13	12	-	5	5	7	5	8	10	26		
	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	O3_	O3_	O3_	O3_	O3_	O3_	NA	PM2	PM2	PM2	PM2	PM2	O3_	PM2	O3_	O3_
12	11	12	12	13	14	14	13	13	13	14	14	13	14	14	14	-	15	15	15	16	15	16	17	17			
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	NA	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
13	17	18	15	13	12	10	8	7	6	14	16	17	17	18	20	-	20	19	19	18	18	18	17	17	20		
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	NA	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
14	17	17	17	17	17	18	17	16	16	18	18	19	19	20	-	21	21	21	20	20	20	19	19	19	21		
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	NA	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
15	19	18	18	18	16	14	13	8	10	17	17	18	18	-	18	17	16	14	9	8	7	7	8	7	19		
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	NA	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	PM2	PM2	O3_	
16	5	8	8	5	7	9	15	18	20	17	11	10	-	12	12	13	13	10	5	7	7	6	7	2	20		
	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	NA	PM2	O3_	O3_	O3_	O3_	PM2	PM2	PM2	PM2	PM2	PM2	PM2	O3_	
17	20	27	27	31	26	23	22	22	19	17	15	-	14	16	17	16	16	15	14	14	13	13	13	10	31		
	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	NA	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	
18	9	7	7	7	7	11	15	11	8	9	-	12	13	15	16	17	17	13	4	9	8	7	4	2	17		
	O3_	O3_	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	NA	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	
19	5	6	5	5	4	5	13	16	18	-	17	18	18	18	18	17	15	16	17	18	18	18	17	18	18		
	PM2	O3_	O3_	O3_	PM2	PM2	O3_	O3_	O3_	NA	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	
20	17	17	18	19	19	18	18	17	-	19	19	19	19	19	19	19	19	19	19	18	13	12	10	11	12	19	
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	NA	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	
21	10	16	17	18	19	19	18	-	18	18	18	17	17	18	18	19	16	13	11	12	10	9	18	19			
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	NA	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	PM2	PM2	O3_	O3_	PM2	O3_	
22	18	18	18	18	18	18	-	18	18	18	18	19	19	20	20	17	12	7	5	6	4	4	4	20			
	O3_	O3_	O3_	O3_	O3_	O3_	NA	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	O3_	O3_	O3_	O3_	
23	6	9	7	6	6	-	6	4	7	11	14	16	17	18	17	18	18	17	18	17	16	15	12	10	7	19	
	PM2	PM2	PM2	PM2	NA	PM2	PM2	PM2	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
24	19	19	19	19	-	18	18	18	17	17	17	17	18	17	18	17	16	15	12	10	7	12	9	19			
	O3_	O3_	O3_	O3_	NA	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	PM2	PM2	PM2	PM2	O3_	
25	9	11	12	-	11	9	10	14	11	14	15	15	15	15	16	15	18	17	11	10	12	16	15	12	18		
	PM2	PM2	PM2	NA	PM2	PM2	PM2	PM2	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	PM2	PM2	PM2	PM2	O3_	
26	15	13	-	10	8	7	11	14	12	15	15	20	18	17	17	17	16	14	20	17	17	18	19	21	21		
	PM2	O3_	NA	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	O3_	O3_	O3_	O3_	O3_	PM2	PM2	PM2	PM2	O3_	O3_	O3_	O3_	
27	21	-	21	21	21	20	19	19	19	20	21	22	22	21	21	21	22	21	21	21	22	22	21	21	22		
	O3_	NA	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	
28	-	22	22	21	21	21	22	22	22	22	22	22	22	23	23	24	24	24	23	20	20	15	14	11	-	24	
	NA	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	NA	O3_	
PEAK	21	27	27	31	26	23	22	22	22	22	22	22	22	23	23	24	24	24	23	21	21	22	22	21	21		
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	

STATUS FLAG CODES NA - NOT APPLICABLE

V - VARIOUS

AQI CLASS	OZONE (O ₃)					PARTICULATE MATTER 2.5 (PM _{2.5})					NITROGEN DIOXIDE (NO ₂)					SULPHUR DIOXIDE (SO ₂)					FREQUENCY	
	HRS	%	MAX AQI	HR	DAY	HRS	%	MAX AQI	HR	DAY	HRS	%	MAX AQI	HR	DAY	HRS	%	MAX AQI	HR	DAY	HRS	%
VERY POOR (101-255)	0	0.0%	-	-	-	0	0.0%	-	-	-	0	0.0%	-	-	-	0	0.0%	-	-	-	0	0.0%
POOR (51-100)	0	0.0%	-	-	-	0	0.0%	-	-	-	0	0.0%	-	-	-	0	0.0%	-	-	-	0	0.0%
FAIR (26-50)	0	0.0%	-	-	-	5	0.7%	31	3	17	0	0.0%	-	-	-							

Sulphur Dioxide

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

SULPHUR DIOXIDE (SO₂) hourly averages in ppb

MST

DAY	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 MAX.	24-HOUR AVG.	RDGS.	
1	0	0	0	0	IZS	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0.3	24	
2	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	0.0	24
3	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	0.2	24	
4	0	IZS	0	0	0	0	1	M	M	1	0	C	C	C	C	1	1	0	0	0	0	0	0	0	1	0.2	22	
5	IZS	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.2	24	
6	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24	
7	0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	1	1	IZS	1	0	1	0.1	24	
8	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	IZS	0	0	0	1	0.2	24	
9	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	
10	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	IZS	0	0	0	0	0	1	0.3	24	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	IZS	0	0	0	0	0	0	1	0.1	24	
12	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	
13	0	0	0	0	0	0	0	0	0	0	2	5	3	2	1	IZS	0	0	0	0	0	0	0	0	5	0.6	24	
14	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	
15	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	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	IZS	1	1	1	1	0	0	0	0	0	0	1	0.2	24	
17	0	0	0	0	0	0	0	0	0	0	0	IZS	0	0	1	1	1	0	0	0	0	0	0	0	1	0.1	24	
18	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	
19	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	
20	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	
21	0	0	0	0	0	0	0	IZS	0	0	0	0	2	2	1	1	0	0	0	0	0	0	0	0	2	0.3	24	
22	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	
23	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	
24	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	
25	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	
26	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0.0	24	
27	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	
28	IZS	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	IZS	1	0.5	24	
HOURLY MAX	1	1	1	1	0	0	NA	1	1	1	2	5	3	2	1	1	1	1	0	1	1	1	1	1	1			
HOURLY AVG	0.0	0.1	0.0	0.0	0.0	0.0	NA	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.0	0.0	0.1	0.1	0.0	0.1	0.0				

STATUS FLAG CODES

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

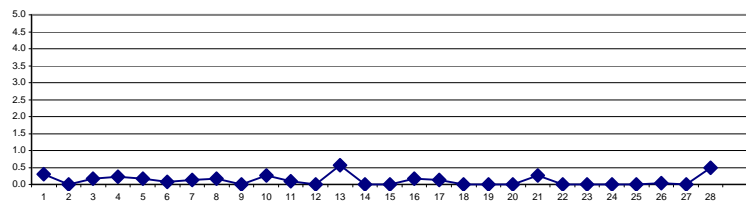
OBJECTIVE LIMIT:

ALBERTA ENVIRONMENT:	1-HR	172	PPB	24-HR	57	PPB
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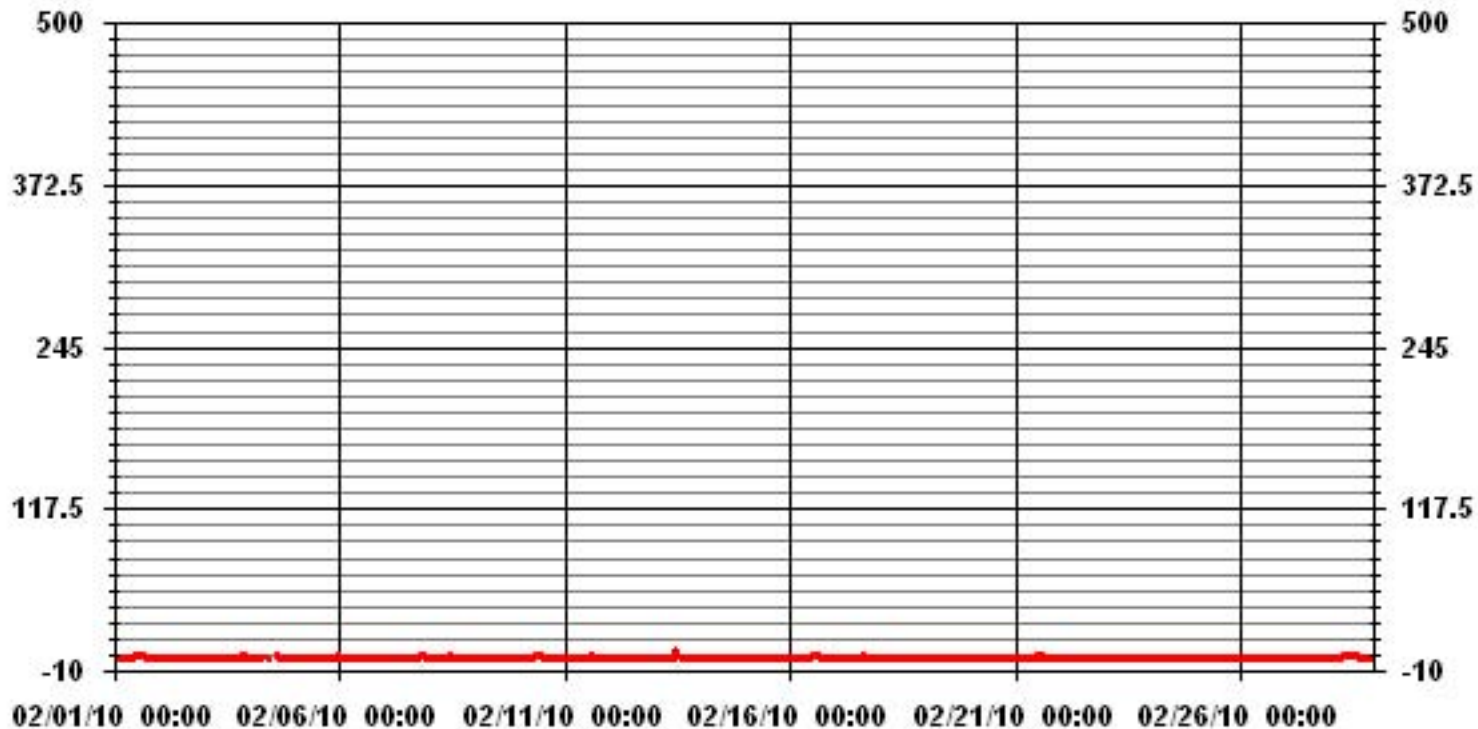
MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0					
NUMBER OF 24-HR EXCEEDENCES:	0					
NUMBER OF NON-ZERO READINGS:	64					
MAXIMUM 1-HR AVERAGE:	5	PPB	@ HOUR(S)	11	ON DAY(S)	13
MAXIMUM 24-HR AVERAGE:	0.6	PPB			ON DAY(S)	13
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	4	HRS	AMD OPERATION UPTIME:	99.7	%	
STANDARD DEVIATION:	0.40		MONTHLY AVERAGE:	0.12	PPB	

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



— LICA SO2_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

SULPHUR DIOXIDE MAX instantaneous maximum in ppb

MST		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	
HOURLY MAX	HOURLY AVG	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	IZS	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0.7	24	
2		0	0	0	IZS	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0.6	24	
3		1	0	IZS	0	0	0	0	0	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0.6	24	
4		1	IZS	1	1	1	1	1	M	M	2	1	C	C	C	C	2	1	1	0	0	0	1	1	1	0.9	22	
5		IZS	1	1	1	1	1	1	0	0	0	0	1	1	1	1	0	1	0	0	0	0	0	1	1	0.6	24	
6		1	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.3	24	
7		0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	0	1	0	1	0	1	1	1	IZS	1	0.3	24	
8		1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	IZS	0	0	0.6	24	
9		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	IZS	0	0	0	0.0	24	
10		0	0	0	0	0	0	0	1	1	2	2	1	1	1	1	1	1	0	IZS	0	0	0	0	0	0.5	24	
11		0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	IZS	0	0	0	0	0	0	0.2	24	
12		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	
13		0	0	0	0	0	0	0	0	0	0	5	6	4	3	2	IZS	0	0	0	0	0	1	1	0	6	1.0	24
14		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	
15		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	
16		0	0	0	0	0	0	0	0	0	0	0	0	IZS	2	1	2	2	0	0	0	0	0	0	0	2	0.3	24
17		0	0	0	0	0	0	0	0	0	0	0	0	IZS	0	0	1	1	1	1	0	0	0	0	0	0.2	24	
18		0	0	0	0	0	0	0	0	0	0	0	IZS	0	0	0	0	1	1	0	0	0	0	0	0	0.1	24	
19		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	
20		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	
21		0	0	0	0	0	0	0	0	IZS	0	0	0	1	3	3	2	1	0	0	0	0	0	0	0	3	0.4	24
22		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	
23		0	0	0	0	0	IZS	0	0	0	0	0	0	0	1	1	0	0	1	1	1	0	0	0	1	0.2	24	
24		0	0	0	0	IZS	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	0.2	24	
25		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	
26		0	0	IZS	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	1	1	1	0	0	0.3	24	
27		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	
28		IZS	0	0	0	0	0	1	1	1	1	2	1	1	1	1	1	1	1	0	0	0	0	0	IZS	2	0.6	24
HOURLY MAX		1	1	1	1	1	1	1	1	2	5	6	4	3	2	2	2	2	1	1	1	1	1	1				
HOURLY AVG		0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.5	0.5	0.6	0.7	0.6	0.6	0.6	0.3	0.2	0.2	0.2	0.2	0.2	0.1				

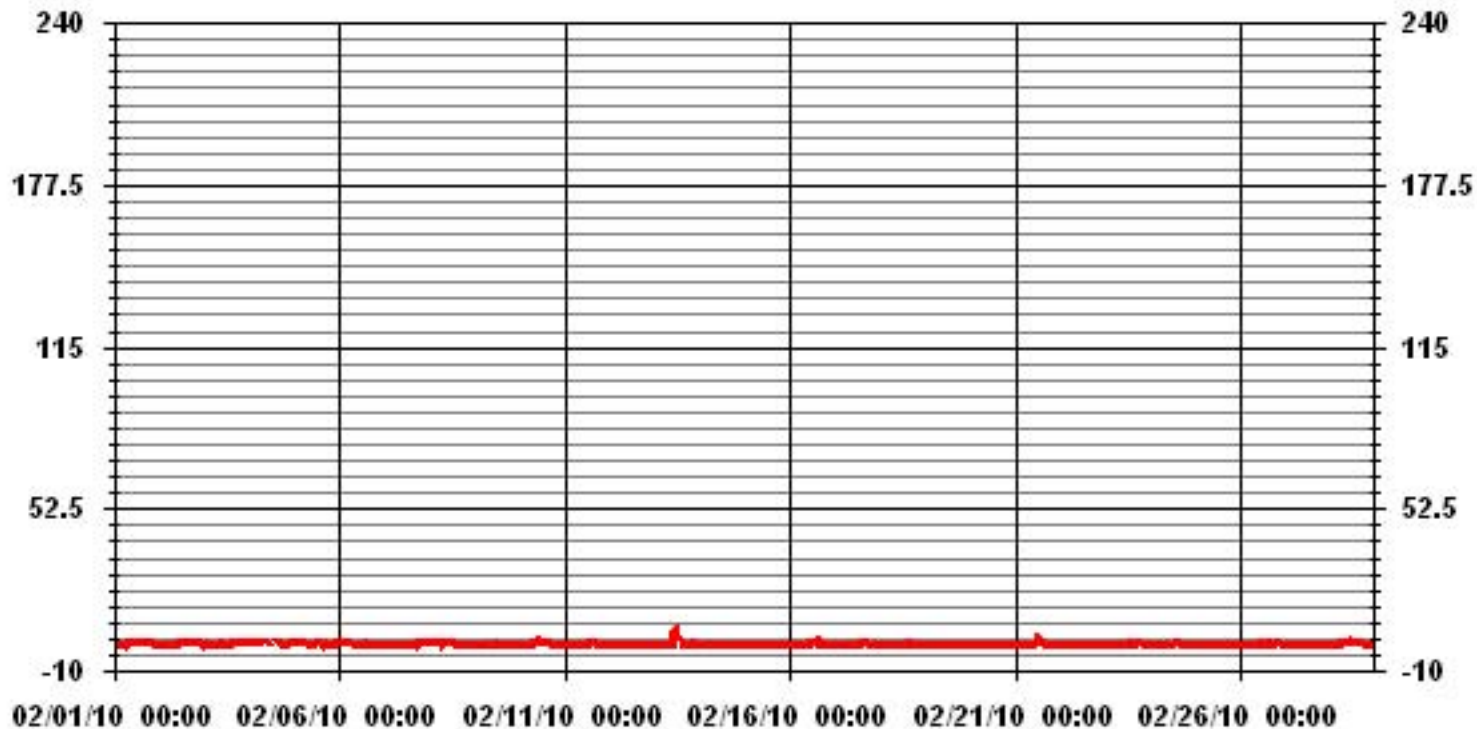
STATUS FLAG CODES

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

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	160					
MAXIMUM INSTANTANEOUS VALUE:	6	PPB	@ HOUR(S)	11	ON DAY(S)	13
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	4	HRS				
STANDARD DEVIATION:	0.60					

01 Hour Averages



— LICA SO2MAX PPB

LICA
 SO2_ / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 01
 Site Name : LICA
 Parameter : SO2_
 Units : PPB

Wind Parameter : WDR
 Instrument Height : 10 Meters

Limit	Direction																Freq
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
< 20	3.45	1.72	2.82	4.08	11.45	13.81	22.29	2.98	2.98	6.75	13.18	8.00	3.45	.78	.78	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	3.45	1.72	2.82	4.08	11.45	13.81	22.29	2.98	2.98	6.75	13.18	8.00	3.45	.78	.78	1.41	

Calm : .00 %

Total # Operational Hours : 637

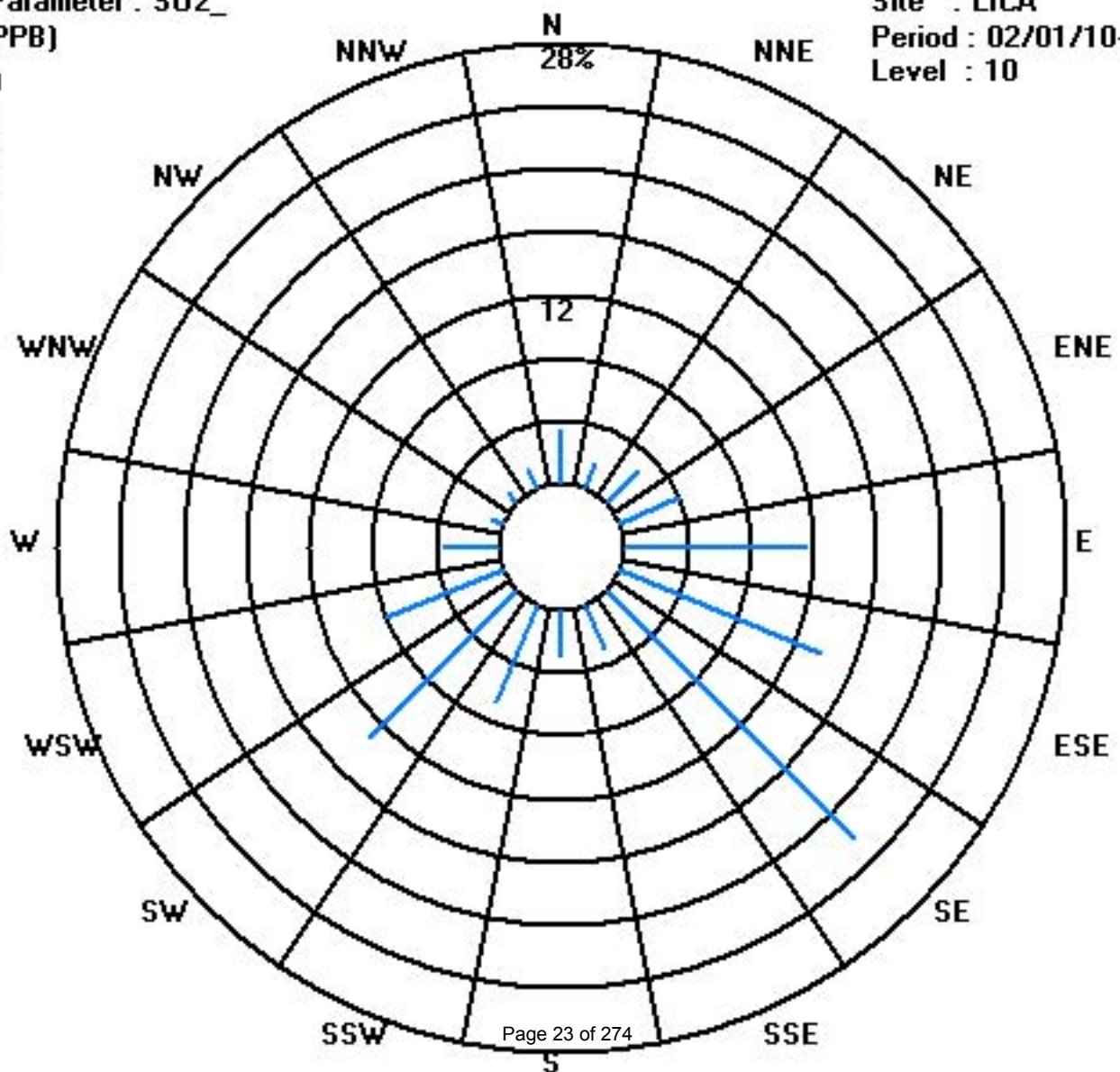
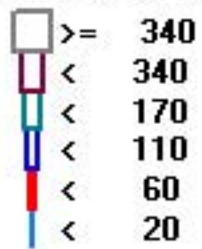
Distribution By Samples

Limit	Direction																Freq
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
< 20	22	11	18	26	73	88	142	19	19	43	84	51	22	5	5	9	637
< 60																	
< 110																	
< 170																	
< 340																	
>= 340																	
Totals	22	11	18	26	73	88	142	19	19	43	84	51	22	5	5	9	

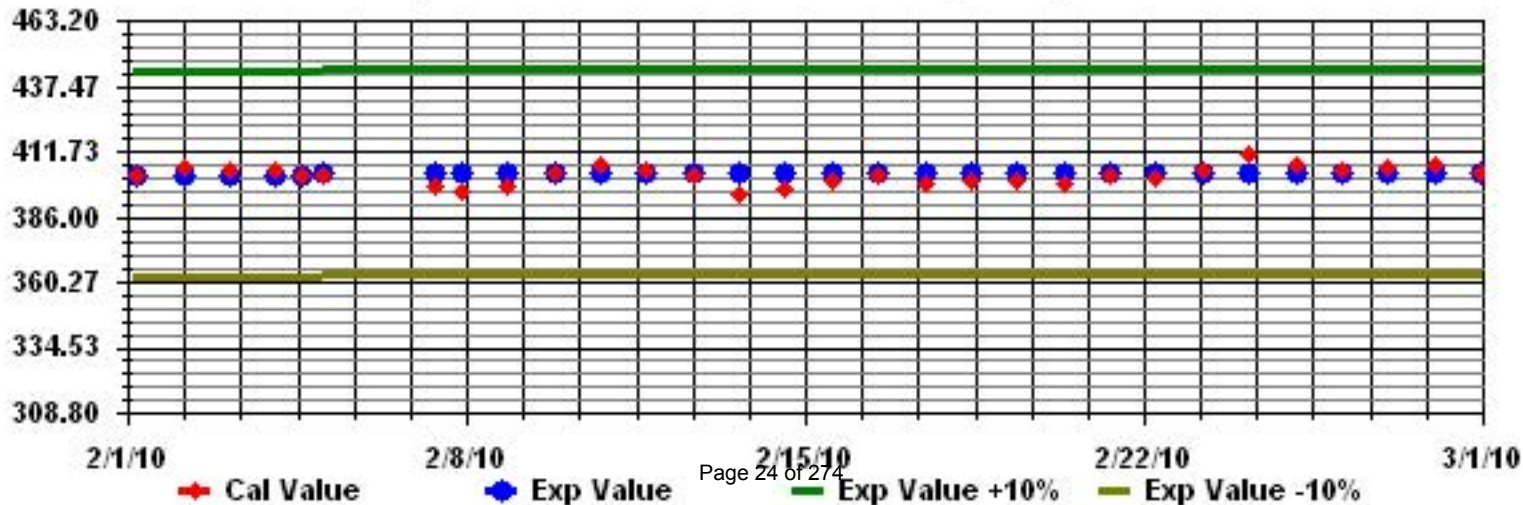
Calm : .00 %

Total # Operational Hours : 637

Class Limits (PPB)



Calibration Graph for Site: LICA Parameter: SO2_ Sequence: SO2 Phase: SPAN



Total Reduced Sulphur

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

TOTAL REDUCED SULPHUR (TRS) hourly averages in ppb

MST

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 MAX.	24-HOUR AVG.	RDGS.
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	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
2	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
3	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
4	0	IZS	0	0	0	0	0	M	M	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	22
5	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
6	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
7	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
8	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
9	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
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	0	0.0	24
11	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
12	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
13	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
14	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
15	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
16	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
17	0	0	0	0	0	0	0	0	0	0	0	IZS	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
18	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
19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	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
27	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
28	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

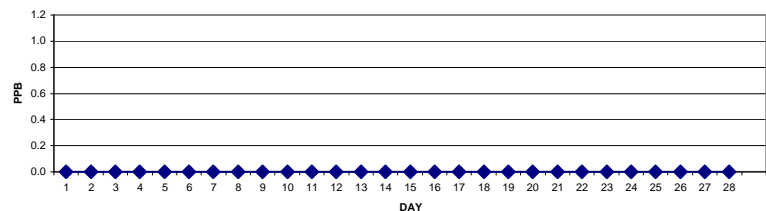
OBJECTIVE LIMIT:

ALBERTA ENVIRONMENT:	1-HR	172	PPB	24-HR	57	PPB
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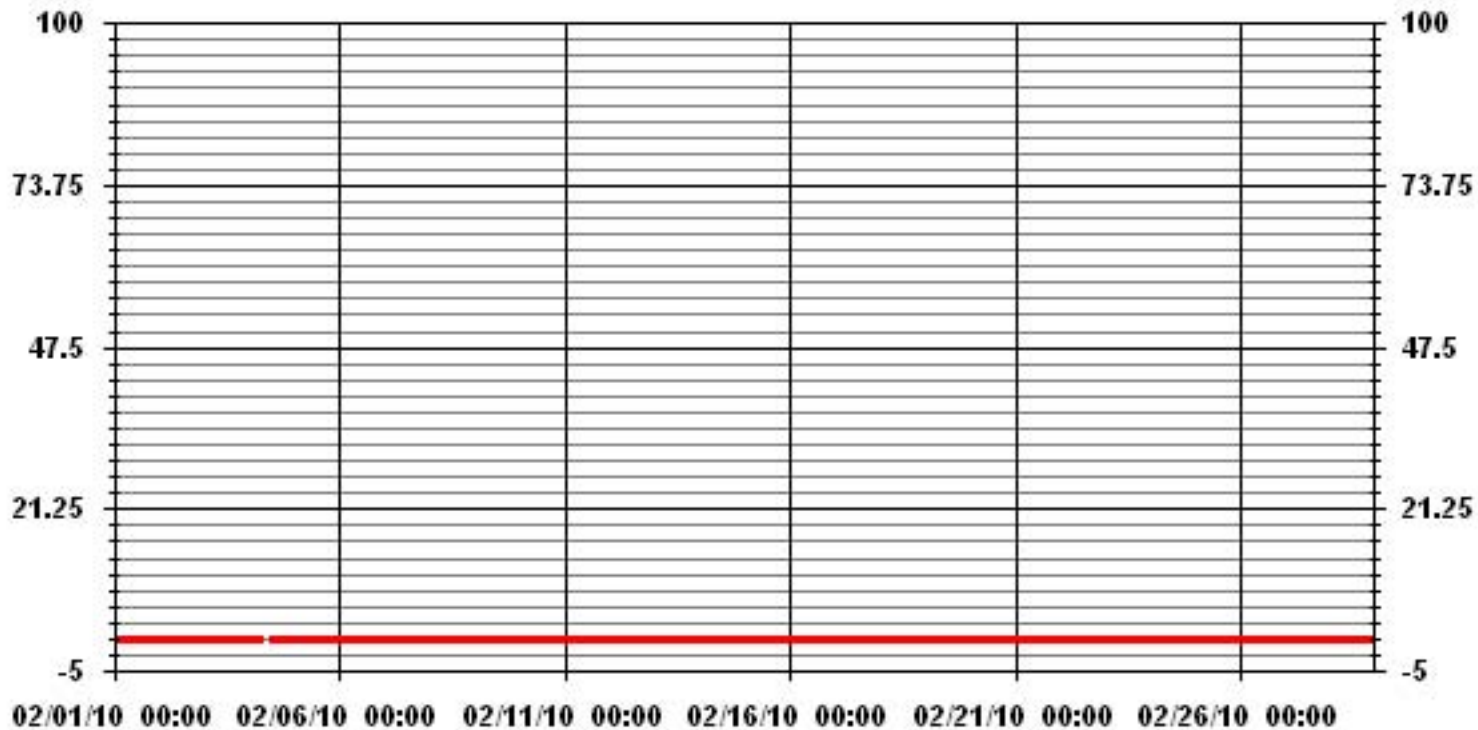
MONTHLY SUMMARY

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:	30 HRS
MONTHLY CALIBRATION TIME:	3 HRS
STANDARD DEVIATION	0.00
OPERATIONAL TIME:	670 HRS
AMD OPERATION UPTIME	99.7 %
MONTHLY AVERAGE	0.00 PPB

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



— LICA TRS_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

TOTAL REDUCED SULPHUR MAX instantaneous maximum in ppb

MST																									DAILY	24-HOUR		
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	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
2	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	0.0	24
3	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	0.0	24
4	0	IZS	0	0	0	0	0	M	M	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	22	
5	IZS	0	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
6	0	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
7	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	0.0	24
8	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	0.0	24
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	IZS	IZS	0	0	0	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	IZS	0	0	0	0	0	0	0.0	24
11	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	0.0	24
12	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	0.0	24
13	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	0.0	24
14	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	0.0	24
15	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	0.0	24
16	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	0.0	24
17	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	0.0	24
18	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	0.0	24
19	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	0.0	24
20	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	0.0	24
21	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	0.0	24
22	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	0.0	24
23	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	0.0	24
24	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	0.0	24
25	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	0.0	24
26	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	0.0	24
27	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	0.0	24
28	IZS	0	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	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	0.0	0.0		

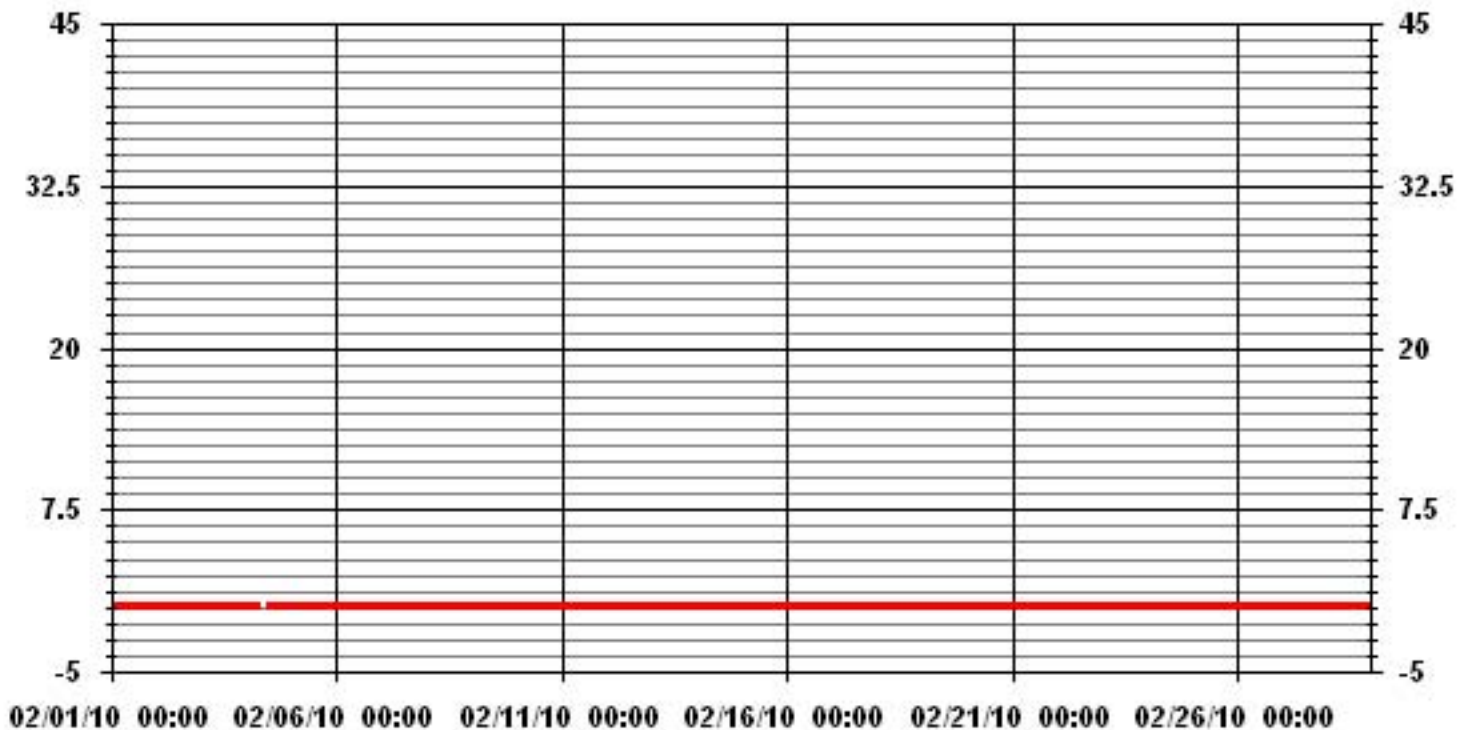
STATUS FLAG CODES

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

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	0					
MAXIMUM INSTANTANEOUS VALUE:	0	PPB	@ HOUR(S)	ALL	ON DAY(S)	ALL
				VAR - VARIOUS		
IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	3	HRS				
STANDARD DEVIATION:	0.00					

01 Hour Averages



— LICA TRS MAX PPB

LICA
 TRS_ / WD Joint Frequency Distribution (Percent)

February 2010

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	3.45	1.72	2.82	4.08	11.45	13.81	22.13	2.98	3.13	6.75	13.18	8.00	3.45	.78	.78	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	3.45	1.72	2.82	4.08	11.45	13.81	22.13	2.98	3.13	6.75	13.18	8.00	3.45	.78	.78	1.41	

Calm : .00 %

Total # Operational Hours : 637

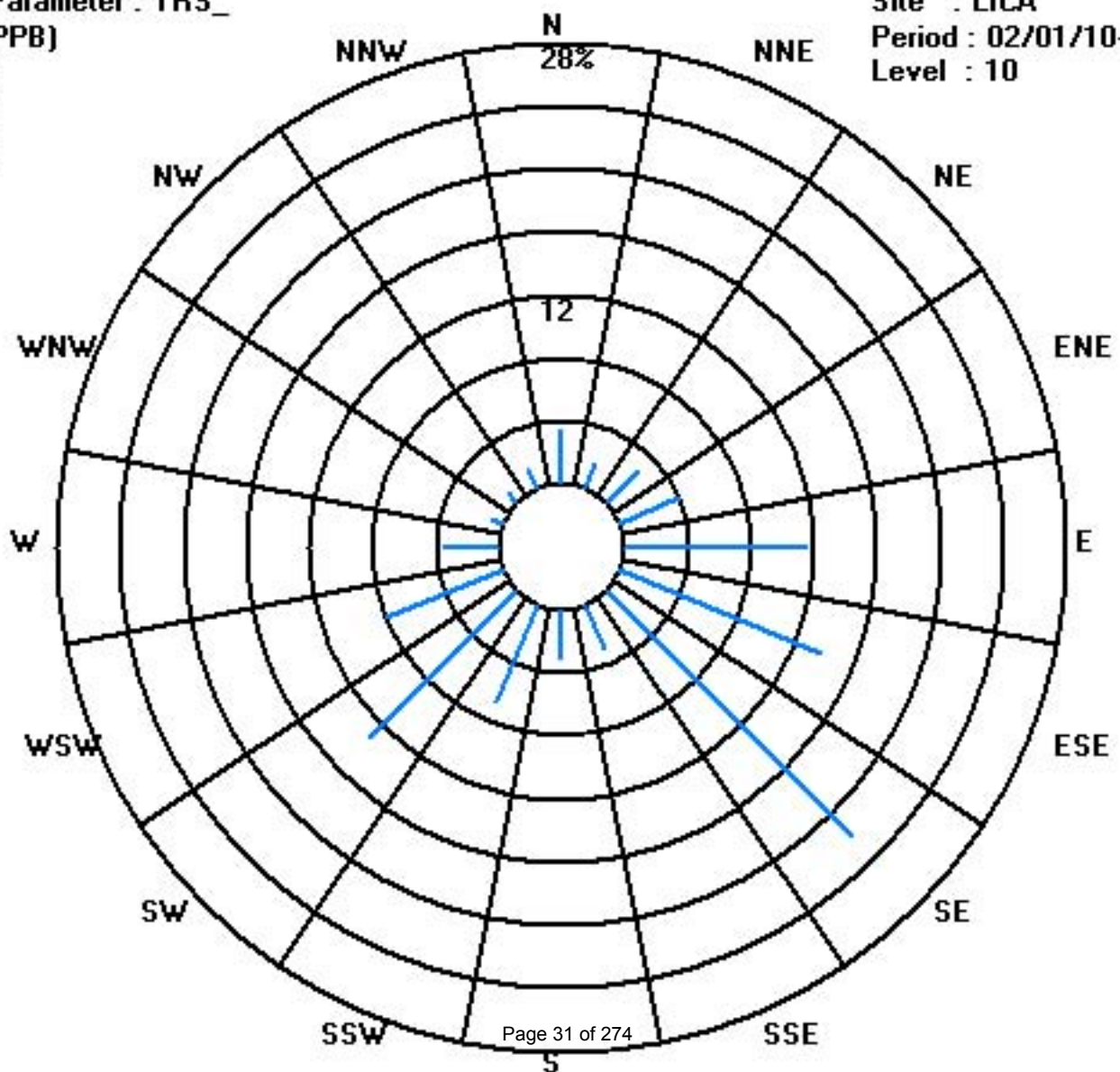
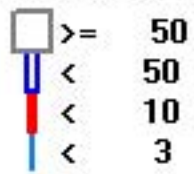
Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3	22	11	18	26	73	88	141	19	20	43	84	51	22	5	5	9	637
< 10																	
< 50																	
>= 50																	
Totals	22	11	18	26	73	88	141	19	20	43	84	51	22	5	5	9	

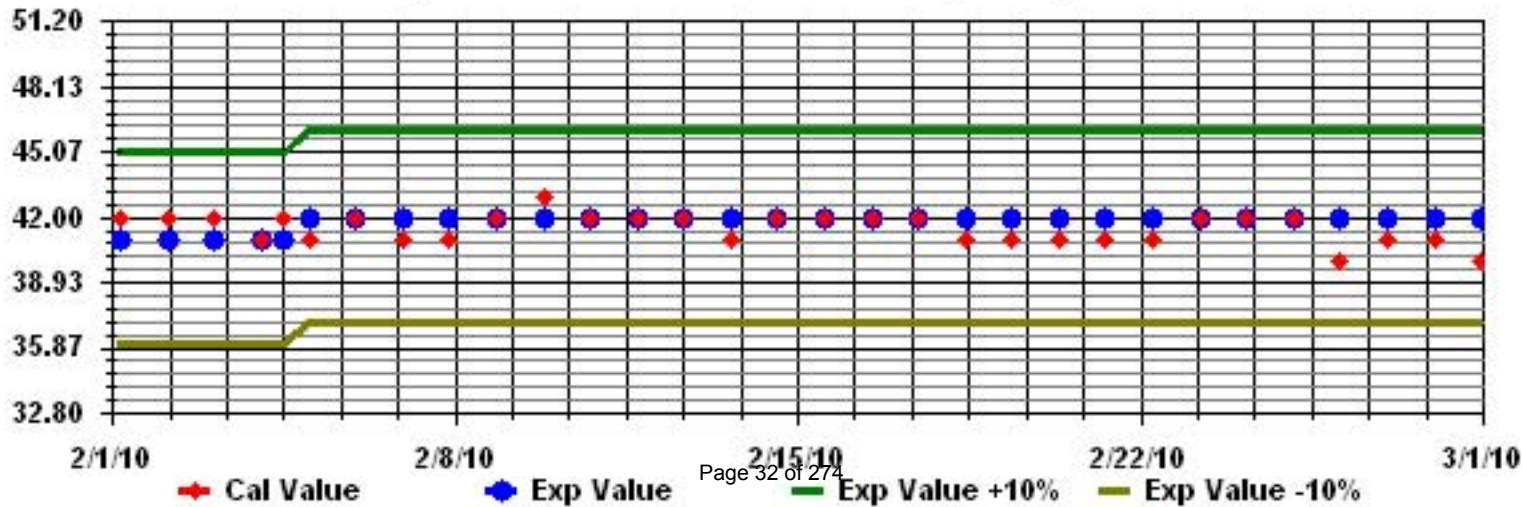
Calm : .00 %

Total # Operational Hours : 637

Class Limits (PPB)



Calibration Graph for Site: LICA Parameter: TRS_ Sequence: TRS Phase: SPAN



Total Hydrocarbons

01 Hour Averages



— LICA — THC — PPM

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

TOTAL HYDROCARBONS MAX instantaneous maximum in ppr

MST																									DAILY	24-HOUR		
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	0:00	MAX.	AVG.	RDGS.
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	1.9	1.9	1.9	1.9	IZS	2	2	2	2.2	2.1	2.1	2.1	2.2	2.2	2.2	2.2	4.3	2.4	2	2.9	3	2.1	2.2	2.1	4.3	2.3	24	
2	2.1	2.1	2.1	IZS	2.3	2.4	2.5	2.9	3.9	4.2	4.2	3.6	3.4	2.8	2.6	2.6	2.7	2.6	2.6	2.4	2.5	2.4	2.3	2.3	4.2	2.8	24	
3	2.3	2.4	IZS	2.5	2.7	2.8	2.8	2.5	2.5	2.3	2.2	2.2	2.2	2	2.1	2.2	2.2	2.4	2.2	2.4	2.8	3.2	3.5	3.5	3.5	2.5	24	
4	3.5	IZS	2.9	2.3	2.2	2.1	2.2	M	M	2.1	2.2	2.2	2.2	2.2	C	C	C	C	C	2.2	2.2	2.2	2.3	2.3	3.5	2.3	22	
5	IZS	2.4	2.5	2.5	2.4	2.4	2.4	2.5	2.3	2.2	2.3	2.3	2.9	2.3	2.3	2.6	2.5	2.4	2.3	2.5	2.2	3.5	2.2	3.5	2.4	24		
6	IZS	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.1	2.1	3.2	3.2	2.2	2.2	2.1	2.8	2.1	2.1	2.1	3.2	2.3	24		
7	IZS	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.1	2.1	2.4	2.1	2.1	2.1	2.3	2.5	3	3	2.2	2.2	IZS	2.1	2.1	3	2.2	24	
8	2.1	2.1	2.2	2.2	2.2	2.7	2.2	2.2	3.3	2.3	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	IZS	2.2	2.1	2.2	3.3	2.3	24	
9	2.2	2.2	2.2	2.3	2.3	2.3	2.3	3	2.8	2.6	2.4	2.3	2.4	2.4	2.6	2.6	2.6	2.6	2.6	IZS	2.6	2.6	2.6	2.6	3	2.5	24	
10	2.6	2.7	2.7	2.7	3.1	3.2	3.1	2.9	2.8	2.8	2.8	2.8	2.7	2.7	2.6	2.7	2.8	2.6	IZS	2.6	2.6	2.6	2.7	2.8	3.2	2.8	24	
11	2.8	2.8	3.1	3.3	3.1	2.9	2.9	3.1	3.1	3	2.7	2.4	2.4	2.3	2.4	2.1	2.5	IZS	2.2	2.5	2.4	2.3	2.2	2.2	3.3	2.6	24	
12	2.1	2.1	2	2	2	2.1	2.1	2.1	2.1	2	2.1	2.1	2	2	2	2	IZS	2.1	2	2	2	2.1	2	2	2.1	2.0	24	
13	2	2	2.1	2.3	2.2	2.2	2.1	2.2	2.4	2.4	2.2	2.1	2.1	3.5	2.1	IZS	2.9	2.1	2.2	3	2.4	2.4	2.4	2.3	3.5	2.3	24	
14	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.3	2.2	2.1	2.1	2.1	2.1	IZS	2	2	2	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.2	24
15	2.1	2.1	2.2	2.2	2.2	2.2	2.4	2.3	2.6	2.4	2.5	2.5	2.5	IZS	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.9	2.8	3.1	3.1	2.5	24	
16	3.2	3.3	3.2	3.3	3.4	3.4	3.2	3.4	3.8	4	3.8	3.8	IZS	3.4	3.6	3.5	2.5	2.5	2.4	2.5	2.6	2.6	2.7	2.8	4	3.2	24	
17	2.8	2.9	3	3	3	3.1	3.1	3.2	4.5	3.1	2.7	IZS	2.5	2.6	2.3	2.3	2.5	2.3	2.3	2.2	2.3	2.3	2.4	2.4	4.5	2.7	24	
18	2.5	2.8	2.8	2.8	2.9	3.2	3.5	3.4	3.2	3.2	IZS	2.8	2.6	2.5	2.3	2.2	2.2	2.3	2.3	2.3	2.5	2.4	2.2	2.3	3.5	2.7	24	
19	2.3	2.5	2.3	2.5	2.6	4.4	2.6	2	2	IZS	2	2	2	2	2	2.1	2	2.7	2	2.1	2	2	2	2	4.4	2.3	24	
20	2	2	2	2	2	2	2	2	IZS	2	2.1	2	2.1	2.1	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.3	2.4	2.4	2.4	2.1	24	
21	2.4	2.4	2.2	2.2	2	2.1	2.2	IZS	2.2	2.2	2.3	2.5	2.2	2.4	2.2	2.3	2.1	2.1	2.1	2.2	2.8	2.4	2.3	2	2.8	2.3	24	
22	1.9	1.9	1.9	1.9	2	2	IZS	2	2	2	2	2	2	2	2	2	5	2	2.2	2.2	2.1	2.1	2.1	2.2	5	2.2	24	
23	2.2	2.4	2.3	2.5	2.5	IZS	2.4	2.3	2.4	2.6	2.8	2.7	2.5	2.2	2.2	2.3	2.3	2.3	2.2	2.1	2.1	2	2	2	2.8	2.3	24	
24	2	2	2.1	2.1	IZS	2	2.1	2.1	2.1	2.2	2.3	2.4	2.3	2.2	2.3	2.4	2.3	2.5	2.5	2.5	2.5	2.5	2.7	3	3	2.3	24	
25	2.8	2.7	3.1	IZS	2.7	2.7	3.3	3.2	2.9	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.2	2.7	2.4	2.6	2.7	3	3.2	3.2	3.3	2.6	24	
26	3.4	3.4	IZS	3.4	3.4	3.8	3.8	3.8	4.9	2.9	2.9	2.9	2.9	2.9	2.8	2.8	3	2.8	7.9	2.9	2.9	2.5	2.5	2.4	2.2	7.9	3.3	24
27	2.1	IZS	2.1	2	2	2	2.1	2	2.2	2.2	2	1.9	1.9	2	2.1	2	1.9	1.9	1.9	2	2.1	1.9	1.9	2	2.2	2.0	24	
28	IZS	2	2	2	1.9	2	2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.4	2.3	2.2	2.2	2.4	2.4	2.4	2.4	2.5	IZS	2.5	2.2	24	
HOURLY MAX	4	3	3	3	3	4	4	4	5	4	4	4	3	4	4	4	5	8	3	3	3	3	4	4				
HOURLY AVG	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.7	2.5	2.4	2.4	2.3	2.4	2.4	2.4	2.6	2.6	2.3	2.4	2.4	2.4	2.4	2.4				

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:	635					
MAXIMUM INSTANTANEOUS VALUE:	7.9	PPM	@ HOUR(S)	17	ON DAY(S)	26
IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	670 HRS		
MONTHLY CALIBRATION TIME:	5	HRS				
STANDARD DEVIATION:	0.51					

01 Hour Averages



— LICA THCMAX PPM

LICA
 THC / WD Joint Frequency Distribution (Percent)

February 2010

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	3.30	1.72	2.67	3.77	10.37	12.73	22.01	2.98	2.67	6.44	12.57	7.23	2.51	.47	.78	1.25	93.55
< 10.0	.15	.00	.15	.31	1.10	.94	.31	.15	.31	.15	.62	.78	.94	.31	.00	.15	6.44
< 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	3.45	1.72	2.83	4.08	11.47	13.67	22.32	3.14	2.98	6.60	13.20	8.01	3.45	.78	.78	1.41	

Calm : .00 %

Total # Operational Hours : 636

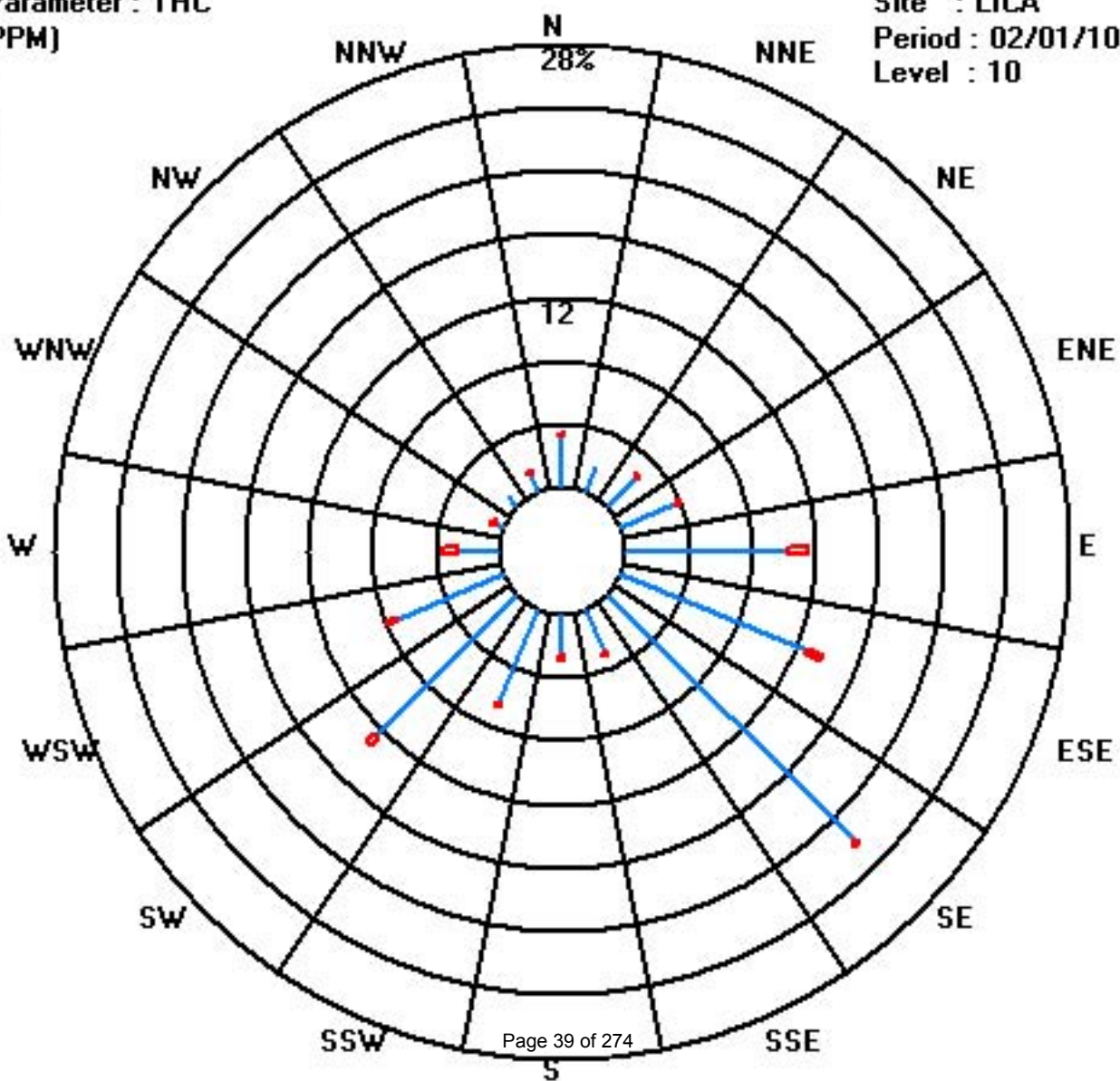
Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3.0	21	11	17	24	66	81	140	19	17	41	80	46	16	3	5	8	595
< 10.0	1		1	2	7	6	2	1	2	1	4	5	6	2		1	41
< 50.0																	
>= 50.0																	
Totals	22	11	18	26	73	87	142	20	19	42	84	51	22	5	5	9	

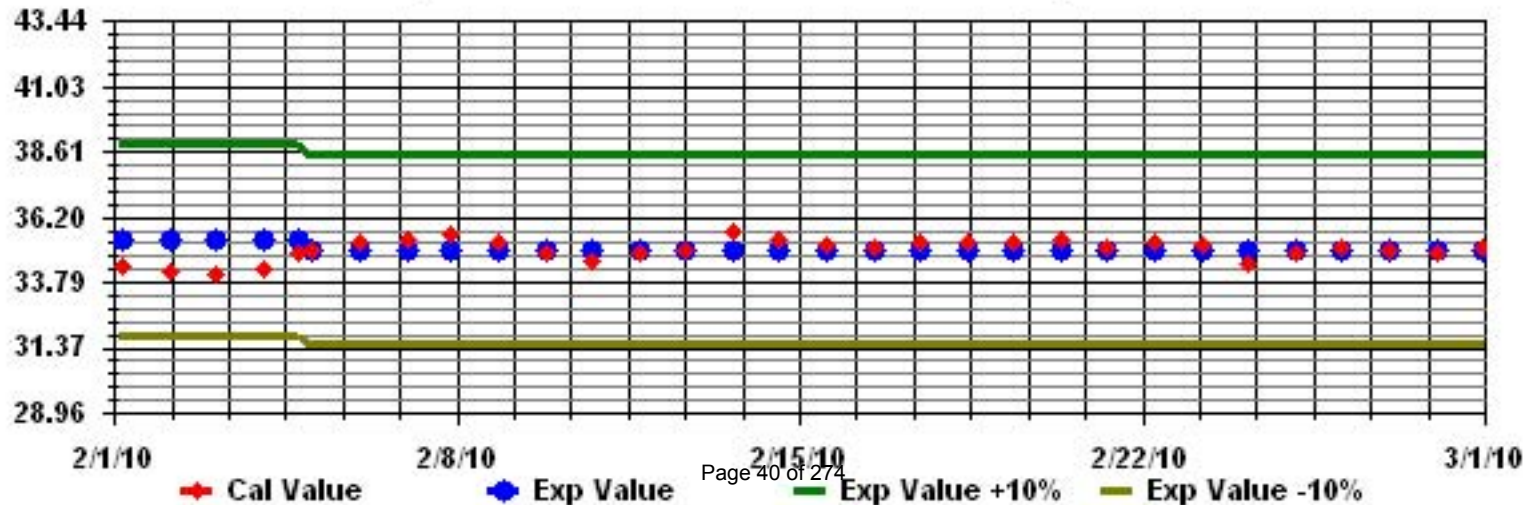
Calm : .00 %

Total # Operational Hours : 636

Class Limits (PPM)



Calibration Graph for Site: LICA Parameter: THC Sequence: THC Phase: SPAN



Particulate Matter 2.5

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

PARTICULATE MATTER 2.5 (PM2.5) hourly averages in ug/m³

MST	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	
DAY	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.
1	1.9	4.9	2.9	2.9	2.4	3.3	4.3	1.9	1.9	4.3	3.3	3.9	3.9	7.4	4.3	5.9	8.9	10.9	5.4	9.8	8.9	4.3	5.4	7.4	10.9	5.0	24
2	8.4	4.3	3.9	5.9	6.4	7.4	10.4	5.9	1.9	12.4	11.4	6.9	7.9	7.4	12.9	14.9	8.4	11.4	10.4	10.9	9.8	7.4	8.9	5.4	14.9	8.4	24
3	4.3	0.9	4.9	3.9	6.4	7.4	6.9	6.9	9.8	7.9	5.4	2.4	2.9	6.9	2.9	7.9	6.4	7.4	7.4	10.4	14.9	13.4	12.4	14.9	14.9	7.3	24
4	9.8	11.9	8.9	7.9	7.9	3.9	5.4	M	M	4.4	4.9	5.9	5.4	C	C	10.9	11.4	14.4	9.4	10.9	10.4	9.9	16.4	14.9	16.4	9.2	22
5	14.4	19.9	13.4	10.9	10.9	10.9	13.9	9.9	14.4	9.9	16.9	11.9	11.9	7.9	11.4	7.9	14.4	10.9	16.4	13.9	12.9	17.9	9.4	7.9	19.9	12.5	24
6	13.4	8.9	10.9	5.9	10.4	10.4	15.4	14.9	12.9	14.4	8.9	5.4	6.9	8.9	12.9	16.9	14.4	12.9	12.4	8.9	12.4	7.9	6.9	3.4	16.9	10.7	24
7	5.4	9.4	8.4	8.4	4.9	3.4	7.4	6.4	7.4	3.4	9.9	4.9	4.9	3.9	6.4	3.4	5.9	2.9	5.9	3.9	4.4	7.4	1.4	2.9	9.9	5.5	24
8	0.9	4.4	3.4	3.4	4.4	2.9	2.4	2.4	3.4	3.4	2.9	2.9	4.4	3.9	3.4	2.9	2.9	4.9	1.9	1.4	4.9	3.4	1.9	2.4	4.9	3.1	24
9	3.4	4.4	5.4	2.4	3.4	5.9	5.4	5.4	4.9	5.4	3.9	6.4	4.4	3.9	5.9	3.4	5.4	2.9	2.9	8.4	3.9	4.4	4.9	5.9	8.4	4.7	24
10	9.9	10.4	8.4	9.4	10.4	17.4	20.9	21.4	16.4	19.9	17.4	18.4	22.4	19.9	22.4	22.4	25.9	24.4	29.4	24.4	22.9	20.4	17.9	20.4	29.4	18.9	24
11	17.4	16.4	18.4	30.4	25.9	16.4	14.4	12.9	12.9	15.4	14.9	9.9	6.4	2.9	8.4	8.4	5.9	12.9	5.4	6.4	8.9	5.9	5.4	12.4	30.4	12.3	24
12	3.4	4.4	8.9	4.4	4.9	0.9	4.9	2.4	3.9	5.9	8.4	8.4	C	C	3.9	7.4	2.9	3.9	3.9	6.4	5.9	6.4	2.4	3.4	8.9	4.9	24
13	3.9	1.9	2.9	2.9	2.4	2.9	2.4	1.4	6.9	3.4	3.9	1.9	5.9	5.4	3.9	3.9	7.4	5.4	0	4.4	0.9	4.4	2.4	5.9	7.4	3.6	24
14	4.4	3.9	6.4	1.9	1.4	4.9	3.9	2.4	3.9	4.4	4.9	6.4	0.9	3.4	0	0	2.4	3.9	4.4	1.9	2.9	7.4	2.4	4.9	7.4	3.5	24
15	5.9	6.4	2.4	5.4	5.9	6.4	6.9	4.4	4.9	3.4	6.4	4.9	1.9	4.9	11.4	9.4	10.9	10.4	9.4	6.4	6.9	8.4	9.4	8.9	11.4	6.7	24
16	5.9	9.4	9.9	6.4	8.9	10.9	17.4	21.9	24.4	19.9	12.9	11.9	11.4	13.9	10.9	14.9	9.4	7.9	6.4	7.9	7.9	6.9	8.4	2.9	24.4	11.2	24
17	23.9	32.9	32.9	39.9	30.4	27.9	26.9	25.9	22.9	20.4	17.4	15.9	14.4	14.4	14.9	17.9	16.4	11.9	14.4	7.9	9.4	10.4	7.9	6.9	39.9	19.3	24
18	7.9	7.9	8.9	8.4	7.9	12.9	17.4	12.9	9.9	10.9	6.4	7.9	4.4	5.4	4.9	2.9	1.9	3.4	4.4	0.9	3.9	7.9	3.9	1.4	17.4	6.9	24
19	6.4	5.4	4.9	3.9	4.9	6.4	3.9	1.4	0.9	0.9	1.4	0.9	0	2.4	0	0	3.9	0	3.9	0	2.4	2.9	2.4	0	6.4	2.5	24
20	2.4	0	0	0	2.4	0.9	0	2.4	0.9	0	0	1.9	1.4	0	1.9	1.4	2.9	3.9	0	0	0.9	2.4	1.4	7.4	7.4	1.4	24
21	4.4	4.9	3.9	4.9	5.9	5.4	7.9	2.4	5.4	4.4	5.9	4.4	5.4	10.9	6.9	5.9	15.4	14.4	14.4	13.4	13.9	12.4	7.9	5.9	15.4	7.8	24
22	4.9	0	1.4	1.4	0	0	0	0	3.4	1.4	0.4	0.4	2.4	1.9	0	1.9	0.9	3.4	4.4	5.4	5.4	0	1.4	3.9	5.4	1.8	24
23	6.9	11.4	8.9	7.4	6.9	7.9	7.4	4.4	7.9	1.4	0.9	5.4	4.9	8.4	7.4	11.4	10.4	10.9	16.9	15.9	14.4	12.9	10.4	12.4	16.9	8.9	24
24	11.4	12.9	10.9	8.4	7.9	3.9	6.9	6.4	6.9	4.9	6.4	6.4	11.9	8.9	11.4	16.4	14.4	9.4	11.4	14.9	11.9	8.4	14.4	10.9	16.4	9.9	24
25	10.9	12.9	13.9	12.9	12.9	10.9	11.9	16.4	12.9	11.4	13.9	11.4	7.4	11.4	11.9	15.4	5.9	12.9	11.4	7.4	14.4	7.9	10.9	11.4	16.4	11.7	24
26	17.4	12.9	13.4	12.4	9.4	7.9	12.9	16.9	14.9	17.4	18.4	24.4	21.9	18.9	17.4	16.4	17.4	15.9	23.9	20.9	20.9	20.4	20.9	13.4	24.4	16.9	24
27	17.4	12.9	5.4	9.9	5.4	2.9	6.4	0.9	5.9	2.9	6.4	3.4	5.9	1.9	2.9	4.9	8.4	4.4	3.9	7.4	5.4	6.4	8.9	5.4	17.4	6.1	24
28	7.9	2.4	5.9	5.9	5.9	5.4	5.9	11.9	8.9	11.4	9.4	11.4	12.4	12.4	14.4	12.4	11.4	14.4	11.4	12.9	9.9	10.9	5.9	7.9	14.4	9.5	24
HOURLY MAX	24	33	33	40	30	28	27	26	24	20	18	24	22	20	22	22	26	24	29	24	23	20	21	20			
HOURLY AVG	8.4	8.5	8.2	8.1	7.7	7.4	8.9	8.2	8.5	8.0	8.0	7.4	7.2	7.6	8.0	8.8	9.0	9.0	9.0	8.7	9.0	8.5	7.6	7.5			

STATUS FLAG CODES

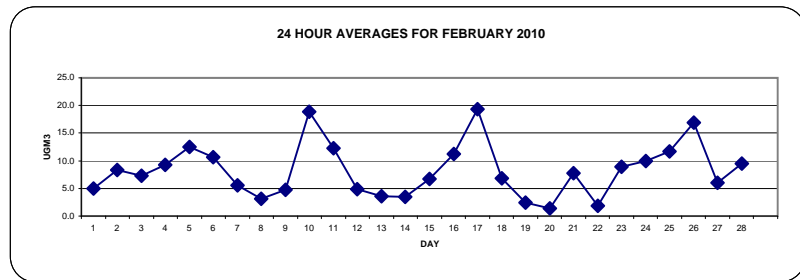
S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MISSING DATA
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

OBJECTIVE LIMIT:

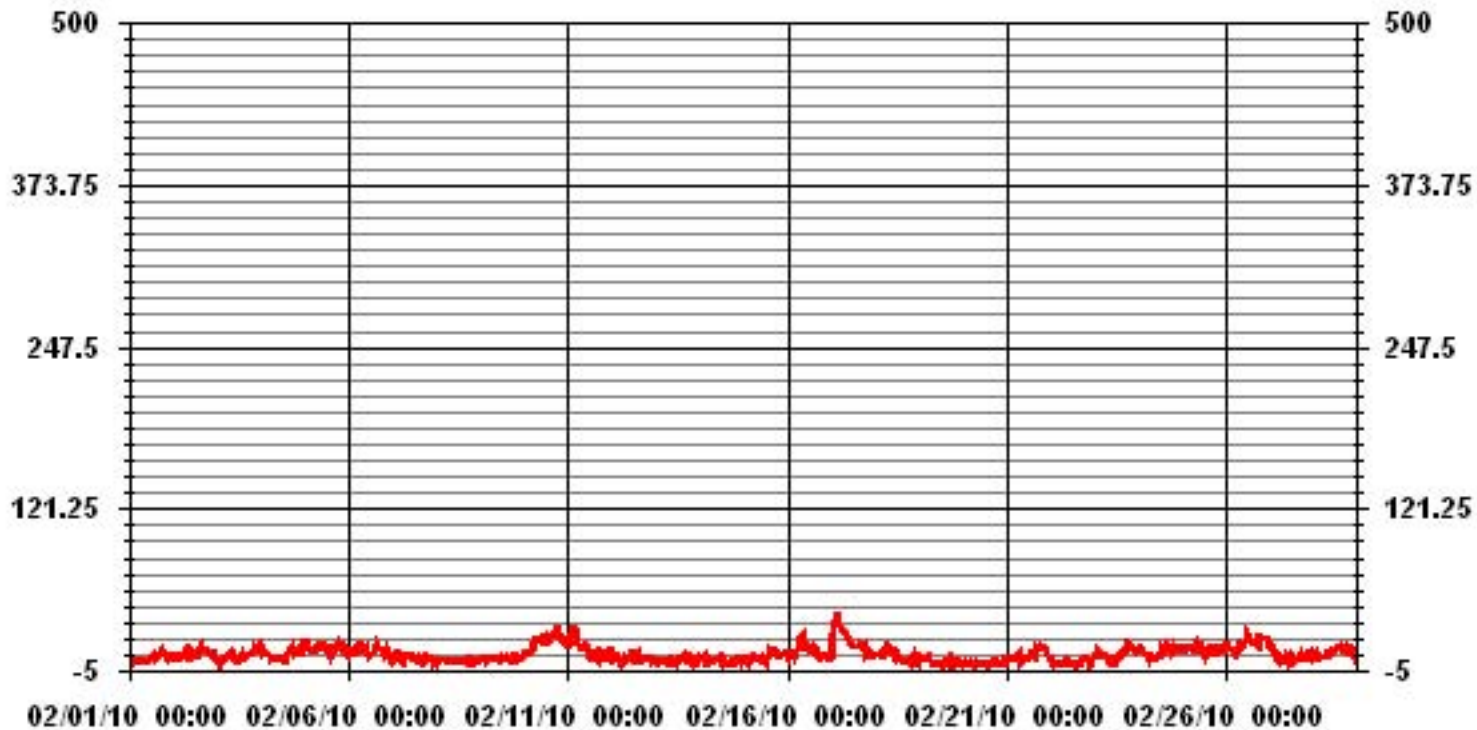
ALBERTA ENVIRONMENT:	1-HR	-	PPB	24-HR	30	PPB
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MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	-	
NUMBER OF 24-HR EXCEEDENCES:	0	PROPOSED CANADA WIDE GUIDELINE
NUMBER OF NON-ZERO READINGS:	641	
MAXIMUM 1-HR AVERAGE:	39.9 UG/M ³	@ HOUR(S) 3 ON DAY(S) 17
MAXIMUM 24-HR AVERAGE:	19.3 UG/M ³	ON DAY(S) 17
IZS CALIBRATION TIME:	0 HRS	OPERATIONAL TIME: 670 HRS
MONTHLY CALIBRATION TIME:	4 HRS	AMD OPERATION UPTIME 99.7 %
STANDARD DEVIATION	6.00	MONTHLY AVERAGE 8.23 UG/M ³



01 Hour Averages



— LICA PM2 UG/M3

LICA
PM2 / WD Joint Frequency Distribution (Percent)

February 2010

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	3.58	1.79	2.68	3.88	11.34	13.73	22.23	2.98	3.43	6.41	13.43	8.05	3.13	.59	.59	1.34	99.25
< 60.0	.00	.00	.00	.14	.00	.00	.00	.14	.00	.00	.00	.00	.14	.14	.14	.00	.74
< 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	3.58	1.79	2.68	4.02	11.34	13.73	22.23	3.13	3.43	6.41	13.43	8.05	3.28	.74	.74	1.34	

Calm : .00 %

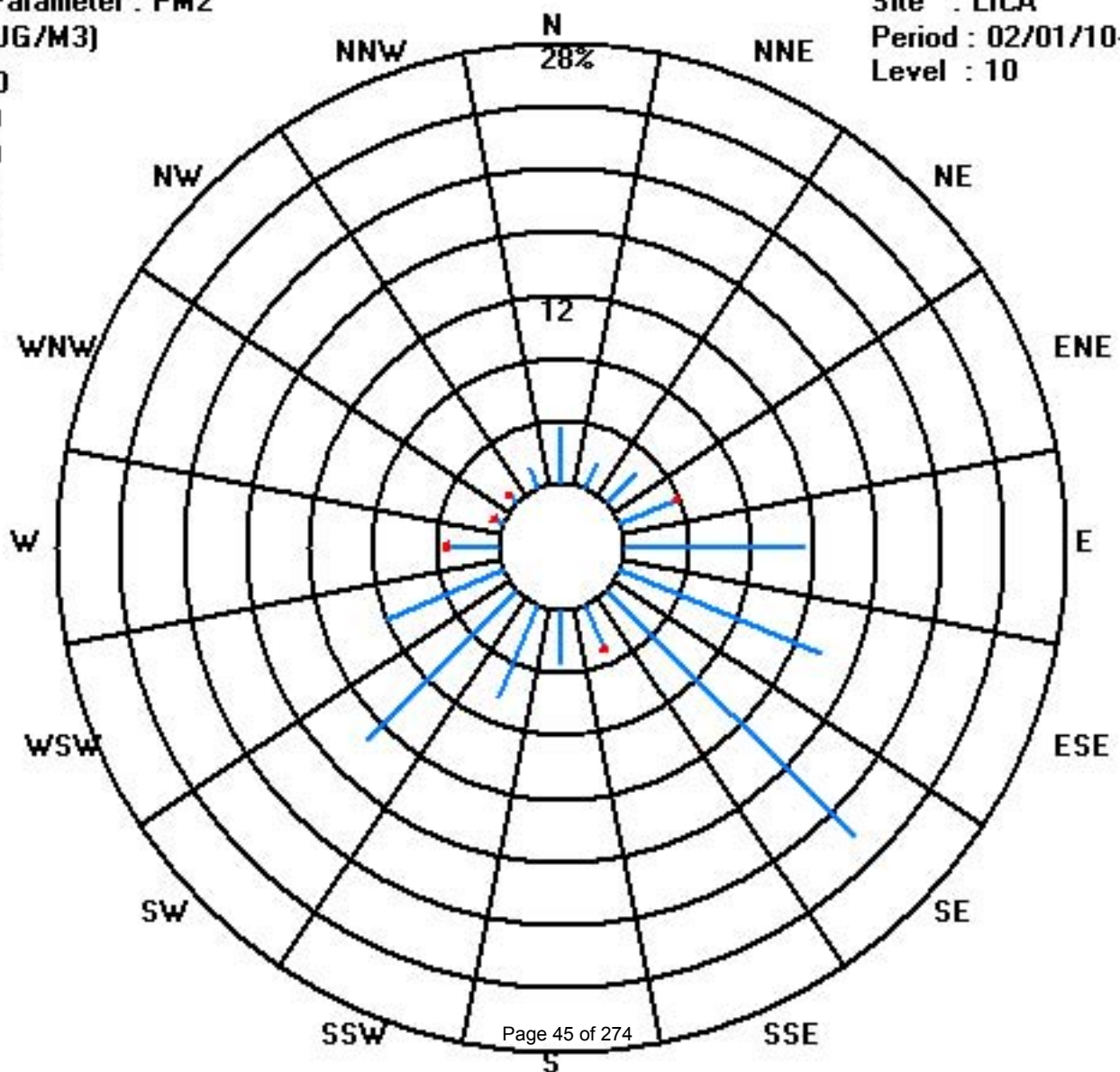
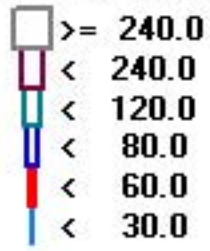
Total # Operational Hours : 670

Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 30.0	24	12	18	26	76	92	149	20	23	43	90	54	21	4	4	9	665
< 60.0				1				1					1	1	1		5
< 80.0																	
< 120.0																	
< 240.0																	
>= 240.0																	
Totals	24	12	18	27	76	92	149	21	23	43	90	54	22	5	5	9	

Calm : .00 %

Total # Operational Hours : 670



Nitrogen Dioxide

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

NITROGEN DIOXIDE hourly averages in ppb

MST

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	2	1	IZS	2	2	3	3	3	2	3	5	3	3	7	8	8	7	7	7	5	16	10	16	4.7	24
2	11	14	11	IZS	12	14	14	12	19	13	13	11	10	9	7	8	8	9	9	8	8	8	8	8	19	10.6	24
3	3	3	IZS	5	6	10	10	9	7	5	3	3	4	3	3	4	6	6	5	5	6	6	7	7	10	5.5	24
4	7	IZS	4	3	2	2	2	M	M	C	C	C	C	C	C	C	4	5	4	4	4	3	4	4	7	3.7	22
5	IZS	4	3	3	3	4	4	6	5	3	3	3	3	3	5	11	17	19	11	8	3	3	IZS	19	5.8	24	
6	3	3	3	4	5	6	5	6	7	5	4	3	3	3	3	4	5	5	3	3	3	4	IZS	2	7	4.0	24
7	2	2	2	3	2	3	3	4	3	2	2	1	1	1	1	1	1	1	2	1	1	IZS	1	1	4	1.8	24
8	1	1	1	2	2	6	3	3	3	2	1	1	1	2	1	1	2	4	3	2	IZS	2	2	2	6	2.1	24
9	2	2	2	3	3	3	3	4	4	4	3	2	2	3	4	4	5	6	7	IZS	7	7	6	5	7	4.0	24
10	5	5	5	7	7	9	13	13	13	11	10	12	13	11	10	11	14	20	IZS	25	22	20	18	18	25	12.7	24
11	16	16	17	20	20	20	20	21	18	15	15	10	7	6	7	7	11	IZS	19	21	23	16	9	11	23	15.0	24
12	6	4	4	3	4	4	6	5	5	3	3	4	4	3	3	5	IZS	4	3	4	2	4	2	1	6	3.7	24
13	1	1	4	8	10	10	12	16	17	5	1	1	1	2	1	IZS	1	1	2	3	2	3	3	3	17	4.7	24
14	3	3	2	2	2	2	2	4	5	2	1	1	1	1	IZS	1	1	1	2	1	1	2	3	2	5	2.0	24
15	2	3	2	2	4	4	6	15	9	3	3	3	3	IZS	4	4	6	9	16	14	12	16	10	10	16	7.0	24
16	8	9	9	11	13	15	16	20	23	21	17	15	IZS	13	13	11	11	16	23	19	21	19	19	18	23	15.7	24
17	19	18	20	20	19	21	20	21	20	14	11	IZS	7	7	9	9	9	11	11	10	11	9	8	8	21	13.6	24
18	7	8	8	7	9	24	34	22	21	17	IZS	9	7	6	4	4	5	10	26	16	18	25	16	15	34	13.8	24
19	9	8	7	7	5	24	9	4	2	IZS	1	1	1	1	1	1	3	6	4	4	3	2	2	3	24	4.7	24
20	4	2	1	1	1	1	1	3	IZS	0	1	1	1	1	1	1	1	2	8	6	8	7	6	5	8	2.7	24
21	6	3	2	1	1	1	2	IZS	3	3	3	3	4	4	4	4	4	8	12	16	22	15	8	1	22	5.7	24
22	1	1	1	1	1	1	IZS	1	2	0	1	1	1	1	1	1	3	7	13	19	20	17	17	15	20	5.5	24
23	16	20	22	21	20	IZS	17	16	17	11	5	4	3	2	2	3	3	4	4	3	3	3	2	2	22	8.8	24
24	2	2	2	2	IZS	2	2	2	2	3	2	3	3	4	5	5	6	7	8	13	13	18	17	21	21	6.3	24
25	19	15	17	IZS	20	19	22	21	13	3	3	2	3	4	4	6	5	8	16	17	19	7	9	9	22	11.3	24
26	10	9	IZS	10	7	20	21	24	23	9	5	5	5	5	5	7	9	14	18	21	7	6	6	6	24	11.0	24
27	7	IZS	5	4	5	6	6	5	4	4	3	2	2	2	4	3	2	3	4	3	3	3	3	3	7	3.7	24
28	IZS	3	3	5	4	4	3	3	3	2	3	3	3	3	3	3	4	4	6	5	6	6	6	IZS	6	3.9	24
HOURLY MAX	19	20	22	21	20	24	34	24	23	21	17	15	13	13	13	11	14	20	26	25	23	25	19	21			
HOURLY AVG	6.6	6.2	6.1	6.0	7.2	8.8	9.6	10.1	9.7	6.3	4.6	4.1	3.8	4.0	4.1	4.6	5.5	7.3	9.4	9.7	9.6	8.7	7.8	7.3			

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

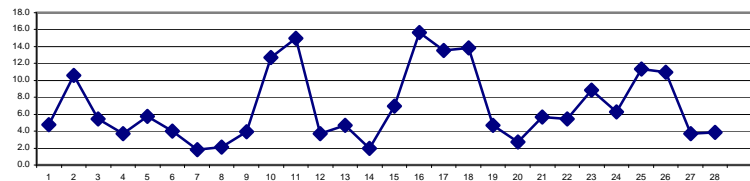
OBJECTIVE LIMIT:

ALBERTA ENVIRONMENT:	1-HR	212	PPB	24-HR	106	PPB
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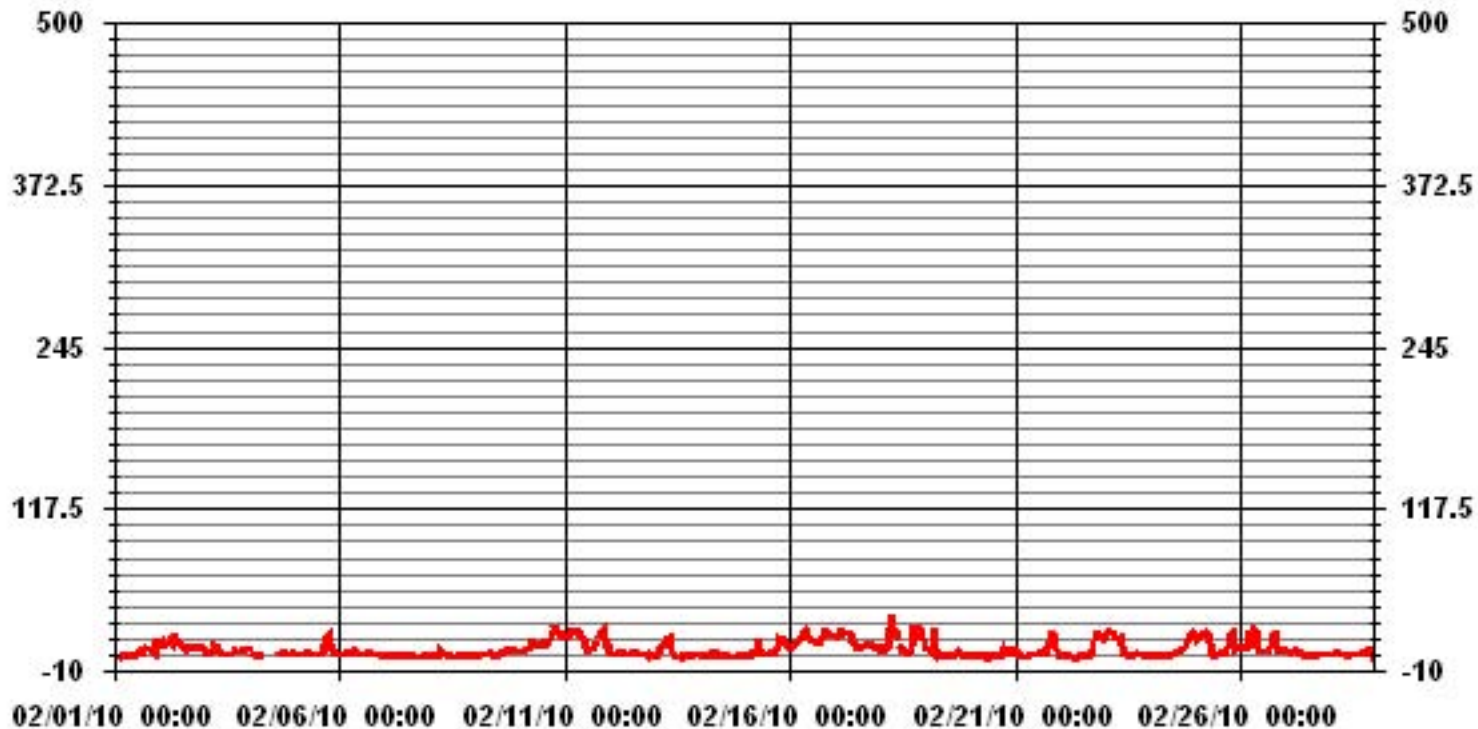
MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0		
NUMBER OF 24-HR EXCEEDENCES:	0		
NUMBER OF NON-ZERO READINGS:	631		
MAXIMUM 1-HR AVERAGE:	34 PPB @ HOUR(S) 6 ON DAY(S) 18		
MAXIMUM 24-HR AVERAGE:	15.7 PPB ON DAY(S) 16		
IZS CALIBRATION TIME:	30 HRS	OPERATIONAL TIME:	670 HRS
MONTHLY CALIBRATION TIME:	7 HRS	AMD OPERATION UPTIME:	99.7 %
STANDARD DEVIATION	6.17	MONTHLY AVERAGE	6.97 PPB

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



— LICA H02_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

NITROGEN DIOXIDE MAX instantaneous maximum in ppb

MST																								DAILY	24-HOUR			
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	MAX.	AVG.	RDGS.	
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	2	7	3	2	IZS	3	4	9	5	11	3	11	17	9	6	15	16	12	9	11	12	11	21	16	21	9.3	24	
2	17	16	14	IZS	17	23	20	23	32	16	14	16	15	10	9	9	10	15	11	11	11	12	14	15	32	15.2	24	
3	8	5	IZS	7	11	15	12	12	11	14	5	10	9	9	8	9	8	24	6	9	8	7	8	9	24	9.7	24	
4	9	IZS	6	3	3	3	3	M	M	C	C	C	C	C	C	5	13	5	6	5	4	5	4	13	5.3	22		
5	IZS	7	4	5	5	12	6	18	17	16	11	4	5	6	13	11	21	22	29	13	12	4	4	IZS	29	11.1	24	
6	5	4	5	6	8	14	7	8	10	8	6	5	5	5	4	6	10	9	5	10	4	5	IZS	3	14	6.6	24	
7	4	3	3	6	3	7	6	5	6	6	3	4	4	1	1	2	3	2	5	2	2	IZS	3	2	7	3.6	24	
8	2	2	2	3	3	15	4	9	8	7	2	2	4	19	3	2	6	20	8	4	IZS	6	4	4	20	6.0	24	
9	3	3	3	3	4	4	4	6	7	10	3	3	7	6	5	7	7	7	9	IZS	9	12	7	7	12	5.9	24	
10	6	7	7	7	8	11	14	14	15	12	11	13	14	13	12	13	17	27	IZS	30	28	22	21	19	30	14.8	24	
11	17	19	20	23	23	23	24	24	21	22	22	40	9	8	9	9	18	IZS	23	26	44	25	10	16	44	20.7	24	
12	9	5	5	4	5	9	8	8	8	11	14	6	12	6	18	57	IZS	7	5	6	4	5	4	3	57	9.5	24	
13	2	4	8	14	12	17	21	24	23	16	3	8	3	5	4	IZS	2	2	5	4	3	5	4	5	24	8.4	24	
14	5	4	4	3	3	3	3	9	9	5	1	2	1	1	4	IZS	2	1	2	12	2	2	3	5	3	12	3.7	24
15	4	5	5	5	6	9	17	27	24	4	4	4	4	4	IZS	6	6	8	18	27	23	15	22	15	13	27	11.8	24
16	10	11	11	15	14	19	20	23	38	27	20	17	IZS	15	14	14	12	26	33	26	26	22	23	26	38	20.1	24	
17	23	22	23	21	22	25	22	27	33	18	15	IZS	9	11	17	11	10	14	15	15	16	16	10	10	33	17.6	24	
18	10	13	17	13	16	86	110	29	27	40	IZS	15	9	7	6	5	10	18	38	31	29	32	27	18	110	26.3	24	
19	14	11	12	18	8	120	37	29	16	IZS	2	2	6	5	3	6	9	11	8	12	8	5	4	6	120	15.3	24	
20	8	5	6	4	6	3	3	5	IZS	2	2	3	3	2	3	5	3	5	13	14	12	22	9	10	22	6.4	24	
21	11	6	4	2	2	2	2	IZS	4	4	4	5	5	5	5	5	5	12	17	29	27	27	13	2	29	8.6	24	
22	1	1	2	2	1	2	IZS	2	5	1	2	1	1	5	9	5	30	11	21	30	28	22	21	20	30	9.7	24	
23	19	26	26	24	22	IZS	27	21	25	28	9	8	3	7	3	7	4	6	5	3	3	3	3	3	28	12.4	24	
24	2	2	2	2	IZS	2	3	4	3	4	5	4	4	5	6	8	8	8	11	17	22	24	25	26	26	8.6	24	
25	23	17	20	IZS	29	47	29	27	199	11	4	7	6	7	6	10	10	22	23	23	31	11	12	14	199	25.6	24	
26	16	14	IZS	17	17	27	30	29	39	25	6	8	9	6	7	13	14	26	26	29	8	9	10	10	39	17.2	24	
27	9	IZS	8	6	7	9	8	7	6	5	4	2	3	4	8	4	3	5	8	5	5	4	6	4	9	5.7	24	
28	IZS	5	4	8	6	6	7	8	7	3	5	5	4	5	5	5	5	16	9	7	9	11	11	IZS	16	6.9	24	
HOURLY MAX	23	26	26	24	29	120	110	29	199	40	22	40	17	19	18	57	30	27	38	31	44	32	27	26				
HOURLY AVG	9.2	8.6	8.6	8.6	10.0	19.1	16.7	15.7	23.0	12.5	6.9	7.9	6.6	7.0	7.3	9.5	9.4	13.3	14.3	14.7	14.2	13.0	11.1	10.3				

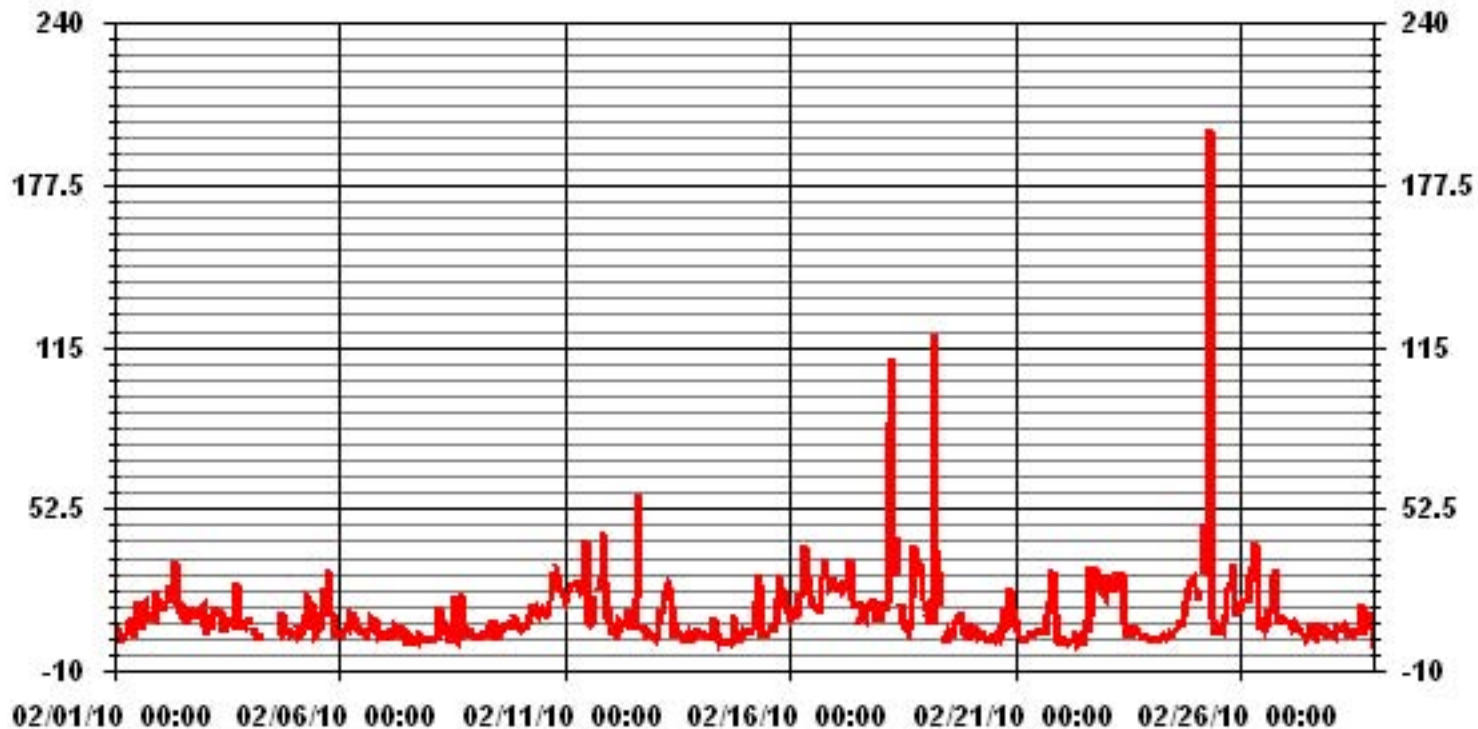
STATUS FLAG CODES

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:	633					
MAXIMUM INSTANTANEOUS VALUE:	199	PPB	@ HOUR(S)	8	ON DAY(S)	25
IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	7	HRS				
STANDARD DEVIATION:	13.14					

01 Hour Averages



— LICA NO2MAX PPB

LICA
NO2_ / WD Joint Frequency Distribution (Percent)

February 2010

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	3.47	1.73	2.84	4.10	11.53	13.90	21.95	2.84	3.00	6.79	13.27	8.05	3.47	.78	.78	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	3.47	1.73	2.84	4.10	11.53	13.90	21.95	2.84	3.00	6.79	13.27	8.05	3.47	.78	.78	1.42	

Calm : .00 %

Total # Operational Hours : 633

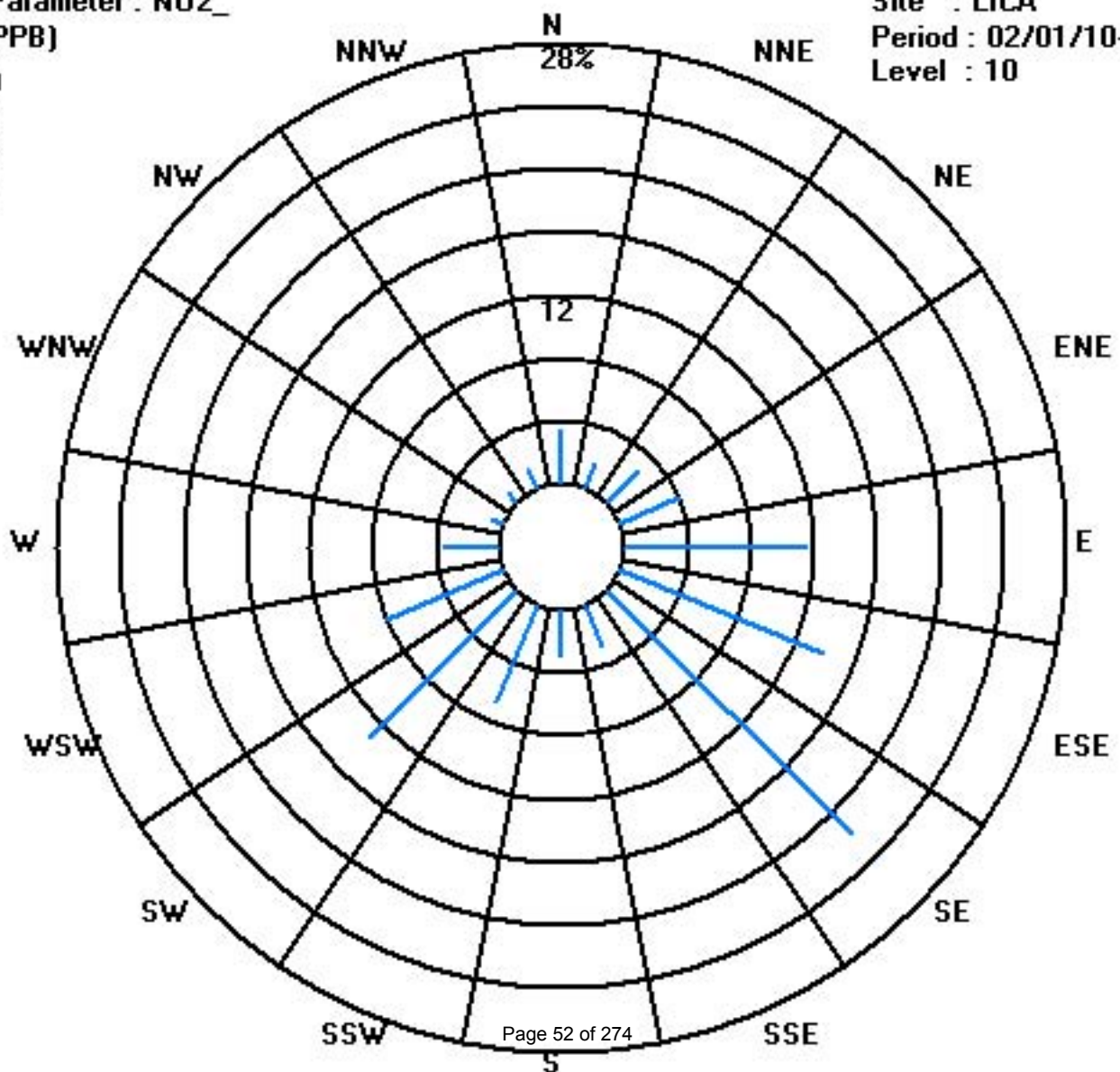
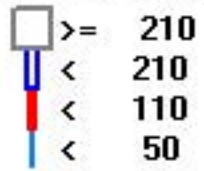
Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	22	11	18	26	73	88	139	18	19	43	84	51	22	5	5	9	633
< 110																	
< 210																	
>= 210																	
Totals	22	11	18	26	73	88	139	18	19	43	84	51	22	5	5	9	

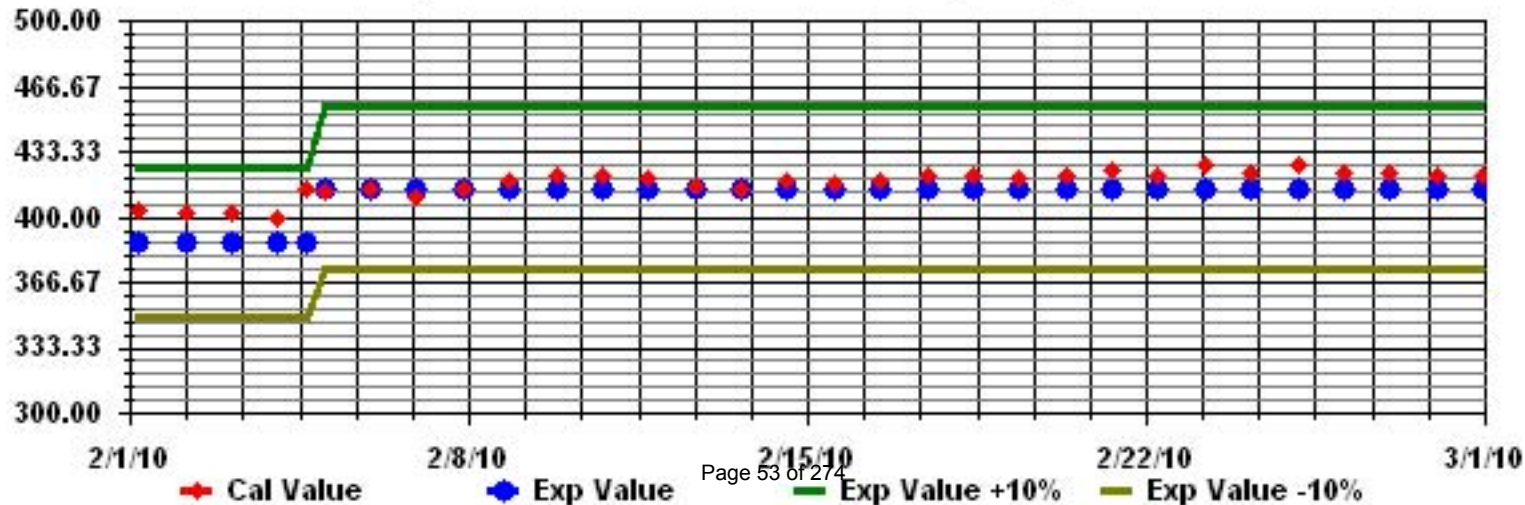
Calm : .00 %

Total # Operational Hours : 633

Class Limits (PPB)



Calibration Graph for Site: LICA Parameter: H02_ Sequence: H02 Phase: SPAN



Nitric Oxide

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

NITRIC OXIDE hourly averages in ppb

MST

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	IZS	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	1	0	1	0.2	24	
2	0	0	0	IZS	0	0	0	0	6	5	7	7	5	4	2	1	0	0	0	0	0	0	0	0	7	1.6	24	
3	0	0	IZS	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0.2	24	
4	0	IZS	0	0	0	0	0	M	M	C	C	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0.0	22	
5	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	IZS	2	0.2	24	
6	0	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	
7	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	
8	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	IZS	0	0	1	0.0	24	
9	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	IZS	0	0	0	0	1	0.3	24	
10	0	0	0	0	0	0	0	0	1	3	5	6	8	7	5	5	3	3	IZS	14	13	7	3	5	14	3.8	24	
11	3	3	5	2	0	0	1	2	8	12	18	12	6	4	3	2	2	IZS	2	2	8	3	0	0	18	4.3	24	
12	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	IZS	0	0	0	0	0	0	0	1	0.2	24	
13	0	0	0	0	0	0	0	1	6	2	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	6	0.4	24	
14	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	
15	0	0	0	0	0	0	0	1	3	0	0	0	1	IZS	1	1	0	0	0	0	0	1	0	0	3	0.3	24	
16	0	0	0	0	0	2	2	11	32	23	20	20	IZS	12	9	4	1	0	1	1	2	3	8	10	32	7.0	24	
17	19	15	28	30	23	26	22	27	32	13	8	IZS	3	3	3	2	1	0	0	0	0	0	0	0	32	11.1	24	
18	0	0	0	0	0	14	31	33	36	22	IZS	6	4	3	1	0	0	0	5	2	0	2	0	0	36	6.9	24	
19	0	0	0	0	0	18	3	1	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	1.0	24	
20	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	
21	0	0	0	0	0	0	0	IZS	0	0	1	1	2	2	1	1	0	0	0	0	1	0	0	0	2	0.4	24	
22	0	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0.1	24	
23	0	1	3	2	3	IZS	2	3	10	6	2	1	1	0	0	0	0	0	0	0	0	0	0	0	10	1.5	24	
24	0	0	0	0	IZS	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	2	3	3	0.4	24	
25	2	0	1	IZS	6	5	16	21	7	1	1	1	1	2	2	2	0	0	0	0	0	0	0	0	21	3.0	24	
26	0	0	IZS	0	0	6	7	25	37	4	1	2	2	2	1	1	1	1	0	0	0	0	0	0	37	3.9	24	
27	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	
28	IZS	0	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	19	15	28	30	23	26	31	33	37	23	20	20	8	12	9	5	3	3	5	14	13	7	8	10				
HOURLY AVG	0.9	0.7	1.4	1.3	1.2	2.6	3.1	4.8	6.8	3.6	2.5	2.3	1.5	1.6	1.2	0.9	0.4	0.2	0.3	0.7	0.9	0.6	0.5	0.7				

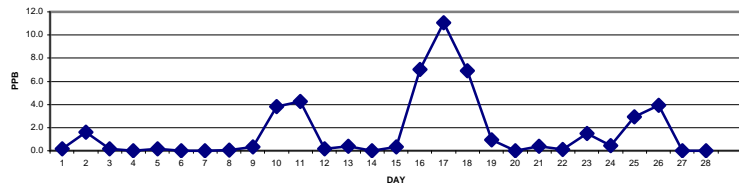
STATUS FLAG CODES

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

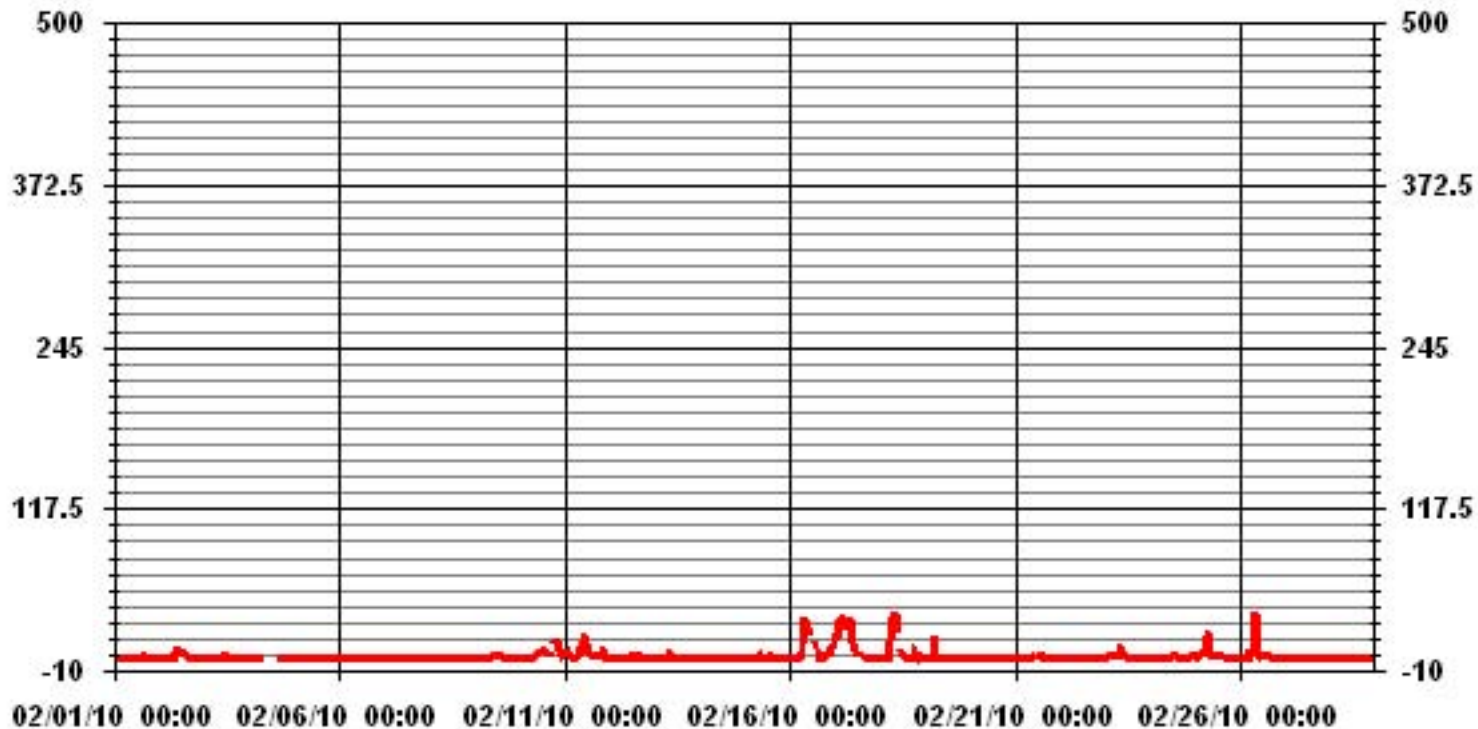
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	176
MAXIMUM 1-HR AVERAGE:	37 PPB @ HOUR(S) 8 ON DAY(S) 26
MAXIMUM 24-HR AVERAGE:	11.1 PPB ON DAY(S) 17
IZS CALIBRATION TIME:	30 HRS
MONTHLY CALIBRATION TIME:	7 HRS
OPERATIONAL TIME:	670 HRS
AMSD OPERATION UPTIME:	99.7 %
STANDARD DEVIATION	5.11
MONTHLY AVERAGE	1.70 PPB

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

NITRIC OXIDE MAX instantaneous maximum in ppb

MST

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	4	0	0	IZS	1	1	1	4	8	1	5	11	3	2	5	8	8	0	2	2	0	5	1	11	3.1	24	
2	1	1	1	IZS	4	4	2	9	24	9	9	9	10	5	4	2	2	14	2	1	2	1	3	5	24	5.4	24	
3	0	0	IZS	1	1	1	1	2	5	9	3	4	6	11	3	6	3	3	0	2	2	6	0	8	11	3.3	24	
4	1	IZS	0	0	0	0	0	M	M	C	C	C	C	C	C	2	10	0	1	2	0	1	1	10	1.3	22		
5	IZS	12	0	0	0	2	1	4	4	4	12	2	1	3	3	4	6	9	6	2	1	0	0	IZS	12	3.5	24	
6	0	0	0	1	1	3	1	2	1	2	3	2	1	2	2	1	4	5	1	3	0	1	IZS	0	5	1.6	24	
7	0	0	0	0	0	2	1	1	1	2	7	7	2	2	0	4	0	0	1	0	0	IZS	0	0	7	1.3	24	
8	0	0	0	0	0	6	1	1	1	9	1	2	2	11	6	1	3	9	9	1	IZS	2	2	0	11	2.9	24	
9	1	0	0	0	0	3	0	5	4	7	2	3	4	3	2	2	2	0	0	IZS	1	7	4	2	7	2.3	24	
10	0	0	0	0	0	0	1	1	4	5	7	8	10	9	8	6	5	15	IZS	32	41	12	8	9	41	7.9	24	
11	10	6	13	5	2	3	4	5	12	20	32	64	8	6	5	3	4	IZS	27	9	54	14	0	5	64	13.5	24	
12	0	1	0	0	1	1	2	2	4	4	21	2	4	3	19	4	IZS	5	3	1	1	1	1	0	21	3.5	24	
13	0	1	4	1	2	1	9	16	10	8	1	4	6	2	2	IZS	0	4	0	0	1	1	6	1	16	3.5	24	
14	1	0	0	0	0	0	0	1	2	1	0	1	7	3	IZS	1	6	1	2	0	0	0	1	0	7	1.2	24	
15	1	1	1	1	0	2	4	6	41	2	1	2	2	IZS	2	6	6	2	2	1	0	5	2	1	41	4.0	24	
16	0	2	1	1	1	6	7	20	75	39	24	23	IZS	15	11	7	3	2	11	13	9	14	24	21	75	14.3	24	
17	41	28	35	36	36	31	30	60	91	21	11	IZS	5	6	7	3	2	7	1	1	1	2	2	1	91	19.9	24	
18	1	5	7	7	4	70	102	56	50	62	IZS	10	6	5	2	1	1	2	22	11	4	7	5	2	102	19.2	24	
19	5	5	7	18	5	100	19	22	5	IZS	1	1	5	6	2	7	4	2	1	10	3	4	1	2	100	10.2	24	
20	3	1	1	1	2	2	0	1	IZS	0	2	1	2	2	1	2	1	3	1	4	0	13	0	6	13	2.1	24	
21	0	1	1	1	0	1	0	IZS	1	1	2	3	3	3	2	2	1	4	2	5	5	8	1	0	8	2.0	24	
22	0	0	0	0	0	2	IZS	0	1	0	1	0	0	5	3	2	28	1	3	15	5	2	7	4	28	3.4	24	
23	1	6	6	6	6	IZS	12	15	28	28	7	4	2	5	1	3	2	1	0	0	0	0	0	0	28	5.8	24	
24	0	0	0	0	IZS	0	0	0	0	1	2	2	2	2	3	2	2	1	2	0	15	3	8	11	15	2.4	24	
25	15	2	3	IZS	15	20	34	42	99	12	4	7	4	3	9	6	3	1	2	3	4	2	0	3	99	12.7	24	
26	1	2	IZS	7	4	19	31	50	83	9	2	5	8	3	14	3	6	14	4	5	2	1	2	1	83	12.0	24	
27	1	IZS	1	0	1	1	1	1	1	2	2	0	2	4	1	1	1	1	2	3	0	1	0	0	4	1.2	24	
28	IZS	1	0	2	0	0	0	0	0	0	2	1	1	1	2	1	2	2	0	0	4	5	1	IZS	5	1.1	24	
HOURLY MAX	41	28	35	36	36	100	102	60	99	62	32	64	11	15	19	7	28	15	27	32	54	14	24	21				
HOURLY AVG	3.2	3.0	3.1	3.4	3.3	10.4	9.8	12.4	21.2	10.2	6.2	6.6	4.4	4.7	4.5	3.3	4.0	4.7	3.9	4.6	5.9	4.1	3.1	3.2				

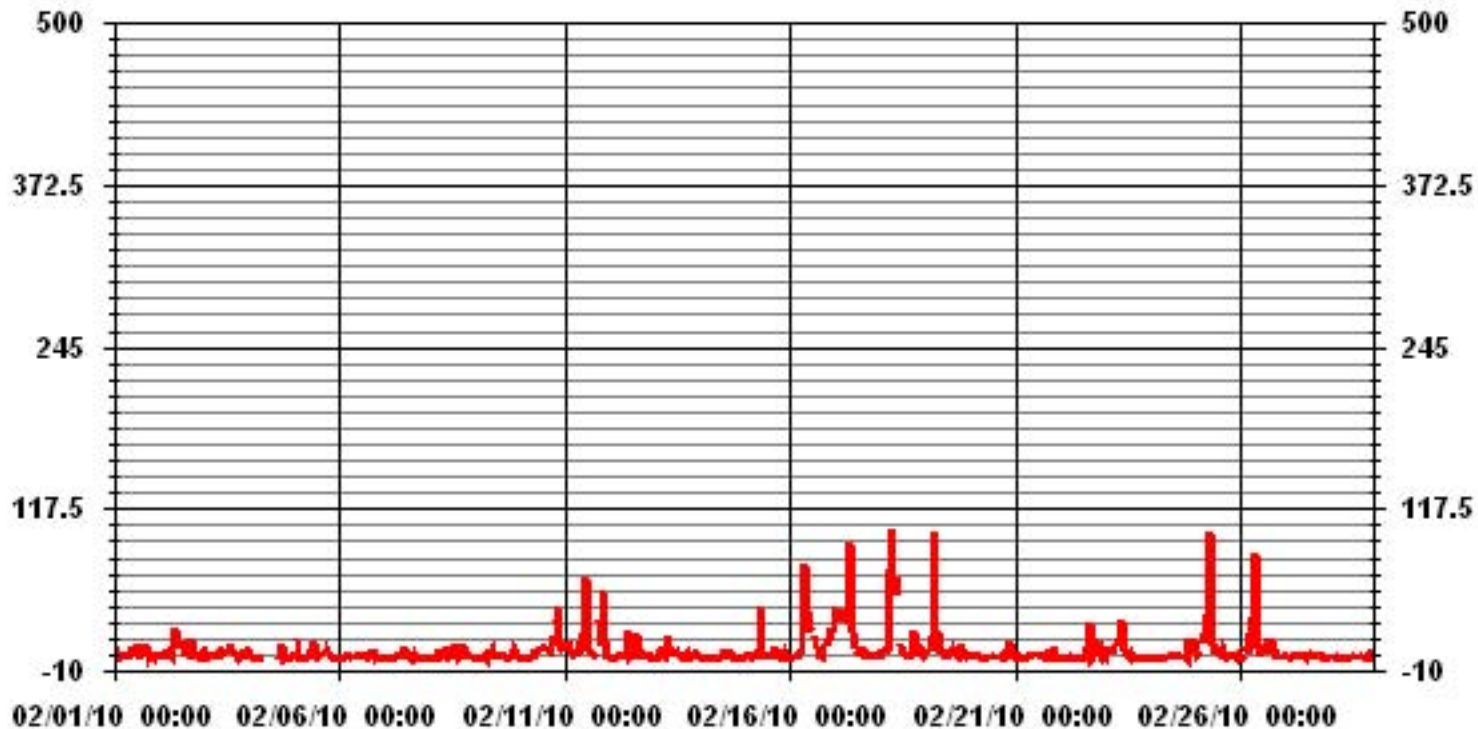
STATUS FLAG CODES

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:	506				
MAXIMUM INSTANTANEOUS VALUE:	102	PPB	@ HOUR(S)	6	ON DAY(S) 18
IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	670	HRS
MONTHLY CALIBRATION TIME:	7	HRS			
STANDARD DEVIATION:	12.41				

01 Hour Averages



— LICA — NOMAX — PPB

LICA
NO_ / WD Joint Frequency Distribution (Percent)

February 2010

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	3.47	1.73	2.84	4.10	11.53	13.90	21.95	2.84	3.00	6.79	13.27	8.05	3.47	.78	.78	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	3.47	1.73	2.84	4.10	11.53	13.90	21.95	2.84	3.00	6.79	13.27	8.05	3.47	.78	.78	1.42	

Calm : .00 %

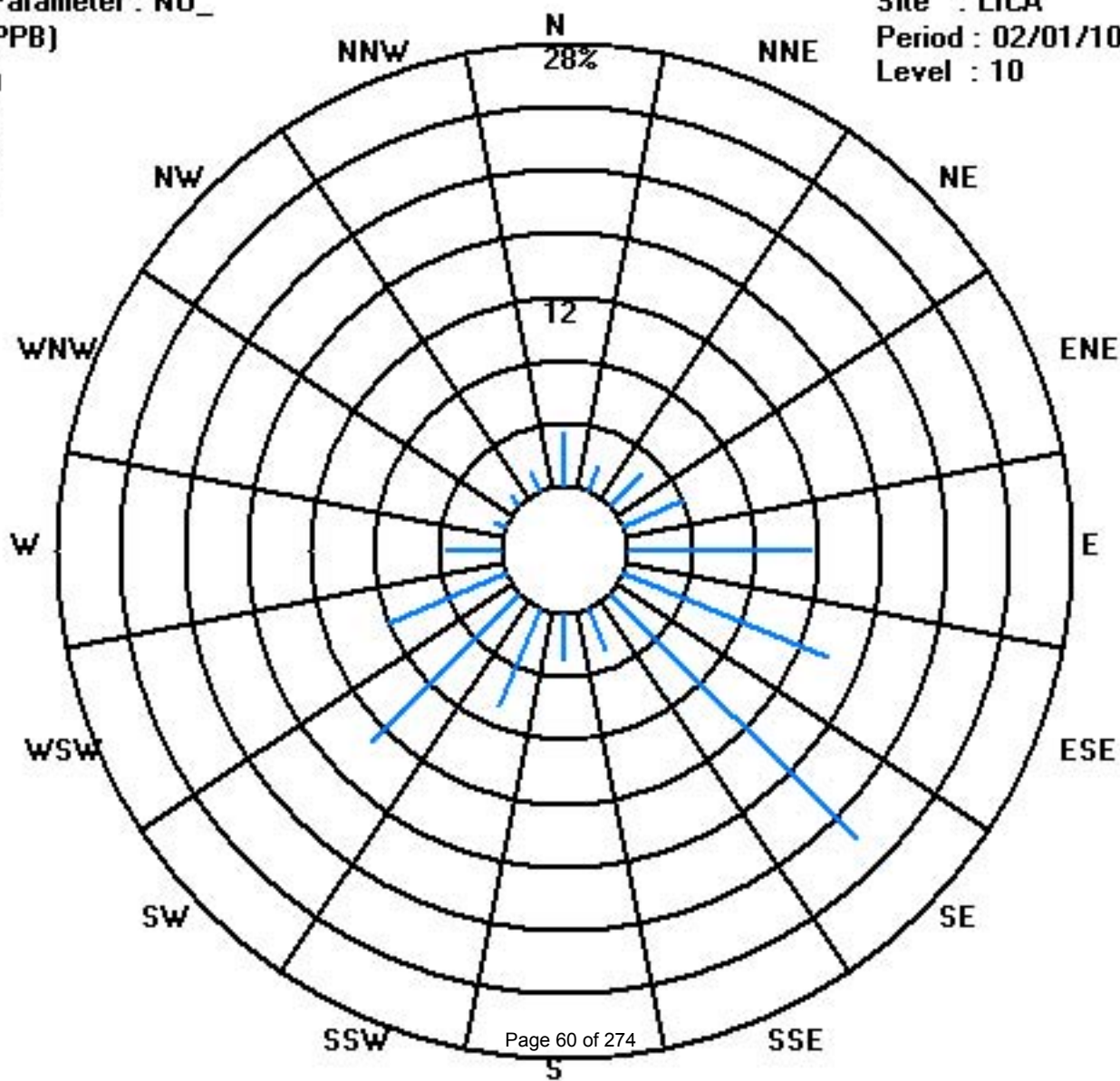
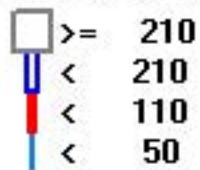
Total # Operational Hours : 633

Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	22	11	18	26	73	88	139	18	19	43	84	51	22	5	5	9	633
< 110																	
< 210																	
>= 210																	
Totals	22	11	18	26	73	88	139	18	19	43	84	51	22	5	5	9	

Calm : .00 %

Total # Operational Hours : 633



Oxides of Nitrogen

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

OXIDES OF NITROGEN hourly averages in ppb

MST

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	RDGS.	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.		
DAY																												
1	1	1	1	1	IZS	2	2	3	3	3	2	4	6	4	4	8	9	8	7	7	8	4	17	10	17	5.0	24	
2	11	14	11	IZS	13	15	14	12	25	19	20	18	15	13	9	9	9	10	10	9	9	8	9	8	25	12.6	24	
3	3	3	IZS	5	6	10	10	9	8	6	4	5	6	3	3	5	6	6	5	5	6	6	7	8	10	5.9	24	
4	7	IZS	4	2	2	2	M	M	C	C	C	C	C	C	C	4	5	3	4	4	3	4	3	7	3.5	22		
5	IZS	4	3	3	3	5	4	6	5	3	4	3	3	3	4	6	13	19	20	11	8	3	3	IZS	20	6.2	24	
6	3	3	3	5	5	7	5	6	8	6	4	4	4	4	4	5	6	6	3	3	3	4	IZS	2	8	4.5	24	
7	1	2	2	3	2	3	3	4	3	3	2	1	1	1	1	1	1	1	2	1	1	IZS	1	1	4	1.8	24	
8	1	1	1	2	2	6	3	3	3	3	2	2	2	3	2	1	2	5	4	2	IZS	2	2	2	6	2.4	24	
9	2	2	2	3	3	3	3	4	5	5	4	4	4	5	5	5	5	6	7	IZS	7	7	6	5	7	4.4	24	
10	5	5	5	6	6	9	13	13	14	14	16	18	21	18	16	16	17	23	IZS	39	35	27	22	23	39	16.6	24	
11	20	19	23	22	21	21	21	23	26	28	34	22	14	10	10	9	13	IZS	22	23	32	20	9	12	34	19.7	24	
12	6	4	4	3	4	5	7	6	5	4	4	5	5	4	4	6	IZS	4	4	4	2	4	2	1	7	4.2	24	
13	1	1	5	9	10	10	13	17	23	7	2	2	2	3	1	IZS	1	1	2	3	2	3	3	4	23	5.4	24	
14	3	3	2	2	2	2	2	4	6	2	1	1	1	1	IZS	1	1	1	2	1	1	2	2	2	2	6	2.0	24
15	2	2	2	2	3	4	6	16	12	3	3	4	4	IZS	5	5	7	10	16	14	12	17	10	10	17	7.3	24	
16	8	9	9	11	13	18	19	31	55	44	37	35	IZS	26	22	15	12	17	24	20	23	22	27	29	55	22.9	24	
17	39	34	48	50	43	48	42	49	52	28	20	IZS	11	11	12	11	10	11	11	10	11	9	8	8	52	25.0	24	
18	7	8	9	8	10	39	65	56	58	40	IZS	15	11	9	6	5	5	10	31	18	18	27	17	15	65	21.2	24	
19	10	8	7	7	6	42	12	5	3	IZS	1	1	1	1	1	2	4	7	4	4	4	2	2	3	42	6.0	24	
20	4	3	1	0	1	0	1	3	IZS	0	1	1	1	1	2	2	1	2	8	6	8	7	6	6	8	2.8	24	
21	6	3	2	1	1	1	2	IZS	3	4	4	5	7	6	6	5	4	8	11	16	24	16	8	1	24	6.3	24	
22	1	0	1	1	0	1	IZS	1	2	0	1	1	1	1	1	2	4	7	13	21	21	18	18	15	21	5.7	24	
23	16	22	25	23	23	IZS	19	19	28	18	7	6	4	3	3	3	3	3	3	3	3	2	2	2	2	28	10.4	24
24	2	2	2	2	IZS	1	2	2	2	3	3	4	4	6	7	7	7	7	8	13	14	19	20	25	25	7.0	24	
25	21	15	19	IZS	26	24	38	42	21	4	4	4	4	6	6	8	5	8	16	17	20	7	8	9	42	14.4	24	
26	10	9	IZS	11	8	27	29	49	61	13	6	8	8	7	7	9	11	15	18	22	6	6	6	6	61	15.3	24	
27	7	IZS	5	4	5	6	6	5	5	4	3	2	2	2	4	4	2	3	4	3	3	3	3	3	7	3.8	24	
28	IZS	3	3	5	4	4	3	3	3	2	3	3	3	3	4	4	4	4	6	5	6	6	6	IZS	6	4.0	24	
HOURLY MAX	39	34	48	50	43	48	65	56	61	44	37	35	21	26	22	16	17	23	31	39	35	27	27	29				
HOURLY AVG	7.6	6.9	7.7	7.3	8.5	11.7	12.8	15.0	16.9	10.2	7.4	6.8	5.6	5.9	5.7	5.9	6.1	7.7	9.8	10.5	10.7	9.4	8.4	8.2				

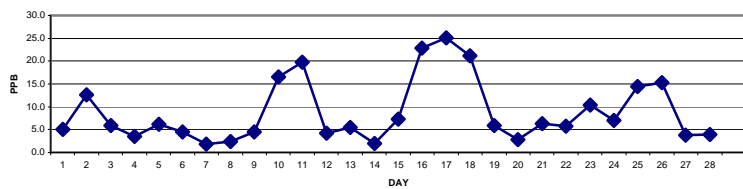
STATUS FLAG CODES

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

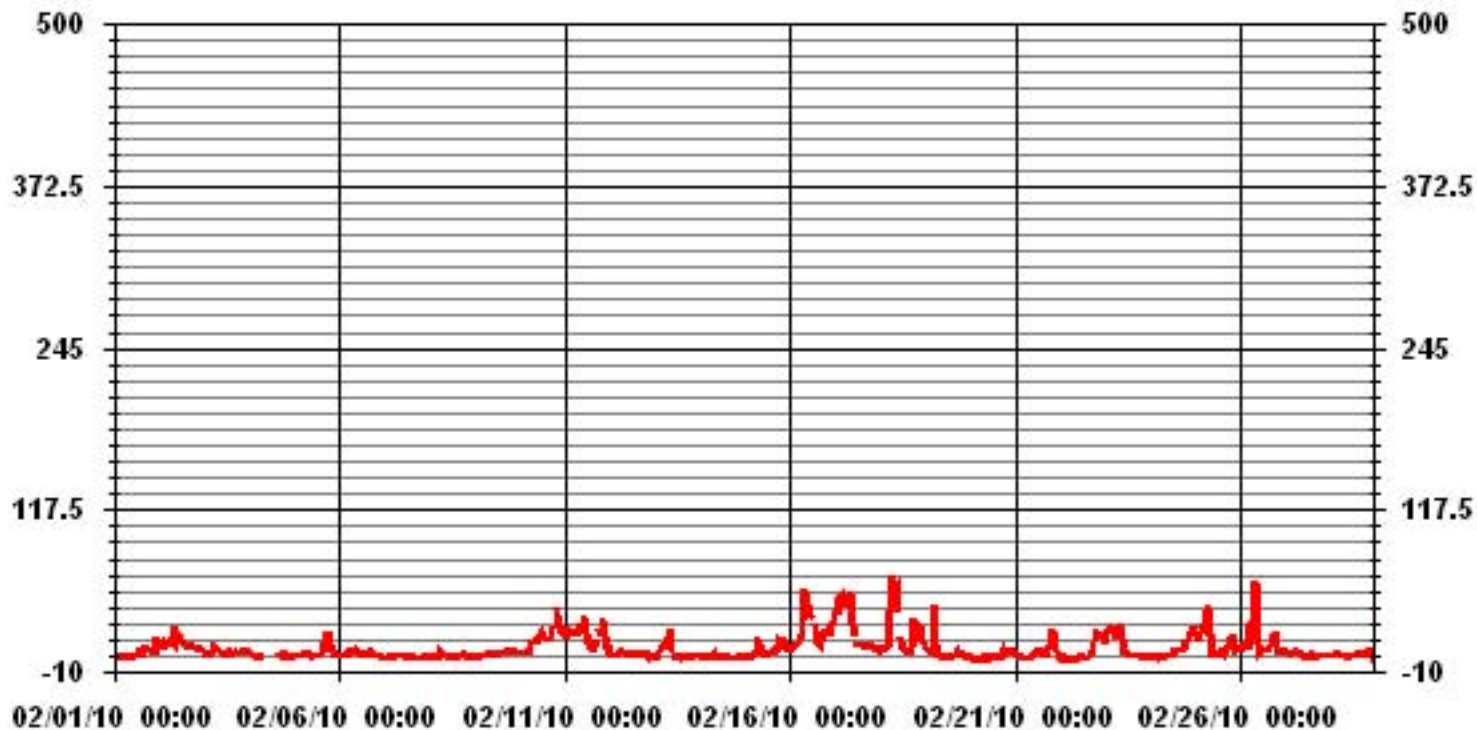
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	627
MAXIMUM 1-HR AVERAGE:	65 PPB @ HOUR(S) 6 ON DAY(S) 18
MAXIMUM 24-HR AVERAGE:	25.0 PPB ON DAY(S) 18
IZS CALIBRATION TIME:	30 HRS
MONTHLY CALIBRATION TIME:	7 HRS
OPERATIONAL TIME:	670 HRS
AMD OPERATION UPTIME:	99.7 %
STANDARD DEVIATION	10.16
MONTHLY AVERAGE	8.88 PPB

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



— LICA NOX_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

OXIDES OF NITROGEN MAX instantaneous maximum in ppb

MST		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		
DAY	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	0:00	MAX.	AVG.	RDGS.
1		2	12	3	2	IZS	4	5	11	6	13	4	17	29	10	8	20	21	19	9	13	13	11	25	15	29	11.8	24	
2		17	17	14	IZS	19	27	21	32	54	23	23	25	25	15	13	11	11	24	13	12	13	12	15	20	54	19.8	24	
3		8	5	IZS	7	12	15	13	12	17	23	8	13	14	12	9	11	10	27	6	11	10	7	8	13	27	11.8	24	
4		10	IZS	6	3	3	2	3	M	M	C	C	C	C	C	C	6	17	5	7	5	4	5	5	17	5.8	22		
5		IZS	17	5	5	5	14	7	22	21	21	21	5	6	9	14	14	27	26	35	15	13	4	4	IZS	35	14.1	24	
6		5	4	6	6	8	17	8	8	11	9	9	6	6	6	6	7	14	13	5	13	5	6	IZS	3	17	7.9	24	
7		4	3	3	7	4	9	6	6	6	7	4	5	5	2	2	3	4	2	7	3	3	IZS	4	1	9	4.3	24	
8		2	2	2	3	3	17	5	10	9	12	3	3	6	29	9	3	9	28	9	5	IZS	6	5	3	29	8.0	24	
9		3	3	3	4	4	4	4	8	10	15	5	5	10	9	8	9	9	8	9	IZS	9	19	7	8	19	7.5	24	
10		6	7	8	7	9	11	15	15	17	16	18	20	24	22	18	19	21	41	IZS	61	69	34	27	27	69	22.3	24	
11		27	24	32	28	23	25	27	26	29	41	51	82	17	14	14	12	22	IZS	37	33	92	38	11	21	92	31.6	24	
12		9	6	5	4	6	9	10	10	11	16	29	8	15	8	34	60	IZS	9	8	7	5	6	5	3	60	12.3	24	
13		2	4	9	15	14	17	30	38	33	24	5	12	8	7	7	IZS	2	4	5	5	4	5	5	6	38	11.3	24	
14		6	5	4	4	3	4	3	10	9	6	2	4	3	2	IZS	3	3	14	2	3	3	3	5	3	14	4.5	24	
15		5	5	6	6	5	11	20	33	59	6	6	6	6	IZS	8	13	12	19	29	24	15	27	15	12	59	15.1	24	
16		10	13	11	16	15	24	26	43	112	66	43	39	IZS	28	25	20	15	27	44	38	35	32	47	42	112	33.5	24	
17		64	49	58	57	58	55	51	87	110	38	26	IZS	14	16	24	14	12	21	15	15	16	17	10	10	110	36.4	24	
18		10	17	22	16	21	153	210	82	71	91	IZS	24	16	11	8	6	11	19	58	42	30	38	32	20	210	43.8	24	
19		19	14	18	36	13	220	53	50	19	IZS	3	3	11	11	4	11	13	12	8	16	10	6	5	8	220	24.5	24	
20		11	6	8	4	9	5	3	6	IZS	2	4	3	6	5	4	6	4	6	13	16	12	35	9	16	35	8.4	24	
21		11	7	5	2	2	3	3	IZS	5	6	6	6	8	7	7	7	5	14	19	33	32	34	13	2	34	10.3	24	
22		2	1	2	2	1	3	IZS	2	6	1	3	2	2	9	12	6	48	12	22	42	30	23	29	24	48	12.3	24	
23		20	32	33	29	28	IZS	38	36	52	55	14	10	5	11	4	10	4	7	5	3	3	4	2	2	55	17.7	24	
24		2	2	2	2	IZS	2	2	4	3	5	6	6	6	8	9	10	10	9	14	17	33	26	33	36	36	10.7	24	
25		38	19	22	IZS	45	67	57	64	268	21	5	10	11	10	15	16	13	23	23	24	34	14	12	18	268	36.0	24	
26		16	15	IZS	22	21	40	57	76	119	34	8	12	15	9	16	16	19	39	31	34	8	9	12	11	119	27.8	24	
27		10	IZS	8	6	8	9	9	7	6	7	5	2	4	5	9	5	4	5	8	7	5	5	6	4	10	6.3	24	
28		IZS	6	5	10	7	6	7	9	7	3	6	6	4	6	7	5	7	17	9	6	13	14	12	IZS	17	7.8	24	
HOURLY MAX		64	49	58	57	58	220	210	87	268	91	51	82	29	29	34	60	48	41	58	61	92	38	47	42				
HOURLY AVG		12.3	11.3	11.5	11.7	13.3	28.6	25.7	27.2	41.2	21.6	12.2	12.8	10.6	10.8	11.3	12.2	12.4	16.7	17.0	18.7	19.3	16.3	13.4	12.8				

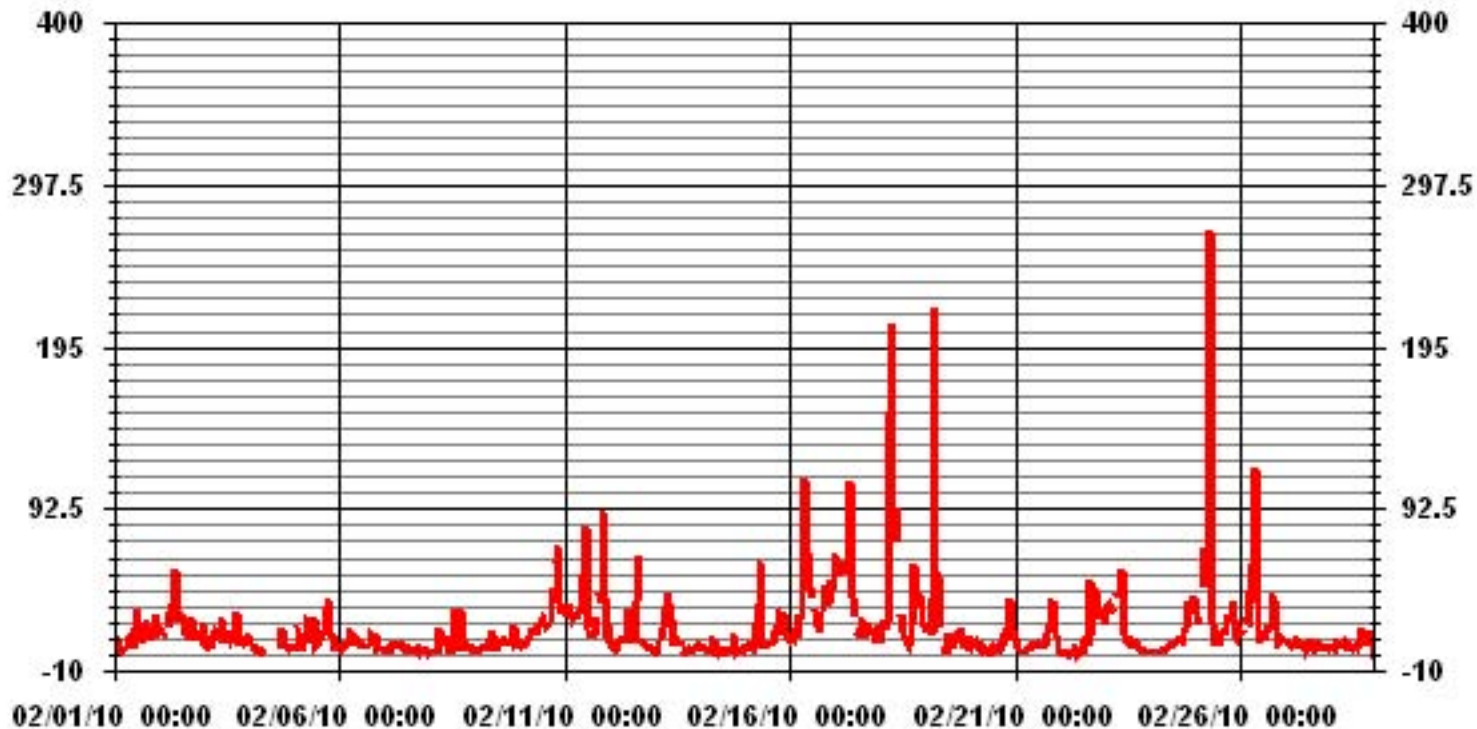
STATUS FLAG CODES

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

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	633					
MAXIMUM INSTANTANEOUS VALUE:	268	PPB	@ HOUR(S)	8	ON DAY(S)	25
IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	7	HRS				
STANDARD DEVIATION:	22.79					

01 Hour Averages



— LICA NOXMAX PPB

LICA
NOX_ / WD Joint Frequency Distribution (Percent)

February 2010

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	3.47	1.73	2.84	3.79	11.37	13.74	21.95	2.68	3.00	6.63	13.27	8.05	3.47	.63	.78	1.42	98.89
< 110	.00	.00	.00	.31	.15	.15	.00	.15	.00	.15	.00	.00	.00	.15	.00	.00	1.10
< 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	3.47	1.73	2.84	4.10	11.53	13.90	21.95	2.84	3.00	6.79	13.27	8.05	3.47	.78	.78	1.42	

Calm : .00 %

Total # Operational Hours : 633

Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	22	11	18	24	72	87	139	17	19	42	84	51	22	4	5	9	626
< 110				2	1	1		1		1				1			7
< 210																	
>= 210																	
Totals	22	11	18	26	73	88	139	18	19	43	84	51	22	5	5	9	

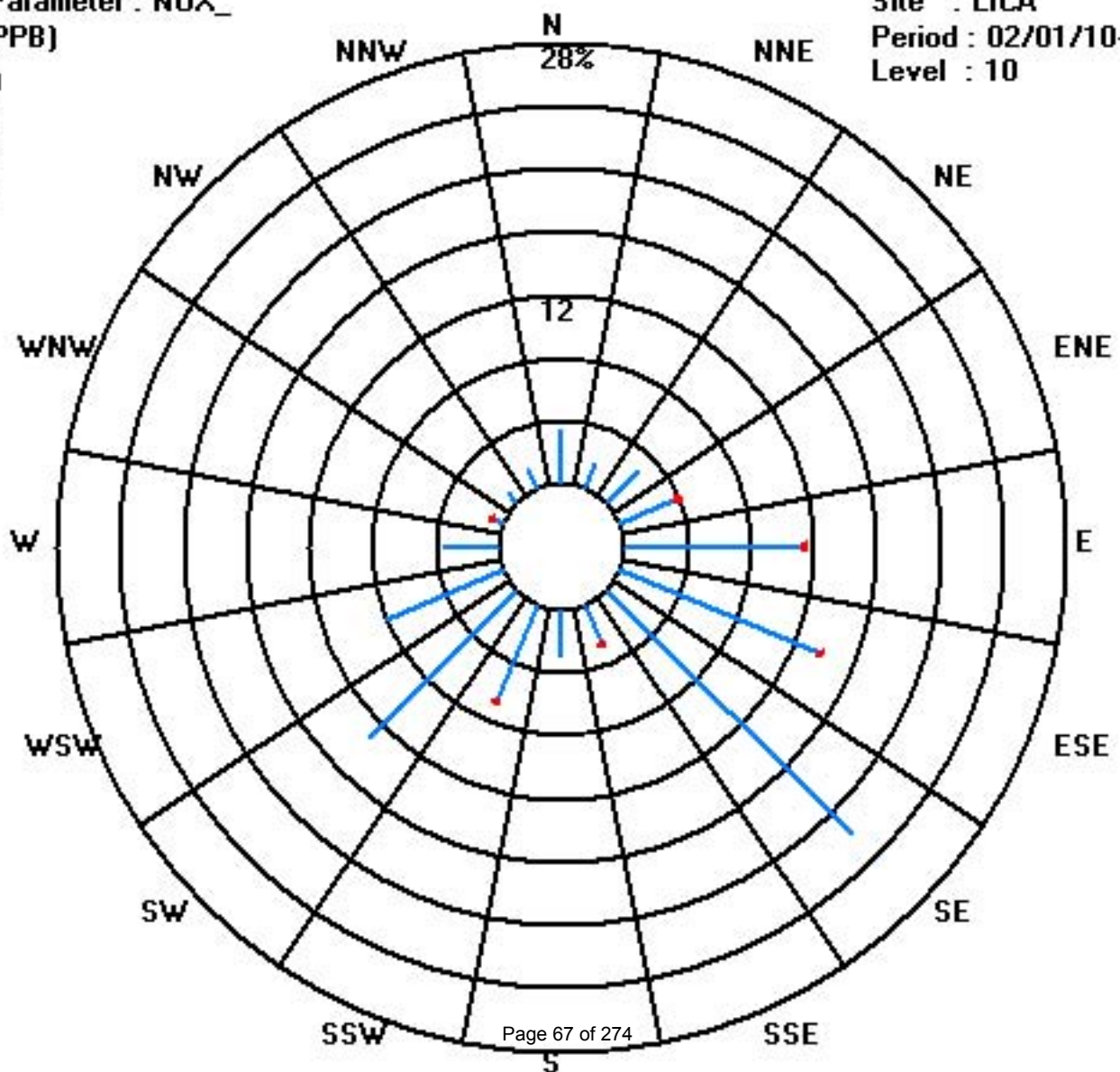
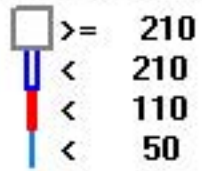
Calm : .00 %

Total # Operational Hours : 633

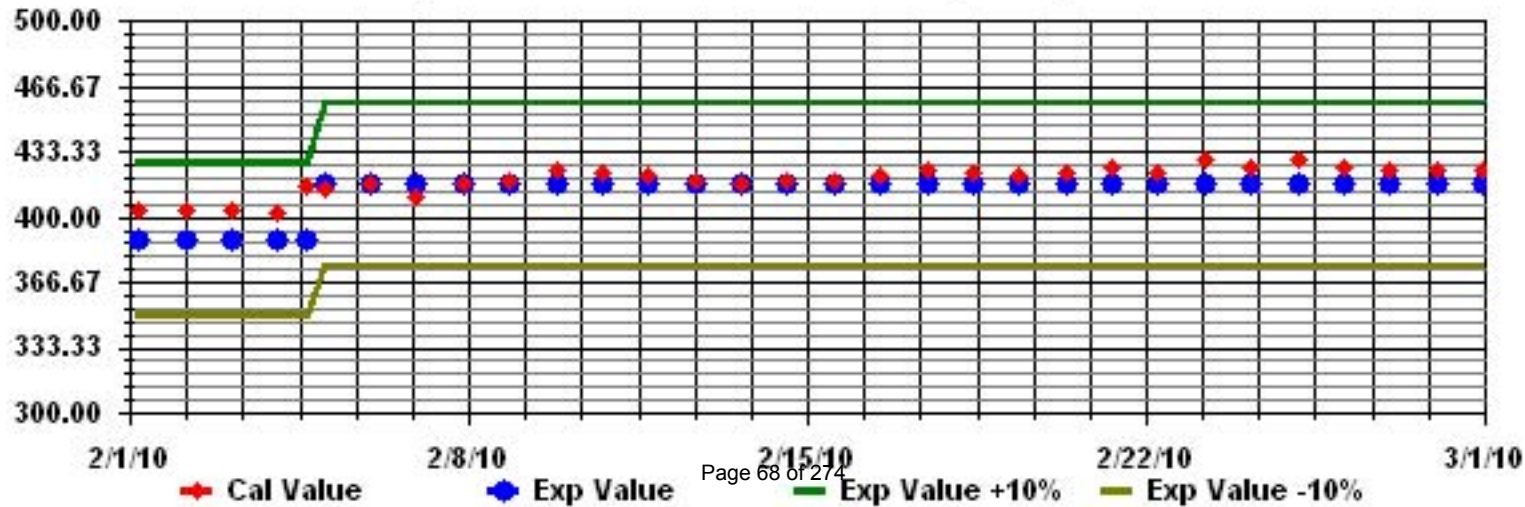
Class Limits (PPB)

Period : 02/01/10-02/28/10

Level : 10



Calibration Graph for Site: LICA Parameter: NOX_ Sequence: NO2 Phase: SPAN



Ozone

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

OZONE (O₃) hourly averages in ppb

MST

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 MAX.	24-HOUR AVG.	RDGS.
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	38	38	37	36	IZS	35	35	35	34	34	34	33	32	33	33	30	29	28	27	27	26	25	10	13	38	30.5	24
2	11	7	9	IZS	7	7	10	15	7	14	15	18	21	23	26	26	24	23	22	22	20	18	17	16	26	16.4	24
3	25	24	IZS	18	15	13	13	15	17	20	23	25	26	29	30	28	26	25	25	24	23	22	21	20	30	22.0	24
4	22	IZS	28	33	35	35	33	M	M	34	35	36	35	34	34	C	C	C	C	34	34	34	33	33	36	33.1	22
5	IZS	32	32	31	31	30	31	30	31	33	34	35	36	35	35	34	29	23	18	27	30	33	34	IZS	36	31.1	22
6	31	31	31	31	30	30	30	30	29	31	35	37	36	35	34	32	31	30	35	36	35	33	IZS	35	37	32.5	24
7	35	35	36	34	34	34	34	34	34	35	36	34	33	33	34	34	35	35	32	32	33	IZS	34	35	36	34.1	24
8	34	34	34	34	34	31	33	33	34	34	35	35	35	36	40	40	39	36	36	37	IZS	34	33	32	40	34.9	24
9	31	31	31	30	30	30	29	28	28	29	30	32	32	33	33	33	31	29	27	IZS	26	26	26	27	33	29.7	24
10	27	26	25	23	23	20	16	15	15	17	17	17	16	18	19	19	16	8	IZS	0	1	0	1	0	27	14.7	24
11	0	0	0	1	4	5	6	4	6	10	13	18	21	24	27	26	23	IZS	8	5	3	9	16	12	27	10.5	24
12	22	24	24	26	27	28	26	26	25	27	27	26	27	28	28	28	IZS	29	29	29	31	30	32	33	33	27.5	24
13	34	35	29	25	23	19	15	14	12	28	32	33	33	35	39	IZS	39	38	37	35	36	35	34	33	39	30.1	24
14	33	34	34	34	34	35	34	32	32	35	36	37	38	39	IZS	41	42	41	40	40	39	38	37	38	42	36.7	24
15	37	36	36	36	32	27	25	15	20	33	34	35	35	IZS	35	33	32	27	17	15	13	8	11	10	37	26.2	24
16	9	8	7	5	3	1	2	1	3	10	14	16	IZS	20	23	25	26	20	9	7	3	3	1	0	26	9.4	24
17	1	1	1	1	0	0	0	0	3	13	21	IZS	28	32	33	32	31	30	28	28	25	26	25	20	33	16.5	24
18	17	14	12	11	13	2	1	1	3	11	IZS	24	26	29	31	33	33	26	8	18	16	3	7	4	33	14.9	24
19	7	12	10	9	8	5	25	32	35	IZS	34	35	35	35	35	35	34	30	30	32	34	35	35	34	35	26.8	24
20	33	34	36	37	37	36	35	34	IZS	37	37	37	37	37	37	37	37	36	26	23	19	26	22	23	37	32.7	24
21	20	31	34	36	37	37	36	IZS	35	35	35	35	33	34	35	36	37	32	25	17	9	11	17	36	37	30.1	24
22	35	36	35	35	35	35	IZS	35	35	36	36	37	38	38	39	40	39	34	23	13	9	11	8	8	40	30.0	24
23	7	3	1	1	2	IZS	5	7	11	21	27	31	33	36	34	35	35	34	34	35	37	37	37	37	37	23.5	24
24	37	38	37	37	IZS	36	36	35	34	33	33	33	34	35	34	35	34	32	29	19	14	8	5	2	38	29.1	24
25	1	3	1	IZS	1	1	0	2	18	27	30	30	30	29	31	30	35	33	21	20	19	31	29	23	35	19.3	24
26	21	26	IZS	18	15	2	1	2	8	26	30	30	31	33	34	33	32	28	20	18	34	35	38	41	41	24.2	24
27	41	IZS	41	42	41	40	38	37	37	39	41	43	43	42	41	42	44	42	41	42	43	43	42	42	44	41.2	24
28	IZS	43	43	41	41	41	43	43	43	44	44	44	45	46	47	47	47	46	40	39	29	28	22	IZS	47	41.2	24
HOURLY MAX	41	43	43	42	41	41	43	43	43	44	44	44	45	46	47	47	47	46	41	42	43	43	42	42			
HOURLY AVG	23.4	24.5	24.8	25.6	22.8	22.8	21.9	21.3	22.7	27.6	30.3	31.3	32.2	32.6	33.4	33.2	33.1	30.6	26.4	25.0	23.7	23.8	23.2	23.3			

STATUS FLAG CODES

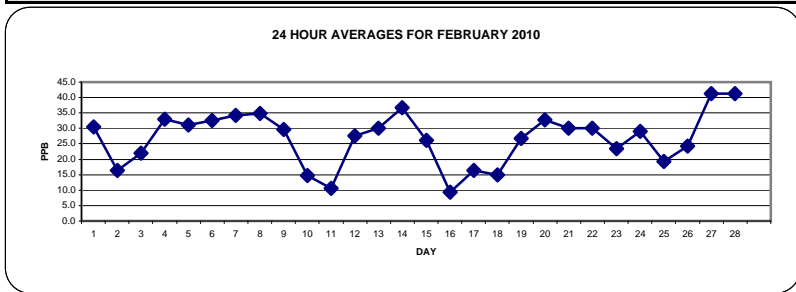
S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MISSING DATA
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

OBJECTIVE LIMIT:

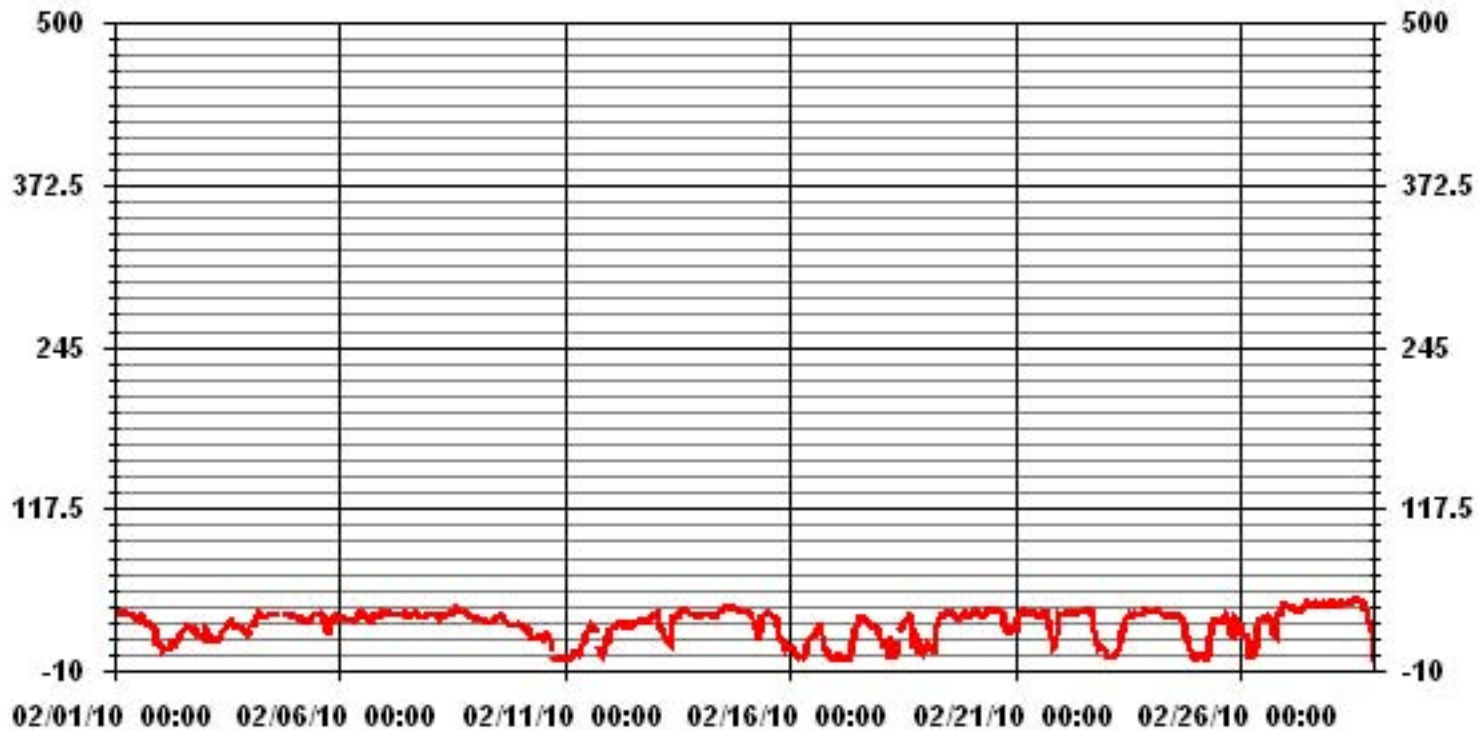
ALBERTA ENVIRONMENT: 1-HR 82 PPB

MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0				
NUMBER OF NON-ZERO READINGS:	624				
MAXIMUM 1-HR AVERAGE:	47	PPB	@ HOUR(S)	VAR	ON DAY(S) 28
MAXIMUM 24-HR AVERAGE:	41.2	PPB			ON DAY(S) 27, 28
					VAR-VARIOUS
IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	670	HRS
MONTHLY CALIBRATION TIME:	4	HRS	AMD OPERATION UPTIME	99.7	%
STANDARD DEVIATION	11.74		MONTHLY AVERAGE	26.66	PPB



01 Hour Averages



— LICA 03_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

OZONE MAX instantaneous maximum in ppb

MST

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	38	39	38	37	IZS	36	36	36	35	35	34	34	34	36	34	32	32	31	29	29	29	29	23	15	39	32.7	24	
2	13	12	15	IZS	10	10	12	18	13	16	18	21	23	24	27	28	25	24	23	24	21	20	19	20	28	19.0	24	
3	26	26	IZS	20	16	15	15	18	19	23	25	26	30	30	31	31	27	26	26	25	24	23	21	21	31	23.7	24	
4	22	IZS	33	34	35	36	35	M	M	35	37	37	36	35	C	C	C	C	C	34	34	34	34	34	37	34.1	22	
5	IZS	33	33	32	32	31	31	32	33	34	35	36	37	36	36	36	34	28	29	29	34	34	34	IZS	37	33.1	24	
6	32	31	32	33	32	32	31	31	31	33	40	38	38	36	35	34	32	33	37	37	37	34	IZS	36	40	34.1	24	
7	36	36	36	35	34	35	35	35	36	37	37	36	34	34	34	34	35	35	35	33	34	IZS	34	35	37	35.0	24	
8	35	34	34	34	34	34	34	34	34	34	36	36	36	38	41	43	40	38	37	37	IZS	35	34	33	43	35.9	24	
9	32	32	31	31	30	30	30	29	29	30	31	33	33	34	34	34	34	30	28	IZS	27	27	27	27	34	30.6	24	
10	27	26	26	24	24	22	18	17	17	18	18	18	17	19	20	20	18	15	IZS	1	2	2	2	2	27	16.2	24	
11	2	1	1	4	8	7	8	7	8	13	17	21	26	26	29	28	28	IZS	12	10	8	16	16	18	29	13.7	24	
12	24	25	25	27	29	30	27	27	27	28	28	27	29	30	30	29	IZS	31	31	31	32	32	33	34	34	29.0	24	
13	35	36	31	28	26	22	19	19	17	32	33	34	34	38	39	IZS	40	39	38	36	36	35	35	34	40	32.0	24	
14	34	35	35	34	35	35	35	35	33	36	36	38	39	40	IZS	42	42	42	41	40	40	39	38	38	42	37.5	24	
15	38	37	37	37	34	32	29	27	30	35	35	36	36	IZS	38	35	33	31	21	20	16	13	14	13	38	29.4	24	
16	11	12	9	7	5	2	4	6	6	14	15	18	IZS	24	30	29	29	26	15	13	5	8	2	2	30	12.7	24	
17	2	2	1	1	1	0	0	1	6	18	24	IZS	31	37	34	34	32	31	30	30	27	27	27	24	37	18.3	24	
18	21	17	15	16	16	4	3	2	7	19	IZS	28	27	32	33	34	35	32	20	33	33	7	18	7	35	20.0	24	
19	13	17	14	15	12	10	34	34	37	IZS	35	36	36	36	36	36	35	33	33	34	35	36	37	37	37	29.6	24	
20	36	38	38	38	38	38	37	35	IZS	38	38	38	38	38	37	38	38	37	32	30	26	33	28	27	38	35.4	24	
21	30	34	35	37	38	37	36	IZS	36	36	36	36	35	35	36	38	38	36	29	23	22	17	35	36	38	33.5	24	
22	36	36	36	36	36	36	IZS	36	36	37	37	38	38	40	41	42	41	38	33	25	22	16	16	12	42	33.2	24	
23	11	5	2	2	3	IZS	11	12	16	26	30	33	34	36	36	36	36	35	35	37	38	38	38	38	38	25.6	24	
24	38	38	38	37	IZS	37	36	36	35	34	34	34	35	36	35	36	35	34	32	26	20	14	10	7	38	31.2	24	
25	3	5	3	IZS	3	3	2	7	25	29	31	31	32	30	32	32	38	38	33	29	32	33	32	29	38	23.1	24	
26	27	32	IZS	24	20	8	3	5	24	30	31	30	33	35	35	36	34	33	26	32	35	37	40	42	42	28.3	24	
27	43	IZS	42	42	42	42	39	38	38	40	43	43	44	44	42	43	44	44	42	43	44	44	43	43	44	42.3	24	
28	IZS	43	44	42	43	43	44	44	44	44	44	45	46	46	47	48	48	47	44	43	37	37	26	IZS	48	43.1	24	
HOURLY MAX	43	43	44	42	43	43	44	44	44	44	44	45	46	46	47	48	48	47	44	43	44	44	43	43				
HOURLY AVG	25.6	26.2	26.3	27.2	24.5	24.7	23.9	23.9	25.8	29.8	31.8	32.6	33.7	34.3	34.7	34.9	34.7	33.3	30.4	29.0	27.8	26.7	26.5	25.5				

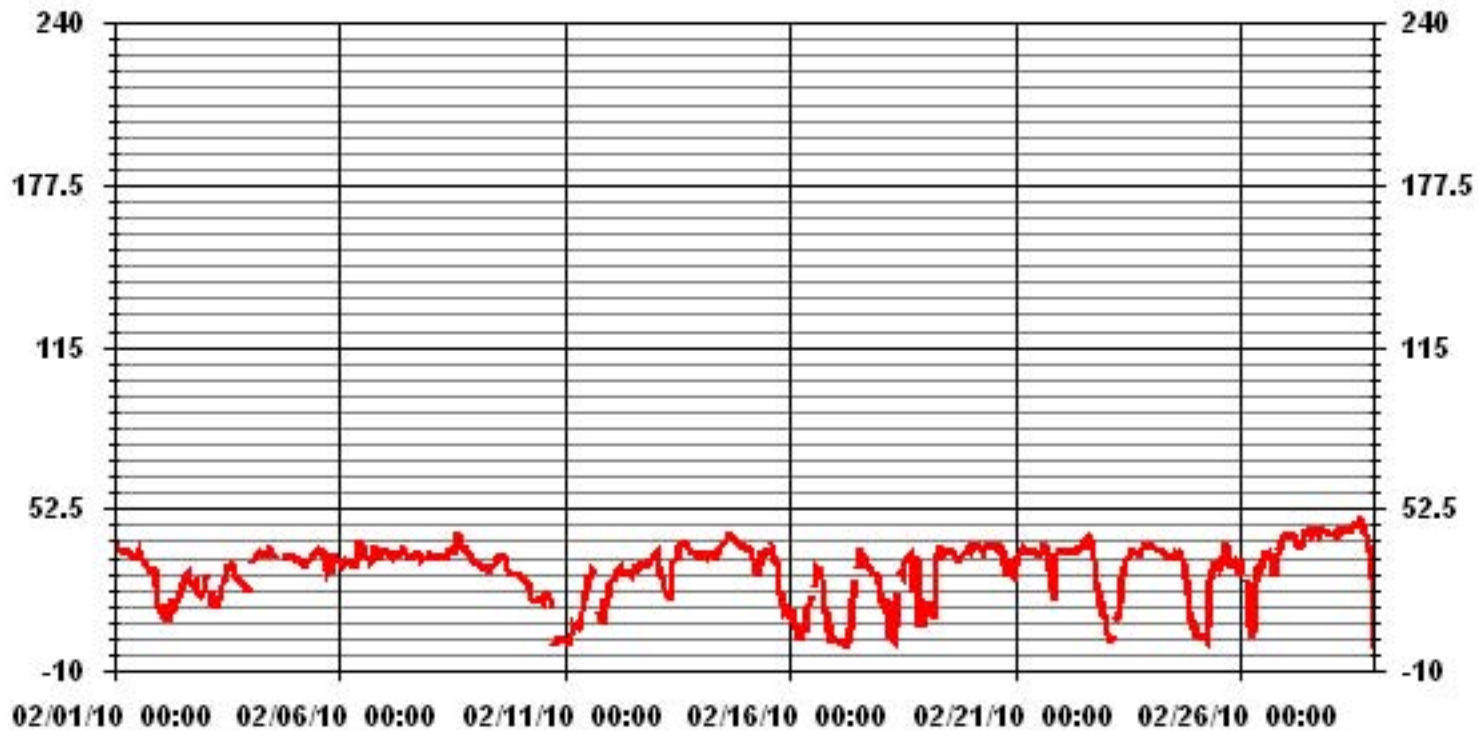
STATUS FLAG CODES

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:	633				
MAXIMUM INSTANTANEOUS VALUE:	48	PPB	@ HOUR(S)	15, 16	ON DAY(S) 28
IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	670	HRS
MONTHLY CALIBRATION TIME:	5	HRS			
STANDARD DEVIATION:	10.93				

01 Hour Averages



— LICA O3MAX PPB

LICA
O3_ / WD Joint Frequency Distribution (Percent)

February 2010

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	3.45	1.72	2.83	4.08	11.47	13.83	22.16	3.14	2.98	6.60	13.20	8.01	3.45	.78	.78	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	3.45	1.72	2.83	4.08	11.47	13.83	22.16	3.14	2.98	6.60	13.20	8.01	3.45	.78	.78	1.41	

Calm : .00 %

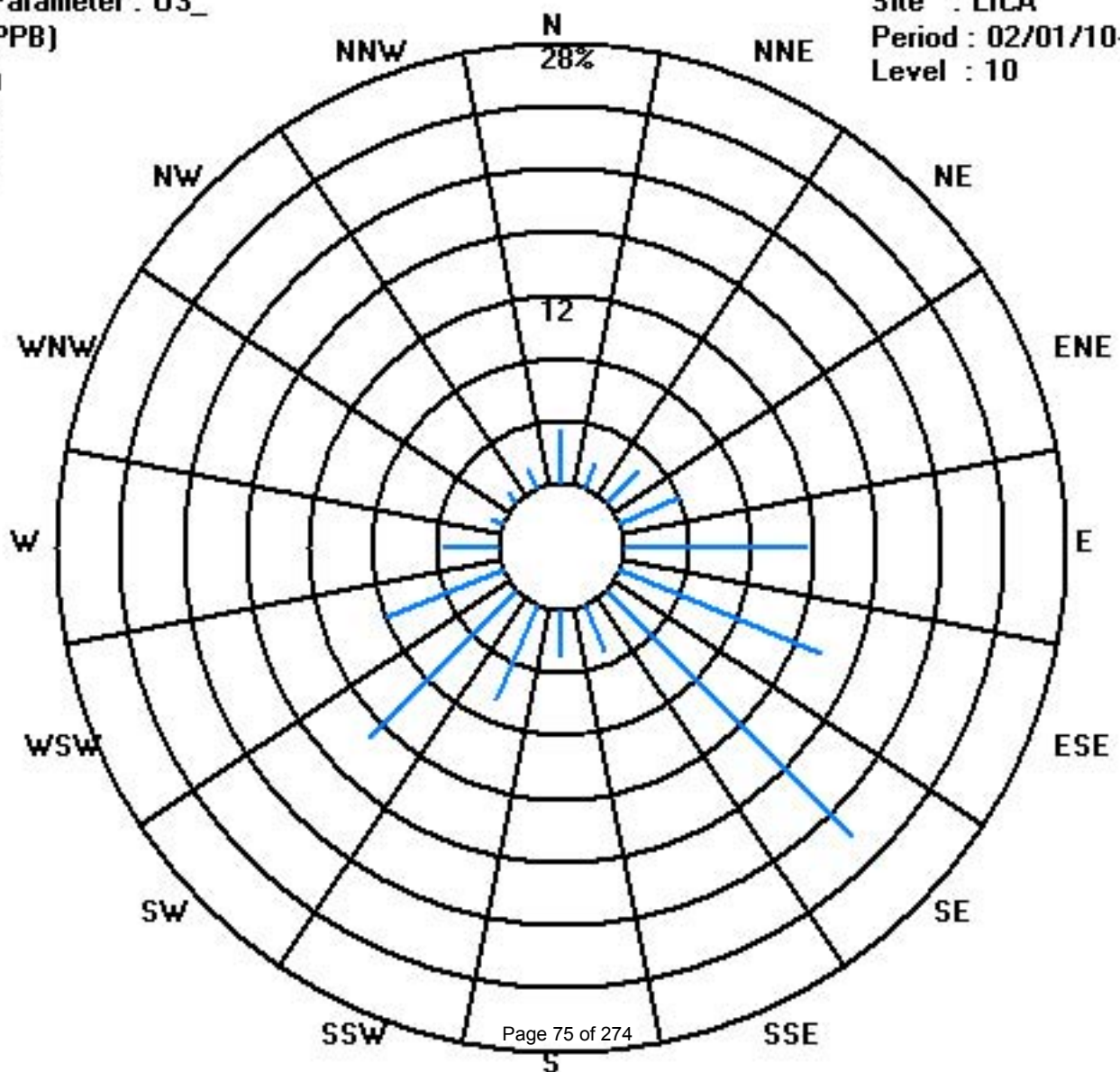
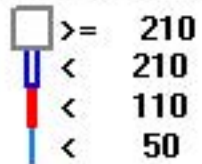
Total # Operational Hours : 636

Distribution By Samples

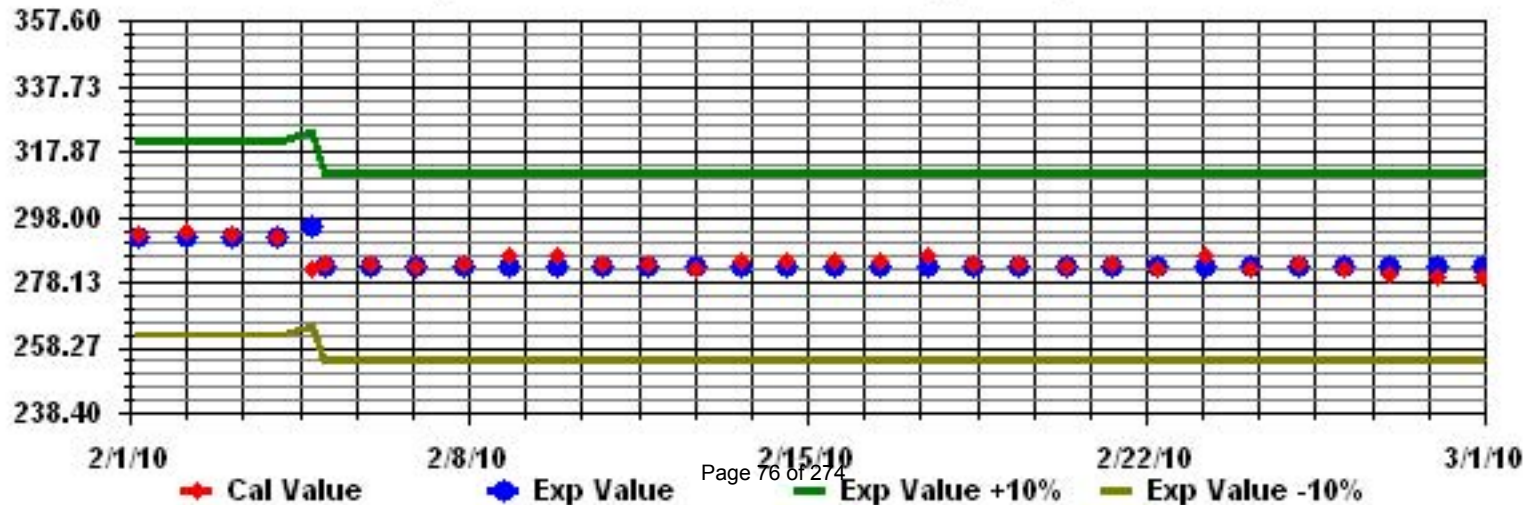
	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	22	11	18	26	73	88	141	20	19	42	84	51	22	5	5	9	636
< 110																	
< 210																	
>= 210																	
Totals	22	11	18	26	73	88	141	20	19	42	84	51	22	5	5	9	

Calm : .00 %

Total # Operational Hours : 636



Calibration Graph for Site: LICA Parameter: 03_ Sequence: 03 Phase: SPAll



Ambient Temperature

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

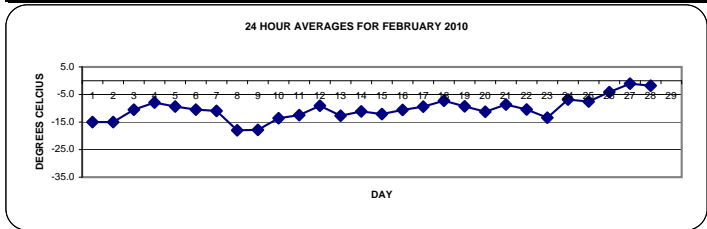
FEBRUARY 2010

AMBIENT TEMPERATURE hourly averages (Degrees C)

MST		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 MAX.	24-HOUR AVG.	RDGS.
HOUR START	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	-15.6	-15.6	-15.8	-15.9	-15.9	-15.8	-15.8	-15.8	-15.5	-15.1	-14.5	-13.8	-13.5	-13	-12.7	-12.6	-12.7	-13.1	-13.4	-14.3	-16.9	-18.2	-18.9	-12.6	-15.0	24	
2	-19.9	-19.9	-19.6	-19.8	-20.5	-19.1	-18.2	-17.9	-18.4	-16.5	-15.2	-13.2	-12.1	-11.4	-11.1	-11.3	-11.3	-11.3	-11.3	-11.3	-11.4	-11.8	-13.2	-14.4	-11.1	-15.0	24	
3	-12.8	-12.3	-12.6	-12.6	-12.8	-12.8	-12.8	-12.5	-12.4	-12	-11.1	-10.4	-9.4	-8.8	-8.6	-8.4	-8.4	-8.6	-8.8	-8.8	-8.8	-8.8	-8.8	-8.7	-8.4	-10.5	24	
4	-8.5	-8.3	-7.8	-7.5	-7.9	-8.1	-8.5	M	M	-8.6	-8.1	-7.6	-7.2	-7	-7	-6.9	-7	-7.3	-7.7	-8.1	-8.5	-8.8	-8.9	-9	-6.9	-7.9	22	
5	-9.1	-9.1	-9.2	-9.3	-9.5	-9.9	-10.2	-10.2	-10.2	-10	-9.8	-9.4	-8.8	-8	-7.6	-7.1	-7.8	-9	-10.2	-9.4	-9.2	-9.9	-10.7	-10.8	-7.1	-9.4	24	
6	-11.1	-12.9	-13.6	-12.7	-12.1	-11.8	-11.5	-11.2	-11	-10.6	-10.1	-9.9	-9.6	-9.5	-9.3	-9.1	-9.3	-9.4	-9.6	-9.7	-9.6	-9.5	-9.5	-9.3	-9.1	-10.5	24	
7	-9.3	-9.1	-8.9	-8.9	-8.8	-8.7	-8.6	-8.5	-8.8	-9	-8.8	-8.2	-8.3	-7.9	-8	-8.4	-9.9	-11.6	-13.5	-15.4	-17	-18.2	-18.9	-19.8	-7.9	-10.9	24	
8	-20.7	-21.1	-21.5	-22.1	-22.4	-22.6	-22.9	-21.8	-21.3	-21.3	-20	-17.7	-15.3	-12	-10	-9.7	-10.5	-12.9	-15.1	-16.2	-17.7	-18.2	-19	-19.7	-9.7	-18.0	24	
9	-20.5	-20.9	-21.4	-21.7	-21.5	-21.3	-21.4	-21.4	-21.2	-20.7	-19.3	-17.2	-15	-13.2	-11.9	-11.5	-12.1	-13.7	-15.8	-17.2	-17.3	-17.4	-17.4	-16.8	-11.5	-17.8	24	
10	-16.6	-16.2	-15.9	-16	-15.7	-15.2	-14.8	-14.9	-14.7	-14	-13.4	-12.6	-12	-10.7	-9.7	-8.3	-8.9	-11.2	-13.5	-14	-13	-13.4	-15.2	-16.7	-8.3	-13.6	24	
11	-17.8	-17.7	-16.9	-15.8	-15	-14.6	-14.9	-16.2	-16.4	-14.2	-12.2	-9.7	-7.9	-6.6	-4.6	-3	-4.4	-9.1	-12.7	-14.3	-15.4	-13.8	-13.5	-12.5	-3.0	-12.5	24	
12	-10.3	-9	-10.2	-9.8	-9.5	-8.9	-8.7	-8.4	-8.2	-8	-8.1	-8	-8.1	-8.2	-8.3	-8.7	-9.1	-9.5	-9.6	-9.7	-9.7	-9.7	-9.6	-9.6	-8.0	-9.1	24	
13	-9.6	-10.4	-12.4	-14.6	-16.3	-17.8	-19.2	-19.2	-18.6	-15.7	-13.8	-11.9	-10.3	-8.2	-6.1	-5.8	-6.5	-8.5	-10.4	-11.9	-12.8	-13.8	-14.9	-15.9	-5.8	-12.7	24	
14	-16.3	-16.6	-16.8	-17.3	-17	-16.5	-16.8	-17.2	-16.7	-14.3	-12.9	-9.5	-6.7	-4.2	-2.6	-2.2	-2.4	-4.1	-5.9	-7.7	-9	-10.4	-11.7	-12.4	-2.2	-11.1	24	
15	-13.2	-13.7	-14.1	-14.5	-15.1	-16.4	-17.2	-18.1	-16.9	-13.4	-12	-10.6	-8.9	-7.8	-6.1	-5.3	-5.2	-6.2	-8.8	-10.7	-12.4	-13.7	-14.6	-15.4	-5.2	-12.1	24	
16	-16.1	-16.7	-17.2	-17.7	-18	-18	-17.6	-16.8	-16.2	-13.6	-10.4	-7.8	-3.2	-1.5	0.1	1	-0.3	-2.6	-5.6	-8.1	-9.8	-11.4	-12.9	-13.7	1.0	-10.6	24	
17	-13.9	-14.5	-14.9	-15.7	-17.1	-17.8	-18.6	-18.9	-17.4	-12.6	-8.6	-6.5	-3.9	-2.1	-1.3	-1.3	-2.3	-3.7	-4.8	-5.7	-6.4	-7	-9.3	-1.3	-9.4	24		
18	-11.1	-12.5	-13.7	-14.5	-13.2	-15.1	-15.8	-15.2	-12.5	-7.7	-5.1	-3.3	-1.3	0	1	1.6	2.2	-0.5	-3.8	-4.2	-5.6	-7.9	-8	-8	2.2	-7.3	24	
19	-8.1	-9.5	-10.7	-12	-13.3	-13.2	-8.5	-7.3	-7.2	-7.4	-9	-9.6	-9.5	-9.1	-8.6	-8.3	-8.3	-8.7	-9.1	-8.8	-9	-9.1	-9.3	-9.4	-7.2	-9.3	24	
20	-9.6	-9.8	-10	-10.1	-10.2	-10.3	-10.6	-10.6	-10.4	-10.4	-10.2	-9.8	-9.6	-9.3	-9.2	-9.3	-9.4	-10	-12.3	-14.4	-16	-14.9	-16.7	-16.9	-9.2	-11.3	24	
21	-16.1	-13.6	-12.7	-12.1	-11.7	-11.5	-11.2	-11.3	-10.8	-9.7	-8.4	-6.4	-4.7	-3.8	-2.6	-1.9	-3.3	-4.6	-6.7	-9	-9.7	-10.9	-9.6	-5.2	-1.9	-8.6	24	
22	-6.1	-7.3	-8.1	-8.6	-9	-9.5	-10	-10.3	-10.3	-9.9	-9.3	-8.7	-7.8	-6.8	-6.1	-6.8	-7.6	-8.9	-11.6	-14.2	-16.4	-18.2	-19.2	-19.9	-6.1	-10.4	24	
23	-20.9	-21.6	-21.9	-22.6	-22.1	-22.7	-23.1	-23.5	-21.1	-16.4	-13	-10.4	-9.1	-7.2	-6.7	-6.8	-6.9	-6.9	-6.6	-6.3	-6.3	-6.6	-6.6	-6.7	-6.3	-13.4	24	
24	-6.9	-7.3	-7.5	-7.7	-7.9	-8.3	-8.5	-8.6	-8.3	-7.8	-7.1	-6.2	-5.1	-3.4	-1.8	-1	-1.4	-3.2	-5	-7.2	-8.9	-10.3	-11.6	-12.7	-1.0	-6.8	24	
25	-14	-15.3	-15.9	-16.4	-16.2	-17.2	-17.5	-16.7	-11	-7.7	-5.8	-4.2	-2	-1.2	0.3	1.5	2.4	0.8	-2.2	-3.4	-4.2	-4.1	-4.8	-6.1	2.4	-7.5	24	
26	-6.1	-5.3	-6.5	-9	-10.7	-11.9	-12.9	-13.4	-10.3	-6	-3	-1.8	0	1.3	1.8	2.7	2.3	0.2	-2	-1.8	-0.8	-1.4	-2	-2.6	2.7	-4.1	24	
27	-2.8	-3.3	-3.6	-3.8	-3.8	-4.2	-4.6	-4.3	-3.7	-2.8	-1.1	0.9	2.7	3.1	2.2	2.2	1.6	1.1	0.7	0.2	0	-0.4	-0.7	-1.3	3.1	-1.1	24	
28	-1.6	-1.9	-2.3	-2.7	-2.9	-3	-2.4	-2.5	-2.5	-2	-0.8	-0.3	0.1	1	1.5	2	1.8	0.5	-1.2	-1.9	-3.3	-4.9	-6.3	-7.4	2.0	-1.8	24	
HOURLY MAX		-1.6	-1.9	-2.3	-2.7	-2.9	-3.0	-2.4	-2.5	-2.0	-0.8	0.9	2.7	3.1	2.2	2.7	2.4	1.1	0.7	0.2	0.0	-0.4	-0.7	-1.3				
HOURLY AVG		-12.3	-12.6	-12.9	-13.3	-13.4	-13.7	-13.7	-13.8	-13.0	-11.4	-10.1	-8.7	-7.4	-6.3	-5.5	-5.1	-5.5	-6.8	-8.4	-9.3	-10.1	-10.7	-11.4	-11.8			

STATUS FLAG CODES

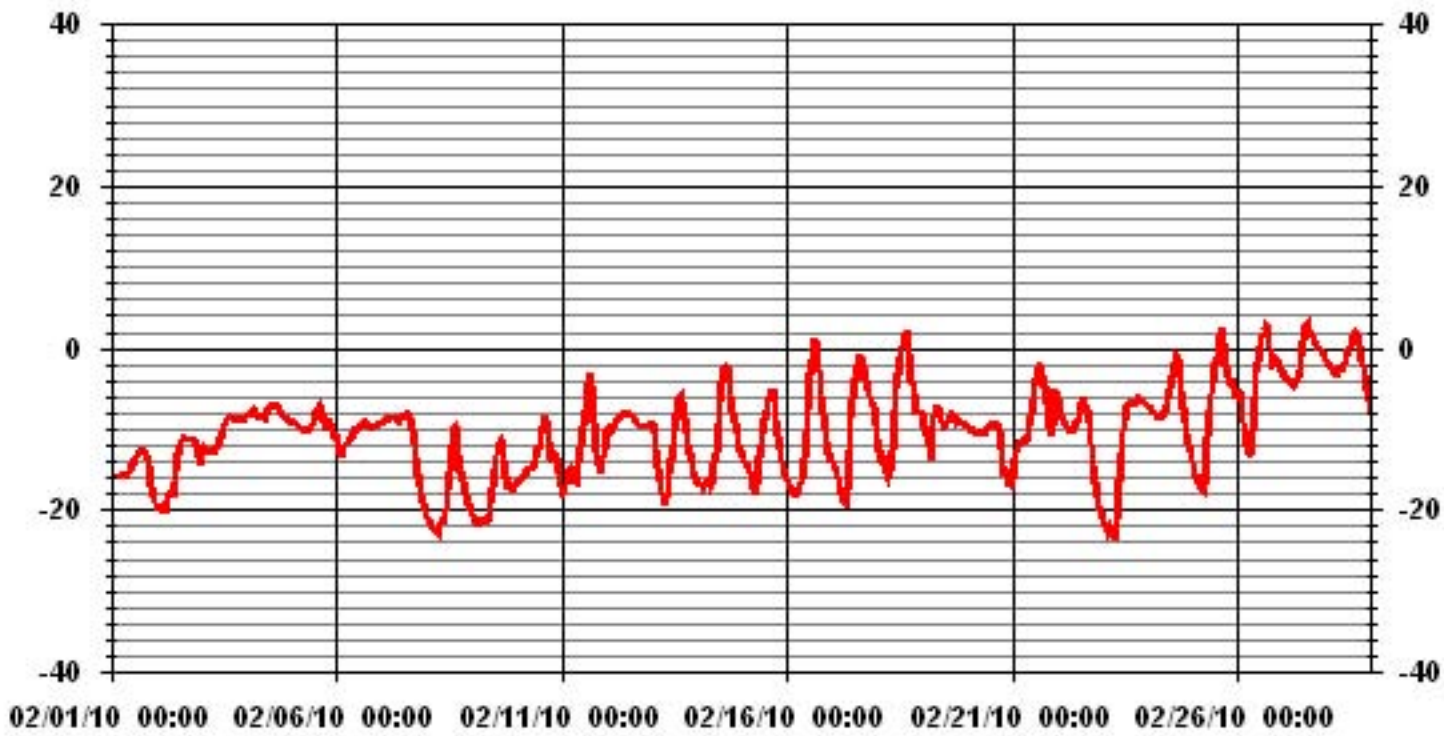
S	- OUT OF SERVICE	OD	- OUTSIDE DETECTION LIMITS
N	- INVALID DATA	M	- MISSING DATA
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE



MONTHLY SUMMARY

MINIMUM 1-HR AVERAGE:	-23.5 °C	@ HOUR(S)	7	ON DAY(S)	23
MAXIMUM 1-HR AVERAGE:	3.1 °C	@ HOUR(S)	13	ON DAY(S)	27
MAXIMUM 24-HR AVERAGE:	-1.1 °C			ON DAY(S)	27
				VAR-VARIOUS	
CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	670	HRS
STANDARD DEVIATION:	5.60		AMD OPERATION UPTIME:	99.7	%
			MONTHLY AVERAGE:	-10.28	°C

01 Hour Averages



— LICA TPX DGC

Relative Humidity

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

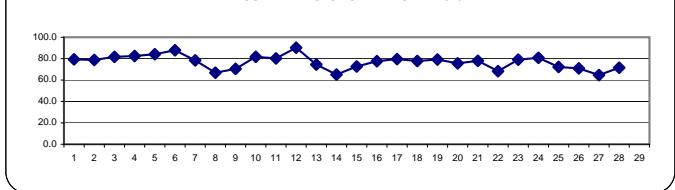
RELATIVE HUMIDITY hourly averages (%)

MST		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	0:00	DAILY MAX.	24-HOUR AVG.	RDGS.	
HOUR START	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		78.0	79.0	79.0	80.0	81.0	81.0	81.0	81.0	81.0	80.0	78.0	77.0	76.0	76.0	76.0	77.0	78.0	79.0	81.0	82.0	83.0	82.0	80.0	78.0	83.0	79.3	24		
2		76.0	76.0	76.0	76.0	77.0	78.0	79.0	78.0	79.0	79.0	79.0	77.0	76.0	76.0	77.0	77.0	79.0	81.0	82.0	83.0	83.0	82.0	83.0	82.0	83.0	82.0	83.0	78.8	24
3		80.0	80.0	82.0	82.0	83.0	84.0	84.0	83.0	82.0	80.0	78.0	78.0	75.0	74.0	77.0	79.0	80.0	82.0	85.0	88.0	88.0	87.0	85.0	84.0	88.0	81.7	24		
4		84.0	85.0	86.0	89.0	90.0	89.0	89.0	M	M	88.0	86.0	82.0	76.0	73.0	77.0	74.0	76.0	78.0	79.0	80.0	82.0	83.0	85.0	87.0	90.0	82.5	22		
5		88.0	89.0	90.0	91.0	90.0	90.0	91.0	90.0	90.0	89.0	88.0	83.0	75.0	71.0	70.0	69.0	73.0	77.0	81.0	82.0	85.0	90.0	89.0	88.0	91.0	84.1	24		
6		88.0	86.0	86.0	88.0	88.0	88.0	89.0	89.0	89.0	89.0	88.0	88.0	87.0	86.0	84.0	84.0	85.0	85.0	89.0	91.0	90.0	91.0	91.0	91.0	91.0	87.8	24		
7		91.0	90.0	90.0	89.0	90.0	89.0	89.0	88.0	87.0	86.0	84.0	70.0	63.0	62.0	61.0	62.0	65.0	69.0	73.0	75.0	77.0	78.0	77.0	76.0	91.0	78.4	24		
8		76.0	75.0	74.0	75.0	75.0	76.0	75.0	73.0	71.0	68.0	63.0	58.0	54.0	46.0	40.0	54.0	60.0	67.0	66.0	65.0	70.0	73.0	75.0	76.0	76.0	66.9	24		
9		77.0	76.0	76.0	77.0	76.0	76.0	77.0	77.0	76.0	71.0	66.0	63.0	59.0	56.0	54.0	55.0	58.0	61.0	68.0	76.0	79.0	79.0	79.0	80.0	80.0	70.5	24		
10		84.0	82.0	81.0	82.0	86.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	84.0	82.0	76.0	69.0	71.0	79.0	83.0	82.0	81.0	81.0	82.0	81.0	86.0	81.7	24		
11		80.0	79.0	83.0	84.0	85.0	85.0	84.0	83.0	83.0	84.0	86.0	84.0	78.0	71.0	65.0	60.0	65.0	75.0	83.0	83.0	84.0	88.0	86.0	87.0	88.0	80.2	24		
12		90.0	90.0	90.0	90.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	90.0	90.0	90.0	90.0	89.0	89.0	89.0	89.0	89.0	91.0	90.2	24		
13		88.0	86.0	86.0	84.0	83.0	80.0	79.0	79.0	79.0	80.0	78.0	73.0	69.0	63.0	52.0	50.0	52.0	59.0	67.0	74.0	78.0	81.0	83.0	85.0	88.0	74.5	24		
14		84.0	83.0	82.0	81.0	80.0	78.0	76.0	73.0	65.0	64.0	57.0	51.0	47.0	44.0	42.0	43.0	48.0	55.0	61.0	64.0	67.0	70.0	72.0	84.0	65.1	24			
15		74.0	75.0	76.0	76.0	78.0	80.0	81.0	81.0	76.0	68.0	64.0	62.0	61.0	62.0	62.0	62.0	66.0	75.0	79.0	81.0	82.0	82.0	80.0	82.0	82.0	72.7	24		
16		79.0	80.0	78.0	78.0	78.0	79.0	83.0	82.0	83.0	85.0	84.0	78.0	62.0	60.0	58.0	60.0	70.0	77.0	83.0	86.0	87.0	86.0	84.0	83.0	87.0	77.6	24		
17		86.0	85.0	85.0	83.0	80.0	80.0	78.0	77.0	78.0	81.0	79.0	75.0	68.0	64.0	62.0	62.0	67.0	78.0	85.0	90.0	93.0	93.0	92.0	89.0	93.0	79.6	24		
18		87.0	85.0	84.0	83.0	86.0	82.0	82.0	82.0	83.0	83.0	82.0	79.0	73.0	68.0	63.0	59.0	57.0	67.0	78.0	76.0	78.0	84.0	83.0	83.0	87.0	77.8	24		
19		83.0	86.0	86.0	86.0	84.0	84.0	88.0	87.0	86.0	85.0	83.0	78.0	75.0	74.0	72.0	70.0	70.0	72.0	74.0	74.0	76.0	76.0	76.0	76.0	88.0	79.2	24		
20		78.0	78.0	76.0	75.0	75.0	79.0	77.0	75.0	73.0	72.0	71.0	71.0	70.0	70.0	70.0	70.0	71.0	78.0	81.0	82.0	83.0	82.0	82.0	83.0	83.0	75.6	24		
21		81.0	85.0	86.0	87.0	89.0	89.0	88.0	88.0	89.0	88.0	82.0	72.0	64.0	61.0	57.0	55.0	62.0	67.0	73.0	80.0	82.0	83.0	83.0	81.0	89.0	78.0	24		
22		83.0	83.0	82.0	83.0	81.0	80.0	78.0	78.0	78.0	72.0	69.0	61.0	54.0	49.0	43.0	42.0	44.0	49.0	62.0	69.0	73.0	75.0	76.0	75.0	83.0	68.3	24		
23		76.0	76.0	75.0	74.0	74.0	74.0	74.0	74.0	73.0	75.0	76.0	74.0	74.0	78.0	79.0	80.0	81.0	84.0	85.0	86.0	87.0	88.0	90.0	90.0	90.0	79.0	24		
24		90.0	91.0	92.0	92.0	90.0	91.0	90.0	90.0	89.0	85.0	80.0	77.0	73.0	67.0	62.0	60.0	61.0	68.0	73.0	80.0	83.0	85.0	85.0	84.0	92.0	80.8	24		
25		83.0	81.0	80.0	80.0	82.0	79.0	79.0	81.0	87.0	83.0	77.0	72.0	64.0	60.0	56.0	53.0	49.0	55.0	67.0	70.0	73.0	71.0	74.0	78.0	87.0	72.3	24		
26		79.0	78.0	81.0	86.0	87.0	86.0	85.0	84.0	81.0	75.0	66.0	63.0	58.0	54.0	52.0	50.0	52.0	58.0	66.0	68.0	67.0	72.0	76.0	77.0	87.0	70.9	24		
27		75.0	76.0	74.0	72.0	71.0	72.0	74.0	72.0	69.0	66.0	60.0	54.0	49.0	50.0	56.0	58.0	59.0	60.0	61.0	62.0	63.0	65.0	66.0	68.0	76.0	64.7	24		
28		70.0	71.0	72.0	74.0	75.0	75.0	73.0	75.0	73.0	69.0	65.0	64.0	63.0	60.0	59.0	58.0	61.0	67.0	75.0	77.0	81.0	85.0	87.0	88.0	88.0	71.5	24		
HOURLY MAX		91.0	91.0	92.0	92.0	90.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	90.0	90.0	90.0	90.0	90.0	90.0	93.0	93.0	92.0	91.0					
HOURLY AVG		81.7	81.6	81.7	82.0	82.3	82.0	82.1	81.5	81.0	79.4	76.9	73.1	68.7	66.1	64.0	63.6	65.7	70.3	75.5	78.1	80.0	81.4	81.8	81.8					

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

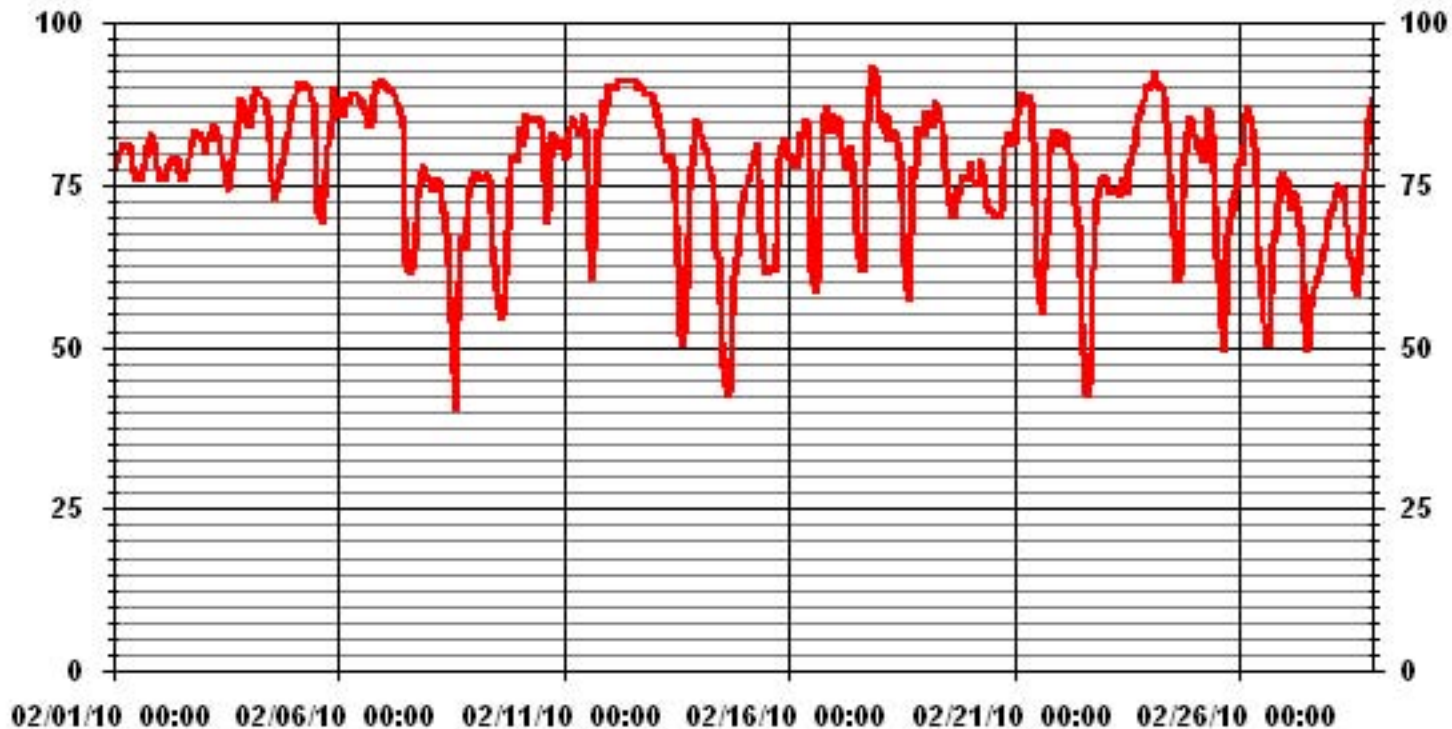
24 HOUR AVERAGES FOR FEBRUARY 2010



MONTHLY SUMMARY

MAXIMUM 1-HR AVERAGE:	93.0	%	@ HOUR(S)	20, 21	ON DAY(S)	17
MAXIMUM 24-HR AVERAGE:	90.2	%			ON DAY(S)	12
CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	670	HRS	
STANDARD DEVIATION:	10.46		AMD OPERATION UPTIME:	99.7	%	
			MONTHLY AVERAGE:	76.75	%	

01 Hour Averages



Vector Wind Speed

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

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

MST		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	23:00	DAILY	24-HOUR	
DAY	DAY	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.	
1	1	7.3	7.8	7.4	7.8	6.9	6.5	6.6	6	6.8	6.7	7	6.2	3.7	5.8	3.9	3	2.4	1.6	2.6	3	0.7	0.6	0.4	0.2	7.8	4	24	
2	2	1.1	0.2	0.2	0.7	1.1	0.4	1	1.7	1.1	3.6	3.5	2.7	5	5.3	5.7	6.2	5.4	3.6	3.8	3.8	4.8	3.6	4	3.1	6.2	4.7	24	
3	3	4.2	1.6	1.3	0.8	0.8	2.7	2.6	2	3	5.8	4.2	4.8	3.3	4.9	5.8	4.3	3.3	4.2	4.6	3.9	4.5	6.4	4.9	3.9	6.4	3	24	
4	4	3.7	4.9	3.3	3.7	4	3.4	4.4	M	M	6.3	4.6	6.2	3.7	4.6	6.6	5.4	4.1	2.3	3	4.2	3.9	3.2	3.1	2.3	6.6	3.4	22	
5	5	2.1	2.3	3.2	3.7	4.9	5.3	5	5.4	5.7	5	6.6	6.9	6	6.5	7.4	5.1	3.9	2.6	2.8	3.9	5.8	9.6	7.8	4	9.6	5.1	24	
6	6	4.7	6.7	5.4	3.5	4.1	5	5	4.4	4.7	4.5	5.9	6.6	6.8	7.2	6.3	6.1	7.2	6.1	7.3	7.3	6	5.1	6.2	7.2	7.3	5.8	24	
7	7	8.1	4.9	6.5	4.2	5.1	5.2	4.8	5.2	6	7.6	11	11.6	11.3	9.3	8.3	9.2	9.3	7.4	7.5	8.2	8.5	7.4	7.8	8.1	11.6	7.6	24	
8	8	8.7	8.5	7.4	6.7	7.1	3.6	8.1	8	9.3	9.9	11.6	9.9	6.9	3.4	8.9	9	4.4	5.6	8.1	7.9	6.9	8.8	6.2	7	11.6	7.6	24	
9	9	6.7	6.5	5.7	5.4	6.9	7.5	6.2	6	6.7	4.9	7.3	5.5	2	3.2	4.2	3.9	3	3.1	2.8	2	1.5	1.2	2.2	1.5	7.5	4.4	24	
10	10	1.9	1.6	1.9	2.8	3.2	4	5.4	5.6	6.6	6.2	5.9	5.9	4.9	5.4	6	4.9	3.3	1.6	0.7	0.3	0.2	0.5	0.9	0.5	6.6	3.3	24	
11	11	0.7	0.1	0.5	0.9	1.5	1.3	2.5	1.7	1	0.3	1.5	0.6	3.8	4.1	4.2	1.9	2.4	1.9	1.7	0.2	2.4	2.9	1	0.7	4.2	1.7	24	
12	12	5	5.3	3.3	5.7	4.3	5.4	4.3	4.5	5.3	7.6	8	6.7	6.7	6.3	6	7	7.4	8.4	7.4	6.3	6.3	5.7	6	8.5	8.5	6.1	24	
13	13	8.7	7.2	4	2.8	2.6	0.7	1.3	0.6	1.7	5	6.4	6.7	5	4.6	6.8	5.8	4.9	4	3.8	7.4	7.2	6.3	5.6	5.1	8.7	4.8	24	
14	14	5.1	5	5.3	6.6	10	9.6	8.7	3.8	5.1	10.5	12.4	10.9	10.9	11	13.5	14.7	12.3	10.8	10.7	10.9	9.5	6.8	6	6	14.7	9.0	24	
15	15	6.3	3.9	7.1	3.8	0.9	0.8	0.3	0.9	1.1	2.6	4	3.5	7	7.1	7.1	6.1	4.8	2.1	0.7	0.5	0.3	0.4	0.4	0.4	7.1	3.0	24	
16	16	0.1	0.3	0	0.1	0.2	0.2	1.1	0.4	0.5	0.6	1.7	3.1	2.2	4.2	4.4	5.1	4.8	1.6	0.4	0.5	0.6	0	0	0	5.1	1.3	24	
17	17	0.9	0	0.4	0.2	0.2	0.4	0.5	0	0.7	4.4	4.6	7.4	5.8	7.4	8.3	9.3	7.4	6.3	6.8	6.1	5.4	6.3	5.6	3	9.3	4.1	24	
18	18	3	2.8	1.2	3.1	4	0.6	0.4	1.1	0.7	1.9	4.7	5.1	5	7	7.2	6.3	3	1.1	0.6	3.3	1.1	0.4	1.9	0.6	7.2	2.8	24	
19	19	1	3.5	1.3	0.5	0.6	0.4	3.4	3.9	7.4	7.4	10.3	11.2	8	8	5.7	6	4.9	1.7	1.3	4.7	5.5	6.1	5.3	3.9	11.2	4.7	24	
20	20	2.1	3.2	2.8	1.2	1.7	1.2	2.2	0.7	0.3	2.1	5.6	6.4	7	7.8	8.1	7.5	7.1	3.4	2.2	1	1.4	2.8	2.4	0.8	8.1	3.4	24	
21	21	2.1	4	4.4	6	9.1	6.8	5	5.8	4.4	6.3	6.2	7.7	6.1	6.5	5.7	4.9	6.9	4.3	1.9	1	1.2	0.6	0.7	8.6	9.1	4.8	24	
22	22	9.3	9.7	7.6	7.4	7.5	6.7	6	5.8	3.8	6.6	6.4	6.8	5.1	4.2	3.7	6.3	5	2	0.5	0.2	0.2	1.1	0.6	0.2	9.7	4.7	24	
23	23	0.2	0.7	0.3	0.1	0.2	0.4	0	0.2	0.1	0.7	1	3.6	6.6	5.6	5.3	5.5	7.3	5.9	3.5	3.8	4.9	5.3	5.4	4.2	7.3	3.0	24	
24	24	3.9	6.2	3.8	4.1	3.9	3.8	3.6	2.5	3.7	4.2	3.8	5.9	6.1	6.2	4.6	4.7	3.6	4.3	3	0.6	0.3	0.3	0.5	0.5	6.2	3.5	24	
25	25	0.2	1.2	0.5	0.8	0.7	1	0.4	2.1	5.7	8.1	5.3	5.2	3.8	3.9	3.7	2.8	3.5	2.7	1.1	2.3	2.7	3.8	1.3	1	8.1	2.7	24	
26	26	2.2	2.1	1	0.6	0.3	1.2	0.9	0.4	1.2	2	1.9	3.4	3.6	3.5	4.4	4.6	3.6	2.4	1.7	2.5	5.8	4	3.6	4.9	5.8	2.6	24	
27	27	6.8	5.7	6.6	4.7	5	5.2	5.3	7.3	7.3	7.7	7.9	9.8	11.6	9.5	10.1	10.4	11.7	10.7	9.5	10.1	7.8	6.4	6.1	6.4	11.7	7.9	24	
28	28	6	4.7	6.1	4.9	3	2.8	5.6	3.6	5.9	3.9	3.1	5.3	5.7	6.4	7	7.8	6.7	5.6	3.9	3.6	0.5	1.2	0.7	0.7	7.8	4.4	24	
HOURLY MAX		9.3	9.7	7.6	7.8	10.0	9.6	8.7	8.0	9.3	10.5	12.4	11.6	11.6	11.0	13.5	14.7	12.3	10.8	10.7	10.9	9.5	9.6	7.8	8.6				
HOURLY AVG		4.0	4.0	3.5	3.3	3.6	3.3	3.6	3.3	3.9	5.1	5.8	6.3	5.8	6.0	6.4	6.2	5.5	4.2	3.7	3.9	3.8	3.8	3.5	3.3				

STATUS FLAG CODES

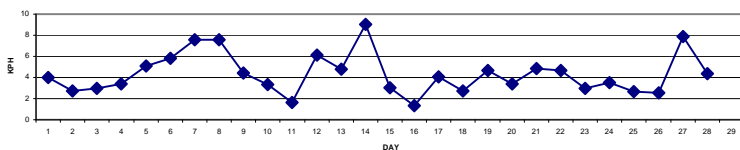
S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MISSING DATA
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

LAST CALIBRATION: November 5, 2008

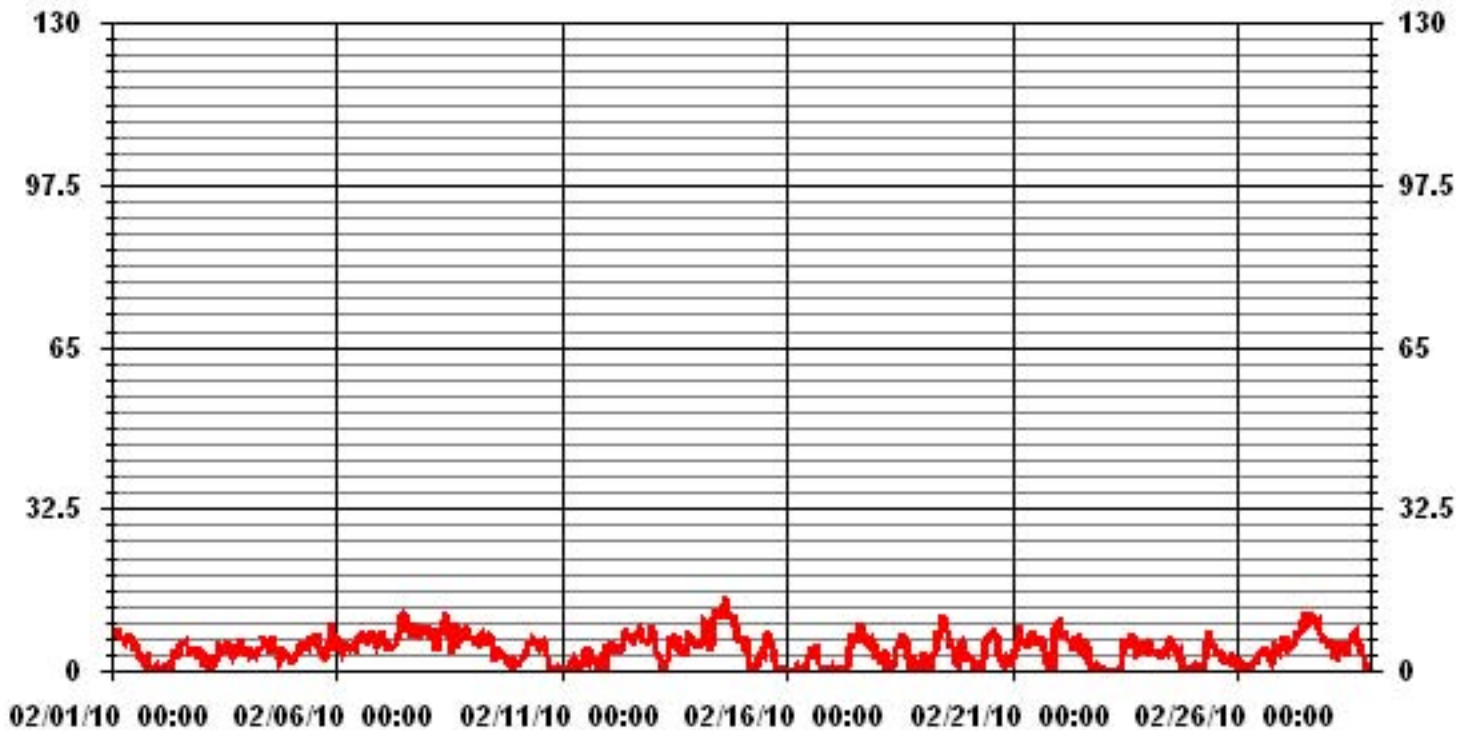
MONTHLY SUMMARY

MAXIMUM 1-HR AVERAGE:	14.7	KPH	@ HOUR(S)	15	ON DAY(S)	14
MAXIMUM 24-HR AVERAGE:	9.0	KPH			ON DAY(S)	14
CALMS (≤ 0 KPH)	5.46	%	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	99.7	%	
STANDARD DEVIATION:	2.85		MONTHLY AVERAGE:	4.41	KPH	

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



— LICA WSP KPH

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

VECTOR WIND SPEED MAX instantaneous maximum in km/hr

MST		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 START	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		11.5	11.9	12.3	12.1	10.9	9.3	9.8	8.9	10.3	10.3	9.9	9.6	6.5	9.7	7.7	5.4	5.3	5.1	4.7	5.1	2.9	2.4	2.9	1.9	12.3	
2		2.5	1.1	1.3	2.9	4.9	2.4	3.6	3.3	3.6	6.4	6.1	5.1	7.6	8.1	8.4	9.9	8.8	6.6	5.5	6.8	7.2	5.5	5.7	5.3	9.9	
3		7.4	5.6	3.2	2.2	4.1	5.1	6.5	4.7	5.3	9	6.8	10.7	6.9	7.1	8.6	7.7	6.9	6.5	6.9	7.1	7.8	8.2	7.2	6.7	10.7	
4		5.5	7.6	6	8.1	7.7	8.6	8.7	M	M	9.1	9.5	10	9.5	9.7	10.3	8.7	7.6	5.5	6.3	6.4	6.4	6.8	6.1	6.7	10.3	
5		5.6	5.1	7.1	8	8.8	9.6	9.7	9.5	9.8	7.9	9.5	11.4	9.8	11.2	10.9	8	6.5	5	6.7	7.1	13	14.6	12.1	6.3	14.6	
6		8	9.4	9.4	7.3	6.2	7.3	8.1	8.2	7.1	7.5	9.5	11	10.1	10.8	11.2	9.6	12.1	10.1	12	13.8	10.1	8.9	10.9	13.1	13.8	
7		13	7.9	12.9	7.4	7.5	9.6	8.4	9.2	10.1	13.2	14.5	17.6	16.9	16.8	13.7	15	15.1	10.9	10.9	10.3	12.2	10.2	9.3	11	17.6	
8		11.3	11.1	10	8.4	9.1	8.7	12.1	13	13.6	13.8	15.2	13.6	11.3	8.2	14.6	14.9	10	11.5	9.9	11	9.4	11.6	10.6	10	15.2	
9		8.7	8.5	8.3	7.5	9.9	10	9.1	8	10.1	10.4	10.9	8.5	9.3	5.9	7.4	10.2	7.8	6.4	5.9	4.5	4.4	2.8	4	4	10.9	
10		4.1	3.5	3.9	5.7	5.5	7.8	8.9	9.8	9.3	9.8	8.1	9	6.9	8.9	10.4	8.3	8.1	4.3	3.2	1.6	1.6	2.3	3.9	3.2	10.4	
11		3.8	2.6	2.2	2.9	3.9	3.8	4.1	4.2	3.1	1.7	3.7	6.5	8.5	9.2	6.5	5.8	4.3	3.7	4.9	2.5	5.3	5	2.8	5.9	9.2	
12		12.9	10.8	6.2	10.1	6.5	11.3	7.3	7.9	10.5	13.2	13.5	12	11.3	11.3	10.7	10	10.7	15.9	13.2	10.9	9.9	10.4	12.2	13.7	15.9	
13		13.5	12.3	9.6	5.2	5.4	2.8	2.9	3.5	3.2	9.1	9.9	10.5	9.2	9.3	11	14	9.2	7.1	5.5	10.7	10.6	9.2	7.8	6.5	14	
14		7.4	7.1	7.8	9.4	14.8	17.1	14	7.1	8.4	17.1	17.4	18	15.9	15.8	18.9	18.7	18	17	14.5	13.7	13	10.2	9.4	10.4	18.9	
15		9.1	7.6	11	9.2	2.7	4.5	8.9	3.1	3.8	6.2	7.5	8.7	10.4	10.7	11.3	10.4	8.2	3.6	2.4	1.7	1.7	1.7	1.9	1.7	11.3	
16		0.8	1.2	3.1	1.6	1.4	3	4.9	1.7	2	2.8	6.4	7.7	5.4	6.6	6.6	7.7	8.9	3.7	1.9	2.2	1.4	1.7	1.2	1.3	8.9	
17		2.1	1.4	1.6	1.6	1.5	3	2.5	1.5	5.7	6.5	8.9	11.9	9.9	12	12.7	12.9	12.2	9.7	9.7	8.2	7.9	9.1	8.4	5.6	12.9	
18		4.7	5.3	5	7	7.5	2.5	2.7	4.1	3.2	4.9	8.3	8.5	9.4	11.1	11.4	10.9	6.1	2.8	2.7	6	5.6	1.3	4	2.7	11.4	
19		3.7	5.4	4.1	4.2	4.2	2.5	6.7	5.4	12.6	14	15.5	16.7	13.4	12.3	9.4	9.5	8.5	6.4	4	7.5	9.1	10.3	8.6	7.1	16.7	
20		5.1	7.5	6.8	4.9	4.5	5	6	3	5.7	8.3	9.5	12.3	13.4	12.7	13.6	12.3	12	8.4	3.9	3.9	4.5	5	5.2	3.4	13.6	
21		4	7.3	6.6	10.9	14.3	11.3	7.9	12.2	8	11	10.3	13.1	11.1	9.8	9.9	9.4	10.1	6.2	4.2	3.6	4.9	2.5	9.8	14	14.3	
22		13.8	13.1	12	10.8	12.3	10.8	10.9	8.9	7.1	9.4	9.9	10.8	12.7	12.3	10.3	8.8	9.7	5.6	4.1	3.1	1.6	2.6	2.6	1.1	13.8	
23		2.4	2.3	3.3	2.9	2.1	1.8	5.5	1.9	3.7	2.1	7.5	9.8	11.9	11.1	12	10.6	12.8	11.6	8.9	8.5	9.8	10.8	11.3	8.5	12.8	
24		11	12.7	8.8	8.3	8.2	7.8	8.9	5.4	8.1	8.5	9.8	8.9	9.1	9.2	7.6	7.7	6.9	7.2	5	2.4	2.7	1.6	2.8	1.9	12.7	
25		3.6	3.6	2.3	3.4	4	3.5	3.7	4.3	11.7	13.5	13.2	10.5	7.3	8.9	6.1	4.8	8.8	8.4	3.3	4.7	5.2	6.5	4.4	3.1	13.5	
26		8.3	7.3	4.7	3.9	2.2	3.6	8	3.8	4.1	4.8	4.6	6.4	6.3	7	6.5	6.8	6.3	4.4	3	6.8	8.9	7.7	6.2	7.4	8.9	
27		10.4	9.1	11.2	6.7	8.8	6.8	7.9	9.9	11	11.6	15.7	15.9	19	16.5	13.3	15.7	16.3	16.9	13.9	14.8	12.9	10.7	9.7	10.4	19	
28		9.5	8.2	10	7.2	5.9	5.1	10.6	6.3	9.3	8.3	8.8	8.7	9.2	9.8	10.9	12	11.1	10.8	5.6	5.6	2.1	2.8	4.1	3.1	12	
PEAK		13.8	13.1	12.9	12.1	14.8	17.1	14.0	13.0	13.6	17.1	17.4	18.0	19.0	16.8	18.9	18.7	18.0	17.0	14.5	14.8	13.0	14.6	12.2	14.0		

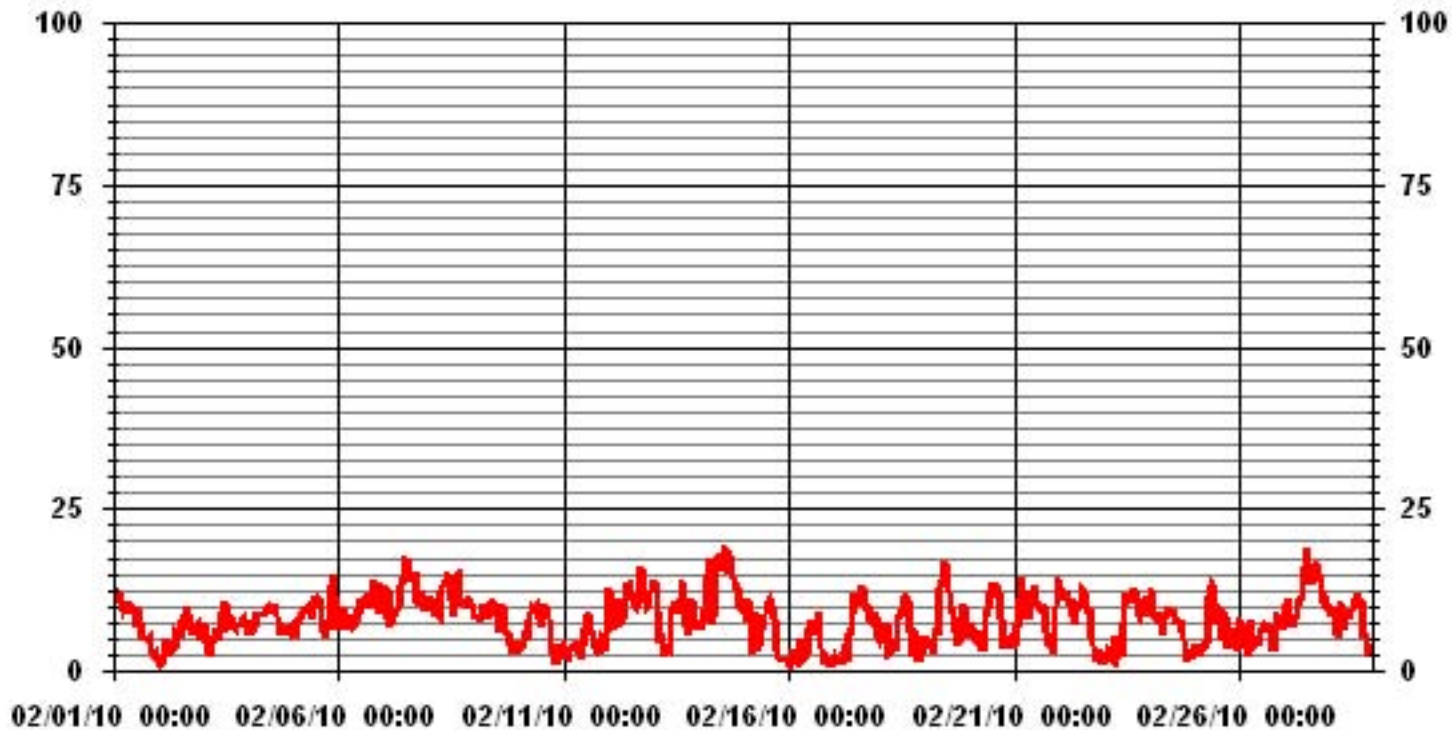
STATUS FLAG CODES

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

MAXIMUM INSTANTANEOUS READING	19	KPH	@ HOUR(S)	12
			ON DAY(S)	27

01 Hour Averages



— LICA WSMAX KPH

LICA
WSP / WD Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

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

Wind Parameter : WD
Instrument Height : 10 Meters

Limit	Direction																Freq
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
< 6.0	2.08	1.34	1.79	3.58	6.71	8.50	8.50	2.83	2.68	5.67	9.40	5.22	2.68	.59	.29	.89	62.83
< 12.0	1.19	.44	.89	.00	4.02	4.77	12.68	.00	.00	.29	3.43	2.38	.29	.00	.14	.29	30.89
< 20.0	.00	.00	.00	.00	.00	.00	.59	.00	.00	.00	.00	.00	.00	.00	.00	.00	.59
< 29.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 39.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 39.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	3.28	1.79	2.68	3.58	10.74	13.28	21.79	2.83	2.68	5.97	12.83	7.61	2.98	.59	.44	1.19	

Calm : 5.67 %

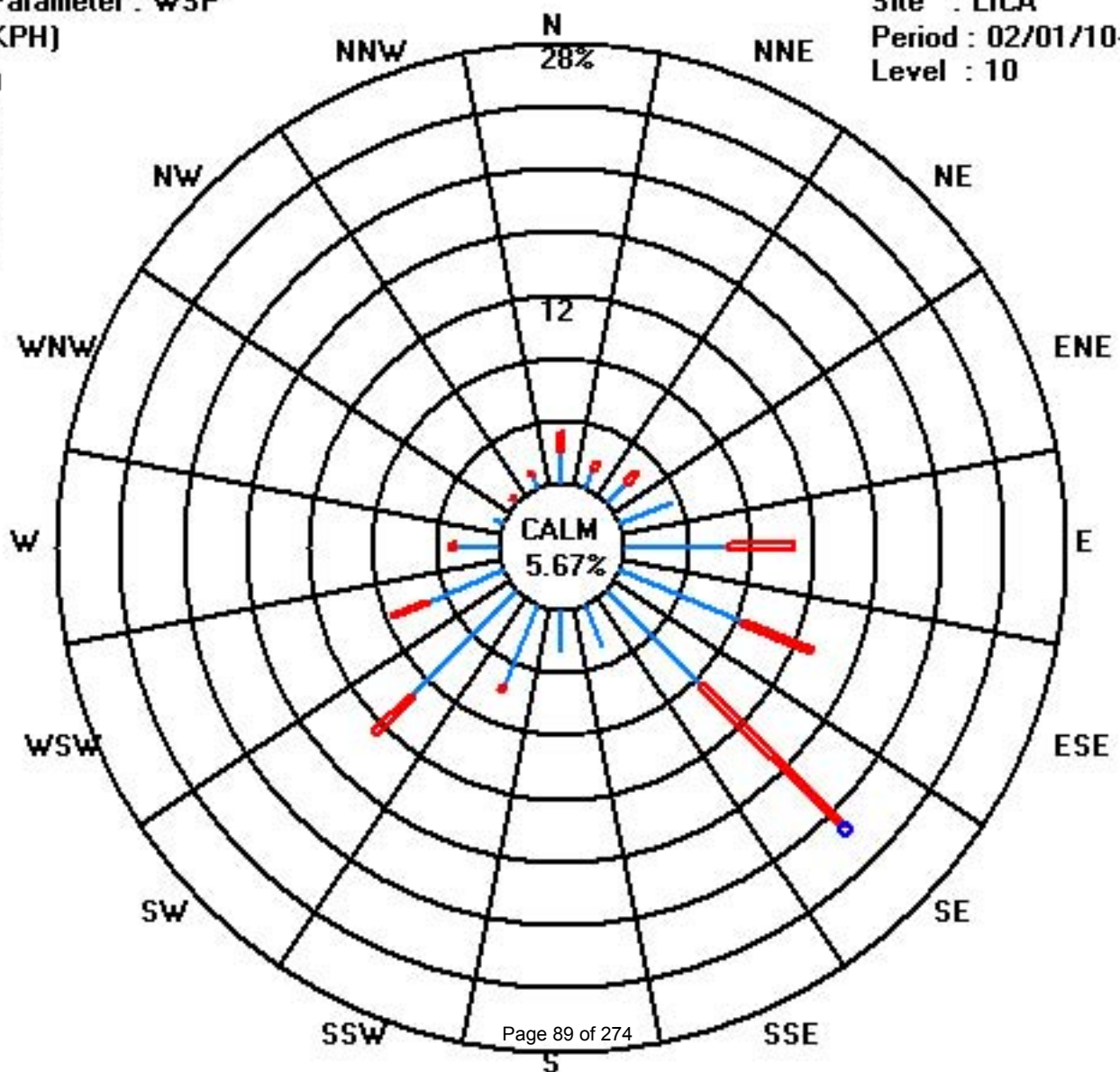
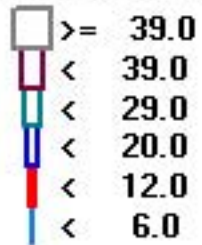
Total # Operational Hours : 670

Distribution By Samples

Limit	Direction																Freq
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
< 6.0	14	9	12	24	45	57	57	19	18	38	63	35	18	4	2	6	421
< 12.0	8	3	6		27	32	85			2	23	16	2		1	2	207
< 20.0							4										4
< 29.0																	
< 39.0																	
>= 39.0																	
Totals	22	12	18	24	72	89	146	19	18	40	86	51	20	4	3	8	

Calm : 5.67 %

Total # Operational Hours : 670



Vector Wind Direction

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

VECTOR WIND DIRECTION (WD) hourly averages in degrees

MST

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	RDGS.	
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.	QUADRANT		
DAY																												
1	119	122	122	124	123	127	127	124	127	127	130	127	96	125	121	87	72	95	351	9	6	248	76	275	118	ESE	24	
2	246	164	199	236	242	201	198	225	229	248	254	242	230	232	227	224	229	232	239	254	255	264	254	333	241	WSW	24	
3	332	293	219	245	114	141	132	135	133	131	137	126	110	126	129	120	121	125	125	121	124	126	129	123	127	SE	24	
4	125	133	142	174	158	164	151	M	M	130	150	137	174	154	133	138	144	172	210	229	230	213	220	208	159	SSE	22	
5	184	138	149	136	130	124	136	127	129	138	131	131	128	129	131	114	105	86	49	76	115	133	130	129	125	SE	24	
6	123	131	123	103	86	89	93	96	96	109	106	96	94	88	96	94	84	104	113	120	112	105	115	120	104	E	24	
7	123	118	127	110	118	117	117	120	118	124	128	135	131	137	139	135	134	137	130	131	128	133	128	131	128	SE	24	
8	128	127	126	127	126	120	129	126	128	130	134	136	128	122	135	139	163	134	135	135	133	132	134	134	134	131	SE	24
9	131	132	133	132	131	133	133	131	134	139	133	131	133	284	276	141	191	210	177	191	193	176	141	194	144	SE	24	
10	158	198	219	212	220	219	229	234	242	244	229	231	235	232	222	224	212	202	113	98	131	223	234	212	225	SW	24	
11	237	63	173	276	274	276	251	6	1	316	122	146	266	279	263	259	330	22	41	349	57	40	350	109	299	WNW	24	
12	102	98	131	128	105	104	99	108	101	117	123	97	85	91	106	80	81	86	92	90	114	95	107	126	102	E	24	
13	129	123	96	96	97	89	109	72	56	119	125	121	112	103	142	155	144	146	138	127	132	128	128	122	124	ESE	24	
14	124	122	119	121	124	125	124	114	88	122	125	128	132	130	133	134	132	129	128	130	129	122	121	123	126	SE	24	
15	125	127	130	131	114	104	194	153	147	206	225	213	256	246	239	227	238	227	125	149	219	150	200	253	199	SSW	24	
16	244	104	257	180	91	233	263	95	70	50	286	277	258	268	276	231	224	220	232	168	75	57	97	3	251	WSW	24	
17	58	321	75	166	300	97	226	346	294	256	231	228	221	228	226	226	225	217	233	228	229	242	243	232	230	SW	24	
18	228	233	225	249	251	88	78	213	98	262	235	235	224	228	220	219	222	267	269	331	4	102	240	228	234	SW	24	
19	240	245	253	230	187	64	354	325	3	6	45	45	26	40	48	49	59	58	23	57	60	53	57	72	37	NE	24	
20	57	55	21	15	10	4	1	18	222	204	246	242	249	246	245	246	239	228	200	163	181	213	216	250	245	WSW	24	
21	196	229	228	220	222	225	218	216	224	220	233	250	252	259	258	254	268	249	261	270	347	190	324	354	242	WSW	24	
22	356	354	19	25	2	5	7	356	14	337	319	337	344	4	41	53	79	81	81	198	182	239	109	116	6	N	24	
23	171	68	214	134	68	242	188	237	118	140	167	143	145	150	207	198	209	202	183	195	207	206	200	180	185	S	24	
24	201	207	194	196	169	193	207	176	209	213	228	242	227	224	233	255	215	222	225	203	124	97	86	0	214	SSW	24	
25	262	222	60	66	87	193	92	102	124	128	114	121	91	32	56	56	211	215	130	118	112	131	120	149	114	ESE	24	
26	119	122	109	86	177	86	95	101	105	86	117	71	86	19	46	59	58	31	51	112	126	114	101	90	84	E	24	
27	94	83	89	99	89	87	86	92	97	95	105	116	118	108	97	94	96	100	96	105	102	105	103	90	99	E	24	
28	95	97	91	93	96	109	130	124	129	155	224	248	253	249	249	231	230	229	224	225	188	222	187	140	185	S	24	
HOURLY AVG	356	354	257	276	300	276	354	356	294	337	319	337	344	284	276	259	330	267	351	349	347	264	350	354				

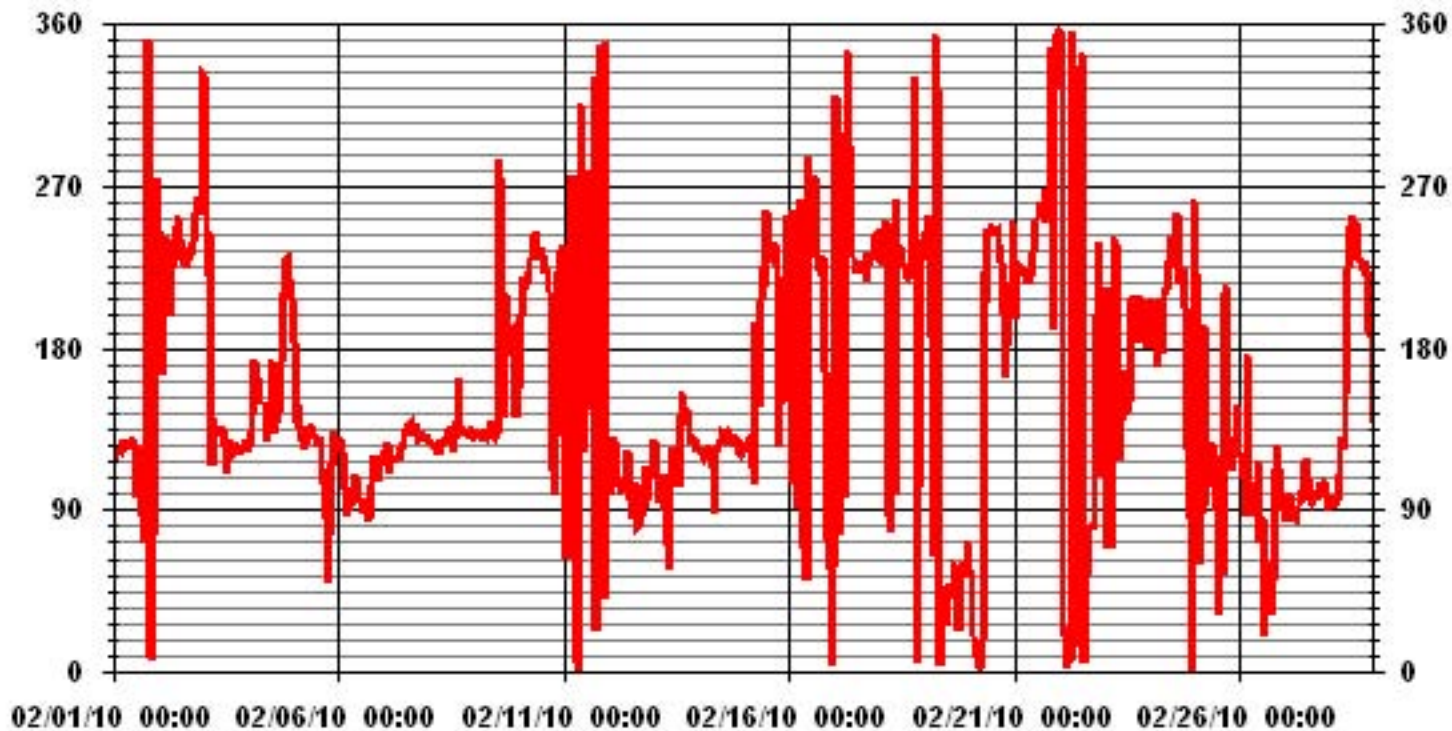
STATUS FLAG CODES

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:	November 5, 2008
DECLINATION :	19 DEGREES FROM MAGNETIC NORTH

MONTHLY CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	670	HRS
STANDARD DEVIATION	74.46		AMD OPERATION UPTIME	99.7	%
			MONTHLY AVERAGE	138	DEG

01 Hour Averages



— LICA WDR DEG

Standard Deviation Wind Direction

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - COLD LAKE

FEBRUARY 2010

STANDARD DEVIATION WIND DIRECTION (STDWDIR) hourly averages in degrees

MST

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	16	17	16	15	14	14	16	12	14	15	17	25	19	24	24	33	48	21	19	38	55	35	55	
2	24	67	62	55	37	69	35	26	33	23	21	31	18	21	19	18	18	18	15	18	17	20	14	20	
3	15	36	39	38	46	21	37	32	20	23	26	28	26	18	12	19	20	14	13	17	18	11	12	14	
4	12	11	25	38	39	34	32	M	M	13	32	23	37	38	17	22	26	39	28	18	18	30	29	40	
5	39	25	33	27	17	17	19	18	18	21	13	17	18	22	16	21	17	21	17	18	19	14	13	14	
6	15	13	19	22	19	17	19	20	20	22	21	21	20	20	21	22	18	18	20	19	21	22	21	18	
7	16	19	15	21	18	19	20	18	18	17	15	17	14	21	24	18	17	16	11	12	11	12	11	11	
8	10	12	13	11	11	26	12	13	14	13	11	13	20	31	19	22	35	18	12	13	11	11	13	13	
9	13	12	13	11	11	13	13	14	40	15	22	60	27	24	53	27	24	35	44	50	37	33	48		
10	31	35	21	20	19	18	19	19	18	20	21	23	22	20	20	21	30	40	59	51	55	53	48		
11	66	84	55	64	31	38	23	29	31	68	42	45	42	23	19	48	20	19	28	59	15	23	34	57	
12	24	21	18	14	21	20	22	21	23	19	18	21	22	23	23	19	18	20	21	20	20	21	21	17	
13	15	17	21	23	23	62	24	37	16	18	18	21	26	27	26	32	29	27	20	11	11	13	12	11	
14	11	15	16	14	12	14	14	22	20	19	14	16	15	14	13	14	14	13	11	12	12	15	16	17	
15	12	14	12	38	57	67	63	41	51	36	31	40	22	20	20	21	16	25	29	43	54	30	43	39	
16	69	66	56	47	49	71	55	55	61	41	44	39	37	20	13	19	18	28	58	45	34	41	58	51	
17	30	56	57	50	32	59	50	74	51	18	21	18	22	20	19	17	16	14	13	16	15	11	10	13	
18	19	27	38	15	45	43	59	32	54	27	21	21	22	19	19	19	25	31	29	28	26	42	14	44	
19	46	7	42	63	45	40	18	12	18	19	18	18	24	19	21	19	20	25	28	18	18	18	18	20	
20	25	23	30	58	43	56	27	63	60	41	24	25	23	21	22	21	20	17	19	35	37	25	24	32	
21	25	20	17	17	19	22	16	18	19	21	22	21	27	22	28	21	16	13	22	53	41	42	34	19	
22	18	18	21	19	21	20	20	18	24	19	23	23	33	49	51	16	17	52	61	33	69	43	42	57	
23	66	43	61	51	69	66	37	52	61	70	38	34	27	35	34	36	26	33	39	34	26	30	33	34	
24	37	29	35	35	33	32	30	35	32	29	41	20	25	21	25	22	26	18	13	39	29	50	37	54	
25	50	25	47	50	47	29	51	39	17	14	24	22	25	19	19	23	42	24	47	23	22	22	53	37	
26	38	54	65	60	47	31	53	56	67	26	49	29	30	25	19	16	17	15	19	26	17	22	24	18	
27	16	17	16	21	17	14	18	17	21	22	22	21	19	20	20	20	20	21	20	20	21	22	20	18	
28	19	20	18	20	25	21	21	15	13	28	50	34	25	25	19	20	19	14	12	14	33	31	36	40	

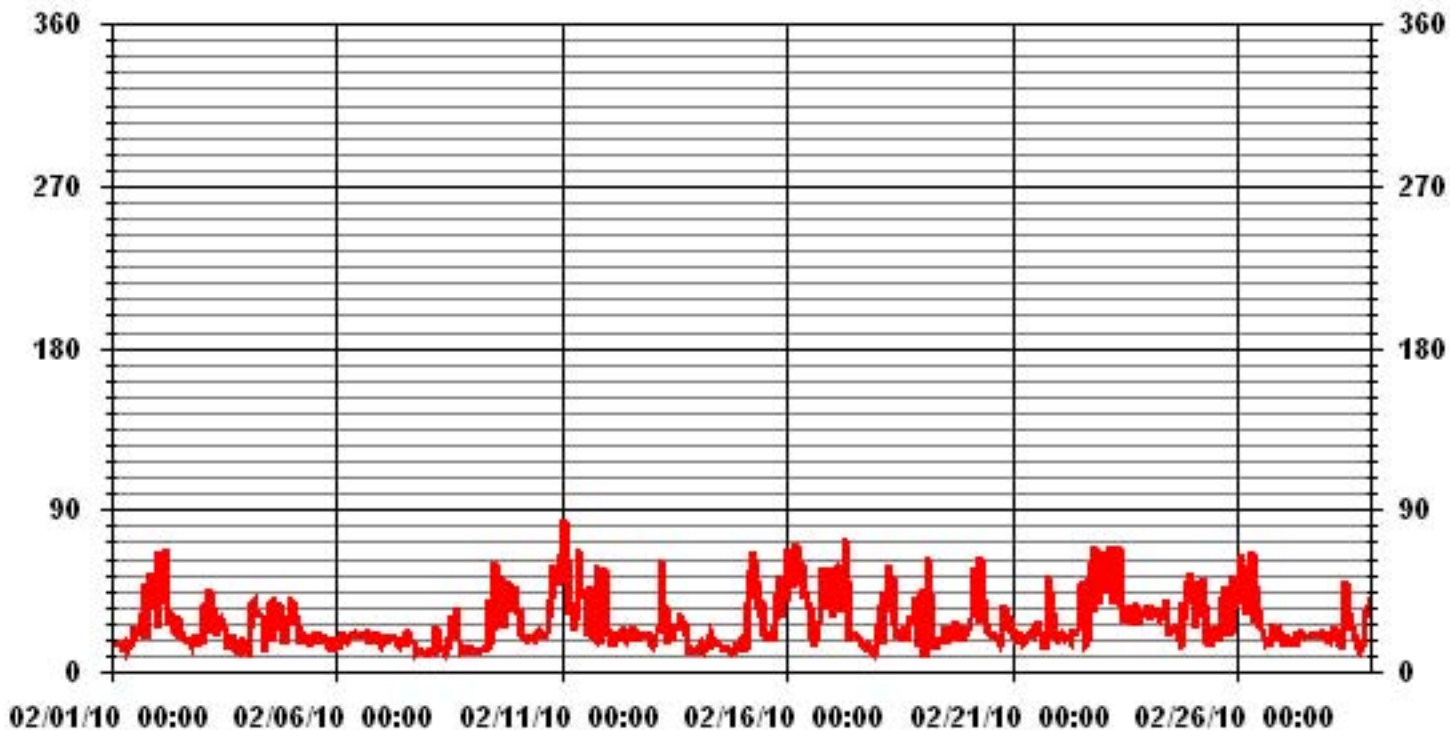
STATUS FLAG CODES

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: November 5, 2008

CALIBRATION TIME: 0 HRS OPERATIONAL TIME: 670 HRS

01 Hour Averages



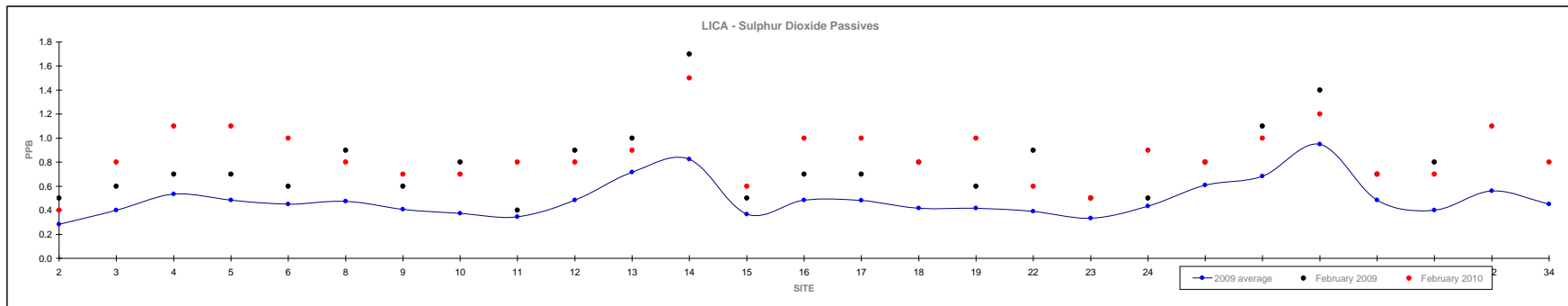
— LICA STDWDIR DEG

Non-Continuous Monitoring

Passive Summary Results for February 2010

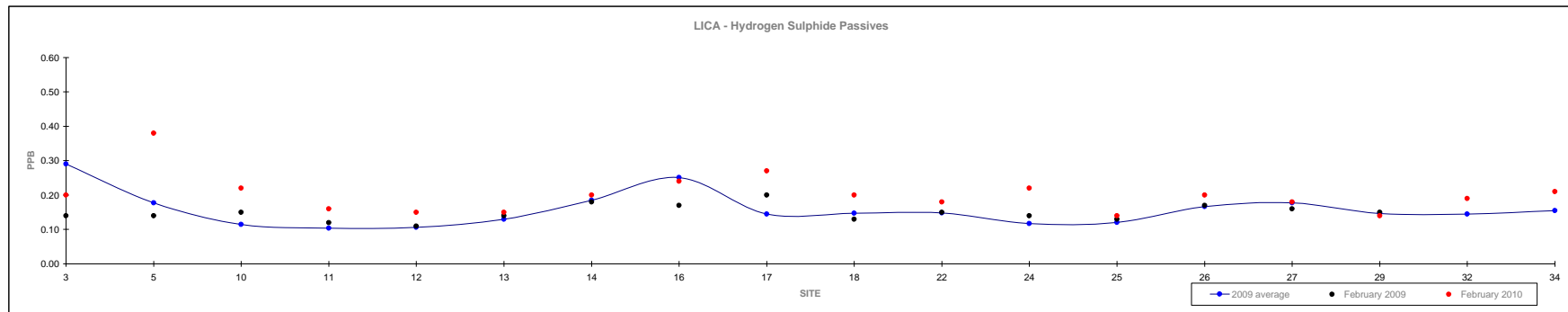
Lakeland Industry & Community Association

	Sulphur Dioxide ppb																												February 2010	
	2	3	4	5	6	8	9	10	11	12	13	14	15	16	17	18	19	22	23	24	25	26	27	28	29	32	34	Reading	Site	
Mean	0.3	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.5	0.7	0.8	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.6	0.7	1.0	0.5	0.4	0.6	0.5	0.9	-	
Minimum	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.4	0.4	#2	
Maximum	0.9	0.9	1.3	1.1	1.2	0.9	1.0	0.9	0.8	1.1	1.2	2.2	0.9	1.1	1.0	1.3	0.8	0.9	0.8	1.1	1.4	1.4	2.6	0.9	0.8	1.2	0.5	1.5	#14	



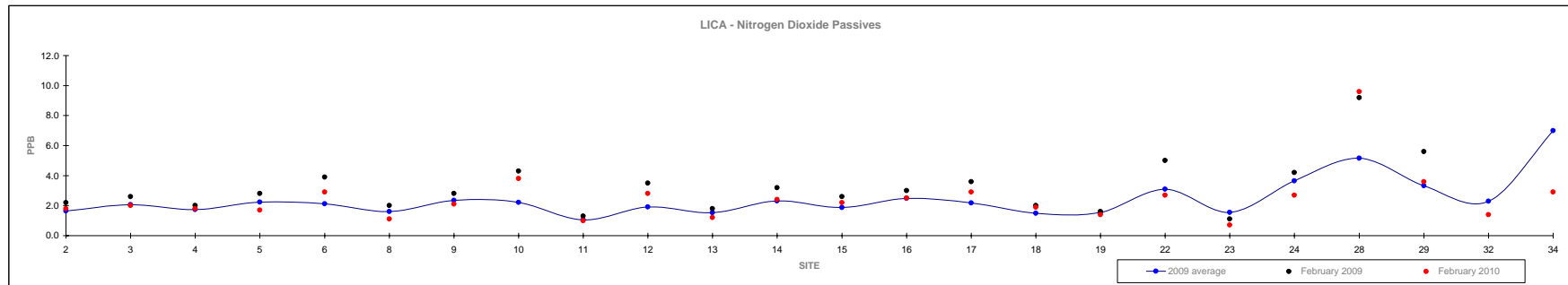
Passive Summary Results for February 2010 Lakeland Industry & Community Association

	Hydrogen Sulphide ppb																February 2010			
	3	5	10	11	12	13	14	16	17	18	22	24	25	26	27	29	32	34	Reading	Site
Mean	0.29	0.18	0.12	0.10	0.11	0.13	0.19	0.25	0.15	0.15	0.15	0.12	0.12	0.17	0.18	0.15	0.15	0.16	0.20	-
Minimum	0.05	0.09	0.03	0.03	0.05	0.03	0.11	0.07	0.08	0.05	0.04	0.06	0.03	0.06	0.07	0.04	0.10	0.10	0.14	#25
Maximum	0.80	0.29	0.20	0.16	0.21	0.20	0.30	0.54	0.26	0.29	0.24	0.24	0.18	0.28	0.35	0.28	0.19	0.21	0.38	#5



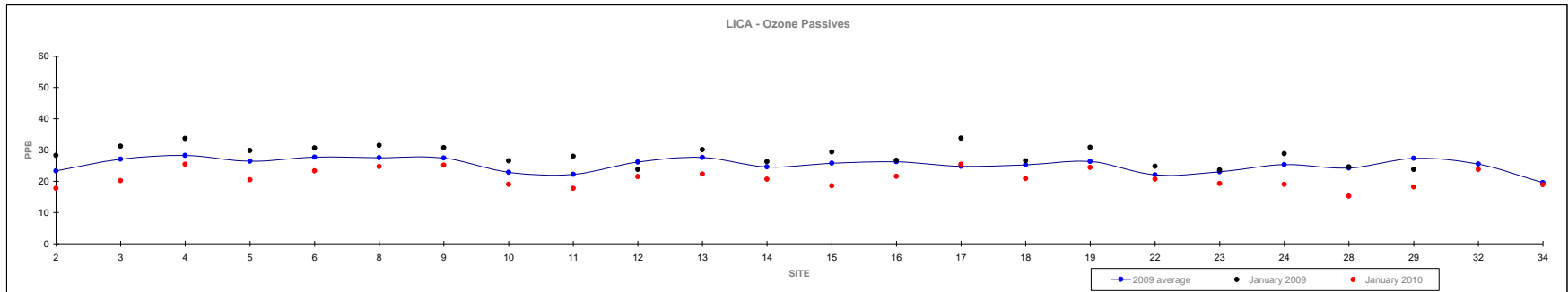
Passive Summary Results for February 2010 Lakeland Industry & Community Association

	Nitrogen Dioxide ppb																												February 2010	
	2	3	4	5	6	8	9	10	11	12	13	14	15	16	17	18	19	22	23	24	28	29	32	34	Reading	Site				
Mean	1.6	2.1	1.7	2.2	2.1	1.6	2.4	2.2	1.0	1.9	1.5	2.3	1.9	2.5	2.2	1.5	1.5	3.1	1.5	3.6	5.2	3.3	2.3	7.0	2.5	-				
Minimum	0.9	0.8	0.8	1.0	0.8	0.9	1.5	0.4	0.5	0.5	0.9	0.9	1.0	1.7	0.7	0.7	0.9	0.2	0.4	2.7	1.0	0.5	1.2	5.6	0.7	#23				
Maximum	2.9	4.6	3.7	5.0	4.4	3.0	4.0	5.0	2.0	6.4	2.9	6.1	3.6	3.9	4.1	3.5	2.4	7.2	2.6	5.6	10.6	7.0	3.0	8.4	9.6	#28				



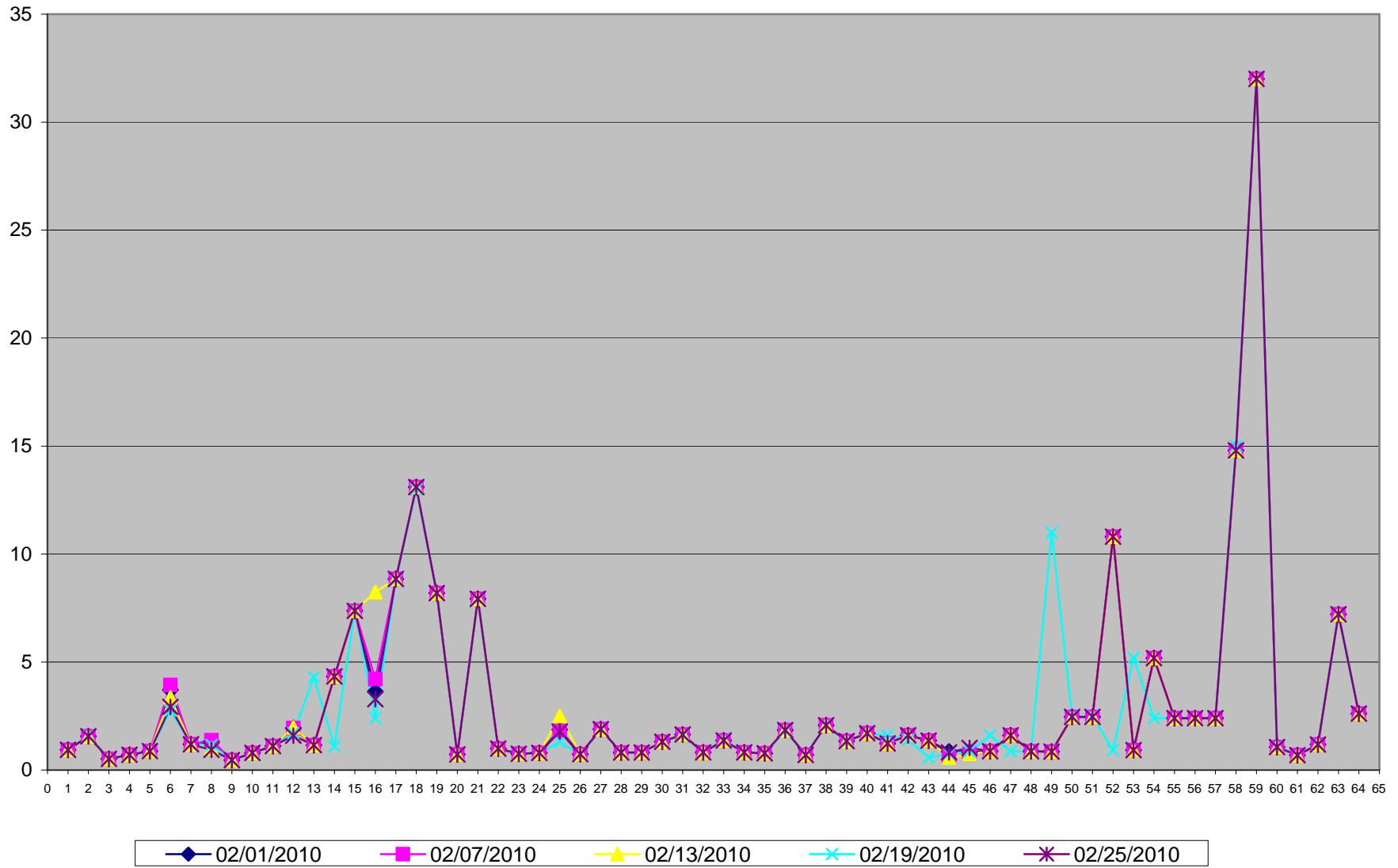
Passive Summary Results for February 2010 Lakeland Industry & Community Association

	Ozone ppb																												February 2010	
	2	3	4	5	6	8	9	10	11	12	13	14	15	16	17	18	19	22	23	24	28	29	32	34	Reading	Site				
Mean	23.3	27.1	28.3	26.5	27.7	27.5	27.5	22.8	22.2	26.2	27.6	24.6	25.8	26.2	24.8	25.2	26.3	22.0	23.0	25.3	24.2	27.3	25.5	19.6	34.4	-				
Minimum	13.3	17.9	17.3	16.0	17.7	15.4	14.9	12.0	14.6	17.3	15.5	14.8	15.5	15.1	13.8	17.7	14.7	13.6	15.3	12.5	14.8	17.8	24.7	18.5	27.1	#28				
Maximum	32.3	38.6	47.5	37.9	43.6	38.6	42.6	38.2	30.2	46.0	36.5	35.4	42.3	36.7	46.5	36.2	41.7	32.6	32.6	40.5	37.7	40.0	26.3	20.6	41.0	#4				



Volatile Organics

Volatile Organics in ug/m3 Site: LICA - Cold Lake South



1	2,2,4-Trimethylpentane	33	1,1,2,2-Tetrachloroethane
2	Carbon Disulfide	34	cis-1,3-Dichloropropene
3	Propene	35	trans-1,3-Dichloropropene
4	Vinyl Acetate	36	1,2-Dichloropropane
5	Vinyl Bromide	37	Bromomethane
6	Dichlorodifluoromethane (FREON 12)	38	Bromoform
7	1,2-Dichlorotetrafluoroethane	39	Bromodichloromethane
8	Chloromethane	40	Dibromochloromethane
9	Vinyl Chloride	41	Heptane
10	Chloroethane	42	Trichloroethylene
11	1,3-Butadiene	43	Tetrachloroethylene
12	Trichlorofluoromethane (FREON 11)	44	Benzene
13	Trichlorotrifluoroethane	45	Toluene
14	Ethanol	46	Ethylbenzene
15	2-Propanol	47	p+m-Xylene
16	2-Propanone	48	o-Xylene
17	Methyl Ethyl Ketone (2-Butanone)	49	Styrene
18	Methyl Isobutyl Ketone	50	1,3,5-Trimethylbenzene
19	Methyl Butyl Ketone (2-Hexanone)	51	1,2,4-Trimethylbenzene
20	Methyl t-butyl ether (MTBE)	52	4-ethyltoluene
21	Ethyl Acetate	53	Chlorobenzene
22	1,1-Dichloroethylene	54	Benzyl chloride
23	cis-1,2-Dichloroethylene	55	1,3-Dichlorobenzene
24	trans-1,2-Dichloroethylene	56	1,4-Dichlorobenzene
25	Methylene Chloride (Dichloromethane)	57	1,2-Dichlorobenzene
26	Chloroform	58	1,2,4-Trichlorobenzene
27	Carbon Tetrachloride	59	Hexachlorobutadiene
28	1,1-Dichloroethane	60	Hexane
29	1,2-Dichloroethane	61	Cyclohexane
30	Ethylene Dibromide	62	Tetrahydrofuran
31	1,1,1-Trichloroethane	63	1,4-Dioxane
32	1,1,2-Trichloroethane	64	Xylene (Total)

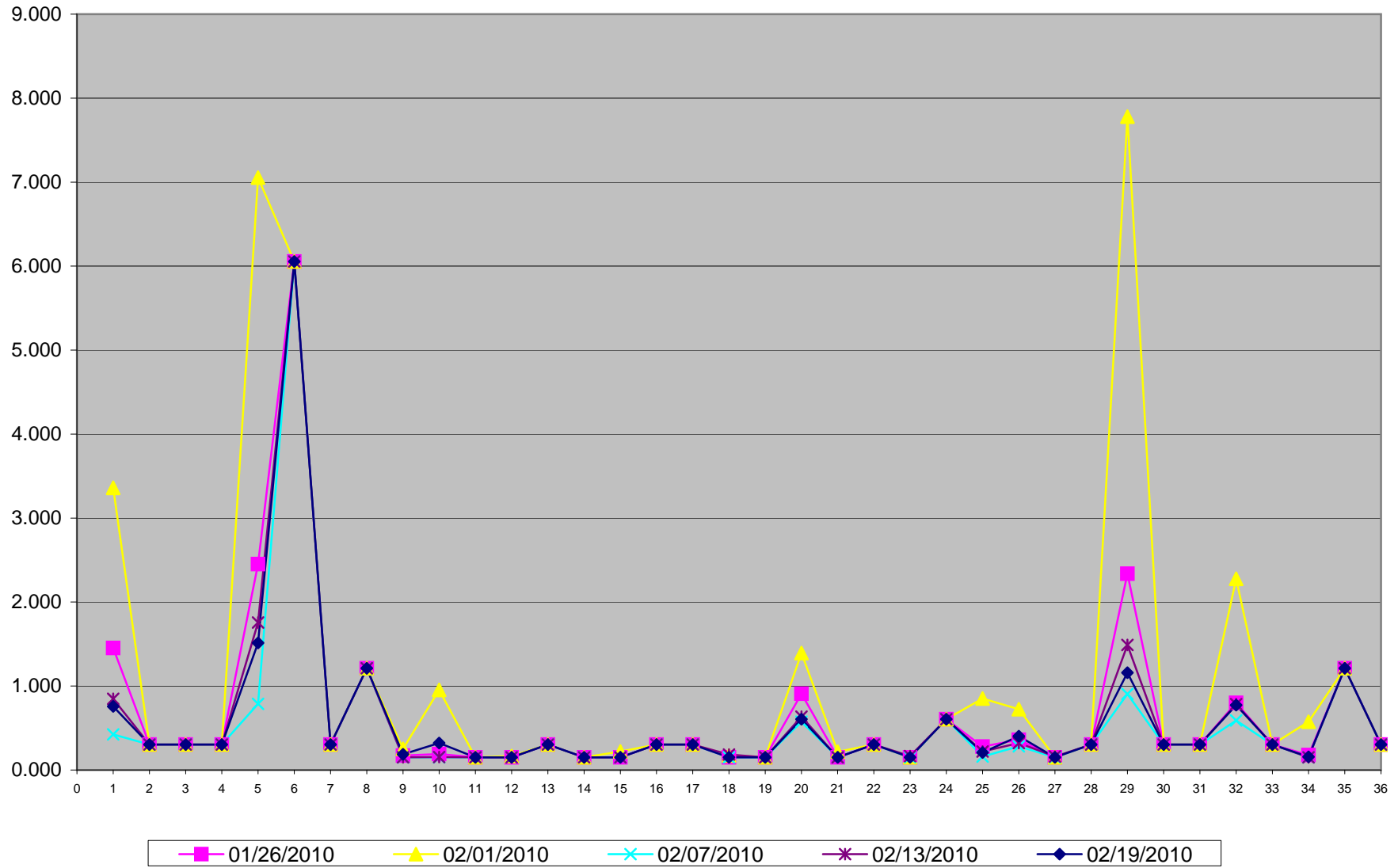
Polycyclic Aromatic Hydrocarbons

Polycyclic Aromatic Hydrocarbons (PAHs) Results for February 2010
LICA- Cold Lake South Site
Unit: ng/m3

PAHs	01/26/2010	02/01/2010	02/07/2010	02/13/2010	02/19/2010
Sample Volume (unit: m3)	330.35	330.35	330.35	330.34	330.35
1 1-Methylnaphthalene	1.453	3.360	0.424	0.848	0.757
2 1-Methylphenanthrene	0.303	0.303	0.303	0.303	0.303
3 2-Chloronaphthalene	0.303	0.303	0.303	0.303	0.303
4 2-Methylantracene	0.303	0.303	0.303	0.303	0.303
5 2-Methylnaphthalene	2.452	7.053	0.787	1.756	1.514
6 3-Methylcholanthrene	6.054	6.054	6.054	6.054	6.054
7 7,12-Dimethylbenzo(a)anthracene	0.303	0.303	0.303	0.303	0.303
8 9,10-Dimethylanthracene	1.211	1.211	1.211	1.211	1.211
9 Acenaphthene	0.173	0.251	0.151	0.151	0.188
10 Acenaphthylene	0.191	0.954	0.151	0.154	0.321
11 Anthracene	0.151	0.151	0.151	0.151	0.151
12 Benzo(a)anthracene	0.151	0.166	0.151	0.151	0.151
13 Benzo(a)fluorene	0.303	0.303	0.303	0.303	0.303
14 Benzo(a)pyrene	0.151	0.151	0.151	0.151	0.151
15 Benzo(b)fluoranthene	0.151	0.221	0.151	0.151	0.151
16 Benzo(b)fluorene	0.303	0.303	0.303	0.303	0.303
17 Benzo(e)pyrene	0.303	0.303	0.303	0.303	0.303
18 Benzo(g,h,i)perylene	0.151	0.173	0.151	0.185	0.151
19 Benzo(k)fluoranthene	0.151	0.151	0.151	0.151	0.151
20 Biphenyl	0.908	1.392	0.575	0.636	0.605
21 Chrysene	0.151	0.218	0.151	0.151	0.151
22 Coronene	0.303	0.303	0.303	0.303	0.303
23 Dibenz(a,h)anthracene	0.151	0.151	0.151	0.166	0.151
24 Dibenzo(a,e)pyrene	0.605	0.605	0.605	0.605	0.605
25 Fluoranthene	0.278	0.851	0.160	0.221	0.209
26 Fluorene	0.360	0.723	0.282	0.321	0.403
27 Indeno(1,2,3-cd)pyrene	0.151	0.151	0.151	0.160	0.151
28 m-Terphenyl	0.303	0.303	0.303	0.303	0.303
29 Naphthalene	2.337	7.780	0.905	1.489	1.159
30 o-Terphenyl	0.303	0.303	0.303	0.303	0.303
31 Perylene	0.303	0.303	0.303	0.303	0.303
32 Phenanthrene	0.799	2.276	0.590	0.784	0.772
33 p-Terphenyl	0.303	0.303	0.303	0.303	0.303
34 Pyrene	0.179	0.575	0.151	0.151	0.157
35 Quinoline	1.211	1.211	1.211	1.211	1.211
36 Tetralin	0.303	0.303	0.303	0.303	0.303

Note: - values were calculated by the formula of [reading (ug) x 1000 / sample volume (m3)].
- Where the analytical results are less than the minimum detection limit (MDL), the MDL has been used in calculations.
- See analytical for details.
- No data for February 25th was collected due to a lab issue with the PUF samples.

PAHs in ng/m3 Site: LICA - Cold Lake South



1	1-Methylnaphthalene
2	1-Methylphenanthrene
3	2-Chloronaphthalene
4	2-Methlyanthracene
5	2-Methylnaphthalene
6	3-Methylcholanthrene
7	7,12-Dimethylbenzo(a)anthracene
8	9,10-Dimethylanthracene
9	Acenaphthene
10	Acenaphthylene
11	Anthracene
12	Benzo(a)anthracene
13	Benzo(a)fluorene
14	Benzo(a)pyrene
15	Benzo(b)fluoranthene
16	Benzo(b)fluorene
17	Benzo(e)pyrene
18	Benzo(g,h,l)perylene
19	Benzo(k)fluoranthene
20	Biphenyl
21	Chrysene
22	Coronene
23	Dibenz(a,h)anthracene
24	Dibenzo(a,e)pyrene
25	Fluoranthene
26	Fluorene
27	Indeno(1,2,3-cd)pyrene
28	m-Terphenyl
29	Naphthalene
30	o-Terphenyl
31	Perylene
32	Phenanthrene
33	p-Terphenyl
34	Pyrene
35	Quinoline
36	Tetralin

Calibration Reports

Sulphur Dioxide

SO₂ Calibration Report

Station Information

Calibration Date	February 4, 2010	Previous Calibration	January 13, 2010
Company	Lakeland Community and Industry Association		
Plant / Location	LICA 1 - Cold Lake South		
Start Time (MST)	11:05	End Time (MST)	14:46
Reason:	Monthly Calibration		
Barometric Pressure	714 mmHg	Station Temperature	22 Deg C
Cal Gas	52.2 ppm	Cal Gas Expiry date	12/19/2010
DAS Output Voltage	0 - 10 Volts		

Equipment Information

Analyzer Make / Model:	Thermon 43i	S/N :	806528242	Method:	UV absorbtion
Converter Make / Model:	NA	S/N :	NA		
Calibrator Make / Model:	API 700	S/N :	831	Method:	Dilution
DAS Make / Model:	ESC 8832	S/N :	263		
Flow Meter:	API 700	S/N :	831		

Analyzer Settings

Before Calibration		After Calibration	
Concentration Range	0 - 500 ppb		
Sample Flow / Box Temp	449 ccm, 27.9 Deg C	448 ccm, 27.7 Deg C	
HVPS / Lamp Setting	-631.2, 753	-630.9, 752	
PMT / RxCell Temp	OK, 45.0 Deg C	OK, 44.9 Deg C	
Converter / IZS Temp	NA, 45.0 Deg C	NA, 45.0 Deg C	
Offset / Slope	5, 1.041	5.5, 1.041	

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
4996	0	0	0	N/A
4996	0	0	0	N/A
4959	38.3	400	402	0.9952
4975	23.9	250	255	0.9787
4986	14.4	150	153	0.9825
4999	0	0	0	N/A
Sum of Least Squares				0.3430
New Correction Factor				0.9952

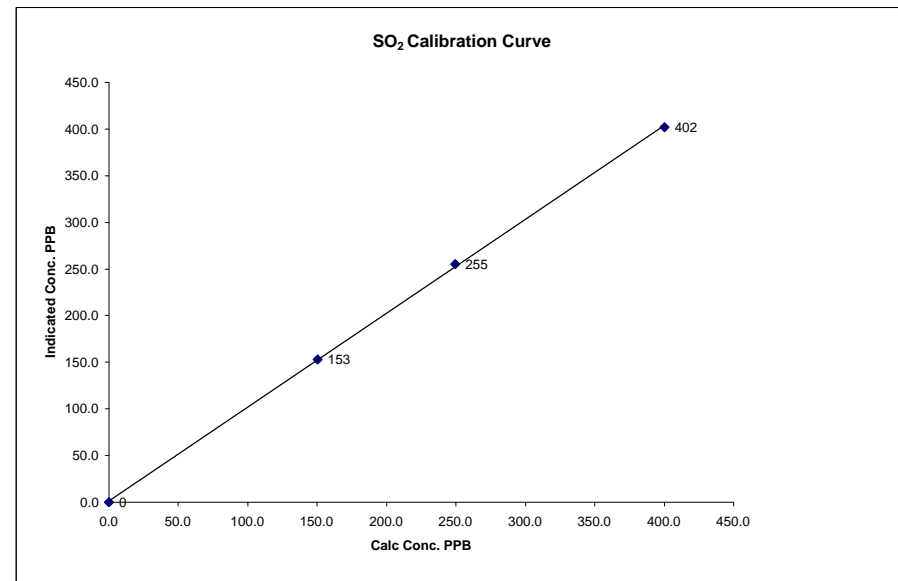
	Before Calibration	After Calibration
Auto Zero	0.0	0.0
Auto Span	405	404
Sample Lines Connected		YES
Percent Change from Previous Calibration		0.7%

Calibration Performed by: Shea Beaton

SO₂ Calibration Curve

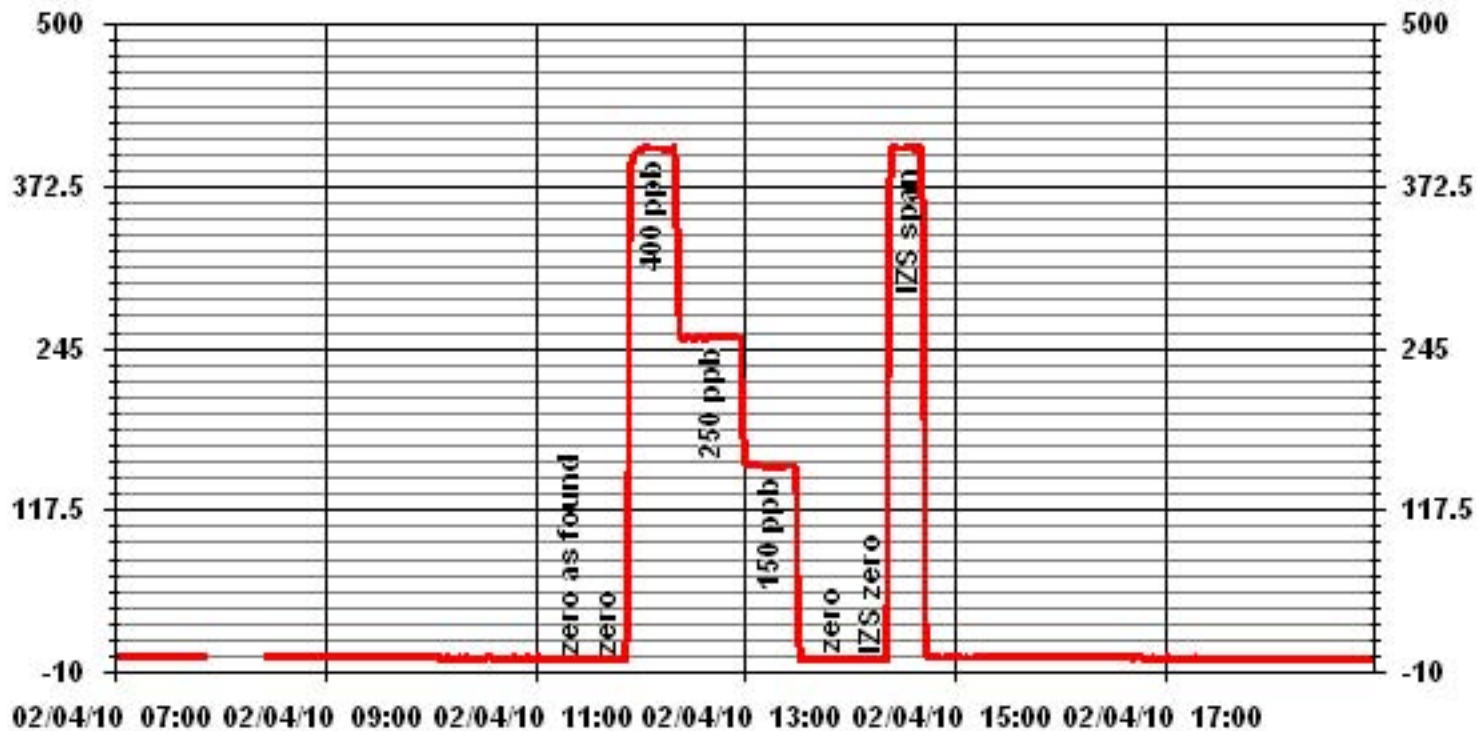
Calibration Date	February 4, 2010
Company	Lakeland Community and Industry Association
Plant / Location	LICA 1 - Cold Lake South
Start Time (MST)	11:05
End Time (MST)	14:46

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope (≥ 0.995) (0.85 to 1.15)	Intercept (± 3% F.S.)
0	0	n/a	0.999861	1.006154
150	153	0.9825		
250	255	0.9787		
400	402	0.9952		1.278499



Notes: _____

01 Minute Averages



Total Reduced Sulphur

**TRS Calibration Report
Station Information**

Calibration Date	February 4, 2010	Previous Calibration	January 6, 2009
Company	Lakeland Industry & Community Association		
Plant / Location	LICA 1 - Cold Lake South		
Start Time (MST)	8:45	End Time (MST)	11:51
Reason:	Monthly Calibration		
Barometric Pressure	714 mm Hg	Station Temperature	23 Deg C
Cal Gas	10.8 ppm	Cal Gas Expiry date	June 22, 2010
DAS Output Voltage	0 - 10 Volts		

Equipment Information

Analyzer Make / Model:	TEI 4501	S/N :	812728560	Method:	Fluorescent
Converter Make / Model:	CD Nova CDN 101	S/N :	250		
Calibrator Make / Model:	API 700	S/N :	831	Method:	Dilution
DAS Make / Model:	ESC 8832	S/N :	263		
Flow Meter:	API 700	S/N :	831		

Analyzer Settings

Before Calibration				After Calibration			
Concentration Range	0 - 100 ppb						
Sample Flow / Box Temp	358 ccm	31.1 Deg C		357 ccm	30.1 Deg C		
HVPS / Lamp Setting	-622.3	761		-622.3	760		
PMT / RxCell Temp	OK Deg C	45.0 Deg C		OK Deg C	45.3 Deg C		
Converter / IZS Temp	850 Deg C	45.0 Deg C		849 Deg C	45.0 Deg C		
Offset / Slope	11.1	1.179		11.3	1.179		

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
4996	0	0	0	N/A
4961	37	80	80	0.9994
4981	18.5	40	41	0.9747
4986	11.6	25	26	0.9642
4999	0	0	0	N/A
Sum of Least Squares				0.9921
New Correction Factor				0.9994

Before Calibration

After Calibration

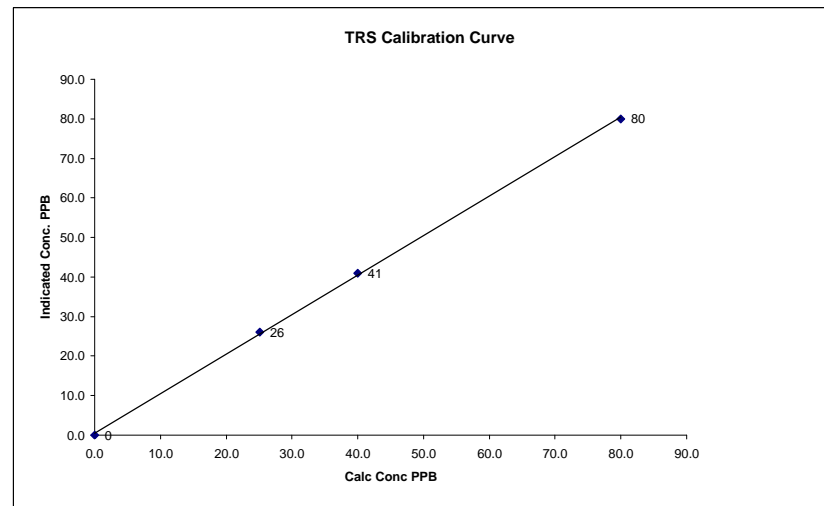
Auto Zero	0.0	0.2
Auto Span	41	42
Sample Lines Connected		YES
Percent Change from Previous Calibration		-1.2%

Calibration Performed by: Shea Beaton

TRS Calibration Curve

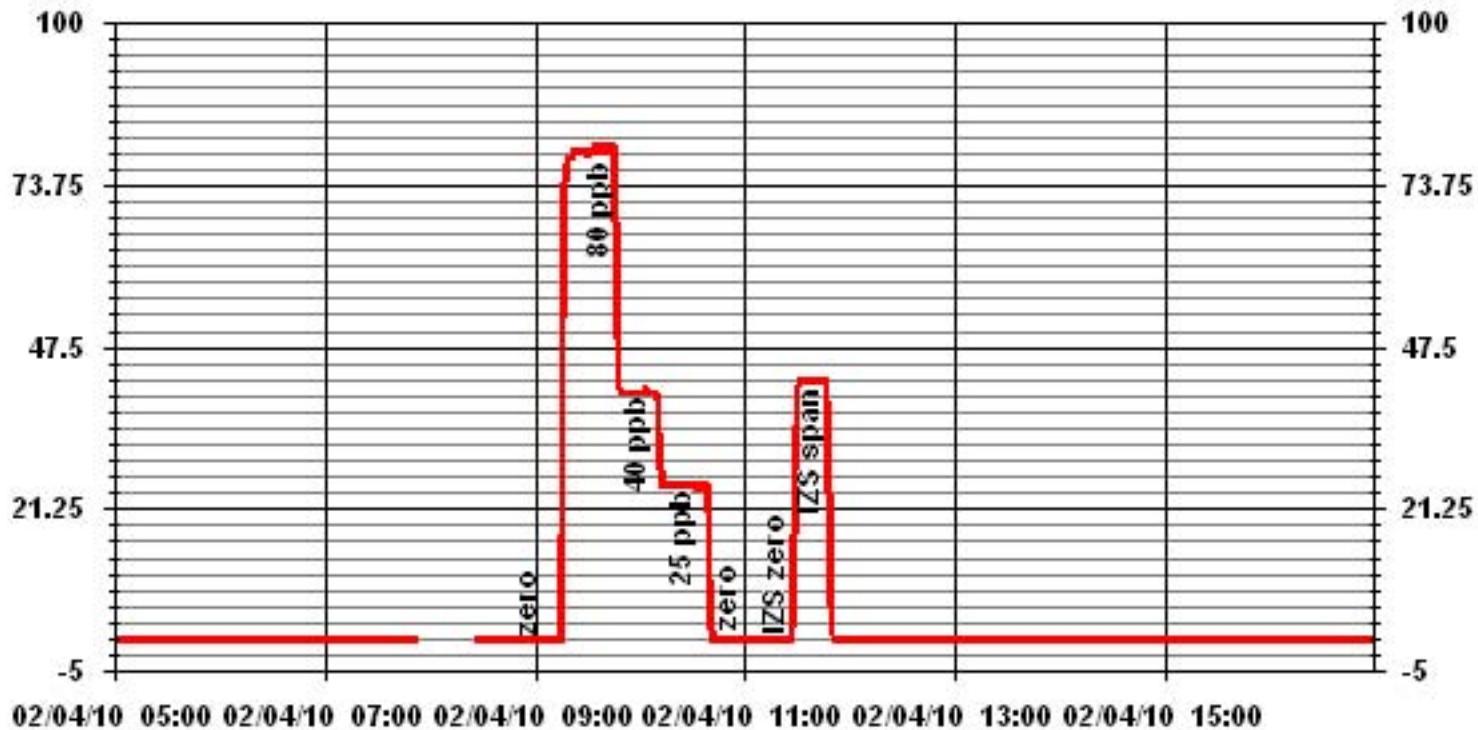
Calibration Date	February 4, 2010
Company	Lakeland Industry & Community Association
Plant / Location	LICA 1 - Cold Lake South
Start Time (MST)	8:45
End Time (MST)	11:51

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient (≥ 0.995)	0.999725
0	0	n/a	Slope (0.85 to 1.15)	0.998672
25	26	0.9642	Intercept (± 3% F.S.)	0.552145
40	41	0.9747		
80	80	0.9994		



Notes: _____

01 Minute Averages



Total Hydrocarbons

THC Calibration Report

Station Information

Calibration Date:	February 4, 2010	Previous Calibration	January 6, 2010
Company:	Lakeland Industry and Community Association		
Plant / Location:	LICA1/Cold Lake		
Start Time (MST)	14:55	End Time (MST)	18:28
Reason:	Monthly Calibration		
Barometric Pressure:	714 mmHg	Station Temperature:	23 Deg C
Calibrator:	API 700	S/N:	831
Cal Gas Concentration:	207Prop/602Meth	ppm	Cal Gas Expiry Date: 8/11/2011
DAS make & Model:	NA	S/N :	NA
Output Voltage Range:	0 - 10 VDC		

Analyzer Information

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

	Before Calibration	After Calibration
Concentration Range	0 - 50 ppm	0 - 50 ppm
Sample Pressure	6.5 psi	6.5 psi
Hydrogen Pressure	8 psi	8 psi
Air Pressure	20 psi	20 psi

Calibration Data

Dilution Flow	Source Gas Flow	Calculated Concentration	Indicated Concentration	Correction Factor
2000	0	0.0	-0.1	N/A
2000	0	0.0	0.0	N/A
2000	70.0	39.6	39.1	1.0130
2000	70	39.6	39.9	0.9927
2000	35	20.1	19.8	1.0174
2000	20	11.6	11.3	1.0262
2000	0	0.0	0.0	N/A
			Correction Factor:	0.9927

Percent Change

Previous Calibration Correction Factor:	0.9914
Current Correction Factor Before Span Adjust:	1.0130
Percent Change:	-2.1%

IZS Calibration Data

	Before Calibration	After Calibration
Auto Zero	-0.1	0.0
Auto Span	34.3	35.0
Sample Lines Connected		YES

Cylinder Pressures

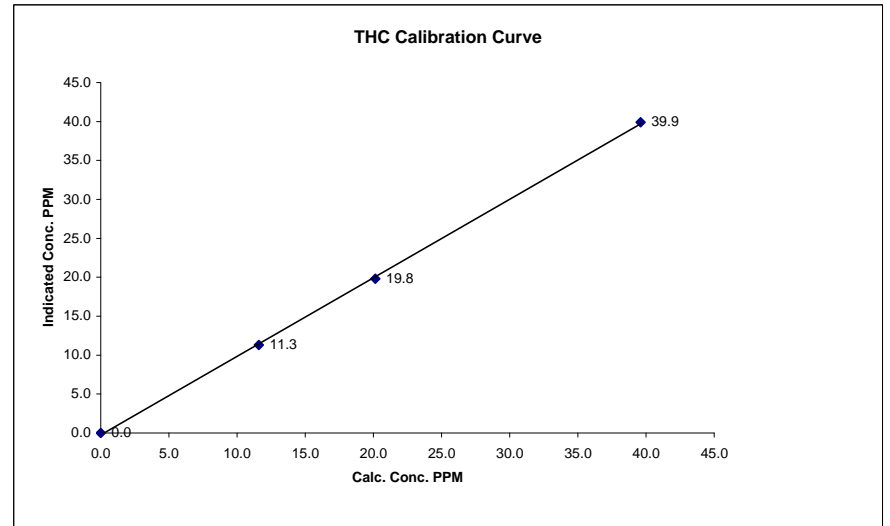
Span	1200 psi
Hydrogen	1500 psi
Zero Air	unlimited psi Maxxam-owned API 701 zero air supply with catalytic oxidizer

Calibration Performed by: Shea Beaton

THC Calibration Curve

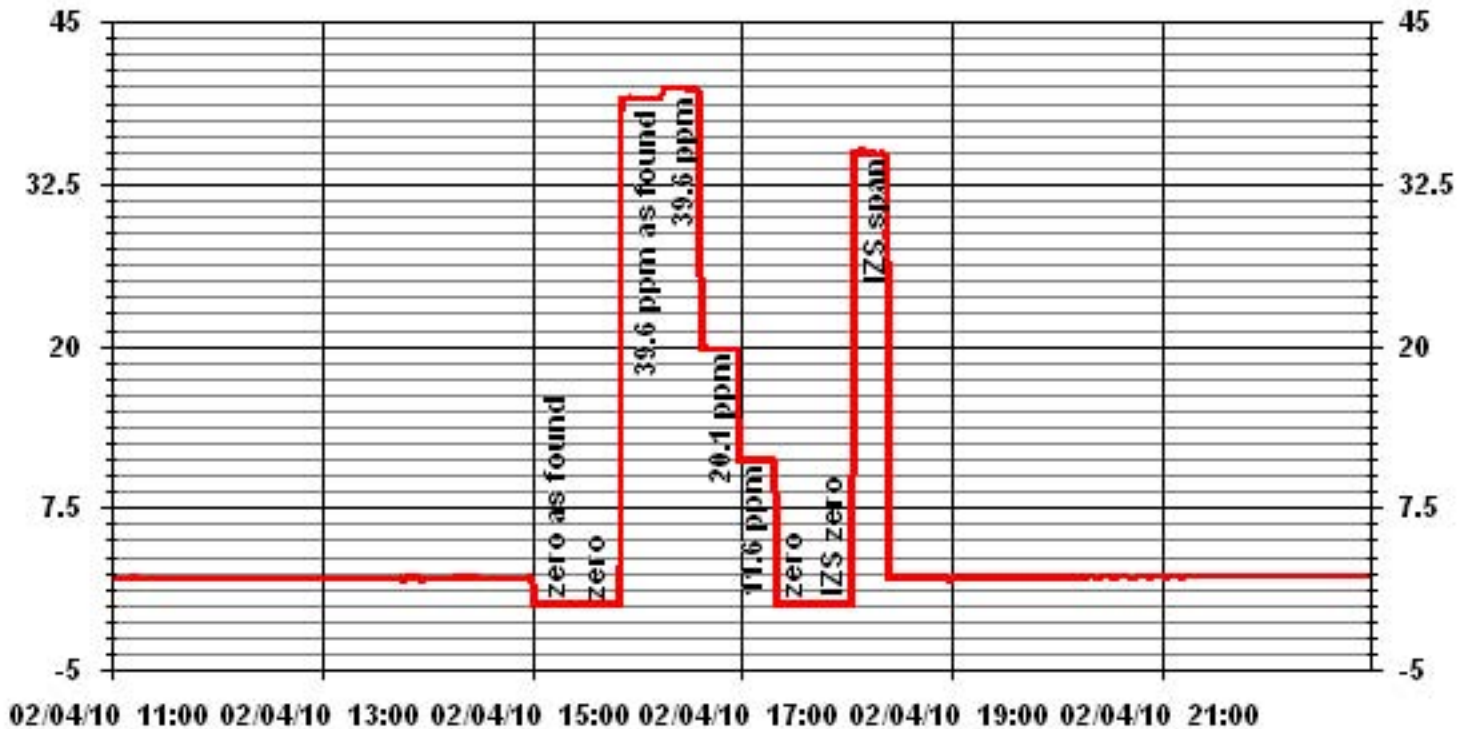
Calibration Date	February 4, 2010		
Company	Lakeland Industry and Community Association		
Plant / Location	LICA1/Cold Lake		
Start Time (MST)	14:55	End Time (MST)	18:28

Calculated Conc. ppm	Indicated Response ppm	Correction Factor	Correlation Coefficient Slope	(≥ 0.995)	0.999770
0.0	0.0		Intercept	(0.85 to 1.15)	1.008877
11.6	11.3	1.0262		(± 3% F.S.)	-0.245424
20.1	19.8	1.0174			
39.6	39.9	0.9927			



Notes:

01 Minute Averages



Particulate Matter 2.5

TEOM0 1405F Audit

	<u>Station</u>		<u>Audit Transfer Standard</u>
Date:	February 4, 2010	Make/Model:	Bios DC2
Station Name:	LICA 1	Serial Number:	1193
Location:	Cold Lake South	Cell s/n:	2272
Operator:	LICA	Thermometer s/n:	-

	<u>Sampler</u>		<u>Set-up and current Sampler readings</u>
Make/Model	Thermo Scientific Series 1405F	F-Main Set Pt (l/min)	3.00
Unit #	AMU 1775	F-Aux Set Pt (l/min)	13.67
Unit s/n	1405A201620804	Filter Load (%)	26%
Firmware Ver.	1.51	K _o Factor	14578.0
Parameter	PM 2.5 (with FDMS)	Temp (°C)	-6.9
		Press (ATM)	0.939

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

Audit

Status			
Noise <0.10ug	0.007	Warnings	None
Pump Vacuum	0.33		
Temperature/Pressure			
Measured Temp (± 2 °C)	-7.1	D °C	0.2
Measured Press (± 0.01atm)	0.940	DATM	-0.001
Flow Audit			
Indicated Main Flow (l/min)	3.00	Main Flow Drift (±10.0%)	0.24%
Measured Main Flow (l/min)	3.06	Flow Adjusted to Measured?	Yes
Indicated Bypass Flow (l/min)	13.67	Bypass Flow Drift (±10.0%)	0.51%
Measured Bypass Flow (l/min)	13.78	Flow Adjusted to Measured?	Yes
Leak Check		Instrument Setup	
Main (< 0.15 l/min)	NA	Flow Control = Active	
Aux (< 0.15 l/min)	NA	Report Conditions = Standard (25.0 C and 1atm)	
K_o Factor			
Measured	NA		
K _o Difference (± 2.5%)	NA		

Start Time: 13:05 **Finish Time:** 14:50

Sample Inlet Cleaned: YES **New Filters Installed:** YES
New Filter Loading %: 16.8%

Comments:

Auditor/s: Shea Beaton

TEOM0 1405F Audit

	<u>Station</u>		<u>Audit Transfer Standard</u>
Date:	February 12, 2010	Make/Model:	Chinook FTS
Station Name:	LICA 1	Serial Number:	Hi-091001
Location:	Cold Lake South	Cell s/n:	Lo-019099
Operator:	LICA	Thermometer s/n:	VWR

	<u>Sampler</u>		<u>Set-up and current Sampler readings</u>
Make/Model	Thermo Scientific Series 1405F	F-Main Set Pt (l/min)	3.00
Unit #	AMU 1775	F-Aux Set Pt (l/min)	13.67
Unit s/n	1405A201620804	Filter Load (%)	25.1%
Firmware Ver.	1.51	K _o Factor	14578.0
Parameter	PM 2.5 (with FDMS)	Temp (°C)	-8.2
		Press (ATM)	0.938

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

Audit

Status			
Noise <0.10ug	0.007	Warnings	None
Pump Vacuum	0.35		
Temperature/Pressure			
Measured Temp (± 2 °C)	-8.3	D °C	0.1
Measured Press (± 0.01atm)	0.937	DATM	0.001
Flow Audit			
Indicated Main Flow (l/min)	3.00	Main Flow Drift (±10.0%)	0.65%
Measured Main Flow (l/min)	2.89	Flow Adjusted to Measured?	Yes
Indicated Bypass Flow (l/min)	13.67	Bypass Flow Drift (±10.0%)	0.24%
Measured Bypass Flow (l/min)	13.65	Flow Adjusted to Measured?	Yes
Leak Check		Instrument Setup	
Main (< 0.15 l/min)	NA	Flow Control = Active	
Aux (< 0.15 l/min)	NA	Report Conditions = Standard (25.0 C and 1atm)	
K_o Factor			
Measured	NA		
K _o Difference (± 2.5%)	NA		

Start Time: 12:05 Finish Time: 14:50

Sample Inlet Cleaned: NO New Filters Installed: NO
 New Filter Loading %: NA

Comments: Audit performed following a flow calibration, inlet was cleaned and filters were changed on Feb 4th.

Auditor/s: Shea Beaton

Nitrogen Dioxide

NOx - NO- NO₂ Calibration Report

Station Information

Calibration Date	February 4, 2010		Previous Calibration	January 6, 2010	
Company	Lakeland Ind & Comm. Assoc.		Plant/Location	LICA 1 - Cold Lake South	
Start Time (MST)	8:45	End Time (MST)	15:39		
Reason:	Monthly Calibration				
Barometric Pressure	714 mmHg	Station Temperature	23 Deg C		
Cal Gas Concentration	NOx 51.8 ppm	NO 51.6 ppm	Cal Gas Expiry date	12/19/2010	
DAS Output Voltage	0 - 1 Volts	Chart Rec. Output	NA	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 - 1000			ppb		
Sample Flow/Conv. Temp	728 ccm	317 Deg C	729 ccm	316 Deg C			
Ozone Flow / Vacuum	OK ccm	178.1 mmHg	OK ccm	177.8 mmHg			
HVPS	-821 Volts		-820 Volts				
Rx/ Temp / PMT Temp	49.9 Deg C	-2.5 Deg C	49.8 Deg C	-2.5 Deg C			
Box Temp / IZS Temp	32.3 Deg C	OK Deg C	31.8 Deg C	OK Deg C			
Offset	3.8 NOx	3.7 NO	4.3 NOx	3.8 NO			
Slope	1.003 NOx	0.891 NO	1.007 NOx	0.92 NO			

Gas Phase Titration Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration		Indicated Concentration			Correction Factor	
			NOx	NO	NOx	NO	NO ₂	NOx	NO
3004	0	N/A	0	0	1	0	1	N/A	N/A
3004	0.0	N/A	0	0	0	0	0	N/A	N/A
2981	23.3	N/A	402	400	388	387	1	1.0354	1.0341
2981	23.3	N/A	402	400	404	401	3	0.9944	0.9980
2995	11.7	N/A	202	201	204	202	2	0.9881	0.9940
2992	8.7	N/A	150	150	153	151	2	0.9816	0.9908
3005	0.0	N/A	0	0	1	1	1	N/A	N/A
Converter Efficiency									
2981	23.3	N/A	402	400	405	402	3	N/A	
2981	23.3	300	402	400	402	122	281	99%	
2981	23.3	200	402	400	402	212	190	98%	
2981	23.3	100	402	400	403	316	87	98%	
2981	23.3	N/A	402	400	404	401	3	N/A	
3003	0	N/A	0	0	1	1	0	N/A	N/A

Linearity OK?	Yes	No	Sum of Least Squares	0.9920	0.9965
Flows Checked on-site?	Yes	No	New Correction Factor	0.9944	0.9980
			Average Converter Efficiency	98%	

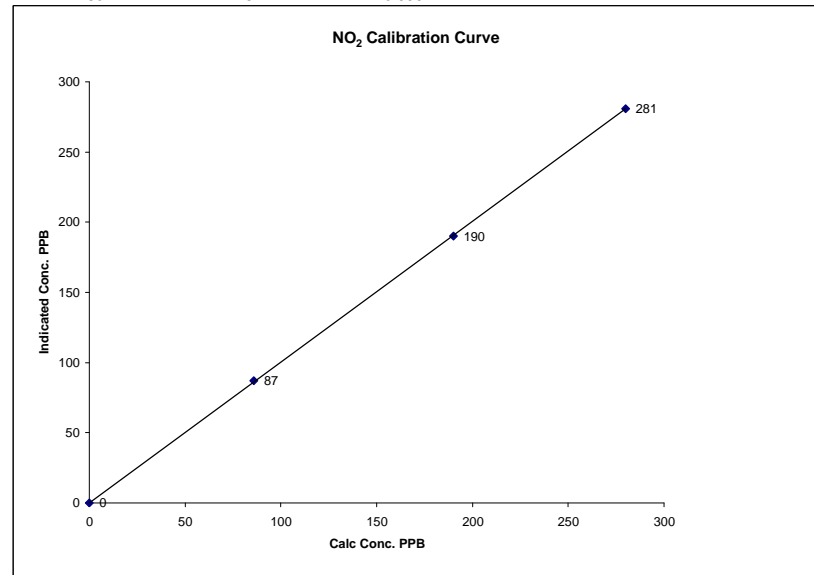
		Before Calibration		After Calibration	
Auto Zero	0.0 NOx	0.0 NO ₂	-0.4 NOx	0.0 NO ₂	
Auto Span	402 NOx	400 NO ₂	417 NOx	415 NO ₂	
Sample Lines Connected	YES				
Percent Change from Previous Calibration	NOx	-3.3%	NO	-3.3%	

Calibration Performed by: Shea Beaton

NO₂ Calibration Curve

Calibration Date	February 4, 2010	
Company	Lakeland Ind & Comm. Assoc.	
Plant / Location	LICA 1 - Cold Lake South	
Start Time (MST)	8:45	End Time (MST) 15:39

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient (≥ 0.995)	0.999982
0	0	N/A	Slope (0.85 to 1.15)	1.001973
86	87	0.9885	Intercept (± 3% F.S.)	0.22581
190	190	1.0000		
280	281	0.9964		

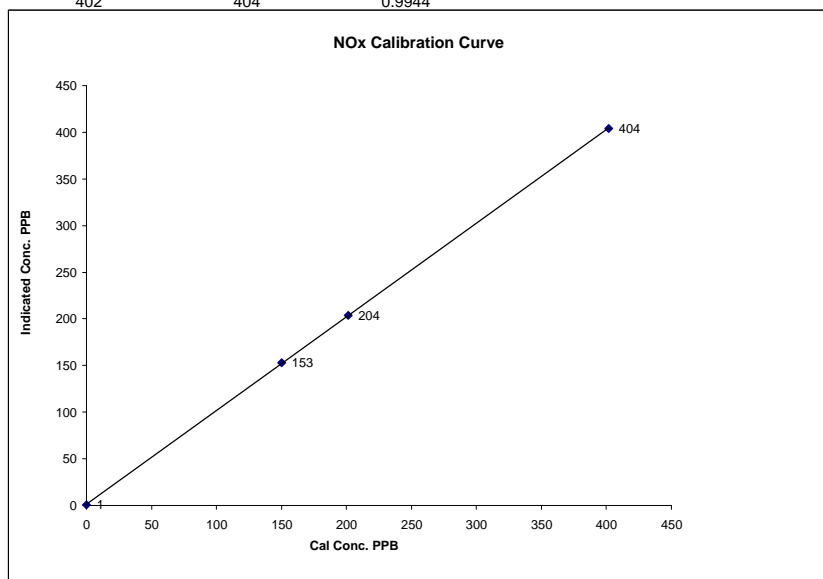


Notes: _____

NOx Calibration Curve

Calibration Date February 4, 2010
 Company Lakeland Ind & Comm. Assoc.
 Plant / Location LICA 1 - Cold Lake South
 Start Time (MST) 8:45 End Time (MST) 15:39

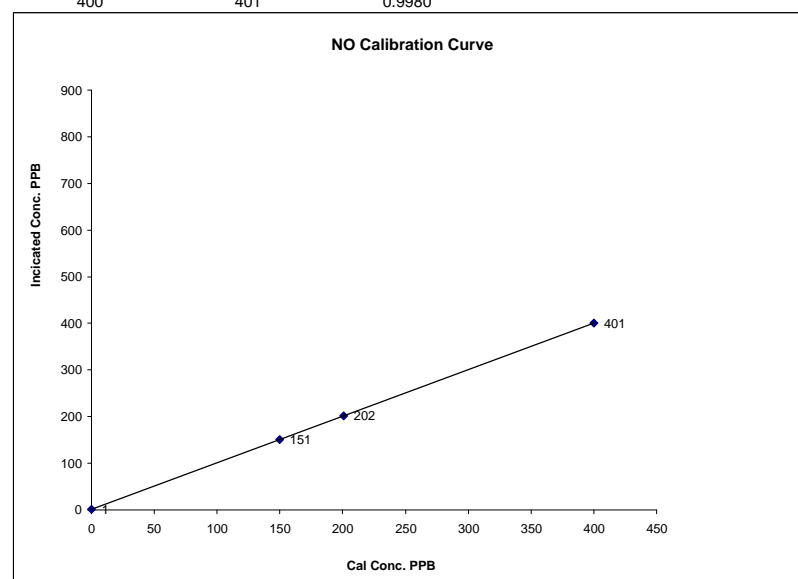
Calculated Conc.	Indicated Response	Correction Factor	Correlation Coefficient	(≥ 0.995)	0.999985
ppb	ppb		Slope	(0.85 to 1.15)	1.002649
0	1	N/A	Intercept	(± 3% F.S.)	1.62789
150	153	0.9816			
202	204	0.9881			
402	404	0.9944			



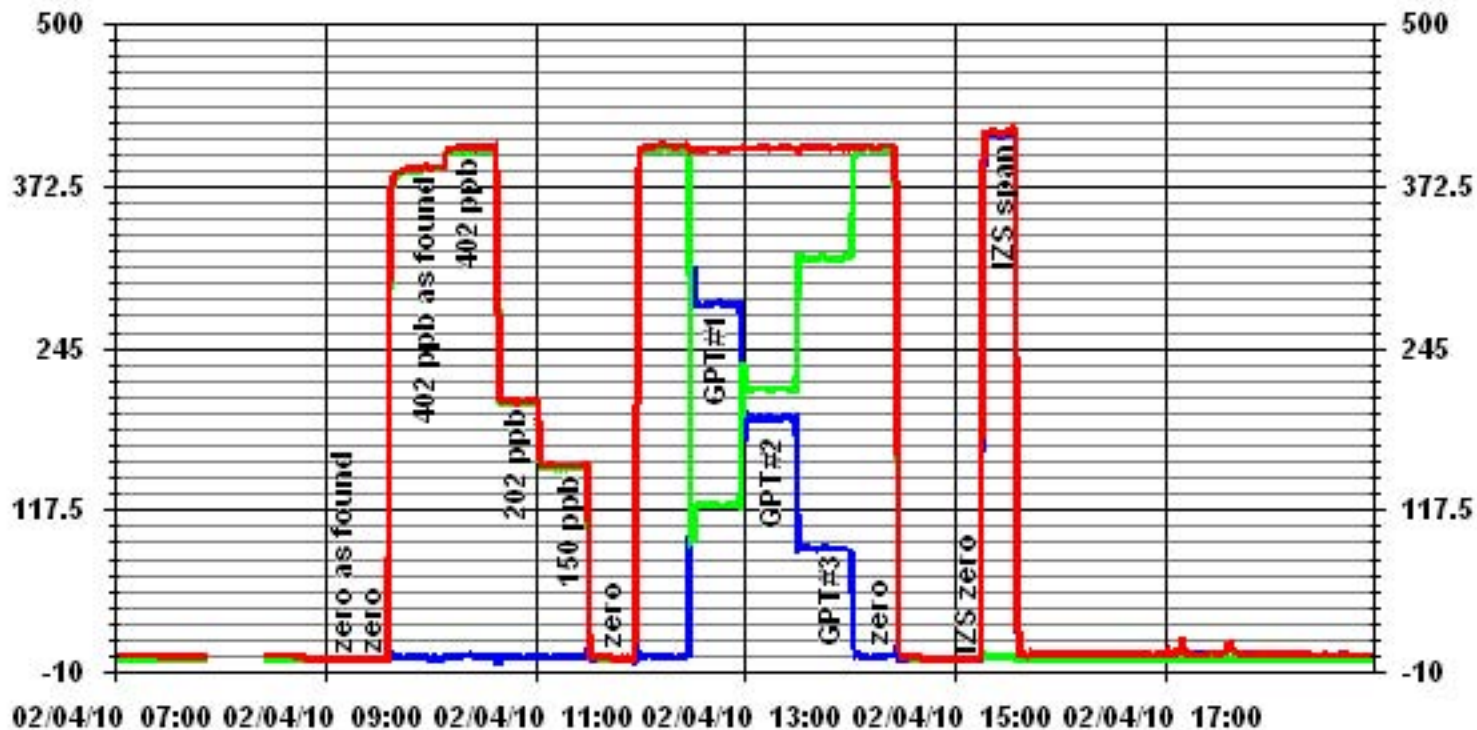
NO Calibration Curve

Calibration Date February 4, 2010
 Company Lakeland Ind & Comm. Assoc.
 Plant / Location LICA 1 - Cold Lake South
 Start Time (MST) 8:45 End Time (MST) 15:39

Calculated Conc.	Indicated Response	Correction Factor	Correlation Coefficient	(≥ 0.995)	0.999998
ppb	ppb		Slope	(0.85 to 1.15)	0.997776
0	1	N/A	Intercept	(± 3% F.S.)	1.6060
150	151	0.9908			
201	202	0.9940			
400	401	0.9980			



01 Minute Averages



Ozone

O₃ Calibration Report

Station Information

Calibration Date	February 4, 2010	Previous Calibration	January 6, 2010
Company	Lakeland Industry & Community Association		
Plant / Location	LICA 1 - Cold Lake South		
Start Time (MST)	14:58	End Time (MST)	18:28
Reason:	Monthly Calibration		
Barometric Pressure	714 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:	GPT
DAS Make / Model:	ESC 8832	S/N :	263		

Analyzer Settings

	Before Calibration		After Calibration	
Concentration Range	0 - 500 ppb			
Bench Temp/ Pressure	27.5 Deg C		27.2 Deg C	
O ₃ Set Level	29%		29%	
Bench Lamp/O ₃ Lamp				
Sample Flow A/B	0.738 LPM	0.754 LPM	0.739 LPM	0.754 LPM
Offset / Slope	0.7	1.018	0.7	0.991

Calibration Data

Dilution Flow Rate	Ozone Set Point	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
3001	0	0	0	N/A
3001	400	365	375	0.9733
3001	400	365	366	0.9973
3001	200	186	184	1.0109
3001	100	86	83	1.0361
3004	0	0	0	N/A
Sum of Least Squares				N/A
New Correction Factor				0.9973

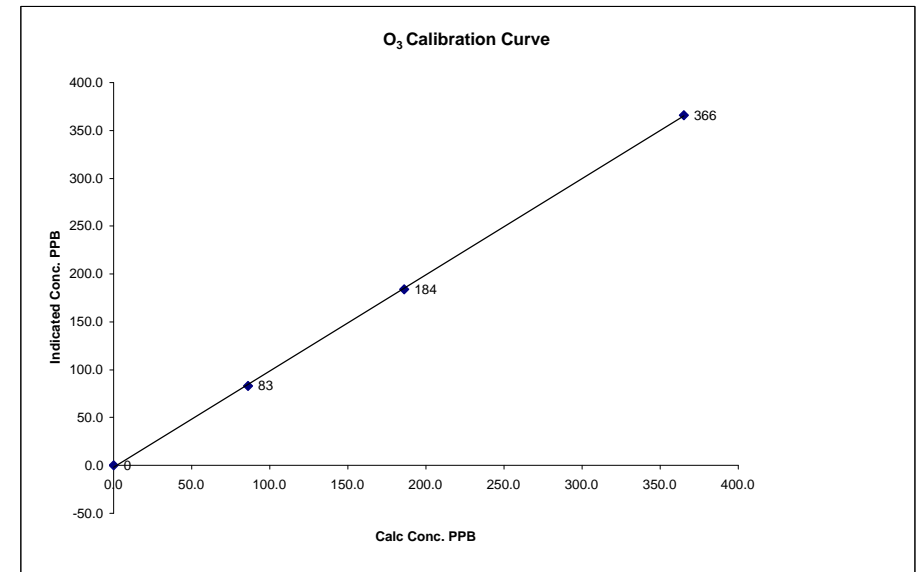
	Before Calibration	After Calibration
Auto Zero	0.0	-0.1
Auto Span	292	283
Sample Lines Connected		YES
Percent Change from Previous Calibration		2.7%

Calibration Performed by: Shea Beaton

O₃ Calibration Curve

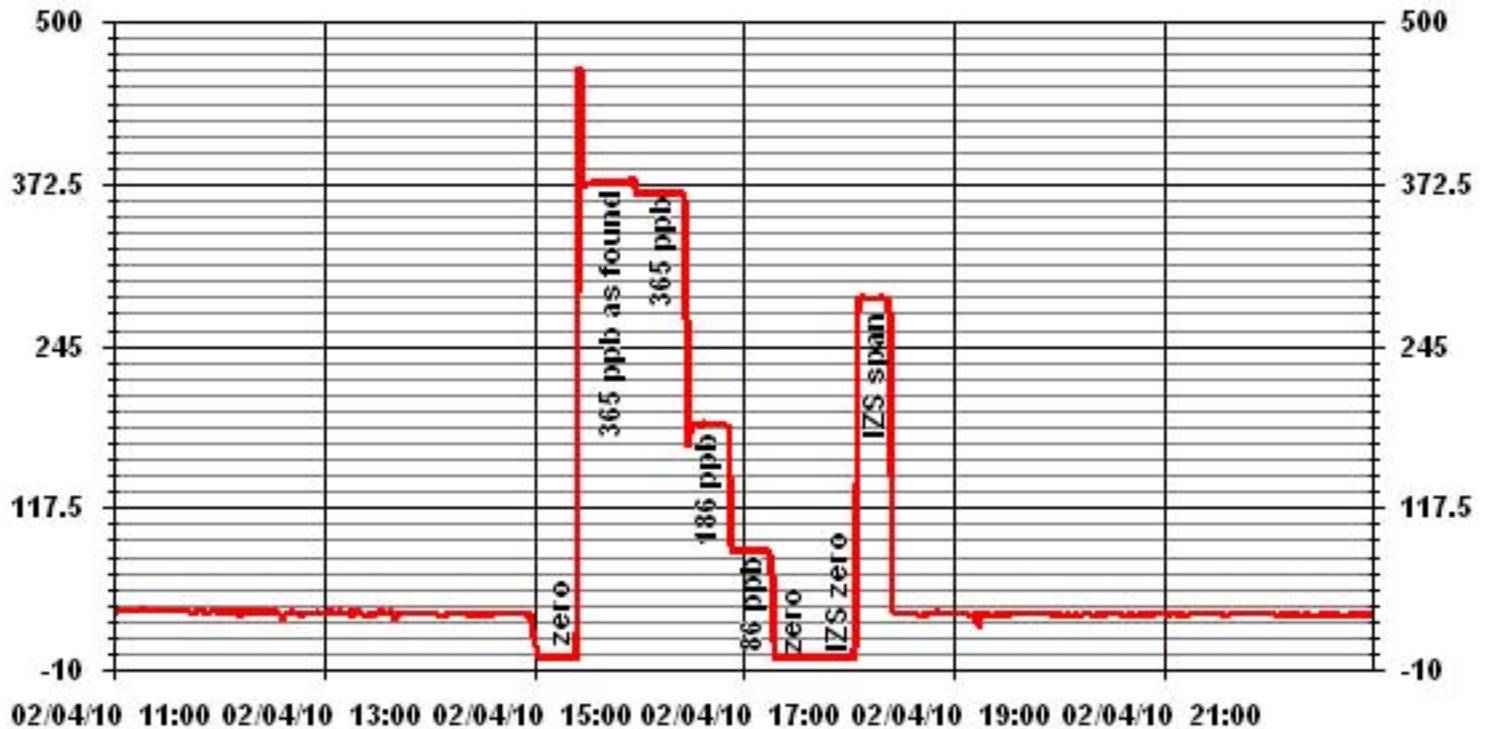
Calibration Date	February 4, 2010		
Company	Lakeland Industry & Community Association		
Plant / Location	LICA 1 - Cold Lake South		
Start Time (MST)	14:58	End Time (MST)	18:28

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope	(≥ 0.995) (0.85 to 1.15)	0.999891
0	0	n/a	Intercept	(± 3% F.S.)	-1.802998
86	83	1.0361			
186	184	1.0109			
365	366	0.9973			



Notes: Bench Temp=53.5C, O₃ lamp temp=67.6C.

01 Minute Averages



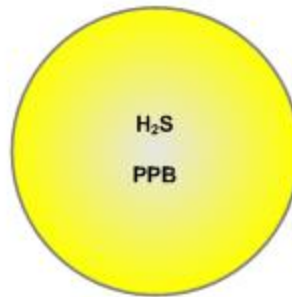
Passive Bubble Maps

Lakeland Industry & Community Association H₂S Passive Bubble Map

FEBRUARY 2010

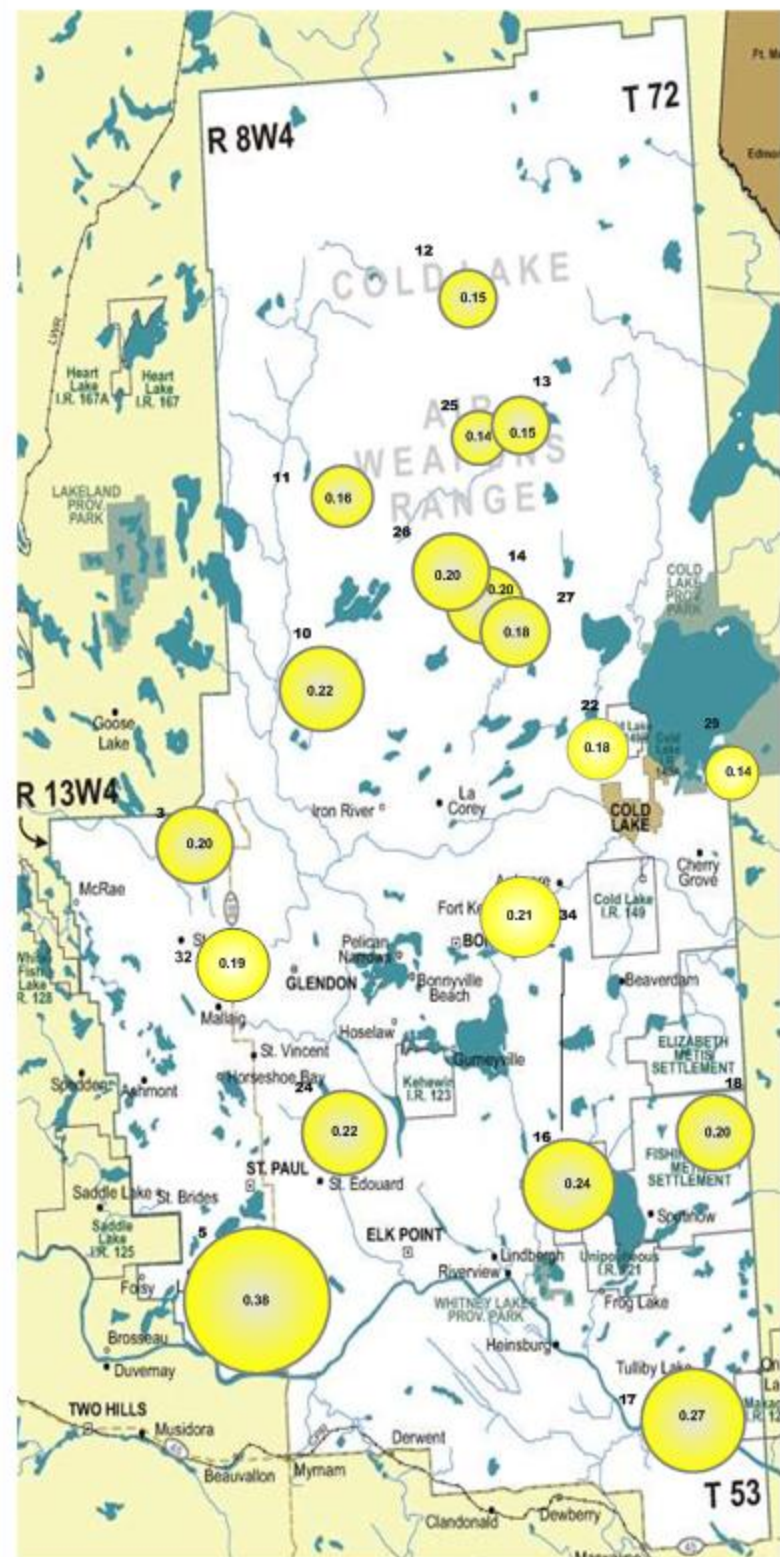
PASSIVE STATIONS

		DUPLICATE
3 – Therien	0.21 PPB	0.19 PPB
5 – Lake Eliza	0.38 PPB	NA
10 – La Corey	0.22 PPB	NA
11 – Wolf Lake	0.16 PPB	0.15 PPB
12 – Foster Creek	0.15 PPB	NA
13 – Primrose	0.15 PPB	0.14 PPB
14 – Maskwa	0.20 PPB	NA
16 – Frog Lake	0.24 PPB	0.23 PPB
17 – Clear Range	0.27 PPB	NA
18 – Fishing Lake	0.21 PPB	0.18 PPB
22 – Cold Lake South	0.18 PPB	NA
24 – Fort George	0.22 PPB	NA
25 – Burnt Lake	0.13 PPB	0.15 PPB
26 – Mahihkan	0.20 PPB	NA
27 – Mahkeses	0.18 PPB	0.17 PPB
29 – Cold Lake South 2	0.14 PPB	NA
32 – St. Lina	0.19 PPB	NA
34 – Portable	0.21 PPB	NA



Summary

Minimum : 0.14 PPB – Burnt Lake
Maximum: 0.38 PPB – Lake Eliza
Average: 0.20 PPB *Includes Duplicates



Lakeland Industry & Community Association NO₂ Passive Bubble Map

FEBRUARY 2010

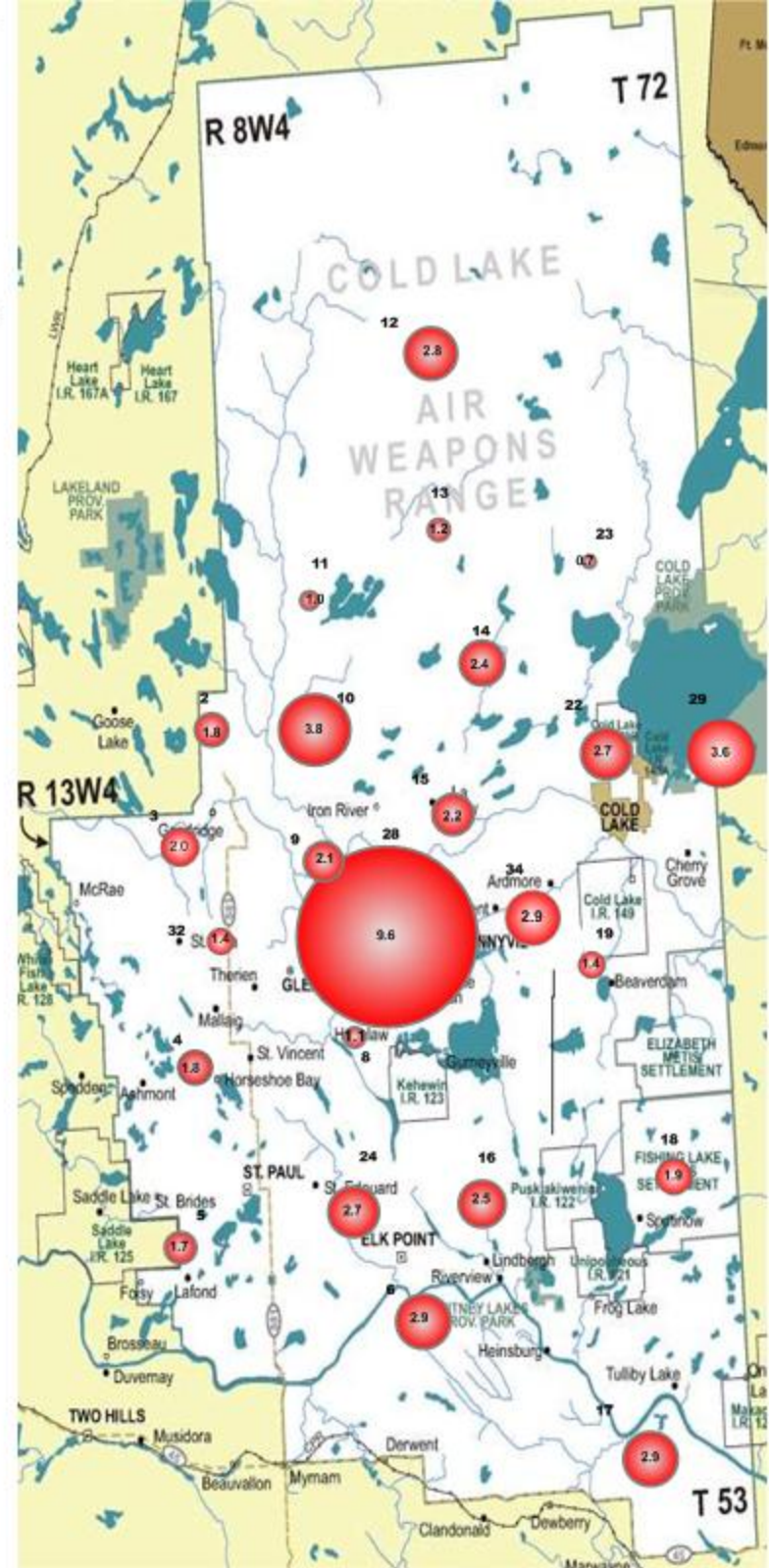
PASSIVE STATIONS

		DUPLICATE
2 – Sand River	1.6 PPB	1.9 PPB
3 – Therien	2.0 PPB	NA
4 – Flat Lake	1.7 PPB	1.8 PPB
5 – Lake Eliza	1.7 PPB	NA
6 – Telegraph Creek	2.6 PPB	3.2 PPB
8 – Muriel-Kehewin	1.1 PPB	NA
9 – Dupre	2.2 PPB	1.9 PPB
10 – La Corey	3.8 PPB	NA
11 – Wolf Lake	0.9 PPB	1.1 PPB
12 – Foster Creek	2.8 PPB	NA
13 – Primrose	1.1 PPB	1.2 PPB
14 – Maskwa	2.4 PPB	NA
15 – Ardmore	2.2 PPB	2.1 PPB
16 – Frog Lake	2.5 PPB	NA
17 – Clear Range	2.9 PPB	2.9 PPB
18 – Fishing Lake	1.9 PPB	NA
19 – Beaverdam	1.3 PPB	1.5 PPB
22 – Cold Lake South	2.7 PPB	NA
23 – Medley-Martineau	0.7 PPB	NA
24 – Fort George	2.7 PPB	2.6 PPB
28 – Town of Bonnyville	9.6 PPB	NA
29 – Cold Lake South 2	3.3 PPB	3.8 PPB
32 – St. Lina	1.4 PPB	NA
34 – Portable	2.9 PPB	NA



Summary

Minimum : 0.7 PPB – Medley-Martineau
Maximum: 9.6 PPB – Town of Bonnyville
Average: 2.5 PPB *Includes Duplicates

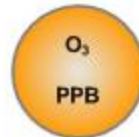


Lakeland Industry & Community Association O₃ Passive Bubble Map

FEBRUARY 2010

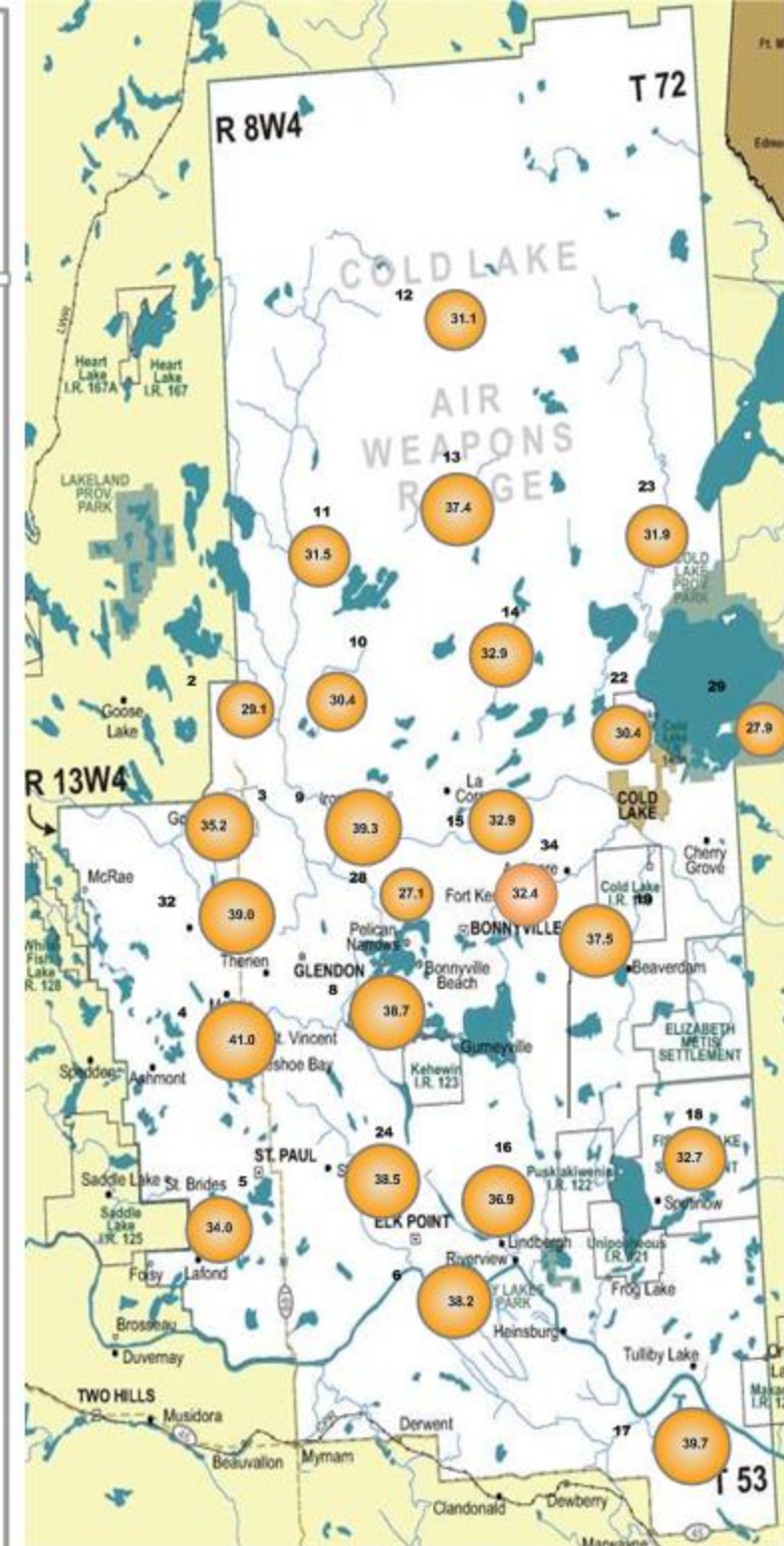
PASSIVE STATIONS

		DUPLICATE
2 – Sand River	29.9 PPB	28.3 PPB
3 – Therien	35.2 PPB	NA
4 – Flat Lake	41.4 PPB	40.6 PPB
5 – Lake Eliza	34.0 PPB	NA
6 – Telegraph Creek	39.4 PPB	37.0 PPB
8 – Muriel-Kehewin	38.7 PPB	NA
9 – Dupre	38.2 PPB	40.3 PPB
10 – La Corey	30.4 PPB	NA
11 – Wolf Lake	32.3 PPB	30.6 PPB
12 – Foster Creek	31.1 PPB	NA
13 – Primrose	39.0 PPB	35.8 PPB
14 – Maskwa	32.9 PPB	NA
15 – Ardmore	31.9 PPB	33.8 PPB
16 – Frog Lake	36.9 PPB	NA
17 – Clear Range	39.9 PPB	39.4 PPB
18 – Fishing Lake	32.7 PPB	NA
19 – Beaverdam	36.6 PPB	38.4 PPB
22 – Cold Lake South	30.4 PPB	NA
23 – Medley-Martineau	31.9 PPB	NA
24 – Fort George	39.3 PPB	37.6 PPB
28 – Town of Bonnyville	27.1 PPB	NA
29 – Cold Lake South 2	27.9 PPB	27.8 PPB
32 – St. Lina	39.0 PPB	NA
34 – Portable	32.4 PPB	NA



Summary

Minimum : 27.1 PPB –Town of Bonnyville
 Maximum: 41.0 PPB –Flat Lake
 Average: 34.4 PPB *Includes Duplicates



Lakeland Industry & Community Association SO₂ Passive Bubble Map

FEBRUARY 2010

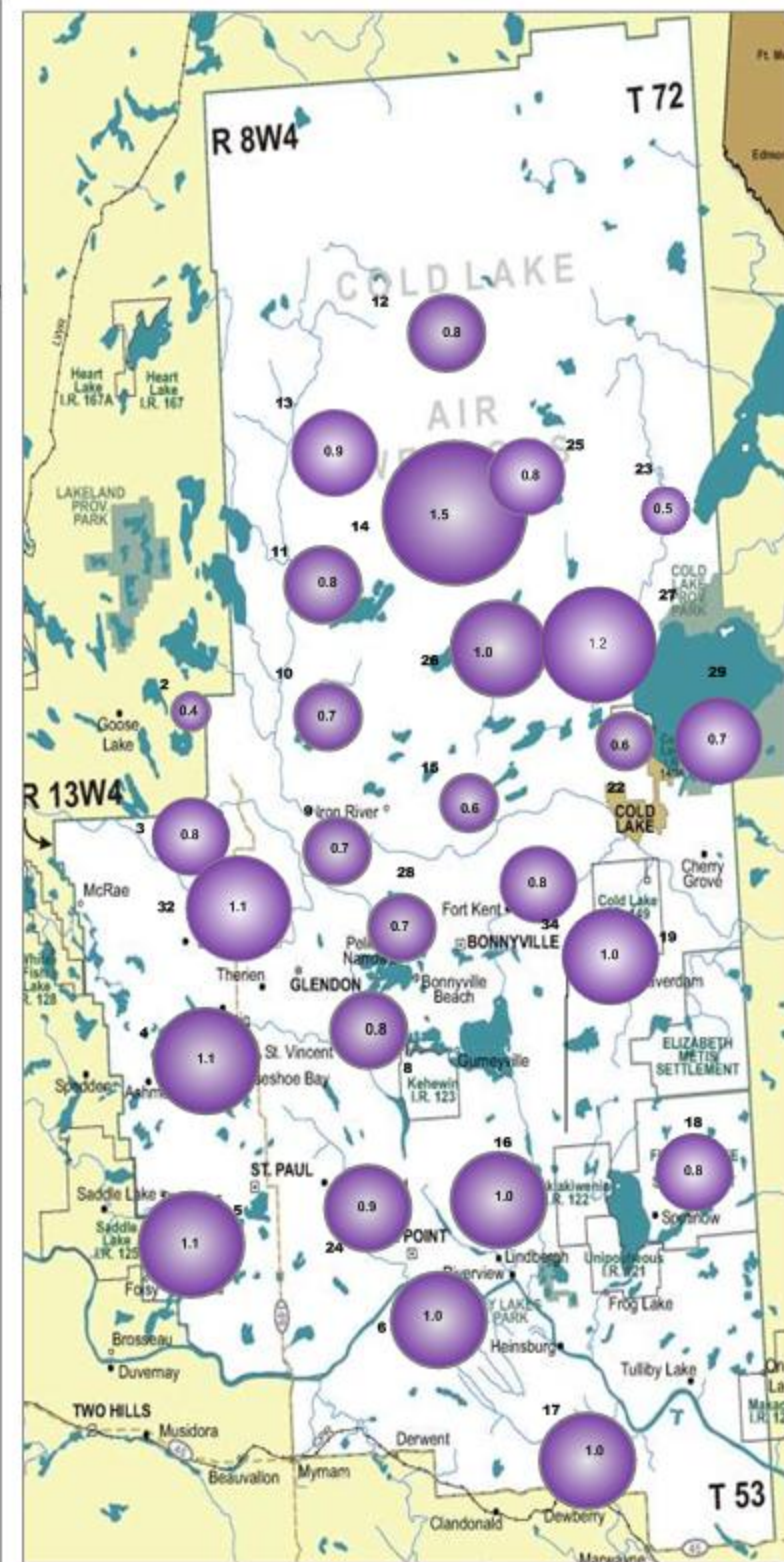
PASSIVE STATIONS

		DUPLICATE
2 – Sand River	0.4 PPB	0.4 PPB
3 – Therien	0.8 PPB	NA
4 – Flat Lake	1.1 PPB	1.1 PPB
5 – Lake Eliza	1.1 PPB	NA
6 – Telegraph Creek	1.0 PPB	1.0 PPB
8 – Muriel-Kehewin	0.8 PPB	NA
9 – Dupre	0.7 PPB	0.7 PPB
10 – La Corey	0.7 PPB	NA
11 – Wolf Lake	0.7 PPB	0.8 PPB
12 – Foster Creek	0.8 PPB	NA
13 – Primrose	0.8 PPB	1.0 PPB
14 – Maskwa	1.5 PPB	NA
15 – Ardmore	0.6 PPB	0.6 PPB
16 – Frog Lake	1.0 PPB	NA
17 – Clear Range	1.0 PPB	1.0 PPB
18 – Fishing Lake	0.8 PPB	NA
19 – Beaverdam	1.0 PPB	0.9 PPB
22 – Cold Lake South	0.6 PPB	NA
23 – Medley-Martineau	0.5 PPB	NA
24 – Fort George	0.9 PPB	0.8 PPB
25 – Burnt Lake	0.8 PPB	NA
26 – Mahikan	1.0 PPB	0.9 PPB
27 – Mahkeses	1.2 PPB	NA
28 – Town of Bonnyville	0.6 PPB	0.7 PPB
29 – Cold Lake South 2	0.7 PPB	NA
32 – St. Lina	1.1 PPB	NA
34 – Portable	0.8 PPB	NA



Summary

Minimum : 0.4 PPB – Sand River
 Maximum: 1.5 PPB –Maskwa
 Average: 0.9 PPB *Includes Duplicates



Passive Field Data

Field Notes

ID	SAMPLER	START		END		NOTES
		DATE	TIME	DATE	TIME	
2	SO ₂ /NO ₂ /O ₃	01/28/10	10:50	03/01/10	11:10	
2A (Dup)	SO ₂ /NO ₂ /O ₃	01/28/10	10:50	03/01/10	11:10	
3	H ₂ S/SO ₂ /NO ₂ /O ₃	01/28/10	10:15	03/01/10	10:30	
3A (Dup)	SO ₂ /NO ₂ /O ₃	01/28/10	10:15	03/01/10	10:30	
4	SO ₂ /NO ₂ /O ₃	01/29/10	15:45	03/02/10	16:45	
4A (Dup)	SO ₂ /NO ₂ /O ₃	01/29/10	15:45	03/02/10	16:45	
5	H ₂ S/SO ₂ /NO ₂ /O ₃	01/29/10	15:00	03/02/10	16:05	
5A (Dup)	NA	NA	NA	NA	NA	
6	SO ₂ /NO ₂ /O ₃	01/29/10	13:35	03/02/10	14:45	
6A (Dup)	SO ₂ /NO ₂ /O ₃	01/29/10	13:35	03/02/10	14:45	
8	SO ₂ /NO ₂ /O ₃	01/29/10	16:35	03/02/10	17:40	
8A (Dup)	NA	NA	NA	NA	NA	
9	SO ₂ /NO ₂ /O ₃	01/28/10	08:40	03/01/10	09:05	
9A (Dup)	SO ₂ /NO ₂ /O ₃	01/28/10	08:40	03/01/10	09:05	
10	H ₂ S/SO ₂ /NO ₂ /O ₃	01/28/10	12:00	03/01/10	12:10	
10A (Dup)	NA	NA	NA	NA	NA	
11	H ₂ S/SO ₂ /NO ₂ /O ₃	01/28/10	12:40	03/01/10	12:50	
11A (Dup)	H ₂ S/SO ₂ /NO ₂ /O ₃	01/28/10	12:40	03/01/10	12:50	
12	H ₂ S/SO ₂ /NO ₂ /O ₃	01/28/10	14:00	03/01/10	14:05	
12A (Dup)	NA	NA	NA	NA	NA	
13	H ₂ S/SO ₂ /NO ₂ /O ₃	01/28/10	15:40	03/01/10	15:50	
13A (Dup)	H ₂ S/SO ₂ /NO ₂ /O ₃	01/28/10	15:40	03/01/10	15:50	
14	H ₂ S/SO ₂ /NO ₂ /O ₃	01/28/10	16:50	03/01/10	16:50	
14A (Dup)	NA	NA	NA	NA	NA	
15	SO ₂ /NO ₂ /O ₃	01/28/10	07:35	03/01/10	08:05	
15A (Dup)	SO ₂ /NO ₂ /O ₃	01/28/10	07:35	03/01/10	08:05	
16	H ₂ S/SO ₂ /NO ₂ /O ₃	01/29/10	11:45	03/02/10	13:05	
16A (Dup)	H ₂ S	01/29/10	11:45	03/02/10	13:05	

ID	SAMPLER	START		END		NOTES
		DATE	TIME	DATE	TIME	
17	H ₂ S/SO ₂ /NO ₂ /O ₃	01/29/10	12:40	03/02/10	13:55	
17A (Dup)	SO ₂ /NO ₂ /O ₃	01/29/10	12:40	03/02/10	13:55	
18	H ₂ S/SO ₂ /NO ₂ /O ₃	01/29/10	11:05	03/02/10	12:25	
18A (Dup)	H ₂ S	01/29/10	11:05	03/02/10	12:25	
19	SO ₂ /NO ₂ /O ₃	01/29/10	10:05	03/02/10	11:20	
19A (Dup)	SO ₂ /NO ₂ /O ₃	01/29/10	10:05	03/02/10	11:20	
22	H ₂ S/SO ₂ /NO ₂ /O ₃	01/29/10	07:25	03/02/10	08:20	
22A (Dup)	NA	NA	NA	NA	NA	
23	SO ₂ /NO ₂ /O ₃	01/28/10	18:10	03/01/10	18:10	
23A (Dup)	NA	NA	NA	NA	NA	
24	H ₂ S/SO ₂ /NO ₂ /O ₃	01/29/10	14:05	03/02/10	15:15	
24A (Dup)	SO ₂ /NO ₂ /O ₃	01/29/10	14:05	03/02/10	15:15	
25	H ₂ S/SO ₂	01/28/10	15:20	03/01/10	15:30	
25A (Dup)	H ₂ S	01/28/10	15:20	03/01/10	15:30	
26	H ₂ S/SO ₂	01/28/10	16:15	03/01/10	16:20	
26A (Dup)	SO ₂	01/28/10	16:15	03/01/10	16:20	
27	H ₂ S/SO ₂	01/28/10	17:10	03/01/10	17:15	
27A (Dup)	H ₂ S	01/28/10	17:10	03/01/10	17:15	
28	SO ₂ /NO ₂ /O ₃	01/28/10	08:05	03/01/10	08:35	
28A (Dup)	SO ₂	01/28/10	08:05	03/01/10	08:35	
29	H ₂ S/SO ₂ /NO ₂ /O ₃	01/29/10	07:35	03/02/10	08:30	
29A (Dup)	NO ₂ /O ₃	01/29/10	07:35	03/02/10	08:30	
32	H ₂ S/SO ₂ /NO ₂ /O ₃	01/28/10	09:40	03/01/10	10:00	
32A (Dup)	NA	NA	NA	NA	NA	
34	H ₂ S/SO ₂ /NO ₂ /O ₃	01/29/10	08:50	03/02/10	10:25	
34A (Dup)	NA	NA	NA	NA	NA	

Passive Network Laboratory Analysis



Your Project #: 2010/01/28 - 2010/03/01
Site:LICA

Attention: MICHAEL BISAGA

LAKELAND INDUSTRY AND COMMUNITY ASSOCIATION
PO BOX 8237
5107W- 50TH STREET
BONNYVILLE, AB
CANADA T9N 2J5

Report Date: 2010/03/24

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B012391

Received: 2010/03/04, 11:03

Sample Matrix: Air
Samples Received: 45

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
H2S Passive Analysis (1)	24	2010/03/23	2010/03/23	EINDSOP-00150	Tang.Passive H2S in
H2S Passive Analysis (1)	1	2010/03/23	2010/03/24	EINDSOP-00150	Tang.Passive H2S in
NO2 Passive Analysis (1)	35	2010/03/16	2010/03/23	EINDSOP-00148	Tang Passive NO2 in
O3 Passive Analysis (1)	35	2010/03/18	2010/03/23	EINDSOP-00197	EPA 300 R2.1
SO2 Passive Analysis (1)	18	2010/03/19	2010/03/23	EINDSOP-00149	Tang Passive SO2 in
SO2 Passive Analysis (1)	21	2010/03/22	2010/03/23	EINDSOP-00149	Tang Passive SO2 in

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

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

Encryption Key

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

LEVI MANCHAK,
Email:
Phone# (780) 378-8500

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

RESULTS OF CHEMICAL ANALYSES OF AIR

Maxxam ID		T06411	T06412	T06413	T06414	T06415	T06416		
Sampling Date		2010/01/28 10:50	2010/01/28 10:50	2010/01/28 10:15	2010/01/28 10:15	2010/01/29 15:45	2010/01/29 15:45		
	Units	2	2A (DUP)	3	3A (DUP)	4	4A (DUP)	RDL	QC Batch

Passive Monitoring									
Calculated H2S	ppb			0.21	0.19			0.02	3833934
Calculated NO2	ppb	1.6	1.9	2.0		1.7	1.8	0.1	3815998
Calculated O3	ppb	29.9	28.3	35.2		41.4	40.6	0.1	3822783
Calculated SO2	ppb	0.4	0.4	0.8		1.1	1.1	0.1	3824803

RDL = Reportable Detection Limit

Maxxam ID		T06417	T06418	T06419	T06420	T06421	T06422		
Sampling Date		2010/01/29 15:00	2010/01/29 13:35	2010/01/29 13:35	2010/01/29 16:35	2010/01/28 08:40	2010/01/28 08:40		
	Units	5	6	6A (DUP)	8	9	9A (DUP)	RDL	QC Batch

Passive Monitoring									
Calculated H2S	ppb	0.38						0.02	3833934
Calculated NO2	ppb	1.7	2.6	3.2	1.1	2.2	1.9	0.1	3815998
Calculated O3	ppb	34.0	39.4	37.0	38.7	38.2	40.3	0.1	3822783
Calculated SO2	ppb	1.1	1.0	1.0	0.8	0.7	0.7	0.1	3824803

RDL = Reportable Detection Limit

Maxxam ID		T06423	T06424	T06425	T06426	T06427	T06428		
Sampling Date		2010/01/28 12:00	2010/01/28 12:40	2010/01/28 12:40	2010/01/28 14:00	2010/01/28 15:40	2010/01/28 15:40		
	Units	10	11	11A (DUP)	12	13	13A (DUP)	RDL	QC Batch

Passive Monitoring									
Calculated H2S	ppb	0.22	0.16	0.15	0.15	0.15	0.14	0.02	3833934
Calculated NO2	ppb	3.8	0.9	1.1	2.8	1.1	1.2	0.1	3815998
Calculated O3	ppb	30.4	32.3	30.6	31.1	39.0	35.8	0.1	3822783
Calculated SO2	ppb	0.7	0.7	0.8	0.8	0.8	1.0	0.1	3824803

RDL = Reportable Detection Limit

RESULTS OF CHEMICAL ANALYSES OF AIR

Maxxam ID		T06429		T06430	T06431		T06432		
Sampling Date		2010/01/28		2010/01/28	2010/01/28		2010/01/29		
		16:50		07:35	07:35		11:45		
	Units	14	QC Batch	15	15A (DUP)	QC Batch	16	RDL	QC Batch

Passive Monitoring									
Calculated H2S	ppb	0.20	3833934			3833934	0.24	0.02	3833934
Calculated NO2	ppb	2.4	3815998	2.2	2.1	3816037	2.5	0.1	3816037
Calculated O3	ppb	32.9	3822783	31.9	33.8	3822783	36.9	0.1	3822785
Calculated SO2	ppb	1.5	3824803	0.6	0.6	3829808	1.0	0.1	3829808
RDL = Reportable Detection Limit									

Maxxam ID		T06434	T06435	T06436	T06437	T06438	T06440		
Sampling Date		2010/01/29	2010/01/29	2010/01/29	2010/01/29	2010/01/29	2010/01/29		
		12:40	12:40	11:05	11:05	10:05	10:05		
	Units	17	17A (DUP)	18	18A (DUP)	19	19A (DUP)	RDL	QC Batch

Passive Monitoring									
Calculated H2S	ppb	0.27		0.21	0.18			0.02	3833934
Calculated NO2	ppb	2.9	2.9	1.9		1.3	1.5	0.1	3816037
Calculated O3	ppb	39.9	39.4	32.7		36.6	38.4	0.1	3822785
Calculated SO2	ppb	1.0	1.0	0.8		1.0	0.9	0.1	3829808
RDL = Reportable Detection Limit									

Maxxam ID		T06441	T06442	T06443	T06444	T06445	T06446		
Sampling Date		2010/01/29	2010/01/28	2010/01/29	2010/01/29	2010/01/28	2010/01/28		
		07:25	18:10	14:05	14:05	15:20	15:20		
	Units	22	23	24	24A (DUP)	25	25A (DUP)	RDL	QC Batch

Passive Monitoring									
Calculated H2S	ppb	0.18		0.22		0.13	0.15	0.02	3833934
Calculated NO2	ppb	2.7	0.7	2.7	2.6			0.1	3816037
Calculated O3	ppb	30.4	31.9	39.3	37.6			0.1	3822785
Calculated SO2	ppb	0.6	0.5	0.9	0.8	0.8		0.1	3829808
RDL = Reportable Detection Limit									

RESULTS OF CHEMICAL ANALYSES OF AIR

Maxxam ID		T06447	T06448	T06449	T06450	T06451	T06452		
Sampling Date		2010/01/28 16:15	2010/01/28 16:15	2010/01/28 17:10	2010/01/28 17:10	2010/01/28 08:05	2010/01/28 08:05		
	Units	26	26A (DUP)	27	27A (DUP)	28	28A (DUP)	RDL	QC Batch

Passive Monitoring									
Calculated H2S	ppb	0.20		0.18	0.17			0.02	3833934
Calculated NO2	ppb					9.6		0.1	3816037
Calculated O3	ppb					27.1		0.1	3822785
Calculated SO2	ppb	1.0	0.9	1.2		0.6	0.7	0.1	3829808

RDL = Reportable Detection Limit

Maxxam ID		T06453	T06454	T06674	T06675		
Sampling Date		2010/01/29 07:35	2010/01/29 07:35	2010/01/28 09:40	2010/01/29 08:50		
	Units	29	29A (DUP)	32	34	RDL	QC Batch

Passive Monitoring							
Calculated H2S	ppb	0.14		0.19	0.21	0.02	3833934
Calculated NO2	ppb	3.3	3.8	1.4	2.9	0.1	3816037
Calculated O3	ppb	27.9	27.8	39.0	32.4	0.1	3822785
Calculated SO2	ppb	0.7		1.1	0.8	0.1	3829808

RDL = Reportable Detection Limit

Maxxam ID		T32399		
Sampling Date		2010/01/29 08:50		
	Units	16A	RDL	QC Batch

Passive Monitoring				
Calculated H2S	ppb	0.23	0.02	3833934

RDL = Reportable Detection Limit



Maxxam Job #: B012391
Report Date: 2010/03/24

LAKELAND INDUSTRY AND COMMUNITY ASSOCIATION
Client Project #: 2010/01/28 - 2010/03/01
Site Reference: LICA
Sampler Initials: SB

General Comments

Results relate only to the items tested.

Quality Assurance Report
 Maxxam Job Number: PB012391

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
3815998 DF4	Calibration Check	Calculated NO2	2010/03/16		102	%	76 - 118
	Spiked Blank	Calculated NO2	2010/03/16		99	%	N/A
	Method Blank	Calculated NO2	2010/03/16	<0.1		ppb	
3816037 DF4	Calibration Check	Calculated NO2	2010/03/16		102	%	76 - 118
	Spiked Blank	Calculated NO2	2010/03/16		99	%	N/A
	Method Blank	Calculated NO2	2010/03/16	<0.1		ppb	
3822783 OZ	Calibration Check	Calculated O3	2010/03/19		103	%	91 - 107
	Spiked Blank	Calculated O3	2010/03/19		102	%	N/A
	Method Blank	Calculated O3	2010/03/19	<0.1		ppb	
3822785 OZ	Calibration Check	Calculated O3	2010/03/19		105	%	91 - 107
	Spiked Blank	Calculated O3	2010/03/19		100	%	N/A
	Method Blank	Calculated O3	2010/03/19	<0.1		ppb	
3824803 DF4	Calibration Check	Calculated SO2	2010/03/19		96	%	95 - 105
	Spiked Blank	Calculated SO2	2010/03/19		102	%	N/A
	Method Blank	Calculated SO2	2010/03/19	<0.1		ppb	
3829808 DF4	Calibration Check	Calculated SO2	2010/03/22		100	%	95 - 105
	Spiked Blank	Calculated SO2	2010/03/22		102	%	N/A
	Method Blank	Calculated SO2	2010/03/22	<0.1		ppb	
3833934 TM5	Calibration Check	Calculated H2S	2010/03/23		98	%	80 - 120
	Spiked Blank	Calculated H2S	2010/03/23		101	%	N/A

Calibration Check: A calibration standard analyzed at different times to evaluate on-going calibration accuracy.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Validation Signature Page

Maxxam Job #: B012391

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Volatile Organics Laboratory Analysis

Maxxam Analytics Inc.

Xontech Model 910A VOC Sample Collection Data Sheet

Client: LICA Sampler s/n: 6167
 Location: Cold Lake South Canister ID: 7867 (Maxxam Supplied)
 Station ID: Lica 1 Canister Installation Date/Time: Jan 29, 10 @ 07:05 mst
 Field Sample ID: LICA VOC/ CLS / Feb 1, 10 Canister Removal Date/Time: Feb 2, 10 @ 08:00 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
01-Feb-10	02/01/2010 0:00	02/02/2010 0:00	24.00

Flow Settings		
Meter Reading (sccm)	Pot Set Pt.	Pump Pressure Setting (psig)
10.0	590	25

Canister Information	
Initial Canister Vacuum (inHg)	Final Canister Pressure (psig)
-28	21

Canister valve open prior to sampling?: YES / NO
 Timer set to 0.00 minutes prior to sampling? YES / NO
 Canister valve closed prior to disconnection?: YES / NO

Comments: System leak check prior to sampling. COC # 1651

Technician Signiture: Shea Beaton



Your C.O.C. #: n/a

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/02/09

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B013648

Received: 2010/02/04, 12:07

Sample Matrix: AIR
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Canister Pressure (TO-15)	2	N/A	2010/02/05	BRL SOP-00304	EPA TO-15
Volatile Organics in Air (TO-15) ¶	2	N/A	2010/02/05	BRL SOP-00304	EPA TO-15

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO14A. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO14A on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Maxxam for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

=====
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Total cover pages: 1

Maxxam Job #: B013648
 Report Date: 2010/02/09

RESULTS OF ANALYSES OF AIR

Maxxam ID		FA0312	FA0313		
Sampling Date		2010/02/01	2010/02/01		
COC Number		n/a	n/a		
	Units	LICA VOC/PORT/FEB1,10 - 7851	LICA VOC/CLS/FEB1,10 - 7867	DL	QC Batch

Volatile Organics					
Pressure on Receipt	psig	20	19	N/A	2073960

N/A = Not Applicable
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B013648
 Report Date: 2010/02/09

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FA0312				
Sampling Date		2010/02/01				
COC Number		n/a				
	Units	LICA VOC/PORT/FEB1,10 - 7851	DL	ug/m3	DL (ug/m3)	QC Batch

Volatile Organics						
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.934	0.934	2073961
Carbon Disulfide	ppbv	<0.50	0.50	<1.56	1.56	2073961
Propene	ppbv	<0.30	0.30	<0.516	0.516	2073961
Vinyl Acetate	ppbv	<0.20	0.20	<0.704	0.704	2073961
Vinyl Bromide	ppbv	<0.20	0.20	<0.875	0.875	2073961
Dichlorodifluoromethane (FREON 12)	ppbv	0.77	0.20	3.83	0.989	2073961
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<1.19	1.19	2073961
Chloromethane	ppbv	0.66	0.30	1.36	0.620	2073961
Vinyl Chloride	ppbv	<0.18	0.18	<0.460	0.460	2073961
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	2073961
1,3-Butadiene	ppbv	<0.50	0.50	<1.11	1.11	2073961
Trichlorofluoromethane (FREON 11)	ppbv	0.36	0.20	2.00	1.12	2073961
Trichlorotrifluoroethane	ppbv	<0.15	0.15	<1.15	1.15	2073961
Ethanol	ppbv	<2.3	2.3	<4.33	4.33	2073961
2-propanol	ppbv	<3.0	3.0	<7.37	7.37	2073961
2-Propanone	ppbv	2.10	0.80	4.98	1.90	2073961
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	3.0	<8.85	8.85	2073961
Methyl Isobutyl Ketone	ppbv	<3.2	3.2	<13.1	13.1	2073961
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	2.0	<8.19	8.19	2073961
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.721	0.721	2073961
Ethyl Acetate	ppbv	<2.2	2.2	<7.93	7.93	2073961
1,1-Dichloroethylene	ppbv	<0.25	0.25	<0.991	0.991	2073961
cis-1,2-Dichloroethylene	ppbv	<0.19	0.19	<0.753	0.753	2073961
trans-1,2-Dichloroethylene	ppbv	<0.20	0.20	<0.793	0.793	2073961
Methylene Chloride(Dichloromethane)	ppbv	0.54	0.30	1.86	1.04	2073961
Chloroform	ppbv	<0.15	0.15	<0.732	0.732	2073961
Carbon Tetrachloride	ppbv	<0.30	0.30	<1.89	1.89	2073961
1,1-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2073961
1,2-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2073961
Ethylene Dibromide	ppbv	<0.17	0.17	<1.31	1.31	2073961

N/A = Not Applicable
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B013648
 Report Date: 2010/02/09

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FA0312				
Sampling Date		2010/02/01				
COC Number		n/a				
	Units	LICA VOC/PORT/FEB1,10 - 7851	DL	ug/m3	DL (ug/m3)	QC Batch
1,1,1-Trichloroethane	ppbv	<0.30	0.30	<1.64	1.64	2073961
1,1,2-Trichloroethane	ppbv	<0.15	0.15	<0.818	0.818	2073961
1,1,2,2-Tetrachloroethane	ppbv	<0.20	0.20	<1.37	1.37	2073961
cis-1,3-Dichloropropene	ppbv	<0.18	0.18	<0.817	0.817	2073961
trans-1,3-Dichloropropene	ppbv	<0.17	0.17	<0.772	0.772	2073961
1,2-Dichloropropane	ppbv	<0.40	0.40	<1.85	1.85	2073961
Bromomethane	ppbv	<0.18	0.18	<0.699	0.699	2073961
Bromoform	ppbv	<0.20	0.20	<2.07	2.07	2073961
Bromodichloromethane	ppbv	<0.20	0.20	<1.34	1.34	2073961
Dibromochloromethane	ppbv	<0.20	0.20	<1.70	1.70	2073961
Heptane	ppbv	<0.30	0.30	<1.23	1.23	2073961
Trichloroethylene	ppbv	<0.30	0.30	<1.61	1.61	2073961
Tetrachloroethylene	ppbv	<0.20	0.20	<1.36	1.36	2073961
Benzene	ppbv	0.19	0.18	0.623	0.575	2073961
Toluene	ppbv	<0.20	0.20	<0.753	0.753	2073961
Ethylbenzene	ppbv	<0.20	0.20	<0.868	0.868	2073961
p+m-Xylene	ppbv	<0.37	0.37	<1.61	1.61	2073961
o-Xylene	ppbv	<0.20	0.20	<0.868	0.868	2073961
Styrene	ppbv	<0.20	0.20	<0.852	0.852	2073961
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2073961
1,2,4-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2073961
4-ethyltoluene	ppbv	<2.2	2.2	<10.8	10.8	2073961
Chlorobenzene	ppbv	<0.20	0.20	<0.921	0.921	2073961
Benzyl chloride	ppbv	<1.0	1.0	<5.18	5.18	2073961
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2073961
1,4-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2073961
1,2-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2073961
1,2,4-Trichlorobenzene	ppbv	<2.0	2.0	<14.8	14.8	2073961
Hexachlorobutadiene	ppbv	<3.0	3.0	<32.0	32.0	2073961
Hexane	ppbv	<0.30	0.30	<1.06	1.06	2073961
Cyclohexane	ppbv	<0.20	0.20	<0.688	0.688	2073961
Tetrahydrofuran	ppbv	<0.40	0.40	<1.18	1.18	2073961
N/A = Not Applicable QC Batch = Quality Control Batch						

Maxxam Job #: B013648
 Report Date: 2010/02/09

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FA0312				
Sampling Date		2010/02/01				
COC Number		n/a				
	Units	LICA	DL	ug/m3	DL (ug/m3)	QC Batch
		VOC/PORT/FEB1,10				
		- 7851				

1,4-Dioxane	ppbv	<2.0	2.0	<7.21	7.21	2073961
Xylene (Total)	ppbv	<0.60	0.60	<2.61	2.61	2073961
Surrogate Recovery (%)						
Bromochloromethane	%	82		N/A	N/A	2073961
D5-Chlorobenzene	%	82		N/A	N/A	2073961
Difluorobenzene	%	84		N/A	N/A	2073961

N/A = Not Applicable
 QC Batch = Quality Control Batch

Maxxam Job #: B013648
 Report Date: 2010/02/09

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FA0313				
Sampling Date		2010/02/01				
COC Number		n/a				
	Units	LICA VOC/CLS/FEB1,10 - 7867	DL	ug/m3	DL (ug/m3)	QC Batch

Volatile Organics						
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.934	0.934	2073961
Carbon Disulfide	ppbv	<0.50	0.50	<1.56	1.56	2073961
Propene	ppbv	<0.30	0.30	<0.516	0.516	2073961
Vinyl Acetate	ppbv	<0.20	0.20	<0.704	0.704	2073961
Vinyl Bromide	ppbv	<0.20	0.20	<0.875	0.875	2073961
Dichlorodifluoromethane (FREON 12)	ppbv	0.75	0.20	3.71	0.989	2073961
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<1.19	1.19	2073961
Chloromethane	ppbv	0.64	0.30	1.32	0.620	2073961
Vinyl Chloride	ppbv	<0.18	0.18	<0.460	0.460	2073961
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	2073961
1,3-Butadiene	ppbv	<0.50	0.50	<1.11	1.11	2073961
Trichlorofluoromethane (FREON 11)	ppbv	0.35	0.20	1.95	1.12	2073961
Trichlorotrifluoroethane	ppbv	<0.15	0.15	<1.15	1.15	2073961
Ethanol	ppbv	<2.3	2.3	<4.33	4.33	2073961
2-propanol	ppbv	<3.0	3.0	<7.37	7.37	2073961
2-Propanone	ppbv	1.53	0.80	3.63	1.90	2073961
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	3.0	<8.85	8.85	2073961
Methyl Isobutyl Ketone	ppbv	<3.2	3.2	<13.1	13.1	2073961
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	2.0	<8.19	8.19	2073961
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.721	0.721	2073961
Ethyl Acetate	ppbv	<2.2	2.2	<7.93	7.93	2073961
1,1-Dichloroethylene	ppbv	<0.25	0.25	<0.991	0.991	2073961
cis-1,2-Dichloroethylene	ppbv	<0.19	0.19	<0.753	0.753	2073961
trans-1,2-Dichloroethylene	ppbv	<0.20	0.20	<0.793	0.793	2073961
Methylene Chloride(Dichloromethane)	ppbv	0.54	0.30	1.87	1.04	2073961
Chloroform	ppbv	<0.15	0.15	<0.732	0.732	2073961
Carbon Tetrachloride	ppbv	<0.30	0.30	<1.89	1.89	2073961
1,1-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2073961
1,2-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2073961
Ethylene Dibromide	ppbv	<0.17	0.17	<1.31	1.31	2073961

N/A = Not Applicable
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B013648
 Report Date: 2010/02/09

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FA0313				
Sampling Date		2010/02/01				
COC Number		n/a				
	Units	LICA VOC/CLS/FEB1,10 - 7867	DL	ug/m3	DL (ug/m3)	QC Batch
1,1,1-Trichloroethane	ppbv	<0.30	0.30	<1.64	1.64	2073961
1,1,2-Trichloroethane	ppbv	<0.15	0.15	<0.818	0.818	2073961
1,1,2,2-Tetrachloroethane	ppbv	<0.20	0.20	<1.37	1.37	2073961
cis-1,3-Dichloropropene	ppbv	<0.18	0.18	<0.817	0.817	2073961
trans-1,3-Dichloropropene	ppbv	<0.17	0.17	<0.772	0.772	2073961
1,2-Dichloropropane	ppbv	<0.40	0.40	<1.85	1.85	2073961
Bromomethane	ppbv	<0.18	0.18	<0.699	0.699	2073961
Bromoform	ppbv	<0.20	0.20	<2.07	2.07	2073961
Bromodichloromethane	ppbv	<0.20	0.20	<1.34	1.34	2073961
Dibromochloromethane	ppbv	<0.20	0.20	<1.70	1.70	2073961
Heptane	ppbv	<0.30	0.30	<1.23	1.23	2073961
Trichloroethylene	ppbv	<0.30	0.30	<1.61	1.61	2073961
Tetrachloroethylene	ppbv	<0.20	0.20	<1.36	1.36	2073961
Benzene	ppbv	0.27	0.18	0.856	0.575	2073961
Toluene	ppbv	0.22	0.20	0.830	0.753	2073961
Ethylbenzene	ppbv	<0.20	0.20	<0.868	0.868	2073961
p+m-Xylene	ppbv	<0.37	0.37	<1.61	1.61	2073961
o-Xylene	ppbv	<0.20	0.20	<0.868	0.868	2073961
Styrene	ppbv	<0.20	0.20	<0.852	0.852	2073961
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2073961
1,2,4-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2073961
4-ethyltoluene	ppbv	<2.2	2.2	<10.8	10.8	2073961
Chlorobenzene	ppbv	<0.20	0.20	<0.921	0.921	2073961
Benzyl chloride	ppbv	<1.0	1.0	<5.18	5.18	2073961
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2073961
1,4-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2073961
1,2-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2073961
1,2,4-Trichlorobenzene	ppbv	<2.0	2.0	<14.8	14.8	2073961
Hexachlorobutadiene	ppbv	<3.0	3.0	<32.0	32.0	2073961
Hexane	ppbv	<0.30	0.30	<1.06	1.06	2073961
Cyclohexane	ppbv	<0.20	0.20	<0.688	0.688	2073961
Tetrahydrofuran	ppbv	<0.40	0.40	<1.18	1.18	2073961
N/A = Not Applicable QC Batch = Quality Control Batch						

Maxxam Job #: B013648
 Report Date: 2010/02/09

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FA0313				
Sampling Date		2010/02/01				
COC Number		n/a				
	Units	LICA VOC/CLS/FEB1,10 - 7867	DL	ug/m3	DL (ug/m3)	QC Batch
1,4-Dioxane	ppbv	<2.0	2.0	<7.21	7.21	2073961
Xylene (Total)	ppbv	<0.60	0.60	<2.61	2.61	2073961
Surrogate Recovery (%)						
Bromochloromethane	%	87		N/A	N/A	2073961
D5-Chlorobenzene	%	86		N/A	N/A	2073961
Difluorobenzene	%	89		N/A	N/A	2073961
N/A = Not Applicable QC Batch = Quality Control Batch						

Maxxam Job #: B013648
 Report Date: 2010/02/09

Test Summary

Maxxam ID FA0312 **Collected** 2010/02/01
Sample ID LICA VOC/PORT/FEB1,10 - 7851 **Shipped**
Matrix AIR **Received** 2010/02/04

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2073960	N/A	2010/02/05	LSY
Volatile Organics in Air (TO-15)	GC/MS	2073961	N/A	2010/02/05	LSY

Maxxam ID FA0313 **Collected** 2010/02/01
Sample ID LICA VOC/CLS/FEB1,10 - 7867 **Shipped**
Matrix AIR **Received** 2010/02/04

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2073960	N/A	2010/02/05	LSY
Volatile Organics in Air (TO-15)	GC/MS	2073961	N/A	2010/02/05	LSY

Maxxam Job #: B013648
Report Date: 2010/02/09

GENERAL COMMENTS

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report

Maxxam Job Number: GB013648

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2073961 LSY	Spiked Blank	Bromochloromethane	2010/02/05		105	%	60 - 140
		D5-Chlorobenzene	2010/02/05		107	%	60 - 140
		Difluorobenzene	2010/02/05		107	%	60 - 140
		2,2,4-Trimethylpentane	2010/02/05		105	%	70 - 130
		Carbon Disulfide	2010/02/05		98	%	70 - 130
		Propene	2010/02/05		105	%	70 - 130
		Vinyl Acetate	2010/02/05		116	%	70 - 130
		Vinyl Bromide	2010/02/05		98	%	70 - 130
		Dichlorodifluoromethane (FREON 12)	2010/02/05		98	%	70 - 130
		1,2-Dichlorotetrafluoroethane	2010/02/05		84	%	70 - 130
		Chloromethane	2010/02/05		95	%	70 - 130
		Vinyl Chloride	2010/02/05		99	%	70 - 130
		Chloroethane	2010/02/05		99	%	70 - 130
		1,3-Butadiene	2010/02/05		90	%	70 - 130
		Trichlorofluoromethane (FREON 11)	2010/02/05		99	%	70 - 130
		Trichlorotrifluoroethane	2010/02/05		95	%	70 - 130
		Ethanol	2010/02/05		80	%	70 - 130
		2-propanol	2010/02/05		100	%	70 - 130
		2-Propanone	2010/02/05		90	%	70 - 130
		Methyl Ethyl Ketone (2-Butanone)	2010/02/05		108	%	70 - 130
		Methyl Isobutyl Ketone	2010/02/05		104	%	70 - 130
		Methyl Butyl Ketone (2-Hexanone)	2010/02/05		106	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/02/05		109	%	70 - 130
		Ethyl Acetate	2010/02/05		105	%	70 - 130
		1,1-Dichloroethylene	2010/02/05		103	%	70 - 130
		cis-1,2-Dichloroethylene	2010/02/05		102	%	70 - 130
		trans-1,2-Dichloroethylene	2010/02/05		105	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/02/05		91	%	70 - 130
		Chloroform	2010/02/05		99	%	70 - 130
		Carbon Tetrachloride	2010/02/05		101	%	70 - 130
		1,1-Dichloroethane	2010/02/05		100	%	70 - 130
		1,2-Dichloroethane	2010/02/05		101	%	70 - 130
		Ethylene Dibromide	2010/02/05		93	%	70 - 130
		1,1,1-Trichloroethane	2010/02/05		100	%	70 - 130
		1,1,2-Trichloroethane	2010/02/05		95	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/02/05		92	%	70 - 130
		cis-1,3-Dichloropropene	2010/02/05		106	%	70 - 130
		trans-1,3-Dichloropropene	2010/02/05		108	%	70 - 130
		1,2-Dichloropropane	2010/02/05		97	%	70 - 130
		Bromomethane	2010/02/05		91	%	70 - 130
		Bromoform	2010/02/05		101	%	70 - 130
		Bromodichloromethane	2010/02/05		104	%	70 - 130
		Dibromochloromethane	2010/02/05		100	%	70 - 130
		Heptane	2010/02/05		106	%	70 - 130
		Trichloroethylene	2010/02/05		91	%	70 - 130
		Tetrachloroethylene	2010/02/05		91	%	70 - 130
		Benzene	2010/02/05		96	%	70 - 130
		Toluene	2010/02/05		98	%	70 - 130
		Ethylbenzene	2010/02/05		98	%	70 - 130
		p+m-Xylene	2010/02/05		98	%	70 - 130
		o-Xylene	2010/02/05		99	%	70 - 130
		Styrene	2010/02/05		86	%	70 - 130
		1,3,5-Trimethylbenzene	2010/02/05		90	%	70 - 130
		1,2,4-Trimethylbenzene	2010/02/05		91	%	70 - 130
		4-ethyltoluene	2010/02/05		97	%	70 - 130

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB013648

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2073961 LSY	Spiked Blank	Chlorobenzene	2010/02/05		91	%	70 - 130
		Benzyl chloride	2010/02/05		107	%	70 - 130
		1,3-Dichlorobenzene	2010/02/05		90	%	70 - 130
		1,4-Dichlorobenzene	2010/02/05		89	%	70 - 130
		1,2-Dichlorobenzene	2010/02/05		86	%	70 - 130
		1,2,4-Trichlorobenzene	2010/02/05		124	%	70 - 130
		Hexachlorobutadiene	2010/02/05		104	%	70 - 130
		Hexane	2010/02/05		100	%	70 - 130
		Cyclohexane	2010/02/05		105	%	70 - 130
		Tetrahydrofuran	2010/02/05		109	%	70 - 130
		1,4-Dioxane	2010/02/05		92	%	70 - 130
	Method Blank	Bromochloromethane	2010/02/05		86	%	60 - 140
		D5-Chlorobenzene	2010/02/05		83	%	60 - 140
		Difluorobenzene	2010/02/05		87	%	60 - 140
		2,2,4-Trimethylpentane	2010/02/05	ND, RDL=0.20		ppbv	
		Carbon Disulfide	2010/02/05	ND, RDL=0.50		ppbv	
		Propene	2010/02/05	ND, RDL=0.30		ppbv	
		Vinyl Acetate	2010/02/05	ND, RDL=0.20		ppbv	
		Vinyl Bromide	2010/02/05	ND, RDL=0.20		ppbv	
		Dichlorodifluoromethane (FREON 12)	2010/02/05	ND, RDL=0.20		ppbv	
		1,2-Dichlorotetrafluoroethane	2010/02/05	ND, RDL=0.17		ppbv	
		Chloromethane	2010/02/05	ND, RDL=0.30		ppbv	
		Vinyl Chloride	2010/02/05	ND, RDL=0.18		ppbv	
		Chloroethane	2010/02/05	ND, RDL=0.30		ppbv	
		1,3-Butadiene	2010/02/05	ND, RDL=0.50		ppbv	
		Trichlorofluoromethane (FREON 11)	2010/02/05	ND, RDL=0.20		ppbv	
		Trichlorotrifluoroethane	2010/02/05	ND, RDL=0.15		ppbv	
		Ethanol	2010/02/05	ND, RDL=2.3		ppbv	
		2-propanol	2010/02/05	ND, RDL=3.0		ppbv	
		2-Propanone	2010/02/05	ND, RDL=0.80		ppbv	
		Methyl Ethyl Ketone (2-Butanone)	2010/02/05	ND, RDL=3.0		ppbv	
		Methyl Isobutyl Ketone	2010/02/05	ND, RDL=3.2		ppbv	
		Methyl Butyl Ketone (2-Hexanone)	2010/02/05	ND, RDL=2.0		ppbv	
		Methyl t-butyl ether (MTBE)	2010/02/05	ND, RDL=0.20		ppbv	
		Ethyl Acetate	2010/02/05	ND, RDL=2.2		ppbv	
		1,1-Dichloroethylene	2010/02/05	ND, RDL=0.25		ppbv	
		cis-1,2-Dichloroethylene	2010/02/05	ND, RDL=0.19		ppbv	
		trans-1,2-Dichloroethylene	2010/02/05	ND, RDL=0.20		ppbv	
		Methylene Chloride(Dichloromethane)	2010/02/05	0.43, RDL=0.30		ppbv	
		Chloroform	2010/02/05	ND, RDL=0.15		ppbv	
		Carbon Tetrachloride	2010/02/05	ND, RDL=0.30		ppbv	
		1,1-Dichloroethane	2010/02/05	ND, RDL=0.20		ppbv	
		1,2-Dichloroethane	2010/02/05	ND, RDL=0.20		ppbv	
		Ethylene Dibromide	2010/02/05	ND, RDL=0.17		ppbv	
		1,1,1-Trichloroethane	2010/02/05	ND, RDL=0.30		ppbv	
		1,1,2-Trichloroethane	2010/02/05	ND, RDL=0.15		ppbv	
		1,1,2,2-Tetrachloroethane	2010/02/05	ND, RDL=0.20		ppbv	
		cis-1,3-Dichloropropene	2010/02/05	ND, RDL=0.18		ppbv	
		trans-1,3-Dichloropropene	2010/02/05	ND, RDL=0.17		ppbv	
		1,2-Dichloropropane	2010/02/05	ND, RDL=0.40		ppbv	
		Bromomethane	2010/02/05	ND, RDL=0.18		ppbv	
		Bromoform	2010/02/05	ND, RDL=0.20		ppbv	
		Bromodichloromethane	2010/02/05	ND, RDL=0.20		ppbv	
		Dibromochloromethane	2010/02/05	ND, RDL=0.20		ppbv	
		Heptane	2010/02/05	ND, RDL=0.30		ppbv	

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB013648

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2073961 LSY	Method Blank	Trichloroethylene	2010/02/05	ND, RDL=0.30		ppbv	
		Tetrachloroethylene	2010/02/05	ND, RDL=0.20		ppbv	
		Benzene	2010/02/05	ND, RDL=0.18		ppbv	
		Toluene	2010/02/05	ND, RDL=0.20		ppbv	
		Ethylbenzene	2010/02/05	ND, RDL=0.20		ppbv	
		p+m-Xylene	2010/02/05	ND, RDL=0.37		ppbv	
		o-Xylene	2010/02/05	ND, RDL=0.20		ppbv	
		Styrene	2010/02/05	ND, RDL=0.20		ppbv	
		1,3,5-Trimethylbenzene	2010/02/05	ND, RDL=0.50		ppbv	
		1,2,4-Trimethylbenzene	2010/02/05	ND, RDL=0.50		ppbv	
		4-ethyltoluene	2010/02/05	ND, RDL=2.2		ppbv	
		Chlorobenzene	2010/02/05	ND, RDL=0.20		ppbv	
		Benzyl chloride	2010/02/05	ND, RDL=1.0		ppbv	
		1,3-Dichlorobenzene	2010/02/05	ND, RDL=0.40		ppbv	
		1,4-Dichlorobenzene	2010/02/05	ND, RDL=0.40		ppbv	
		1,2-Dichlorobenzene	2010/02/05	ND, RDL=0.40		ppbv	
		1,2,4-Trichlorobenzene	2010/02/05	ND, RDL=2.0		ppbv	
		Hexachlorobutadiene	2010/02/05	ND, RDL=3.0		ppbv	
		Hexane	2010/02/05	ND, RDL=0.30		ppbv	
		Cyclohexane	2010/02/05	ND, RDL=0.20		ppbv	
		Tetrahydrofuran	2010/02/05	ND, RDL=0.40		ppbv	
		1,4-Dioxane	2010/02/05	ND, RDL=2.0		ppbv	
		Xylene (Total)	2010/02/05	ND, RDL=0.60		ppbv	

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

Maxxam Analytics Inc.

Xontech Model 910A VOC Sample Collection Data Sheet

Client: LICA Sampler s/n: 6167
Location: Cold Lake South Canister ID: 7869 (Maxxam Supplied)
Station ID: Lica 1 Canister Installation Date/Time: Feb 5, 10 @ 08:15 mst
Field Sample ID: LICA VOC/ CLS / Feb 7, 10 Canister Removal Date/Time: Feb 8, 10 @ 08:50 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
07-Feb-10	02/07/2010 0:00	02/08/2010 0:00	24.00

Flow Settings		
Meter Reading (sccm)	Pot Set Pt.	Pump Pressure Setting (psig)
10.0	584	25

Canister Information	
Initial Canister Vacuum (inHg)	Final Canister Pressure (psig)
-28	21

Canister valve open prior to sampling?: YES / NO
Timer set to 0.00 minutes prior to sampling? YES / NO
Canister valve closed prior to disconnection?: YES / NO

Comments: System leak check prior to sampling. COC # 5351

Technician Signiture: Shea Beaton



Your C.O.C. #: 5351

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/01

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B017737

Received: 2010/02/13, 10:35

Sample Matrix: AIR
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Canister Pressure (TO-15)	2	N/A	2010/02/23	BRL SOP-00304	EPA TO-15
Volatile Organics in Air (TO-15) ¶	1	N/A	2010/02/23	BRL SOP-00304	EPA TO-15
Volatile Organics in Air (TO-15) ¶	1	N/A	2010/02/26	BRL SOP-00304	EPA TO-15

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO14A. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO14A on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Maxxam for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

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

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Total cover pages: 1

Maxxam Job #: B017737
 Report Date: 2010/03/01

RESULTS OF ANALYSES OF AIR

Maxxam ID		FB9298		FB9299		
Sampling Date		2010/02/07 00:00		2010/02/07 00:00		
COC Number		5351		5351		
	Units	LICA VOC/CLS/FEB7,10 - 7869	QC Batch	LICA VOC/PORT/FEB7,10 - 7912	RDL	QC Batch

Volatile Organics						
Pressure on Receipt	psig	19	2085985	20	N/A	2084689

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B017737
 Report Date: 2010/03/01

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FB9298				
Sampling Date		2010/02/07 00:00				
COC Number		5351				
	Units	LICA VOC/CLS/FEB7,10 - 7869	RDL	ug/m3	DL (ug/m3)	QC Batch

Volatile Organics						
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.934	0.934	2085984
Carbon Disulfide	ppbv	<0.50	0.50	<1.56	1.56	2085984
Propene	ppbv	<0.30	0.30	<0.516	0.516	2085984
Vinyl Acetate	ppbv	<0.20	0.20	<0.704	0.704	2085984
Vinyl Bromide	ppbv	<0.20	0.20	<0.875	0.875	2085984
Dichlorodifluoromethane (FREON 12)	ppbv	0.80	0.20	3.94	0.989	2085984
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<1.19	1.19	2085984
Chloromethane	ppbv	0.67	0.30	1.38	0.620	2085984
Vinyl Chloride	ppbv	<0.18	0.18	<0.460	0.460	2085984
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	2085984
1,3-Butadiene	ppbv	<0.50	0.50	<1.11	1.11	2085984
Trichlorofluoromethane (FREON 11)	ppbv	0.35	0.20	1.94	1.12	2085984
Trichlorotrifluoroethane	ppbv	<0.15	0.15	<1.15	1.15	2085984
Ethanol	ppbv	<2.3	2.3	<4.33	4.33	2085984
2-propanol	ppbv	<3.0	3.0	<7.37	7.37	2085984
2-Propanone	ppbv	1.77	0.80	4.21	1.90	2085984
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	3.0	<8.85	8.85	2085984
Methyl Isobutyl Ketone	ppbv	<3.2	3.2	<13.1	13.1	2085984
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	2.0	<8.19	8.19	2085984
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.721	0.721	2085984
Ethyl Acetate	ppbv	<2.2	2.2	<7.93	7.93	2085984
1,1-Dichloroethylene	ppbv	<0.25	0.25	<0.991	0.991	2085984
cis-1,2-Dichloroethylene	ppbv	<0.19	0.19	<0.753	0.753	2085984
trans-1,2-Dichloroethylene	ppbv	<0.20	0.20	<0.793	0.793	2085984
Methylene Chloride(Dichloromethane)	ppbv	0.52	0.30	1.82	1.04	2085984
Chloroform	ppbv	<0.15	0.15	<0.732	0.732	2085984
Carbon Tetrachloride	ppbv	<0.30	0.30	<1.89	1.89	2085984
1,1-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2085984
1,2-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2085984
Ethylene Dibromide	ppbv	<0.17	0.17	<1.31	1.31	2085984
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: B017737
 Report Date: 2010/03/01

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FB9298				
Sampling Date		2010/02/07 00:00				
COC Number		5351				
	Units	LICA VOC/CLS/FEB7,10 - 7869	RDL	ug/m3	DL (ug/m3)	QC Batch

1,1,1-Trichloroethane	ppbv	<0.30	0.30	<1.64	1.64	2085984
1,1,2-Trichloroethane	ppbv	<0.15	0.15	<0.818	0.818	2085984
1,1,2,2-Tetrachloroethane	ppbv	<0.20	0.20	<1.37	1.37	2085984
cis-1,3-Dichloropropene	ppbv	<0.18	0.18	<0.817	0.817	2085984
trans-1,3-Dichloropropene	ppbv	<0.17	0.17	<0.772	0.772	2085984
1,2-Dichloropropane	ppbv	<0.40	0.40	<1.85	1.85	2085984
Bromomethane	ppbv	<0.18	0.18	<0.699	0.699	2085984
Bromoform	ppbv	<0.20	0.20	<2.07	2.07	2085984
Bromodichloromethane	ppbv	<0.20	0.20	<1.34	1.34	2085984
Dibromochloromethane	ppbv	<0.20	0.20	<1.70	1.70	2085984
Heptane	ppbv	<0.30	0.30	<1.23	1.23	2085984
Trichloroethylene	ppbv	<0.30	0.30	<1.61	1.61	2085984
Tetrachloroethylene	ppbv	<0.20	0.20	<1.36	1.36	2085984
Benzene	ppbv	0.19	0.18	0.599	0.575	2085984
Toluene	ppbv	<0.20	0.20	<0.753	0.753	2085984
Ethylbenzene	ppbv	<0.20	0.20	<0.868	0.868	2085984
p+m-Xylene	ppbv	<0.37	0.37	<1.61	1.61	2085984
o-Xylene	ppbv	<0.20	0.20	<0.868	0.868	2085984
Styrene	ppbv	<0.20	0.20	<0.852	0.852	2085984
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2085984
1,2,4-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2085984
4-ethyltoluene	ppbv	<2.2	2.2	<10.8	10.8	2085984
Chlorobenzene	ppbv	<0.20	0.20	<0.921	0.921	2085984
Benzyl chloride	ppbv	<1.0	1.0	<5.18	5.18	2085984
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2085984
1,4-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2085984
1,2-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2085984
1,2,4-Trichlorobenzene	ppbv	<2.0	2.0	<14.8	14.8	2085984
Hexachlorobutadiene	ppbv	<3.0	3.0	<32.0	32.0	2085984
Hexane	ppbv	<0.30	0.30	<1.06	1.06	2085984
Cyclohexane	ppbv	<0.20	0.20	<0.688	0.688	2085984
Tetrahydrofuran	ppbv	<0.40	0.40	<1.18	1.18	2085984

QC Batch = Quality Control Batch

Maxxam Job #: B017737
 Report Date: 2010/03/01

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FB9298				
Sampling Date		2010/02/07 00:00				
COC Number		5351				
	Units	LICA VOC/CLS/FEB7,10 - 7869	RDL	ug/m3	DL (ug/m3)	QC Batch

1,4-Dioxane	ppbv	<2.0	2.0	<7.21	7.21	2085984
Xylene (Total)	ppbv	<0.60	0.60	<2.61	2.61	2085984
Surrogate Recovery (%)						
Bromochloromethane	%	94		N/A	N/A	2085984
D5-Chlorobenzene	%	87		N/A	N/A	2085984
Difluorobenzene	%	96		N/A	N/A	2085984

N/A = Not Applicable
 QC Batch = Quality Control Batch

Maxxam Job #: B017737
 Report Date: 2010/03/01

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FB9299				
Sampling Date		2010/02/07 00:00				
COC Number		5351				
	Units	LICA VOC/PORT/FEB7,10 - 7912	RDL	ug/m3	DL (ug/m3)	QC Batch

Volatile Organics						
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.934	0.934	2089611
Carbon Disulfide	ppbv	<0.50	0.50	<1.56	1.56	2089611
Propene	ppbv	<0.30	0.30	<0.516	0.516	2089611
Vinyl Acetate	ppbv	<0.20	0.20	<0.704	0.704	2089611
Vinyl Bromide	ppbv	<0.20	0.20	<0.875	0.875	2089611
Dichlorodifluoromethane (FREON 12)	ppbv	0.81	0.20	4.00	0.989	2089611
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<1.19	1.19	2089611
Chloromethane	ppbv	0.66	0.30	1.37	0.620	2089611
Vinyl Chloride	ppbv	<0.18	0.18	<0.460	0.460	2089611
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	2089611
1,3-Butadiene	ppbv	<0.50	0.50	<1.11	1.11	2089611
Trichlorofluoromethane (FREON 11)	ppbv	0.37	0.20	2.06	1.12	2089611
Trichlorotrifluoroethane	ppbv	<0.15	0.15	<1.15	1.15	2089611
Ethanol	ppbv	<2.3	2.3	<4.33	4.33	2089611
2-propanol	ppbv	<3.0	3.0	<7.37	7.37	2089611
2-Propanone	ppbv	2.77	0.80	6.57	1.90	2089611
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	3.0	<8.85	8.85	2089611
Methyl Isobutyl Ketone	ppbv	<3.2	3.2	<13.1	13.1	2089611
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	2.0	<8.19	8.19	2089611
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.721	0.721	2089611
Ethyl Acetate	ppbv	<2.2	2.2	<7.93	7.93	2089611
1,1-Dichloroethylene	ppbv	<0.25	0.25	<0.991	0.991	2089611
cis-1,2-Dichloroethylene	ppbv	<0.19	0.19	<0.753	0.753	2089611
trans-1,2-Dichloroethylene	ppbv	<0.20	0.20	<0.793	0.793	2089611
Methylene Chloride(Dichloromethane)	ppbv	0.57	0.30	1.97	1.04	2089611
Chloroform	ppbv	<0.15	0.15	<0.732	0.732	2089611
Carbon Tetrachloride	ppbv	<0.30	0.30	<1.89	1.89	2089611
1,1-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2089611
1,2-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2089611
Ethylene Dibromide	ppbv	<0.17	0.17	<1.31	1.31	2089611

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B017737
 Report Date: 2010/03/01

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FB9299				
Sampling Date		2010/02/07 00:00				
COC Number		5351				
	Units	LICA VOC/PORT/FEB7,10 - 7912	RDL	ug/m3	DL (ug/m3)	QC Batch
1,1,1-Trichloroethane	ppbv	<0.30	0.30	<1.64	1.64	2089611
1,1,2-Trichloroethane	ppbv	<0.15	0.15	<0.818	0.818	2089611
1,1,2,2-Tetrachloroethane	ppbv	<0.20	0.20	<1.37	1.37	2089611
cis-1,3-Dichloropropene	ppbv	<0.18	0.18	<0.817	0.817	2089611
trans-1,3-Dichloropropene	ppbv	<0.17	0.17	<0.772	0.772	2089611
1,2-Dichloropropane	ppbv	<0.40	0.40	<1.85	1.85	2089611
Bromomethane	ppbv	<0.18	0.18	<0.699	0.699	2089611
Bromoform	ppbv	<0.20	0.20	<2.07	2.07	2089611
Bromodichloromethane	ppbv	<0.20	0.20	<1.34	1.34	2089611
Dibromochloromethane	ppbv	<0.20	0.20	<1.70	1.70	2089611
Heptane	ppbv	<0.30	0.30	<1.23	1.23	2089611
Trichloroethylene	ppbv	<0.30	0.30	<1.61	1.61	2089611
Tetrachloroethylene	ppbv	<0.20	0.20	<1.36	1.36	2089611
Benzene	ppbv	0.19	0.18	0.615	0.575	2089611
Toluene	ppbv	<0.20	0.20	<0.753	0.753	2089611
Ethylbenzene	ppbv	<0.20	0.20	<0.868	0.868	2089611
p+m-Xylene	ppbv	<0.37	0.37	<1.61	1.61	2089611
o-Xylene	ppbv	<0.20	0.20	<0.868	0.868	2089611
Styrene	ppbv	<0.20	0.20	<0.852	0.852	2089611
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2089611
1,2,4-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2089611
4-ethyltoluene	ppbv	<2.2	2.2	<10.8	10.8	2089611
Chlorobenzene	ppbv	<0.20	0.20	<0.921	0.921	2089611
Benzyl chloride	ppbv	<1.0	1.0	<5.18	5.18	2089611
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2089611
1,4-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2089611
1,2-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2089611
1,2,4-Trichlorobenzene	ppbv	<2.0	2.0	<14.8	14.8	2089611
Hexachlorobutadiene	ppbv	<3.0	3.0	<32.0	32.0	2089611
Hexane	ppbv	<0.30	0.30	<1.06	1.06	2089611
Cyclohexane	ppbv	<0.20	0.20	<0.688	0.688	2089611
Tetrahydrofuran	ppbv	<0.40	0.40	<1.18	1.18	2089611
QC Batch = Quality Control Batch						

Maxxam Job #: B017737
 Report Date: 2010/03/01

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FB9299				
Sampling Date		2010/02/07 00:00				
COC Number		5351				
	Units	LICA VOC/PORT/FEB7,10 - 7912	RDL	ug/m3	DL (ug/m3)	QC Batch
1,4-Dioxane	ppbv	<2.0	2.0	<7.21	7.21	2089611
Xylene (Total)	ppbv	<0.60	0.60	<2.61	2.61	2089611
Surrogate Recovery (%)						
Bromochloromethane	%	78		N/A	N/A	2089611
D5-Chlorobenzene	%	75		N/A	N/A	2089611
Difluorobenzene	%	80		N/A	N/A	2089611
N/A = Not Applicable QC Batch = Quality Control Batch						

Maxxam Job #: B017737
 Report Date: 2010/03/01

Test Summary

Maxxam ID FB9298 **Collected** 2010/02/07
Sample ID LICA VOC/CLS/FEB7,10 - 7869 **Shipped**
Matrix AIR **Received** 2010/02/13

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2085985	N/A	2010/02/23	MM2
Volatile Organics in Air (TO-15)	GC/MS	2085984	N/A	2010/02/23	MM2

Maxxam ID FB9299 **Collected** 2010/02/07
Sample ID LICA VOC/PORT/FEB7,10 - 7912 **Shipped**
Matrix AIR **Received** 2010/02/13

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2084689	N/A	2010/02/23	MM2
Volatile Organics in Air (TO-15)	GC/MS	2089611	N/A	2010/02/26	MM2

Maxxam Job #: B017737
Report Date: 2010/03/01

VOLATILE ORGANICS BY GC/MS (AIR)

Volatile Organics in Air (TO-15): 2 compounds exceed 130% recovery criteria. Compounds meet %RSD criteria in the continuing calibration standard. The failure of these 2 compounds is not believed to have an effect on the integrity of the results, therefore the data was accepted.

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
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Quality Assurance Report
 Maxxam Job Number: GB017737

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2085984 MM2	Spiked Blank	Bromochloromethane	2010/02/23		103	%	60 - 140
		D5-Chlorobenzene	2010/02/23		103	%	60 - 140
		Difluorobenzene	2010/02/23		105	%	60 - 140
		2,2,4-Trimethylpentane	2010/02/23		109	%	70 - 130
		Carbon Disulfide	2010/02/23		100	%	70 - 130
		Propene	2010/02/23		98	%	70 - 130
		Vinyl Acetate	2010/02/23		116	%	70 - 130
		Vinyl Bromide	2010/02/23		103	%	70 - 130
		Dichlorodifluoromethane (FREON 12)	2010/02/23		102	%	70 - 130
		1,2-Dichlorotetrafluoroethane	2010/02/23		85	%	70 - 130
		Chloromethane	2010/02/23		93	%	70 - 130
		Vinyl Chloride	2010/02/23		98	%	70 - 130
		Chloroethane	2010/02/23		98	%	70 - 130
		1,3-Butadiene	2010/02/23		87	%	70 - 130
		Trichlorofluoromethane (FREON 11)	2010/02/23		100	%	70 - 130
		Trichlorotrifluoroethane	2010/02/23		99	%	70 - 130
		Ethanol	2010/02/23		111	%	70 - 130
		2-propanol	2010/02/23		87	%	70 - 130
		2-Propanone	2010/02/23		126	%	70 - 130
		Methyl Ethyl Ketone (2-Butanone)	2010/02/23		117	%	70 - 130
		Methyl Isobutyl Ketone	2010/02/23		88	%	70 - 130
		Methyl Butyl Ketone (2-Hexanone)	2010/02/23		76	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/02/23		110	%	70 - 130
		Ethyl Acetate	2010/02/23		105	%	70 - 130
		1,1-Dichloroethylene	2010/02/23		106	%	70 - 130
		cis-1,2-Dichloroethylene	2010/02/23		108	%	70 - 130
		trans-1,2-Dichloroethylene	2010/02/23		109	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/02/23		91	%	70 - 130
		Chloroform	2010/02/23		101	%	70 - 130
		Carbon Tetrachloride	2010/02/23		104	%	70 - 130
		1,1-Dichloroethane	2010/02/23		102	%	70 - 130
		1,2-Dichloroethane	2010/02/23		102	%	70 - 130
		Ethylene Dibromide	2010/02/23		99	%	70 - 130
		1,1,1-Trichloroethane	2010/02/23		103	%	70 - 130
		1,1,2-Trichloroethane	2010/02/23		99	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/02/23		95	%	70 - 130
		cis-1,3-Dichloropropene	2010/02/23		108	%	70 - 130
		trans-1,3-Dichloropropene	2010/02/23		112	%	70 - 130
		1,2-Dichloropropane	2010/02/23		100	%	70 - 130
		Bromomethane	2010/02/23		90	%	70 - 130
		Bromoform	2010/02/23		108	%	70 - 130
		Bromodichloromethane	2010/02/23		107	%	70 - 130
		Dibromochloromethane	2010/02/23		107	%	70 - 130
		Heptane	2010/02/23		111	%	70 - 130
		Trichloroethylene	2010/02/23		99	%	70 - 130
		Tetrachloroethylene	2010/02/23		99	%	70 - 130
		Benzene	2010/02/23		102	%	70 - 130
		Toluene	2010/02/23		106	%	70 - 130
		Ethylbenzene	2010/02/23		104	%	70 - 130
		p+m-Xylene	2010/02/23		102	%	70 - 130
		o-Xylene	2010/02/23		101	%	70 - 130
		Styrene	2010/02/23		59 (1)	%	70 - 130
		1,3,5-Trimethylbenzene	2010/02/23		78	%	70 - 130
		1,2,4-Trimethylbenzene	2010/02/23		87	%	70 - 130
		4-ethyltoluene	2010/02/23		98	%	70 - 130

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2085984 MM2	Spiked Blank	Chlorobenzene	2010/02/23		93	%	70 - 130
		Benzyl chloride	2010/02/23		102	%	70 - 130
		1,3-Dichlorobenzene	2010/02/23		97	%	70 - 130
		1,4-Dichlorobenzene	2010/02/23		96	%	70 - 130
		1,2-Dichlorobenzene	2010/02/23		94	%	70 - 130
		1,2,4-Trichlorobenzene	2010/02/23		113	%	70 - 130
		Hexachlorobutadiene	2010/02/23		88	%	70 - 130
		Hexane	2010/02/23		111	%	70 - 130
		Cyclohexane	2010/02/23		112	%	70 - 130
		Tetrahydrofuran	2010/02/23		105	%	70 - 130
		1,4-Dioxane	2010/02/23		87	%	70 - 130
	Method Blank	Bromochloromethane	2010/02/23		90	%	60 - 140
		D5-Chlorobenzene	2010/02/23		84	%	60 - 140
		Difluorobenzene	2010/02/23		92	%	60 - 140
		2,2,4-Trimethylpentane	2010/02/23	ND, RDL=0.20		ppbv	
		Carbon Disulfide	2010/02/23	ND, RDL=0.50		ppbv	
		Propene	2010/02/23	ND, RDL=0.30		ppbv	
		Vinyl Acetate	2010/02/23	ND, RDL=0.20		ppbv	
		Vinyl Bromide	2010/02/23	ND, RDL=0.20		ppbv	
		Dichlorodifluoromethane (FREON 12)	2010/02/23	ND, RDL=0.20		ppbv	
		1,2-Dichlorotetrafluoroethane	2010/02/23	ND, RDL=0.17		ppbv	
		Chloromethane	2010/02/23	ND, RDL=0.30		ppbv	
		Vinyl Chloride	2010/02/23	ND, RDL=0.18		ppbv	
		Chloroethane	2010/02/23	ND, RDL=0.30		ppbv	
		1,3-Butadiene	2010/02/23	ND, RDL=0.50		ppbv	
		Trichlorofluoromethane (FREON 11)	2010/02/23	ND, RDL=0.20		ppbv	
		Trichlorotrifluoroethane	2010/02/23	ND, RDL=0.15		ppbv	
		Ethanol	2010/02/23	ND, RDL=2.3		ppbv	
		2-propanol	2010/02/23	ND, RDL=3.0		ppbv	
		2-Propanone	2010/02/23	ND, RDL=0.80		ppbv	
		Methyl Ethyl Ketone (2-Butanone)	2010/02/23	ND, RDL=3.0		ppbv	
		Methyl Isobutyl Ketone	2010/02/23	ND, RDL=3.2		ppbv	
		Methyl Butyl Ketone (2-Hexanone)	2010/02/23	ND, RDL=2.0		ppbv	
		Methyl t-butyl ether (MTBE)	2010/02/23	ND, RDL=0.20		ppbv	
		Ethyl Acetate	2010/02/23	ND, RDL=2.2		ppbv	
		1,1-Dichloroethylene	2010/02/23	ND, RDL=0.25		ppbv	
		cis-1,2-Dichloroethylene	2010/02/23	ND, RDL=0.19		ppbv	
		trans-1,2-Dichloroethylene	2010/02/23	ND, RDL=0.20		ppbv	
		Methylene Chloride(Dichloromethane)	2010/02/23	0.44, RDL=0.30		ppbv	
		Chloroform	2010/02/23	ND, RDL=0.15		ppbv	
		Carbon Tetrachloride	2010/02/23	ND, RDL=0.30		ppbv	
		1,1-Dichloroethane	2010/02/23	ND, RDL=0.20		ppbv	
		1,2-Dichloroethane	2010/02/23	ND, RDL=0.20		ppbv	
		Ethylene Dibromide	2010/02/23	ND, RDL=0.17		ppbv	
		1,1,1-Trichloroethane	2010/02/23	ND, RDL=0.30		ppbv	
		1,1,2-Trichloroethane	2010/02/23	ND, RDL=0.15		ppbv	
		1,1,2,2-Tetrachloroethane	2010/02/23	ND, RDL=0.20		ppbv	
		cis-1,3-Dichloropropene	2010/02/23	ND, RDL=0.18		ppbv	
		trans-1,3-Dichloropropene	2010/02/23	ND, RDL=0.17		ppbv	
		1,2-Dichloropropane	2010/02/23	ND, RDL=0.40		ppbv	
		Bromomethane	2010/02/23	ND, RDL=0.18		ppbv	
		Bromoform	2010/02/23	ND, RDL=0.20		ppbv	
		Bromodichloromethane	2010/02/23	ND, RDL=0.20		ppbv	
		Dibromochloromethane	2010/02/23	ND, RDL=0.20		ppbv	
		Heptane	2010/02/23	ND, RDL=0.30		ppbv	

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2085984 MM2	Method Blank	Trichloroethylene	2010/02/23	ND, RDL=0.30		ppbv	
		Tetrachloroethylene	2010/02/23	ND, RDL=0.20		ppbv	
		Benzene	2010/02/23	ND, RDL=0.18		ppbv	
		Toluene	2010/02/23	ND, RDL=0.20		ppbv	
		Ethylbenzene	2010/02/23	ND, RDL=0.20		ppbv	
		p+m-Xylene	2010/02/23	ND, RDL=0.37		ppbv	
		o-Xylene	2010/02/23	ND, RDL=0.20		ppbv	
		Styrene	2010/02/23	ND, RDL=0.20		ppbv	
		1,3,5-Trimethylbenzene	2010/02/23	ND, RDL=0.50		ppbv	
		1,2,4-Trimethylbenzene	2010/02/23	ND, RDL=0.50		ppbv	
		4-ethyltoluene	2010/02/23	ND, RDL=2.2		ppbv	
		Chlorobenzene	2010/02/23	ND, RDL=0.20		ppbv	
		Benzyl chloride	2010/02/23	ND, RDL=1.0		ppbv	
		1,3-Dichlorobenzene	2010/02/23	ND, RDL=0.40		ppbv	
		1,4-Dichlorobenzene	2010/02/23	ND, RDL=0.40		ppbv	
		1,2-Dichlorobenzene	2010/02/23	ND, RDL=0.40		ppbv	
		1,2,4-Trichlorobenzene	2010/02/23	ND, RDL=2.0		ppbv	
		Hexachlorobutadiene	2010/02/23	ND, RDL=3.0		ppbv	
		Hexane	2010/02/23	ND, RDL=0.30		ppbv	
		Cyclohexane	2010/02/23	ND, RDL=0.20		ppbv	
Tetrahydrofuran	2010/02/23	ND, RDL=0.40		ppbv			
1,4-Dioxane	2010/02/23	ND, RDL=2.0		ppbv			
Xylene (Total)	2010/02/23	ND, RDL=0.60		ppbv			
2089611 MM2	Spiked Blank	Bromochloromethane	2010/02/26		114	%	60 - 140
		D5-Chlorobenzene	2010/02/26		116	%	60 - 140
		Difluorobenzene	2010/02/26		118	%	60 - 140
		2,2,4-Trimethylpentane	2010/02/26		112	%	70 - 130
		Carbon Disulfide	2010/02/26		104	%	70 - 130
		Propene	2010/02/26		114	%	70 - 130
		Vinyl Acetate	2010/02/26		122	%	70 - 130
		Vinyl Bromide	2010/02/26		105	%	70 - 130
		Dichlorodifluoromethane (FREON 12)	2010/02/26		102	%	70 - 130
		1,2-Dichlorotetrafluoroethane	2010/02/26		87	%	70 - 130
		Chloromethane	2010/02/26		102	%	70 - 130
		Vinyl Chloride	2010/02/26		106	%	70 - 130
		Chloroethane	2010/02/26		103	%	70 - 130
		1,3-Butadiene	2010/02/26		93	%	70 - 130
		Trichlorofluoromethane (FREON 11)	2010/02/26		99	%	70 - 130
		Trichlorotrifluoroethane	2010/02/26		99	%	70 - 130
		Ethanol	2010/02/26		119	%	70 - 130
		2-propanol	2010/02/26		91	%	70 - 130
		2-Propanone	2010/02/26		134 (1)	%	70 - 130
		Methyl Ethyl Ketone (2-Butanone)	2010/02/26		124	%	70 - 130
		Methyl Isobutyl Ketone	2010/02/26		88	%	70 - 130
		Methyl Butyl Ketone (2-Hexanone)	2010/02/26		74	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/02/26		113	%	70 - 130
		Ethyl Acetate	2010/02/26		110	%	70 - 130
		1,1-Dichloroethylene	2010/02/26		109	%	70 - 130
		cis-1,2-Dichloroethylene	2010/02/26		111	%	70 - 130
		trans-1,2-Dichloroethylene	2010/02/26		113	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/02/26		96	%	70 - 130
		Chloroform	2010/02/26		101	%	70 - 130
		Carbon Tetrachloride	2010/02/26		100	%	70 - 130
		1,1-Dichloroethane	2010/02/26		104	%	70 - 130
		1,2-Dichloroethane	2010/02/26		101	%	70 - 130

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2089611	MM2	Spiked Blank					
		Ethylene Dibromide	2010/02/26		100	%	70 - 130
		1,1,1-Trichloroethane	2010/02/26		99	%	70 - 130
		1,1,2-Trichloroethane	2010/02/26		100	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/02/26		100	%	70 - 130
		cis-1,3-Dichloropropene	2010/02/26		108	%	70 - 130
		trans-1,3-Dichloropropene	2010/02/26		112	%	70 - 130
		1,2-Dichloropropane	2010/02/26		103	%	70 - 130
		Bromomethane	2010/02/26		91	%	70 - 130
		Bromoform	2010/02/26		107	%	70 - 130
		Bromodichloromethane	2010/02/26		105	%	70 - 130
		Dibromochloromethane	2010/02/26		105	%	70 - 130
		Heptane	2010/02/26		114	%	70 - 130
		Trichloroethylene	2010/02/26		97	%	70 - 130
		Tetrachloroethylene	2010/02/26		97	%	70 - 130
		Benzene	2010/02/26		104	%	70 - 130
		Toluene	2010/02/26		106	%	70 - 130
		Ethylbenzene	2010/02/26		106	%	70 - 130
		p+m-Xylene	2010/02/26		103	%	70 - 130
		o-Xylene	2010/02/26		103	%	70 - 130
		Styrene	2010/02/26		57 (1)	%	70 - 130
		1,3,5-Trimethylbenzene	2010/02/26		76	%	70 - 130
		1,2,4-Trimethylbenzene	2010/02/26		87	%	70 - 130
		4-ethyltoluene	2010/02/26		99	%	70 - 130
		Chlorobenzene	2010/02/26		95	%	70 - 130
		Benzyl chloride	2010/02/26		102	%	70 - 130
		1,3-Dichlorobenzene	2010/02/26		99	%	70 - 130
		1,4-Dichlorobenzene	2010/02/26		98	%	70 - 130
		1,2-Dichlorobenzene	2010/02/26		95	%	70 - 130
		1,2,4-Trichlorobenzene	2010/02/26		116	%	70 - 130
		Hexachlorobutadiene	2010/02/26		89	%	70 - 130
		Hexane	2010/02/26		115	%	70 - 130
		Cyclohexane	2010/02/26		115	%	70 - 130
		Tetrahydrofuran	2010/02/26		111	%	70 - 130
		1,4-Dioxane	2010/02/26		87	%	70 - 130
	Method Blank	Bromochloromethane	2010/02/26		89	%	60 - 140
		D5-Chlorobenzene	2010/02/26		84	%	60 - 140
		Difluorobenzene	2010/02/26		91	%	60 - 140
		2,2,4-Trimethylpentane	2010/02/26	ND, RDL=0.20		ppbv	
		Carbon Disulfide	2010/02/26	ND, RDL=0.50		ppbv	
		Propene	2010/02/26	ND, RDL=0.30		ppbv	
		Vinyl Acetate	2010/02/26	ND, RDL=0.20		ppbv	
		Vinyl Bromide	2010/02/26	ND, RDL=0.20		ppbv	
		Dichlorodifluoromethane (FREON 12)	2010/02/26	ND, RDL=0.20		ppbv	
		1,2-Dichlorotetrafluoroethane	2010/02/26	ND, RDL=0.17		ppbv	
		Chloromethane	2010/02/26	ND, RDL=0.30		ppbv	
		Vinyl Chloride	2010/02/26	ND, RDL=0.18		ppbv	
		Chloroethane	2010/02/26	ND, RDL=0.30		ppbv	
		1,3-Butadiene	2010/02/26	ND, RDL=0.50		ppbv	
		Trichlorofluoromethane (FREON 11)	2010/02/26	ND, RDL=0.20		ppbv	
		Trichlorotrifluoroethane	2010/02/26	ND, RDL=0.15		ppbv	
		Ethanol	2010/02/26	ND, RDL=2.3		ppbv	
		2-propanol	2010/02/26	ND, RDL=3.0		ppbv	
		2-Propanone	2010/02/26	ND, RDL=0.80		ppbv	
		Methyl Ethyl Ketone (2-Butanone)	2010/02/26	ND, RDL=3.0		ppbv	
		Methyl Isobutyl Ketone	2010/02/26	ND, RDL=3.2		ppbv	

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2089611	MM2	Method Blank					
		Methyl Butyl Ketone (2-Hexanone)	2010/02/26	ND, RDL=2.0		ppbv	
		Methyl t-butyl ether (MTBE)	2010/02/26	ND, RDL=0.20		ppbv	
		Ethyl Acetate	2010/02/26	ND, RDL=2.2		ppbv	
		1,1-Dichloroethylene	2010/02/26	ND, RDL=0.25		ppbv	
		cis-1,2-Dichloroethylene	2010/02/26	ND, RDL=0.19		ppbv	
		trans-1,2-Dichloroethylene	2010/02/26	ND, RDL=0.20		ppbv	
		Methylene Chloride(Dichloromethane)	2010/02/26	0.46, RDL=0.30		ppbv	
		Chloroform	2010/02/26	ND, RDL=0.15		ppbv	
		Carbon Tetrachloride	2010/02/26	ND, RDL=0.30		ppbv	
		1,1-Dichloroethane	2010/02/26	ND, RDL=0.20		ppbv	
		1,2-Dichloroethane	2010/02/26	ND, RDL=0.20		ppbv	
		Ethylene Dibromide	2010/02/26	ND, RDL=0.17		ppbv	
		1,1,1-Trichloroethane	2010/02/26	ND, RDL=0.30		ppbv	
		1,1,2-Trichloroethane	2010/02/26	ND, RDL=0.15		ppbv	
		1,1,2,2-Tetrachloroethane	2010/02/26	ND, RDL=0.20		ppbv	
		cis-1,3-Dichloropropene	2010/02/26	ND, RDL=0.18		ppbv	
		trans-1,3-Dichloropropene	2010/02/26	ND, RDL=0.17		ppbv	
		1,2-Dichloropropane	2010/02/26	ND, RDL=0.40		ppbv	
		Bromomethane	2010/02/26	ND, RDL=0.18		ppbv	
		Bromoform	2010/02/26	ND, RDL=0.20		ppbv	
		Bromodichloromethane	2010/02/26	ND, RDL=0.20		ppbv	
		Dibromochloromethane	2010/02/26	ND, RDL=0.20		ppbv	
		Heptane	2010/02/26	ND, RDL=0.30		ppbv	
		Trichloroethylene	2010/02/26	ND, RDL=0.30		ppbv	
		Tetrachloroethylene	2010/02/26	ND, RDL=0.20		ppbv	
		Benzene	2010/02/26	ND, RDL=0.18		ppbv	
		Toluene	2010/02/26	ND, RDL=0.20		ppbv	
		Ethylbenzene	2010/02/26	ND, RDL=0.20		ppbv	
		p+m-Xylene	2010/02/26	ND, RDL=0.37		ppbv	
		o-Xylene	2010/02/26	ND, RDL=0.20		ppbv	
		Styrene	2010/02/26	ND, RDL=0.20		ppbv	
		1,3,5-Trimethylbenzene	2010/02/26	ND, RDL=0.50		ppbv	
		1,2,4-Trimethylbenzene	2010/02/26	ND, RDL=0.50		ppbv	
		4-ethyltoluene	2010/02/26	ND, RDL=2.2		ppbv	
		Chlorobenzene	2010/02/26	ND, RDL=0.20		ppbv	
		Benzyl chloride	2010/02/26	ND, RDL=1.0		ppbv	
		1,3-Dichlorobenzene	2010/02/26	ND, RDL=0.40		ppbv	
		1,4-Dichlorobenzene	2010/02/26	ND, RDL=0.40		ppbv	
		1,2-Dichlorobenzene	2010/02/26	ND, RDL=0.40		ppbv	
		1,2,4-Trichlorobenzene	2010/02/26	ND, RDL=2.0		ppbv	
		Hexachlorobutadiene	2010/02/26	ND, RDL=3.0		ppbv	
		Hexane	2010/02/26	ND, RDL=0.30		ppbv	
		Cyclohexane	2010/02/26	ND, RDL=0.20		ppbv	
		Tetrahydrofuran	2010/02/26	ND, RDL=0.40		ppbv	
		1,4-Dioxane	2010/02/26	ND, RDL=2.0		ppbv	
		Xylene (Total)	2010/02/26	ND, RDL=0.60		ppbv	

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 (1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Analytics Inc.

Xontech Model 910A VOC Sample Collection Data Sheet

Client: LICA Sampler s/n: 6167
 Location: Cold Lake South Canister ID: 7820 (Maxxam Supplied)
 Station ID: Lica 1 Canister Installation Date/Time: Feb 12, 10 @ 11:50 mst
 Field Sample ID: LICA VOC/ CLS / Feb 13, 10 Canister Removal Date/Time: Feb 16, 10 @ 15:25 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
13-Feb-10	02/13/2010 0:00	02/14/2010 0:00	24.00

Flow Settings		
Meter Reading (sccm)	Pot Set Pt.	Pump Pressure Setting (psig)
10.0	596	25

Canister Information	
Initial Canister Vacuum (inHg)	Final Canister Pressure (psig)
-28	22

Canister valve open prior to sampling?: YES / NO
Timer set to 0.00 minutes prior to sampling? YES / NO
Canister valve closed prior to disconnection?: YES / NO

Comments: System leak check prior to sampling. COC # 555

Technician Signature: Shea Beaton



Your C.O.C. #: 0555

Attention: Michael Bisaga

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/05

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B020926

Received: 2010/02/22, 13:13

Sample Matrix: AIR
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Canister Pressure (TO-15)	1	N/A	2010/02/24	BRL SOP-00304	EPA TO-15
Canister Pressure (TO-15)	1	N/A	2010/03/03	BRL SOP-00304	EPA TO-15
Volatile Organics in Air (TO-15) ¶	1	N/A	2010/02/24	BRL SOP-00304	EPA TO-15
Volatile Organics in Air (TO-15) ¶	1	N/A	2010/03/03	BRL SOP-00304	EPA TO-15

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO14A. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO14A on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Maxxam for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

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

Maxxam Analytics Inc. is a NELAC accredited laboratory. Certificate # CANA001. Use of the NELAC logo however does not insure that Maxxam is accredited for all of the methods indicated. This certificate shall not be reproduced except in full, without the written approval of Maxxam Analytics Inc. Maxxam has procedures in place to guard against improper use of the electronic signature and have the required



Your C.O.C. #: 0555

Attention: Michael Bisaga

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/05

CERTIFICATE OF ANALYSIS

-2-

"signatories", as per section.

Total cover pages: 2

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Maxxam Job #: B020926
 Report Date: 2010/03/05

RESULTS OF ANALYSES OF AIR

Maxxam ID		FD4778		FD5614		
Sampling Date		2010/02/13		2010/02/13		
COC Number		0555		0555		
	Units	LICA	QC Batch	LICA	RDL	QC Batch
		VOC/PORT/FEB13,10		VOC/CLS/FEB13,10-7820		

Volatile Organics						
Pressure on Receipt	psig	20	2086980	20	N/A	2093686

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B020926
 Report Date: 2010/03/05

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FD4778				
Sampling Date		2010/02/13				
COC Number		0555				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/PORT/FEB13,10				

Volatile Organics						
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.934	0.934	2086959
Carbon Disulfide	ppbv	<0.50	0.50	<1.56	1.56	2086959
Propene	ppbv	<0.30	0.30	<0.516	0.516	2086959
Vinyl Acetate	ppbv	<0.20	0.20	<0.704	0.704	2086959
Vinyl Bromide	ppbv	<0.20	0.20	<0.875	0.875	2086959
Dichlorodifluoromethane (FREON 12)	ppbv	0.80	0.20	3.97	0.989	2086959
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<1.19	1.19	2086959
Chloromethane	ppbv	0.65	0.30	1.34	0.620	2086959
Vinyl Chloride	ppbv	<0.18	0.18	<0.460	0.460	2086959
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	2086959
1,3-Butadiene	ppbv	<0.50	0.50	<1.11	1.11	2086959
Trichlorofluoromethane (FREON 11)	ppbv	0.37	0.20	2.07	1.12	2086959
Trichlorotrifluoroethane	ppbv	<0.15	0.15	<1.15	1.15	2086959
Ethanol	ppbv	<2.3	2.3	<4.33	4.33	2086959
2-propanol	ppbv	<3.0	3.0	<7.37	7.37	2086959
2-Propanone	ppbv	4.64	0.80	11.0	1.90	2086959
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	3.0	<8.85	8.85	2086959
Methyl Isobutyl Ketone	ppbv	<3.2	3.2	<13.1	13.1	2086959
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	2.0	<8.19	8.19	2086959
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.721	0.721	2086959
Ethyl Acetate	ppbv	<2.2	2.2	<7.93	7.93	2086959
1,1-Dichloroethylene	ppbv	<0.25	0.25	<0.991	0.991	2086959
cis-1,2-Dichloroethylene	ppbv	<0.19	0.19	<0.753	0.753	2086959
trans-1,2-Dichloroethylene	ppbv	<0.20	0.20	<0.793	0.793	2086959
Methylene Chloride(Dichloromethane)	ppbv	0.56	0.30	1.95	1.04	2086959
Chloroform	ppbv	<0.15	0.15	<0.732	0.732	2086959
Carbon Tetrachloride	ppbv	<0.30	0.30	<1.89	1.89	2086959
1,1-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2086959
1,2-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2086959
Ethylene Dibromide	ppbv	<0.17	0.17	<1.31	1.31	2086959
1,1,1-Trichloroethane	ppbv	<0.30	0.30	<1.64	1.64	2086959
1,1,2-Trichloroethane	ppbv	<0.15	0.15	<0.818	0.818	2086959
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: B020926
 Report Date: 2010/03/05

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FD4778				
Sampling Date		2010/02/13				
COC Number		0555				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/PORT/FEB13,10				

1,1,2,2-Tetrachloroethane	ppbv	<0.20	0.20	<1.37	1.37	2086959
cis-1,3-Dichloropropene	ppbv	<0.18	0.18	<0.817	0.817	2086959
trans-1,3-Dichloropropene	ppbv	<0.17	0.17	<0.772	0.772	2086959
1,2-Dichloropropane	ppbv	<0.40	0.40	<1.85	1.85	2086959
Bromomethane	ppbv	<0.18	0.18	<0.699	0.699	2086959
Bromoform	ppbv	<0.20	0.20	<2.07	2.07	2086959
Bromodichloromethane	ppbv	<0.20	0.20	<1.34	1.34	2086959
Dibromochloromethane	ppbv	<0.20	0.20	<1.70	1.70	2086959
Heptane	ppbv	<0.30	0.30	<1.23	1.23	2086959
Trichloroethylene	ppbv	<0.30	0.30	<1.61	1.61	2086959
Tetrachloroethylene	ppbv	<0.20	0.20	<1.36	1.36	2086959
Benzene	ppbv	0.22	0.18	0.702	0.575	2086959
Toluene	ppbv	<0.20	0.20	<0.753	0.753	2086959
Ethylbenzene	ppbv	<0.20	0.20	<0.868	0.868	2086959
p+m-Xylene	ppbv	<0.37	0.37	<1.61	1.61	2086959
o-Xylene	ppbv	<0.20	0.20	<0.868	0.868	2086959
Styrene	ppbv	<0.20	0.20	<0.852	0.852	2086959
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2086959
1,2,4-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2086959
4-ethyltoluene	ppbv	<2.2	2.2	<10.8	10.8	2086959
Chlorobenzene	ppbv	<0.20	0.20	<0.921	0.921	2086959
Benzyl chloride	ppbv	<1.0	1.0	<5.18	5.18	2086959
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2086959
1,4-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2086959
1,2-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2086959
1,2,4-Trichlorobenzene	ppbv	<2.0	2.0	<14.8	14.8	2086959
Hexachlorobutadiene	ppbv	<3.0	3.0	<32.0	32.0	2086959
Hexane	ppbv	<0.30	0.30	<1.06	1.06	2086959
Cyclohexane	ppbv	<0.20	0.20	<0.688	0.688	2086959
Tetrahydrofuran	ppbv	<0.40	0.40	<1.18	1.18	2086959
1,4-Dioxane	ppbv	<2.0	2.0	<7.21	7.21	2086959
Xylene (Total)	ppbv	<0.60	0.60	<2.61	2.61	2086959
Surrogate Recovery (%)						
Bromochloromethane	%	82		N/A	N/A	2086959

 N/A = Not Applicable
 QC Batch = Quality Control Batch

Maxxam Job #: B020926
 Report Date: 2010/03/05

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FD4778				
Sampling Date		2010/02/13				
COC Number		0555				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/PORT/FEB13,10				

D5-Chlorobenzene	%	75		N/A	N/A	2086959
Difluorobenzene	%	83		N/A	N/A	2086959

N/A = Not Applicable
 QC Batch = Quality Control Batch

Maxxam Job #: B020926
 Report Date: 2010/03/05

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FD5614				
Sampling Date		2010/02/13				
COC Number		0555				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/CLS/FEB13,10-7820				

Volatile Organics						
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.934	0.934	2093682
Carbon Disulfide	ppbv	<0.50	0.50	<1.56	1.56	2093682
Propene	ppbv	<0.30	0.30	<0.516	0.516	2093682
Vinyl Acetate	ppbv	<0.20	0.20	<0.704	0.704	2093682
Vinyl Bromide	ppbv	<0.20	0.20	<0.875	0.875	2093682
Dichlorodifluoromethane (FREON 12)	ppbv	0.68	0.20	3.37	0.989	2093682
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<1.19	1.19	2093682
Chloromethane	ppbv	0.49	0.30	1.01	0.620	2093682
Vinyl Chloride	ppbv	<0.18	0.18	<0.460	0.460	2093682
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	2093682
1,3-Butadiene	ppbv	<0.50	0.50	<1.11	1.11	2093682
Trichlorofluoromethane (FREON 11)	ppbv	0.35	0.20	1.98	1.12	2093682
Trichlorotrifluoroethane	ppbv	<0.15	0.15	<1.15	1.15	2093682
Ethanol	ppbv	<2.3	2.3	<4.33	4.33	2093682
2-propanol	ppbv	<3.0	3.0	<7.37	7.37	2093682
2-Propanone	ppbv	3.47	0.80	8.24	1.90	2093682
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	3.0	<8.85	8.85	2093682
Methyl Isobutyl Ketone	ppbv	<3.2	3.2	<13.1	13.1	2093682
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	2.0	<8.19	8.19	2093682
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.721	0.721	2093682
Ethyl Acetate	ppbv	<2.2	2.2	<7.93	7.93	2093682
1,1-Dichloroethylene	ppbv	<0.25	0.25	<0.991	0.991	2093682
cis-1,2-Dichloroethylene	ppbv	<0.19	0.19	<0.753	0.753	2093682
trans-1,2-Dichloroethylene	ppbv	<0.20	0.20	<0.793	0.793	2093682
Methylene Chloride(Dichloromethane)	ppbv	0.72	0.30	2.50	1.04	2093682
Chloroform	ppbv	<0.15	0.15	<0.732	0.732	2093682
Carbon Tetrachloride	ppbv	<0.30	0.30	<1.89	1.89	2093682
1,1-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2093682
1,2-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2093682
Ethylene Dibromide	ppbv	<0.17	0.17	<1.31	1.31	2093682
1,1,1-Trichloroethane	ppbv	<0.30	0.30	<1.64	1.64	2093682
1,1,2-Trichloroethane	ppbv	<0.15	0.15	<0.818	0.818	2093682

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B020926
 Report Date: 2010/03/05

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FD5614				
Sampling Date		2010/02/13				
COC Number		0555				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/CLS/FEB13,10-7820				
1,1,2,2-Tetrachloroethane	ppbv	<0.20	0.20	<1.37	1.37	2093682
cis-1,3-Dichloropropene	ppbv	<0.18	0.18	<0.817	0.817	2093682
trans-1,3-Dichloropropene	ppbv	<0.17	0.17	<0.772	0.772	2093682
1,2-Dichloropropane	ppbv	<0.40	0.40	<1.85	1.85	2093682
Bromomethane	ppbv	<0.18	0.18	<0.699	0.699	2093682
Bromoform	ppbv	<0.20	0.20	<2.07	2.07	2093682
Bromodichloromethane	ppbv	<0.20	0.20	<1.34	1.34	2093682
Dibromochloromethane	ppbv	<0.20	0.20	<1.70	1.70	2093682
Heptane	ppbv	<0.30	0.30	<1.23	1.23	2093682
Trichloroethylene	ppbv	<0.30	0.30	<1.61	1.61	2093682
Tetrachloroethylene	ppbv	<0.20	0.20	<1.36	1.36	2093682
Benzene	ppbv	<0.18	0.18	<0.575	0.575	2093682
Toluene	ppbv	<0.20	0.20	<0.753	0.753	2093682
Ethylbenzene	ppbv	<0.20	0.20	<0.868	0.868	2093682
p+m-Xylene	ppbv	<0.37	0.37	<1.61	1.61	2093682
o-Xylene	ppbv	<0.20	0.20	<0.868	0.868	2093682
Styrene	ppbv	<0.20	0.20	<0.852	0.852	2093682
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2093682
1,2,4-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2093682
4-ethyltoluene	ppbv	<2.2	2.2	<10.8	10.8	2093682
Chlorobenzene	ppbv	<0.20	0.20	<0.921	0.921	2093682
Benzyl chloride	ppbv	<1.0	1.0	<5.18	5.18	2093682
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2093682
1,4-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2093682
1,2-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2093682
1,2,4-Trichlorobenzene	ppbv	<2.0	2.0	<14.8	14.8	2093682
Hexachlorobutadiene	ppbv	<3.0	3.0	<32.0	32.0	2093682
Hexane	ppbv	<0.30	0.30	<1.06	1.06	2093682
Cyclohexane	ppbv	<0.20	0.20	<0.688	0.688	2093682
Tetrahydrofuran	ppbv	<0.40	0.40	<1.18	1.18	2093682
1,4-Dioxane	ppbv	<2.0	2.0	<7.21	7.21	2093682
Xylene (Total)	ppbv	<0.60	0.60	<2.61	2.61	2093682
Surrogate Recovery (%)						
Bromochloromethane	%	90		N/A	N/A	2093682
N/A = Not Applicable QC Batch = Quality Control Batch						

Maxxam Job #: B020926
 Report Date: 2010/03/05

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FD5614				
Sampling Date		2010/02/13				
COC Number		0555				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/CLS/FEB13,10-7820				

D5-Chlorobenzene	%	87		N/A	N/A	2093682
Difluorobenzene	%	92		N/A	N/A	2093682

N/A = Not Applicable
 QC Batch = Quality Control Batch

Maxxam Job #: B020926
 Report Date: 2010/03/05

Test Summary

Maxxam ID FD4778 **Collected** 2010/02/13
Sample ID LICA VOC/PORT/FEB13,10 **Shipped**
Matrix AIR **Received** 2010/02/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2086980	N/A	2010/02/24	MM2
Volatile Organics in Air (TO-15)	GC/MS	2086959	N/A	2010/02/24	MM2

Maxxam ID FD5614 **Collected** 2010/02/13
Sample ID LICA VOC/CLS/FEB13,10-7820 **Shipped**
Matrix AIR **Received** 2010/02/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2093686	N/A	2010/03/03	VEA
Volatile Organics in Air (TO-15)	GC/MS	2093682	N/A	2010/03/03	VEA

Maxxam Job #: B020926
Report Date: 2010/03/05

GENERAL COMMENTS

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Michael Bisaga
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: GB020926

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2086959 MM2	Spiked Blank	Bromochloromethane	2010/02/24		114	%	60 - 140
		D5-Chlorobenzene	2010/02/24		113	%	60 - 140
		Difluorobenzene	2010/02/24		117	%	60 - 140
		2,2,4-Trimethylpentane	2010/02/24		104	%	70 - 130
		Carbon Disulfide	2010/02/24		97	%	70 - 130
		Propene	2010/02/24		98	%	70 - 130
		Vinyl Acetate	2010/02/24		112	%	70 - 130
		Vinyl Bromide	2010/02/24		101	%	70 - 130
		Dichlorodifluoromethane (FREON 12)	2010/02/24		100	%	70 - 130
		1,2-Dichlorotetrafluoroethane	2010/02/24		84	%	70 - 130
		Chloromethane	2010/02/24		92	%	70 - 130
		Vinyl Chloride	2010/02/24		97	%	70 - 130
		Chloroethane	2010/02/24		96	%	70 - 130
		1,3-Butadiene	2010/02/24		85	%	70 - 130
		Trichlorofluoromethane (FREON 11)	2010/02/24		96	%	70 - 130
		Trichlorotrifluoroethane	2010/02/24		95	%	70 - 130
		Ethanol	2010/02/24		107	%	70 - 130
		2-propanol	2010/02/24		84	%	70 - 130
		2-Propanone	2010/02/24		123	%	70 - 130
		Methyl Ethyl Ketone (2-Butanone)	2010/02/24		114	%	70 - 130
		Methyl Isobutyl Ketone	2010/02/24		83	%	70 - 130
		Methyl Butyl Ketone (2-Hexanone)	2010/02/24		71	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/02/24		108	%	70 - 130
		Ethyl Acetate	2010/02/24		102	%	70 - 130
		1,1-Dichloroethylene	2010/02/24		102	%	70 - 130
		cis-1,2-Dichloroethylene	2010/02/24		105	%	70 - 130
		trans-1,2-Dichloroethylene	2010/02/24		105	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/02/24		88	%	70 - 130
		Chloroform	2010/02/24		97	%	70 - 130
		Carbon Tetrachloride	2010/02/24		98	%	70 - 130
		1,1-Dichloroethane	2010/02/24		98	%	70 - 130
		1,2-Dichloroethane	2010/02/24		98	%	70 - 130
		Ethylene Dibromide	2010/02/24		97	%	70 - 130
		1,1,1-Trichloroethane	2010/02/24		97	%	70 - 130
		1,1,2-Trichloroethane	2010/02/24		96	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/02/24		94	%	70 - 130
		cis-1,3-Dichloropropene	2010/02/24		104	%	70 - 130
		trans-1,3-Dichloropropene	2010/02/24		108	%	70 - 130
		1,2-Dichloropropane	2010/02/24		96	%	70 - 130
		Bromomethane	2010/02/24		87	%	70 - 130
		Bromoform	2010/02/24		107	%	70 - 130
		Bromodichloromethane	2010/02/24		101	%	70 - 130
		Dibromochloromethane	2010/02/24		103	%	70 - 130
		Heptane	2010/02/24		104	%	70 - 130
		Trichloroethylene	2010/02/24		95	%	70 - 130
		Tetrachloroethylene	2010/02/24		96	%	70 - 130
		Benzene	2010/02/24		98	%	70 - 130
		Toluene	2010/02/24		102	%	70 - 130
		Ethylbenzene	2010/02/24		102	%	70 - 130
		p+m-Xylene	2010/02/24		100	%	70 - 130
		o-Xylene	2010/02/24		99	%	70 - 130
		Styrene	2010/02/24		57 (1)	%	70 - 130
		1,3,5-Trimethylbenzene	2010/02/24		76	%	70 - 130
		1,2,4-Trimethylbenzene	2010/02/24		86	%	70 - 130
		4-ethyltoluene	2010/02/24		97	%	70 - 130

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2086959 MM2	Spiked Blank	Chlorobenzene	2010/02/24		91	%	70 - 130	
		Benzyl chloride	2010/02/24		102	%	70 - 130	
1,3-Dichlorobenzene		2010/02/24		98	%	70 - 130		
1,4-Dichlorobenzene		2010/02/24		96	%	70 - 130		
1,2-Dichlorobenzene		2010/02/24		93	%	70 - 130		
1,2,4-Trichlorobenzene		2010/02/24		110	%	70 - 130		
Hexachlorobutadiene		2010/02/24		87	%	70 - 130		
Hexane		2010/02/24		107	%	70 - 130		
Cyclohexane		2010/02/24		106	%	70 - 130		
Tetrahydrofuran		2010/02/24		101	%	70 - 130		
Method Blank	Method Blank	1,4-Dioxane	2010/02/24		83	%	70 - 130	
		Bromochloromethane	2010/02/24		92	%	60 - 140	
		D5-Chlorobenzene	2010/02/24		85	%	60 - 140	
		Difluorobenzene	2010/02/24		94	%	60 - 140	
		2,2,4-Trimethylpentane	2010/02/24	ND, RDL=0.20			ppbv	
		Carbon Disulfide	2010/02/24	ND, RDL=0.50			ppbv	
		Propene	2010/02/24	ND, RDL=0.30			ppbv	
		Vinyl Acetate	2010/02/24	ND, RDL=0.20			ppbv	
		Vinyl Bromide	2010/02/24	ND, RDL=0.20			ppbv	
		Dichlorodifluoromethane (FREON 12)	2010/02/24	ND, RDL=0.20			ppbv	
		1,2-Dichlorotetrafluoroethane	2010/02/24	ND, RDL=0.17			ppbv	
		Chloromethane	2010/02/24	ND, RDL=0.30			ppbv	
		Vinyl Chloride	2010/02/24	ND, RDL=0.18			ppbv	
		Chloroethane	2010/02/24	ND, RDL=0.30			ppbv	
		1,3-Butadiene	2010/02/24	ND, RDL=0.50			ppbv	
		Trichlorofluoromethane (FREON 11)	2010/02/24	ND, RDL=0.20			ppbv	
		Trichlorotrifluoroethane	2010/02/24	ND, RDL=0.15			ppbv	
		Ethanol	2010/02/24	ND, RDL=2.3			ppbv	
		2-propanol	2010/02/24	ND, RDL=3.0			ppbv	
		2-Propanone	2010/02/24	ND, RDL=0.80			ppbv	
		Methyl Ethyl Ketone (2-Butanone)	2010/02/24	ND, RDL=3.0			ppbv	
		Methyl Isobutyl Ketone	2010/02/24	ND, RDL=3.2			ppbv	
		Methyl Butyl Ketone (2-Hexanone)	2010/02/24	ND, RDL=2.0			ppbv	
		Methyl t-butyl ether (MTBE)	2010/02/24	ND, RDL=0.20			ppbv	
		Ethyl Acetate	2010/02/24	ND, RDL=2.2			ppbv	
		1,1-Dichloroethylene	2010/02/24	ND, RDL=0.25			ppbv	
		cis-1,2-Dichloroethylene	2010/02/24	ND, RDL=0.19			ppbv	
		trans-1,2-Dichloroethylene	2010/02/24	ND, RDL=0.20			ppbv	
		Methylene Chloride(Dichloromethane)	2010/02/24	0.44, RDL=0.30			ppbv	
		Chloroform	2010/02/24	ND, RDL=0.15			ppbv	
		Carbon Tetrachloride	2010/02/24	ND, RDL=0.30			ppbv	
		1,1-Dichloroethane	2010/02/24	ND, RDL=0.20			ppbv	
		1,2-Dichloroethane	2010/02/24	ND, RDL=0.20			ppbv	
		Ethylene Dibromide	2010/02/24	ND, RDL=0.17			ppbv	
		1,1,1-Trichloroethane	2010/02/24	ND, RDL=0.30			ppbv	
		1,1,2-Trichloroethane	2010/02/24	ND, RDL=0.15			ppbv	
		1,1,2,2-Tetrachloroethane	2010/02/24	ND, RDL=0.20			ppbv	
		cis-1,3-Dichloropropene	2010/02/24	ND, RDL=0.18			ppbv	
trans-1,3-Dichloropropene	2010/02/24	ND, RDL=0.17			ppbv			
1,2-Dichloropropane	2010/02/24	ND, RDL=0.40			ppbv			
Bromomethane	2010/02/24	ND, RDL=0.18			ppbv			
Bromoform	2010/02/24	ND, RDL=0.20			ppbv			
Bromodichloromethane	2010/02/24	ND, RDL=0.20			ppbv			
Dibromochloromethane	2010/02/24	ND, RDL=0.20			ppbv			
Heptane	2010/02/24	ND, RDL=0.30			ppbv			

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2086959	MM2	Method Blank					
		Trichloroethylene	2010/02/24	ND, RDL=0.30		ppbv	
		Tetrachloroethylene	2010/02/24	ND, RDL=0.20		ppbv	
		Benzene	2010/02/24	ND, RDL=0.18		ppbv	
		Toluene	2010/02/24	ND, RDL=0.20		ppbv	
		Ethylbenzene	2010/02/24	ND, RDL=0.20		ppbv	
		p+m-Xylene	2010/02/24	ND, RDL=0.37		ppbv	
		o-Xylene	2010/02/24	ND, RDL=0.20		ppbv	
		Styrene	2010/02/24	ND, RDL=0.20		ppbv	
		1,3,5-Trimethylbenzene	2010/02/24	ND, RDL=0.50		ppbv	
		1,2,4-Trimethylbenzene	2010/02/24	ND, RDL=0.50		ppbv	
		4-ethyltoluene	2010/02/24	ND, RDL=2.2		ppbv	
		Chlorobenzene	2010/02/24	ND, RDL=0.20		ppbv	
		Benzyl chloride	2010/02/24	ND, RDL=1.0		ppbv	
		1,3-Dichlorobenzene	2010/02/24	ND, RDL=0.40		ppbv	
		1,4-Dichlorobenzene	2010/02/24	ND, RDL=0.40		ppbv	
		1,2-Dichlorobenzene	2010/02/24	ND, RDL=0.40		ppbv	
		1,2,4-Trichlorobenzene	2010/02/24	ND, RDL=2.0		ppbv	
		Hexachlorobutadiene	2010/02/24	ND, RDL=3.0		ppbv	
		Hexane	2010/02/24	ND, RDL=0.30		ppbv	
		Cyclohexane	2010/02/24	ND, RDL=0.20		ppbv	
		Tetrahydrofuran	2010/02/24	ND, RDL=0.40		ppbv	
		1,4-Dioxane	2010/02/24	ND, RDL=2.0		ppbv	
		Xylene (Total)	2010/02/24	ND, RDL=0.60		ppbv	
	RPD - Sample/Sample Dup	2,2,4-Trimethylpentane	2010/02/24	NC		%	25
		Carbon Disulfide	2010/02/24	NC		%	25
		Propene	2010/02/24	NC		%	25
		Vinyl Acetate	2010/02/24	NC		%	25
		Vinyl Bromide	2010/02/24	NC		%	25
		Dichlorodifluoromethane (FREON 12)	2010/02/24	NC		%	25
		1,2-Dichlorotetrafluoroethane	2010/02/24	NC		%	25
		Chloromethane	2010/02/24	NC		%	25
		Vinyl Chloride	2010/02/24	NC		%	25
		Chloroethane	2010/02/24	NC		%	25
		1,3-Butadiene	2010/02/24	NC		%	25
		Trichlorofluoromethane (FREON 11)	2010/02/24	NC		%	25
		Trichlorotrifluoroethane	2010/02/24	NC		%	25
		Ethanol	2010/02/24	NC		%	25
		2-propanol	2010/02/24	NC		%	25
		2-Propanone	2010/02/24	NC		%	25
		Methyl Ethyl Ketone (2-Butanone)	2010/02/24	NC		%	25
		Methyl Isobutyl Ketone	2010/02/24	NC		%	25
		Methyl Butyl Ketone (2-Hexanone)	2010/02/24	NC		%	25
		Methyl t-butyl ether (MTBE)	2010/02/24	NC		%	25
		Ethyl Acetate	2010/02/24	NC		%	25
		1,1-Dichloroethylene	2010/02/24	NC		%	25
		cis-1,2-Dichloroethylene	2010/02/24	5.1		%	25
		trans-1,2-Dichloroethylene	2010/02/24	4.5		%	25
		Methylene Chloride(Dichloromethane)	2010/02/24	NC		%	25
		Chloroform	2010/02/24	NC		%	25
		Carbon Tetrachloride	2010/02/24	NC		%	25
		1,1-Dichloroethane	2010/02/24	NC		%	25
		1,2-Dichloroethane	2010/02/24	NC		%	25
		Ethylene Dibromide	2010/02/24	NC		%	25

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2086959 MM2	RPD - Sample/Sample Dup	1,1,1-Trichloroethane	2010/02/24	NC		%	25
		1,1,2-Trichloroethane	2010/02/24	NC		%	25
		1,1,2,2-Tetrachloroethane	2010/02/24	NC		%	25
		cis-1,3-Dichloropropene	2010/02/24	NC		%	25
		trans-1,3-Dichloropropene	2010/02/24	NC		%	25
		1,2-Dichloropropane	2010/02/24	NC		%	25
		Bromomethane	2010/02/24	NC		%	25
		Bromoform	2010/02/24	NC		%	25
		Bromodichloromethane	2010/02/24	NC		%	25
		Dibromochloromethane	2010/02/24	NC		%	25
		Heptane	2010/02/24	NC		%	25
		Trichloroethylene	2010/02/24	4.7		%	25
		Tetrachloroethylene	2010/02/24	1		%	25
		Benzene	2010/02/24	NC		%	25
		Toluene	2010/02/24	NC		%	25
		Ethylbenzene	2010/02/24	2.3		%	25
		p+m-Xylene	2010/02/24	2.7		%	25
		o-Xylene	2010/02/24	NC		%	25
		Styrene	2010/02/24	NC		%	25
		1,3,5-Trimethylbenzene	2010/02/24	NC		%	25
		1,2,4-Trimethylbenzene	2010/02/24	NC		%	25
		4-ethyltoluene	2010/02/24	NC		%	25
		Chlorobenzene	2010/02/24	NC		%	25
		Benzyl chloride	2010/02/24	NC		%	25
		1,3-Dichlorobenzene	2010/02/24	NC		%	25
		1,4-Dichlorobenzene	2010/02/24	NC		%	25
		1,2-Dichlorobenzene	2010/02/24	NC		%	25
		1,2,4-Trichlorobenzene	2010/02/24	NC		%	25
		Hexachlorobutadiene	2010/02/24	NC		%	25
		Hexane	2010/02/24	NC		%	25
		Cyclohexane	2010/02/24	NC		%	25
		Tetrahydrofuran	2010/02/24	NC		%	25
		1,4-Dioxane	2010/02/24	NC		%	25
		Xylene (Total)	2010/02/24	2.1		%	25
2093682 VEA	Spiked Blank	Bromochloromethane	2010/03/03		106	%	60 - 140
		D5-Chlorobenzene	2010/03/03		106	%	60 - 140
		Difluorobenzene	2010/03/03		107	%	60 - 140
		2,2,4-Trimethylpentane	2010/03/03		84	%	70 - 130
		Carbon Disulfide	2010/03/03		110	%	70 - 130
		Propene	2010/03/03		86	%	70 - 130
		Vinyl Acetate	2010/03/03		97	%	70 - 130
		Vinyl Bromide	2010/03/03		86	%	70 - 130
		Dichlorodifluoromethane (FREON 12)	2010/03/03		110	%	70 - 130
		1,2-Dichlorotetrafluoroethane	2010/03/03		94	%	70 - 130
		Chloromethane	2010/03/03		96	%	70 - 130
		Vinyl Chloride	2010/03/03		101	%	70 - 130
		Chloroethane	2010/03/03		100	%	70 - 130
		1,3-Butadiene	2010/03/03		94	%	70 - 130
		Trichlorofluoromethane (FREON 11)	2010/03/03		120	%	70 - 130
		Trichlorotrifluoroethane	2010/03/03		116	%	70 - 130
		Ethanol	2010/03/03		113	%	70 - 130
		2-propanol	2010/03/03		105	%	70 - 130
		2-Propanone	2010/03/03		131 (1)	%	70 - 130

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2093682 VEA	Spiked Blank	Methyl Ethyl Ketone (2-Butanone)	2010/03/03		103	%	70 - 130
		Methyl Isobutyl Ketone	2010/03/03		96	%	70 - 130
		Methyl Butyl Ketone (2-Hexanone)	2010/03/03		103	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/03/03		92	%	70 - 130
		Ethyl Acetate	2010/03/03		95	%	70 - 130
		1,1-Dichloroethylene	2010/03/03		116	%	70 - 130
		cis-1,2-Dichloroethylene	2010/03/03		98	%	70 - 130
		trans-1,2-Dichloroethylene	2010/03/03		97	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/03/03		99	%	70 - 130
		Chloroform	2010/03/03		105	%	70 - 130
		Carbon Tetrachloride	2010/03/03		117	%	70 - 130
		1,1-Dichloroethane	2010/03/03		100	%	70 - 130
		1,2-Dichloroethane	2010/03/03		103	%	70 - 130
		Ethylene Dibromide	2010/03/03		101	%	70 - 130
		1,1,1-Trichloroethane	2010/03/03		111	%	70 - 130
		1,1,2-Trichloroethane	2010/03/03		103	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/03/03		100	%	70 - 130
		cis-1,3-Dichloropropene	2010/03/03		107	%	70 - 130
		trans-1,3-Dichloropropene	2010/03/03		106	%	70 - 130
		1,2-Dichloropropane	2010/03/03		97	%	70 - 130
		Bromomethane	2010/03/03		93	%	70 - 130
		Bromoform	2010/03/03		108	%	70 - 130
		Bromodichloromethane	2010/03/03		106	%	70 - 130
		Dibromochloromethane	2010/03/03		103	%	70 - 130
		Heptane	2010/03/03		91	%	70 - 130
		Trichloroethylene	2010/03/03		99	%	70 - 130
		Tetrachloroethylene	2010/03/03		106	%	70 - 130
		Benzene	2010/03/03		99	%	70 - 130
		Toluene	2010/03/03		100	%	70 - 130
		Ethylbenzene	2010/03/03		97	%	70 - 130
		p+m-Xylene	2010/03/03		97	%	70 - 130
		o-Xylene	2010/03/03		98	%	70 - 130
		Styrene	2010/03/03		62 (1)	%	70 - 130
		1,3,5-Trimethylbenzene	2010/03/03		95	%	70 - 130
		1,2,4-Trimethylbenzene	2010/03/03		95	%	70 - 130
		4-ethyltoluene	2010/03/03		88	%	70 - 130
		Chlorobenzene	2010/03/03		95	%	70 - 130
		Benzyl chloride	2010/03/03		106	%	70 - 130
		1,3-Dichlorobenzene	2010/03/03		104	%	70 - 130
		1,4-Dichlorobenzene	2010/03/03		102	%	70 - 130
		1,2-Dichlorobenzene	2010/03/03		104	%	70 - 130
		1,2,4-Trichlorobenzene	2010/03/03		122	%	70 - 130
		Hexachlorobutadiene	2010/03/03		88	%	70 - 130
		Hexane	2010/03/03		86	%	70 - 130
		Cyclohexane	2010/03/03		88	%	70 - 130
		Tetrahydrofuran	2010/03/03		90	%	70 - 130
		1,4-Dioxane	2010/03/03		97	%	70 - 130
	Method Blank	Bromochloromethane	2010/03/03		87	%	60 - 140
		D5-Chlorobenzene	2010/03/03		85	%	60 - 140
		Difluorobenzene	2010/03/03		91	%	60 - 140
		2,2,4-Trimethylpentane	2010/03/03	ND, RDL=0.20		ppbv	
		Carbon Disulfide	2010/03/03	ND, RDL=0.50		ppbv	
		Propene	2010/03/03	ND, RDL=0.30		ppbv	
		Vinyl Acetate	2010/03/03	ND, RDL=0.20		ppbv	
		Vinyl Bromide	2010/03/03	ND, RDL=0.20		ppbv	

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2093682 VEA	Method Blank	Dichlorodifluoromethane (FREON 12)	2010/03/03	ND, RDL=0.20		ppbv	
		1,2-Dichlorotetrafluoroethane	2010/03/03	ND, RDL=0.17		ppbv	
		Chloromethane	2010/03/03	ND, RDL=0.30		ppbv	
		Vinyl Chloride	2010/03/03	ND, RDL=0.18		ppbv	
		Chloroethane	2010/03/03	ND, RDL=0.30		ppbv	
		1,3-Butadiene	2010/03/03	ND, RDL=0.50		ppbv	
		Trichlorofluoromethane (FREON 11)	2010/03/03	ND, RDL=0.20		ppbv	
		Trichlorotrifluoroethane	2010/03/03	ND, RDL=0.15		ppbv	
		Ethanol	2010/03/03	ND, RDL=2.3		ppbv	
		2-propanol	2010/03/03	ND, RDL=3.0		ppbv	
		2-Propanone	2010/03/03	ND, RDL=0.80		ppbv	
		Methyl Ethyl Ketone (2-Butanone)	2010/03/03	ND, RDL=3.0		ppbv	
		Methyl Isobutyl Ketone	2010/03/03	ND, RDL=3.2		ppbv	
		Methyl Butyl Ketone (2-Hexanone)	2010/03/03	ND, RDL=2.0		ppbv	
		Methyl t-butyl ether (MTBE)	2010/03/03	ND, RDL=0.20		ppbv	
		Ethyl Acetate	2010/03/03	ND, RDL=2.2		ppbv	
		1,1-Dichloroethylene	2010/03/03	ND, RDL=0.25		ppbv	
		cis-1,2-Dichloroethylene	2010/03/03	ND, RDL=0.19		ppbv	
		trans-1,2-Dichloroethylene	2010/03/03	ND, RDL=0.20		ppbv	
		Methylene Chloride(Dichloromethane)	2010/03/03	0.59, RDL=0.30		ppbv	
		Chloroform	2010/03/03	ND, RDL=0.15		ppbv	
		Carbon Tetrachloride	2010/03/03	ND, RDL=0.30		ppbv	
		1,1-Dichloroethane	2010/03/03	ND, RDL=0.20		ppbv	
		1,2-Dichloroethane	2010/03/03	ND, RDL=0.20		ppbv	
		Ethylene Dibromide	2010/03/03	ND, RDL=0.17		ppbv	
		1,1,1-Trichloroethane	2010/03/03	ND, RDL=0.30		ppbv	
		1,1,2-Trichloroethane	2010/03/03	ND, RDL=0.15		ppbv	
		1,1,2,2-Tetrachloroethane	2010/03/03	ND, RDL=0.20		ppbv	
		cis-1,3-Dichloropropene	2010/03/03	ND, RDL=0.18		ppbv	
		trans-1,3-Dichloropropene	2010/03/03	ND, RDL=0.17		ppbv	
		1,2-Dichloropropane	2010/03/03	ND, RDL=0.40		ppbv	
		Bromomethane	2010/03/03	ND, RDL=0.18		ppbv	
		Bromoform	2010/03/03	ND, RDL=0.20		ppbv	
		Bromodichloromethane	2010/03/03	ND, RDL=0.20		ppbv	
		Dibromochloromethane	2010/03/03	ND, RDL=0.20		ppbv	
		Heptane	2010/03/03	ND, RDL=0.30		ppbv	
		Trichloroethylene	2010/03/03	ND, RDL=0.30		ppbv	
		Tetrachloroethylene	2010/03/03	ND, RDL=0.20		ppbv	
		Benzene	2010/03/03	ND, RDL=0.18		ppbv	
		Toluene	2010/03/03	ND, RDL=0.20		ppbv	
		Ethylbenzene	2010/03/03	ND, RDL=0.20		ppbv	
		p+m-Xylene	2010/03/03	ND, RDL=0.37		ppbv	
		o-Xylene	2010/03/03	ND, RDL=0.20		ppbv	
		Styrene	2010/03/03	ND, RDL=0.20		ppbv	
		1,3,5-Trimethylbenzene	2010/03/03	ND, RDL=0.50		ppbv	
		1,2,4-Trimethylbenzene	2010/03/03	ND, RDL=0.50		ppbv	
		4-ethyltoluene	2010/03/03	ND, RDL=2.2		ppbv	
		Chlorobenzene	2010/03/03	ND, RDL=0.20		ppbv	
		Benzyl chloride	2010/03/03	ND, RDL=1.0		ppbv	
		1,3-Dichlorobenzene	2010/03/03	ND, RDL=0.40		ppbv	
		1,4-Dichlorobenzene	2010/03/03	ND, RDL=0.40		ppbv	
		1,2-Dichlorobenzene	2010/03/03	ND, RDL=0.40		ppbv	
		1,2,4-Trichlorobenzene	2010/03/03	ND, RDL=2.0		ppbv	
		Hexachlorobutadiene	2010/03/03	ND, RDL=3.0		ppbv	
		Hexane	2010/03/03	ND, RDL=0.30		ppbv	

Lakeland Industry & Community Assoc.
 Attention: Michael Bisaga
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB020926

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2093682 VEA	Method Blank	Cyclohexane	2010/03/03	ND, RDL=0.20		ppbv	
		Tetrahydrofuran	2010/03/03	ND, RDL=0.40		ppbv	
		1,4-Dioxane	2010/03/03	ND, RDL=2.0		ppbv	
		Xylene (Total)	2010/03/03	ND, RDL=0.60		ppbv	

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
 (1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Analytics Inc.

Xontech Model 910A VOC Sample Collection Data Sheet

Client: LICA Sampler s/n: 6167
 Location: Cold Lake South Canister ID: 7914 (Maxxam Supplied)
 Station ID: Lica 1 Canister Installation Date/Time: Feb 18, 10 @ 08:30 mst
 Field Sample ID: LICA VOC/ CLS / Feb 19, 10 Canister Removal Date/Time: Feb 24, 10 @ 10:50 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
19-Feb-10	02/19/2010 0:00	02/20/2010 0:00	24.00

Flow Settings		
Meter Reading (sccm)	Pot Set Pt.	Pump Pressure Setting (psig)
10.0	596	25

Canister Information	
Initial Canister Vacuum (inHg)	Final Canister Pressure (psig)
-28	21

Canister valve open prior to sampling?: YES / NO
 Timer set to 0.00 minutes prior to sampling? YES / NO
 Canister valve closed prior to disconnection?: YES / NO

Comments: System leak check prior to sampling. COC # 2899

Technician Signiture: Shea Beaton



Your Project #: LICA
Your C.O.C. #: 2899

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/09

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B023243
Received: 2010/02/26, 09:04

Sample Matrix: AIR
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Canister Pressure (TO-15)	2	N/A	2010/03/04	BRL SOP-00304	EPA TO-15
Volatile Organics in Air (TO-15) ¶	2	N/A	2010/03/04	BRL SOP-00304	EPA TO-15

Sample Matrix: Filter
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PAH's in Air (CARB429mod)	2	2010/03/01	2010/03/03	BRL SOP-00201	CARB429(ARBM1,M2)mod

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO14A. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO14A on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Maxxam for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

=====



Your Project #: LICA
Your C.O.C. #: 2899

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/09

CERTIFICATE OF ANALYSIS

-2-

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

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Total cover pages: 2

Page 2 of 16

Page 196 of 274

Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

RESULTS OF ANALYSES OF AIR

Maxxam ID		FE6107	FE6108	
Sampling Date		2010/02/19	2010/02/19	
COC Number		2899	2899	
	Units	LICAVOC/CLS/FEB19,10/7914	LICAVOC/PORT/FEB19,10/7814	QC Batch

Volatile Organics				
Pressure on Receipt	psig	19	20	2093742

QC Batch = Quality Control Batch

Maxxam Job #: B023243
Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
Client Project #: LICA

SEMI-VOLATILE ORGANICS BY GC-MS (FILTER)

Maxxam ID		FE6109	FE6110		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAQFF/PUF/CLS/FEB19,10	LICAQFF/PUF/PORT/FEB19,10	RDL	QC Batch
Semivolatile Organics					
1-Methylnaphthalene	ug	0.25	0.14	0.10	2090086
1-Methylphenanthrene	ug	<0.10	<0.10	0.10	2090086
2-Chloronaphthalene	ug	<0.10	<0.10	0.10	2090086
2-Methylanthracene	ug	<0.10	<0.10	0.10	2090086
2-Methylnaphthalene	ug	0.50	0.26	0.10	2090086
3-Methylcholanthrene	ug	<2.0	<2.0	2.0	2090086
7,12-Dimethylbenzo(a)anthracene	ug	<0.10	<0.10	0.10	2090086
9,10-Dimethylanthracene	ug	<0.40	<0.40	0.40	2090086
Acenaphthene	ug	0.062	<0.050	0.050	2090086
Acenaphthylene	ug	0.106	<0.050	0.050	2090086
Anthracene	ug	<0.050	<0.050	0.050	2090086
Benzo(a)anthracene	ug	<0.050	<0.050	0.050	2090086
Benzo(a)fluorene	ug	<0.10	<0.10	0.10	2090086
Benzo(a)pyrene	ug	<0.050	<0.050	0.050	2090086
Benzo(b)fluoranthene	ug	<0.050	<0.050	0.050	2090086
Benzo(b)fluorene	ug	<0.10	<0.10	0.10	2090086
Benzo(e)pyrene	ug	<0.10	<0.10	0.10	2090086
Benzo(g,h,i)perylene	ug	<0.050	<0.050	0.050	2090086
Benzo(k)fluoranthene	ug	<0.050	<0.050	0.050	2090086
Biphenyl	ug	0.20	0.15	0.10	2090086
Chrysene	ug	<0.050	<0.050	0.050	2090086
Coronene	ug	<0.10	<0.10	0.10	2090086
Dibenz(a,h)anthracene	ug	<0.050	<0.050	0.050	2090086
Dibenzo(a,e)pyrene	ug	<0.20	<0.20	0.20	2090086
Fluoranthene	ug	0.069	0.053	0.050	2090086
Fluorene	ug	0.133	0.099	0.050	2090086
Indeno(1,2,3-cd)pyrene	ug	<0.050	<0.050	0.050	2090086
m-Terphenyl	ug	<0.10	<0.10	0.10	2090086
Naphthalene	ug	0.383	0.171	0.072	2090086
o-Terphenyl	ug	<0.10	<0.10	0.10	2090086
Perylene	ug	<0.10	<0.10	0.10	2090086
Phenanthrene	ug	0.255	0.251	0.050	2090086
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

SEMI-VOLATILE ORGANICS BY GC-MS (FILTER)

Maxxam ID		FE6109	FE6110		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAQFF/PUF/CLS/FEB19,10	LICAQFF/PUF/PORT/FEB19,10	RDL	QC Batch
p-Terphenyl	ug	<0.10	<0.10	0.10	2090086
Pyrene	ug	0.052	<0.050	0.050	2090086
Quinoline	ug	<0.40	<0.40	0.40	2090086
Tetralin	ug	<0.10	<0.10	0.10	2090086
Surrogate Recovery (%)					
D10-2-Methylnaphthalene	%	81	79		2090086
D10-Fluoranthene	%	94	105		2090086
D10-Fluorene (FS)	%	68	62		2090086
D10-Phenanthrene	%	102	100		2090086
D12-Benzo(a)anthracene	%	99	108		2090086
D12-Benzo(a)pyrene	%	101	106		2090086
D12-Benzo(b)fluoranthene	%	118	94		2090086
D12-Benzo(ghi)perylene	%	98	100		2090086
D12-Benzo(k)fluoranthene	%	76	102		2090086
D12-Chrysene	%	102	108		2090086
D12-Indeno(1,2,3-cd)pyrene	%	95	99		2090086
D12-Perylene	%	102	106		2090086
D14-Dibenzo(a,h)anthracene	%	94	100		2090086
D14-Terphenyl (FS)	%	94	95		2090086
D8-Acenaphthylene	%	92	95		2090086
D8-Naphthalene	%	78	74		2090086
QC Batch = Quality Control Batch					

Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FE6107	FE6108		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAVOC/CLS/FEB19,10/7914	LICAVOC/PORT/FEB19,10/7814	RDL	QC Batch

Volatiles Organics					
2,2,4-Trimethylpentane	ppbv	<0.20	<0.20	0.20	2093792
Carbon Disulfide	ppbv	<0.50	<0.50	0.50	2093792
Propene	ppbv	<0.30	<0.30	0.30	2093792
Vinyl Acetate	ppbv	<0.20	<0.20	0.20	2093792
Vinyl Bromide	ppbv	<0.20	<0.20	0.20	2093792
Dichlorodifluoromethane (FREON 12)	ppbv	0.56	0.55	0.20	2093792
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	<0.17	0.17	2093792
Chloromethane	ppbv	0.56	0.58	0.30	2093792
Vinyl Chloride	ppbv	<0.18	<0.18	0.18	2093792
Chloroethane	ppbv	<0.30	<0.30	0.30	2093792
1,3-Butadiene	ppbv	<0.50	<0.50	0.50	2093792
Trichlorofluoromethane (FREON 11)	ppbv	0.30	0.30	0.20	2093792
Trichlorotrifluoroethane	ppbv	<0.15	<0.15	0.15	2093792
Ethanol	ppbv	<2.3	<2.3	2.3	2093792
2-propanol	ppbv	<3.0	<3.0	3.0	2093792
2-Propanone	ppbv	1.00	1.49	0.80	2093792
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	<3.0	3.0	2093792
Methyl Isobutyl Ketone	ppbv	<3.2	<3.2	3.2	2093792
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	<2.0	2.0	2093792
Methyl t-butyl ether (MTBE)	ppbv	<0.20	<0.20	0.20	2093792
Ethyl Acetate	ppbv	<2.2	<2.2	2.2	2093792
1,1-Dichloroethylene	ppbv	<0.25	<0.25	0.25	2093792
cis-1,2-Dichloroethylene	ppbv	<0.19	<0.19	0.19	2093792
trans-1,2-Dichloroethylene	ppbv	<0.20	<0.20	0.20	2093792
Methylene Chloride(Dichloromethane)	ppbv	0.37	0.37	0.30	2093792
Chloroform	ppbv	<0.15	<0.15	0.15	2093792
Carbon Tetrachloride	ppbv	<0.30	<0.30	0.30	2093792
1,1-Dichloroethane	ppbv	<0.20	<0.20	0.20	2093792
1,2-Dichloroethane	ppbv	<0.20	<0.20	0.20	2093792
Ethylene Dibromide	ppbv	<0.17	<0.17	0.17	2093792
1,1,1-Trichloroethane	ppbv	<0.30	<0.30	0.30	2093792
1,1,2-Trichloroethane	ppbv	<0.15	<0.15	0.15	2093792

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B023243
 Report Date: 2010/03/09

 Lakeland Industry & Community Assoc.
 Client Project #: LICA

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FE6107	FE6108		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAVOC/CLS/FEB19,10/7914	LICAVOC/PORT/FEB19,10/7814	RDL	QC Batch
1,1,2,2-Tetrachloroethane	ppbv	<0.20	<0.20	0.20	2093792
cis-1,3-Dichloropropene	ppbv	<0.18	<0.18	0.18	2093792
trans-1,3-Dichloropropene	ppbv	<0.17	<0.17	0.17	2093792
1,2-Dichloropropane	ppbv	<0.40	<0.40	0.40	2093792
Bromomethane	ppbv	<0.18	<0.18	0.18	2093792
Bromoform	ppbv	<0.20	<0.20	0.20	2093792
Bromodichloromethane	ppbv	<0.20	<0.20	0.20	2093792
Dibromochloromethane	ppbv	<0.20	<0.20	0.20	2093792
Heptane	ppbv	<0.30	<0.30	0.30	2093792
Trichloroethylene	ppbv	<0.30	<0.30	0.30	2093792
Tetrachloroethylene	ppbv	<0.20	<0.20	0.20	2093792
Benzene	ppbv	<0.18	<0.18	0.18	2093792
Toluene	ppbv	<0.20	<0.20	0.20	2093792
Ethylbenzene	ppbv	<0.20	<0.20	0.20	2093792
p+m-Xylene	ppbv	<0.37	<0.37	0.37	2093792
o-Xylene	ppbv	<0.20	<0.20	0.20	2093792
Styrene	ppbv	<0.20	<0.20	0.20	2093792
1,3,5-Trimethylbenzene	ppbv	<0.50	<0.50	0.50	2093792
1,2,4-Trimethylbenzene	ppbv	<0.50	<0.50	0.50	2093792
4-ethyltoluene	ppbv	<2.2	<2.2	2.2	2093792
Chlorobenzene	ppbv	<0.20	<0.20	0.20	2093792
Benzyl chloride	ppbv	<1.0	<1.0	1.0	2093792
1,3-Dichlorobenzene	ppbv	<0.40	<0.40	0.40	2093792
1,4-Dichlorobenzene	ppbv	<0.40	<0.40	0.40	2093792
1,2-Dichlorobenzene	ppbv	<0.40	<0.40	0.40	2093792
1,2,4-Trichlorobenzene	ppbv	<2.0	<2.0	2.0	2093792
Hexachlorobutadiene	ppbv	<3.0	<3.0	3.0	2093792
Hexane	ppbv	<0.30	<0.30	0.30	2093792
Cyclohexane	ppbv	<0.20	<0.20	0.20	2093792
Tetrahydrofuran	ppbv	<0.40	<0.40	0.40	2093792
1,4-Dioxane	ppbv	<2.0	<2.0	2.0	2093792
Xylene (Total)	ppbv	<0.60	<0.60	0.60	2093792
Surrogate Recovery (%)					
Bromochloromethane	%	82	78		2093792
QC Batch = Quality Control Batch					

Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FE6107	FE6108		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAVOC/CLS/FEB19,10/7914	LICAVOC/PORT/FEB19,10/7814	RDL	QC Batch

D5-Chlorobenzene	%	67	66		2093792
Difluorobenzene	%	79	74		2093792

QC Batch = Quality Control Batch

Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

Test Summary

Maxxam ID FE6107
Sample ID LICAVOC/CLS/FEB19,10/7914
Matrix AIR
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2093742	N/A	2010/03/04	S_S
Volatile Organics in Air (TO-15)	GC/MS	2093792	N/A	2010/03/04	S_S

Maxxam ID FE6108
Sample ID LICAVOC/PORT/FEB19,10/7814
Matrix AIR
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2093742	N/A	2010/03/04	S_S
Volatile Organics in Air (TO-15)	GC/MS	2093792	N/A	2010/03/04	S_S

Maxxam ID FE6108 Dup
Sample ID LICAVOC/PORT/FEB19,10/7814
Matrix AIR
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Volatile Organics in Air (TO-15)	GC/MS	2093792	N/A	2010/03/04	S_S

Maxxam ID FE6109
Sample ID LICAQFF/PUF/CLS/FEB19,10
Matrix Filter
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2090086	2010/03/01	2010/03/03	WZ

Maxxam ID FE6110
Sample ID LICAQFF/PUF/PORT/FEB19,10
Matrix Filter
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2090086	2010/03/01	2010/03/03	WZ

Maxxam Job #: B023243
Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
Client Project #: LICA

GENERAL COMMENTS

PAHMS-F

7,12-Dimethylbenzo(a)anthracene is above 25% RSD in initial calibration. No positives found for this compounds.

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug

. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene and Triphenylene with Chrysene each would have a value below estimated mdl.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to these 2 compounds in the appropriate retention time range with no possible positives detected.

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: GB023243

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits		
2090086 WZ	Spiked Blank	D10-2-Methylnaphthalene	2010/03/03		85	%	50 - 150		
		D10-Fluoranthene	2010/03/03		93	%	50 - 150		
		D10-Phenanthrene	2010/03/03		97	%	50 - 150		
		D12-Benzo(a)anthracene	2010/03/03		88	%	50 - 150		
		D12-Benzo(a)pyrene	2010/03/03		99	%	50 - 150		
		D12-Benzo(b)fluoranthene	2010/03/03		110	%	50 - 150		
		D12-Benzo(ghi)perylene	2010/03/03		91	%	50 - 150		
		D12-Benzo(k)fluoranthene	2010/03/03		89	%	50 - 150		
		D12-Chrysene	2010/03/03		106	%	50 - 150		
		D12-Indeno(1,2,3-cd)pyrene	2010/03/03		93	%	50 - 150		
		D12-Perylene	2010/03/03		99	%	50 - 150		
		D14-Dibenzo(a,h)anthracene	2010/03/03		94	%	50 - 150		
		RPD	Acenaphthylene	2010/03/03	2.7			%	50
	Acenaphthylene		2010/03/03		77		%	60 - 130	
	Acenaphthylene		2010/03/03	2.7			%	50	
	Anthracene		2010/03/03		73		%	60 - 130	
	Anthracene		2010/03/03	7.2			%	50	
	Benzo(a)anthracene		2010/03/03		96		%	60 - 130	
	Benzo(a)anthracene		2010/03/03	2.7			%	50	
	Benzo(a)pyrene		2010/03/03		82		%	60 - 130	
	Benzo(a)pyrene		2010/03/03	3.6			%	50	
	Benzo(b)fluoranthene		2010/03/03		72		%	60 - 130	
	Benzo(b)fluoranthene		2010/03/03	1.4			%	50	
	Benzo(g,h,i)perylene		2010/03/03		79		%	60 - 130	
	Benzo(g,h,i)perylene		2010/03/03	0.3			%	50	
	Benzo(k)fluoranthene		2010/03/03		100		%	60 - 130	
	Benzo(k)fluoranthene		2010/03/03	0.8			%	50	
	Spiked Blank		Chrysene	2010/03/03		87		%	60 - 130
			Chrysene	2010/03/03	2.0			%	50
		Dibenz(a,h)anthracene	2010/03/03		80		%	60 - 130	
		Dibenz(a,h)anthracene	2010/03/03	1.6			%	50	
		Fluoranthene	2010/03/03		89		%	60 - 130	
		Fluoranthene	2010/03/03	9.8			%	50	
		Fluorene	2010/03/03		76		%	60 - 130	
		Fluorene	2010/03/03	3.9			%	50	
		Indeno(1,2,3-cd)pyrene	2010/03/03		79		%	60 - 130	
		Indeno(1,2,3-cd)pyrene	2010/03/03	2.1			%	50	
		Naphthalene	2010/03/03		82		%	60 - 130	
		Naphthalene	2010/03/03	0.5			%	50	
		Spiked Blank	Phenanthrene	2010/03/03		71		%	60 - 130
Phenanthrene	2010/03/03		3.7			%	50		
Pyrene	2010/03/03			81		%	60 - 130		
Pyrene	2010/03/03		8.5			%	50		
Method Blank	D10-2-Methylnaphthalene		2010/03/03		83		%	50 - 150	
	D10-Fluoranthene		2010/03/03		94		%	50 - 150	
	D10-Phenanthrene		2010/03/03		95		%	50 - 150	
	D12-Benzo(a)anthracene		2010/03/03		83		%	50 - 150	
	D12-Benzo(a)pyrene		2010/03/03		96		%	50 - 150	
	D12-Benzo(b)fluoranthene		2010/03/03		110		%	50 - 150	
	D12-Benzo(ghi)perylene		2010/03/03		92		%	50 - 150	
	D12-Benzo(k)fluoranthene		2010/03/03		83		%	50 - 150	
	D12-Chrysene		2010/03/03		103		%	50 - 150	

Lakeland Industry & Community Assoc.
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Quality Assurance Report (Continued)

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits	
2090086 WZ	Method Blank	D12-Indeno(1,2,3-cd)pyrene	2010/03/03		88	%	50 - 150	
		D12-Perylene	2010/03/03		99	%	50 - 150	
		D14-Dibenzo(a,h)anthracene	2010/03/03		89	%	50 - 150	
		D8-Acenaphthylene	2010/03/03		79	%	50 - 150	
		D8-Naphthalene	2010/03/03		83	%	50 - 150	
		1-Methylnaphthalene	2010/03/03		ND, RDL=0.10		ug	
		1-Methylphenanthrene	2010/03/03		ND, RDL=0.10		ug	
		2-Chloronaphthalene	2010/03/03		ND, RDL=0.10		ug	
		2-Methylantracene	2010/03/03		ND, RDL=0.10		ug	
		2-Methylnaphthalene	2010/03/03		ND, RDL=0.10		ug	
		3-Methylcholanthrene	2010/03/03		ND, RDL=2.0		ug	
		7,12-Dimethylbenzo(a)anthracene	2010/03/03		ND, RDL=0.10		ug	
		9,10-Dimethylantracene	2010/03/03		ND, RDL=0.40		ug	
		Acenaphthene	2010/03/03		ND, RDL=0.050		ug	
		Acenaphthylene	2010/03/03		ND, RDL=0.050		ug	
		Anthracene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(a)anthracene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(a)fluorene	2010/03/03		ND, RDL=0.10		ug	
		Benzo(a)pyrene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(b)fluoranthene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(b)fluorene	2010/03/03		ND, RDL=0.10		ug	
		Benzo(e)pyrene	2010/03/03		ND, RDL=0.10		ug	
		Benzo(g,h,i)perylene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(k)fluoranthene	2010/03/03		ND, RDL=0.050		ug	
		Biphenyl	2010/03/03		ND, RDL=0.10		ug	
		Chrysene	2010/03/03		ND, RDL=0.050		ug	
		Coronene	2010/03/03		ND, RDL=0.10		ug	
		Dibenz(a,h)anthracene	2010/03/03		ND, RDL=0.050		ug	
		Dibenzo(a,e)pyrene	2010/03/03		ND, RDL=0.20		ug	
		Fluoranthene	2010/03/03		ND, RDL=0.050		ug	
		Fluorene	2010/03/03		ND, RDL=0.050		ug	
		Indeno(1,2,3-cd)pyrene	2010/03/03		ND, RDL=0.050		ug	
		m-Terphenyl	2010/03/03		ND, RDL=0.10		ug	
		Naphthalene	2010/03/03		ND, RDL=0.072		ug	
		o-Terphenyl	2010/03/03		ND, RDL=0.10		ug	
		Perylene	2010/03/03		ND, RDL=0.10		ug	
		Phenanthrene	2010/03/03		ND, RDL=0.050		ug	
		p-Terphenyl	2010/03/03		ND, RDL=0.10		ug	
		Pyrene	2010/03/03		ND, RDL=0.050		ug	
		Quinoline	2010/03/03		ND, RDL=0.40		ug	
Tetralin	2010/03/03		ND, RDL=0.10		ug			
2093792 S_S	Spiked Blank	Bromochloromethane	2010/03/04		105	%	60 - 140	
		D5-Chlorobenzene	2010/03/04		104	%	60 - 140	
		Difluorobenzene	2010/03/04		106	%	60 - 140	
		2,2,4-Trimethylpentane	2010/03/04		97	%	70 - 130	
		Carbon Disulfide	2010/03/04		84	%	70 - 130	
		Propene	2010/03/04		81	%	70 - 130	
		Vinyl Acetate	2010/03/04		104	%	70 - 130	
		Vinyl Bromide	2010/03/04		94	%	70 - 130	
		Dichlorodifluoromethane (FREON 12)	2010/03/04		95	%	70 - 130	
		1,2-Dichlorotetrafluoroethane	2010/03/04		80	%	70 - 130	
		Chloromethane	2010/03/04		82	%	70 - 130	
		Vinyl Chloride	2010/03/04		85	%	70 - 130	
		Chloroethane	2010/03/04		82	%	70 - 130	
1,3-Butadiene	2010/03/04		76	%	70 - 130			

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Quality Assurance Report (Continued)

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2093792 S_S	Spiked Blank	Trichlorofluoromethane (FREON 11)	2010/03/04		103	%	70 - 130
		Trichlorotrifluoroethane	2010/03/04		88	%	70 - 130
		Ethanol	2010/03/04		91	%	70 - 130
		2-propanol	2010/03/04		93	%	70 - 130
		2-Propanone	2010/03/04		110	%	70 - 130
		Methyl Ethyl Ketone (2-Butanone)	2010/03/04		112	%	70 - 130
		Methyl Isobutyl Ketone	2010/03/04		103	%	70 - 130
		Methyl Butyl Ketone (2-Hexanone)	2010/03/04		110	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/03/04		91	%	70 - 130
		Ethyl Acetate	2010/03/04		94	%	70 - 130
		1,1-Dichloroethylene	2010/03/04		96	%	70 - 130
		cis-1,2-Dichloroethylene	2010/03/04		91	%	70 - 130
		trans-1,2-Dichloroethylene	2010/03/04		92	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/03/04		84	%	70 - 130
		Chloroform	2010/03/04		91	%	70 - 130
		Carbon Tetrachloride	2010/03/04		111	%	70 - 130
		1,1-Dichloroethane	2010/03/04		86	%	70 - 130
		1,2-Dichloroethane	2010/03/04		98	%	70 - 130
		Ethylene Dibromide	2010/03/04		100	%	70 - 130
		1,1,1-Trichloroethane	2010/03/04		104	%	70 - 130
		1,1,2-Trichloroethane	2010/03/04		93	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/03/04		94	%	70 - 130
		cis-1,3-Dichloropropene	2010/03/04		104	%	70 - 130
		trans-1,3-Dichloropropene	2010/03/04		108	%	70 - 130
		1,2-Dichloropropane	2010/03/04		84	%	70 - 130
		Bromomethane	2010/03/04		83	%	70 - 130
		Bromoform	2010/03/04		124	%	70 - 130
		Bromodichloromethane	2010/03/04		111	%	70 - 130
		Dibromochloromethane	2010/03/04		117	%	70 - 130
		Heptane	2010/03/04		100	%	70 - 130
		Trichloroethylene	2010/03/04		93	%	70 - 130
		Tetrachloroethylene	2010/03/04		100	%	70 - 130
		Benzene	2010/03/04		82	%	70 - 130
		Toluene	2010/03/04		97	%	70 - 130
		Ethylbenzene	2010/03/04		96	%	70 - 130
		p+m-Xylene	2010/03/04		99	%	70 - 130
		o-Xylene	2010/03/04		102	%	70 - 130
		Styrene	2010/03/04		86	%	70 - 130
		1,3,5-Trimethylbenzene	2010/03/04		102	%	70 - 130
		1,2,4-Trimethylbenzene	2010/03/04		103	%	70 - 130
		4-ethyltoluene	2010/03/04		107	%	70 - 130
		Chlorobenzene	2010/03/04		91	%	70 - 130
		Benzyl chloride	2010/03/04		113	%	70 - 130
		1,3-Dichlorobenzene	2010/03/04		102	%	70 - 130
		1,4-Dichlorobenzene	2010/03/04		102	%	70 - 130
		1,2-Dichlorobenzene	2010/03/04		102	%	70 - 130
		1,2,4-Trichlorobenzene	2010/03/04		107	%	70 - 130
		Hexachlorobutadiene	2010/03/04		118	%	70 - 130
		Hexane	2010/03/04		91	%	70 - 130
		Cyclohexane	2010/03/04		101	%	70 - 130
		Tetrahydrofuran	2010/03/04		97	%	70 - 130
		1,4-Dioxane	2010/03/04		89	%	70 - 130
	Method Blank	Bromochloromethane	2010/03/04		86	%	60 - 140
		D5-Chlorobenzene	2010/03/04		72	%	60 - 140
		Difluorobenzene	2010/03/04		86	%	60 - 140

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
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Quality Assurance Report (Continued)

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2093792 S_S	Method Blank	2,2,4-Trimethylpentane	2010/03/04	ND, RDL=0.20		ppbv	
		Carbon Disulfide	2010/03/04	ND, RDL=0.50		ppbv	
		Propene	2010/03/04	ND, RDL=0.30		ppbv	
		Vinyl Acetate	2010/03/04	ND, RDL=0.20		ppbv	
		Vinyl Bromide	2010/03/04	ND, RDL=0.20		ppbv	
		Dichlorodifluoromethane (FREON 12)	2010/03/04	ND, RDL=0.20		ppbv	
		1,2-Dichlorotetrafluoroethane	2010/03/04	ND, RDL=0.17		ppbv	
		Chloromethane	2010/03/04	ND, RDL=0.30		ppbv	
		Vinyl Chloride	2010/03/04	ND, RDL=0.18		ppbv	
		Chloroethane	2010/03/04	ND, RDL=0.30		ppbv	
		1,3-Butadiene	2010/03/04	ND, RDL=0.50		ppbv	
		Trichlorofluoromethane (FREON 11)	2010/03/04	ND, RDL=0.20		ppbv	
		Trichlorotrifluoroethane	2010/03/04	ND, RDL=0.15		ppbv	
		Ethanol	2010/03/04	ND, RDL=2.3		ppbv	
		2-propanol	2010/03/04	ND, RDL=3.0		ppbv	
		2-Propanone	2010/03/04	ND, RDL=0.80		ppbv	
		Methyl Ethyl Ketone (2-Butanone)	2010/03/04	ND, RDL=3.0		ppbv	
		Methyl Isobutyl Ketone	2010/03/04	ND, RDL=3.2		ppbv	
		Methyl Butyl Ketone (2-Hexanone)	2010/03/04	ND, RDL=2.0		ppbv	
		Methyl t-butyl ether (MTBE)	2010/03/04	ND, RDL=0.20		ppbv	
		Ethyl Acetate	2010/03/04	ND, RDL=2.2		ppbv	
		1,1-Dichloroethylene	2010/03/04	ND, RDL=0.25		ppbv	
		cis-1,2-Dichloroethylene	2010/03/04	ND, RDL=0.19		ppbv	
		trans-1,2-Dichloroethylene	2010/03/04	ND, RDL=0.20		ppbv	
		Methylene Chloride(Dichloromethane)	2010/03/04	ND, RDL=0.30		ppbv	
		Chloroform	2010/03/04	ND, RDL=0.15		ppbv	
		Carbon Tetrachloride	2010/03/04	ND, RDL=0.30		ppbv	
		1,1-Dichloroethane	2010/03/04	ND, RDL=0.20		ppbv	
		1,2-Dichloroethane	2010/03/04	ND, RDL=0.20		ppbv	
		Ethylene Dibromide	2010/03/04	ND, RDL=0.17		ppbv	
		1,1,1-Trichloroethane	2010/03/04	ND, RDL=0.30		ppbv	
		1,1,2-Trichloroethane	2010/03/04	ND, RDL=0.15		ppbv	
		1,1,2,2-Tetrachloroethane	2010/03/04	ND, RDL=0.20		ppbv	
		cis-1,3-Dichloropropene	2010/03/04	ND, RDL=0.18		ppbv	
		trans-1,3-Dichloropropene	2010/03/04	ND, RDL=0.17		ppbv	
		1,2-Dichloropropane	2010/03/04	ND, RDL=0.40		ppbv	
		Bromomethane	2010/03/04	ND, RDL=0.18		ppbv	
		Bromoform	2010/03/04	ND, RDL=0.20		ppbv	
		Bromodichloromethane	2010/03/04	ND, RDL=0.20		ppbv	
		Dibromochloromethane	2010/03/04	ND, RDL=0.20		ppbv	
		Heptane	2010/03/04	ND, RDL=0.30		ppbv	
		Trichloroethylene	2010/03/04	ND, RDL=0.30		ppbv	
		Tetrachloroethylene	2010/03/04	ND, RDL=0.20		ppbv	
		Benzene	2010/03/04	ND, RDL=0.18		ppbv	
		Toluene	2010/03/04	ND, RDL=0.20		ppbv	
		Ethylbenzene	2010/03/04	ND, RDL=0.20		ppbv	
		p+m-Xylene	2010/03/04	ND, RDL=0.37		ppbv	
		o-Xylene	2010/03/04	ND, RDL=0.20		ppbv	
		Styrene	2010/03/04	ND, RDL=0.20		ppbv	
		1,3,5-Trimethylbenzene	2010/03/04	ND, RDL=0.50		ppbv	
		1,2,4-Trimethylbenzene	2010/03/04	ND, RDL=0.50		ppbv	
		4-ethyltoluene	2010/03/04	ND, RDL=2.2		ppbv	
		Chlorobenzene	2010/03/04	ND, RDL=0.20		ppbv	
		Benzyl chloride	2010/03/04	ND, RDL=1.0		ppbv	
		1,3-Dichlorobenzene	2010/03/04	ND, RDL=0.40		ppbv	

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Quality Assurance Report (Continued)

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2093792 S_S	Method Blank	1,4-Dichlorobenzene	2010/03/04	ND, RDL=0.40		ppbv	
		1,2-Dichlorobenzene	2010/03/04	ND, RDL=0.40		ppbv	
		1,2,4-Trichlorobenzene	2010/03/04	ND, RDL=2.0		ppbv	
		Hexachlorobutadiene	2010/03/04	ND, RDL=3.0		ppbv	
		Hexane	2010/03/04	ND, RDL=0.30		ppbv	
		Cyclohexane	2010/03/04	ND, RDL=0.20		ppbv	
		Tetrahydrofuran	2010/03/04	ND, RDL=0.40		ppbv	
		1,4-Dioxane	2010/03/04	ND, RDL=2.0		ppbv	
		Xylene (Total)	2010/03/04	ND, RDL=0.60		ppbv	
	RPD - Sample/Sample Dup	2,2,4-Trimethylpentane	2010/03/04	NC		%	25
		Carbon Disulfide	2010/03/04	NC		%	25
		Propene	2010/03/04	NC		%	25
		Vinyl Acetate	2010/03/04	NC		%	25
		Vinyl Bromide	2010/03/04	NC		%	25
		Dichlorodifluoromethane (FREON 12)	2010/03/04	NC		%	25
		1,2-Dichlorotetrafluoroethane	2010/03/04	NC		%	25
		Chloromethane	2010/03/04	NC		%	25
		Vinyl Chloride	2010/03/04	NC		%	25
		Chloroethane	2010/03/04	NC		%	25
		1,3-Butadiene	2010/03/04	NC		%	25
		Trichlorofluoromethane (FREON 11)	2010/03/04	NC		%	25
		Trichlorotrifluoroethane	2010/03/04	NC		%	25
		Ethanol	2010/03/04	NC		%	25
		2-propanol	2010/03/04	NC		%	25
		2-Propanone	2010/03/04	NC		%	25
		Methyl Ethyl Ketone (2-Butanone)	2010/03/04	NC		%	25
		Methyl Isobutyl Ketone	2010/03/04	NC		%	25
		Methyl Butyl Ketone (2-Hexanone)	2010/03/04	NC		%	25
		Methyl t-butyl ether (MTBE)	2010/03/04	NC		%	25
		Ethyl Acetate	2010/03/04	NC		%	25
		1,1-Dichloroethylene	2010/03/04	NC		%	25
		cis-1,2-Dichloroethylene	2010/03/04	NC		%	25
		trans-1,2-Dichloroethylene	2010/03/04	NC		%	25
		Methylene Chloride(Dichloromethane)	2010/03/04	NC		%	25
		Chloroform	2010/03/04	NC		%	25
		Carbon Tetrachloride	2010/03/04	NC		%	25
		1,1-Dichloroethane	2010/03/04	NC		%	25
		1,2-Dichloroethane	2010/03/04	NC		%	25
		Ethylene Dibromide	2010/03/04	NC		%	25
		1,1,1-Trichloroethane	2010/03/04	NC		%	25
		1,1,2-Trichloroethane	2010/03/04	NC		%	25
		1,1,2,2-Tetrachloroethane	2010/03/04	NC		%	25
		cis-1,3-Dichloropropene	2010/03/04	NC		%	25
		trans-1,3-Dichloropropene	2010/03/04	NC		%	25
		1,2-Dichloropropane	2010/03/04	NC		%	25
		Bromomethane	2010/03/04	NC		%	25
		Bromoform	2010/03/04	NC		%	25
		Bromodichloromethane	2010/03/04	NC		%	25
		Dibromochloromethane	2010/03/04	NC		%	25
		Heptane	2010/03/04	NC		%	25
		Trichloroethylene	2010/03/04	NC		%	25
		Tetrachloroethylene	2010/03/04	NC		%	25
		Benzene	2010/03/04	NC		%	25

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Quality Assurance Report (Continued)

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QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2093792 S_S	RPD - Sample/Sample Dup	Toluene	2010/03/04	NC		%	25
		Ethylbenzene	2010/03/04	NC		%	25
		p+m-Xylene	2010/03/04	NC		%	25
		o-Xylene	2010/03/04	NC		%	25
		Styrene	2010/03/04	NC		%	25
		1,3,5-Trimethylbenzene	2010/03/04	NC		%	25
		1,2,4-Trimethylbenzene	2010/03/04	NC		%	25
		4-ethyltoluene	2010/03/04	NC		%	25
		Chlorobenzene	2010/03/04	NC		%	25
		Benzyl chloride	2010/03/04	NC		%	25
		1,3-Dichlorobenzene	2010/03/04	NC		%	25
		1,4-Dichlorobenzene	2010/03/04	NC		%	25
		1,2-Dichlorobenzene	2010/03/04	NC		%	25
		1,2,4-Trichlorobenzene	2010/03/04	NC		%	25
		Hexachlorobutadiene	2010/03/04	NC		%	25
		Hexane	2010/03/04	NC		%	25
		Cyclohexane	2010/03/04	NC		%	25
		Tetrahydrofuran	2010/03/04	NC		%	25
		1,4-Dioxane	2010/03/04	NC		%	25
		Xylene (Total)	2010/03/04	NC		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Maxxam Analytics Inc.

Xontech Model 910A VOC Sample Collection Data Sheet

Client: LICA Sampler s/n: 6167
 Location: Cold Lake South Canister ID: 7910
 Station ID: Lica 1 Canister Installation Date/Time: Feb 24, 10 @ 08:30 mst
 Field Sample ID: LICA VOC/ CLS / Feb 25, 10 Canister Removal Date/Time: Mar 2, 10 @ 07:50 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
25-Feb-10	02/25/2010 0:00	02/26/2010 0:00	24.00

Flow Settings		
Meter Reading (sccm)	Pot Set Pt.	Pump Pressure Setting (psig)
10.0	594	25

Canister Information	
Initial Canister Vacuum (inHg)	Final Canister Pressure (psig)
-28	21

Canister valve open prior to sampling?: YES / NO
 Timer set to 0.00 minutes prior to sampling? YES / NO
 Canister valve closed prior to disconnection?: YES / NO

Comments: System leak check prior to sampling. COC # 2802

Technician Signature: Shea Beaton



Your C.O.C. #: 2802

Attention: Michael Bisaga

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/19

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B027274

Received: 2010/03/08, 10:23

Sample Matrix: AIR
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Canister Pressure (TO-15)	2	N/A	2010/03/16	BRL SOP-00304	EPA TO-15
Volatile Organics in Air (TO-15) ¶	2	N/A	2010/03/16	BRL SOP-00304	EPA TO-15

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO14A. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO14A on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Maxxam for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

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

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Total cover pages: 1

Maxxam Job #: B027274
 Report Date: 2010/03/19

RESULTS OF ANALYSES OF AIR

Maxxam ID		FG6783	FG6784	
Sampling Date		2010/02/25 00:00	2010/02/25 00:00	
COC Number		2802	2802	
	Units	LICA	LICA	QC Batch
		VOC/CLS/FEB25,10	VOC/PORT/FEB25,10	

Volatile Organics				
Pressure on Receipt	psig	20	20	2102505

QC Batch = Quality Control Batch

Maxxam Job #: B027274
 Report Date: 2010/03/19

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FG6783				
Sampling Date		2010/02/25 00:00				
COC Number		2802				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/CLS/FEB25,10				

Volatile Organics						
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.934	0.934	2102500
Carbon Disulfide	ppbv	<0.50	0.50	<1.56	1.56	2102500
Propene	ppbv	<0.30	0.30	<0.516	0.516	2102500
Vinyl Acetate	ppbv	<0.20	0.20	<0.704	0.704	2102500
Vinyl Bromide	ppbv	<0.20	0.20	<0.875	0.875	2102500
Dichlorodifluoromethane (FREON 12)	ppbv	0.59	0.20	2.92	0.989	2102500
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<1.19	1.19	2102500
Chloromethane	ppbv	0.45	0.30	0.931	0.620	2102500
Vinyl Chloride	ppbv	<0.18	0.18	<0.460	0.460	2102500
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	2102500
1,3-Butadiene	ppbv	<0.50	0.50	<1.11	1.11	2102500
Trichlorofluoromethane (FREON 11)	ppbv	0.28	0.20	1.59	1.12	2102500
Trichlorotrifluoroethane	ppbv	<0.15	0.15	<1.15	1.15	2102500
Ethanol	ppbv	<2.3	2.3	<4.33	4.33	2102500
2-propanol	ppbv	<3.0	3.0	<7.37	7.37	2102500
2-Propanone	ppbv	1.38	0.80	3.28	1.90	2102500
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	3.0	<8.85	8.85	2102500
Methyl Isobutyl Ketone	ppbv	<3.2	3.2	<13.1	13.1	2102500
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	2.0	<8.19	8.19	2102500
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.721	0.721	2102500
Ethyl Acetate	ppbv	<2.2	2.2	<7.93	7.93	2102500
1,1-Dichloroethylene	ppbv	<0.25	0.25	<0.991	0.991	2102500
cis-1,2-Dichloroethylene	ppbv	<0.19	0.19	<0.753	0.753	2102500
trans-1,2-Dichloroethylene	ppbv	<0.20	0.20	<0.793	0.793	2102500
Methylene Chloride(Dichloromethane)	ppbv	0.51	0.30	1.78	1.04	2102500
Chloroform	ppbv	<0.15	0.15	<0.732	0.732	2102500
Carbon Tetrachloride	ppbv	<0.30	0.30	<1.89	1.89	2102500
1,1-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2102500
1,2-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2102500
Ethylene Dibromide	ppbv	<0.17	0.17	<1.31	1.31	2102500
1,1,1-Trichloroethane	ppbv	<0.30	0.30	<1.64	1.64	2102500

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B027274
 Report Date: 2010/03/19

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FG6783				
Sampling Date		2010/02/25 00:00				
COC Number		2802				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/CLS/FEB25,10				
1,1,2-Trichloroethane	ppbv	<0.15	0.15	<0.818	0.818	2102500
1,1,2,2-Tetrachloroethane	ppbv	<0.20	0.20	<1.37	1.37	2102500
cis-1,3-Dichloropropene	ppbv	<0.18	0.18	<0.817	0.817	2102500
trans-1,3-Dichloropropene	ppbv	<0.17	0.17	<0.772	0.772	2102500
1,2-Dichloropropane	ppbv	<0.40	0.40	<1.85	1.85	2102500
Bromomethane	ppbv	<0.18	0.18	<0.699	0.699	2102500
Bromoform	ppbv	<0.20	0.20	<2.07	2.07	2102500
Bromodichloromethane	ppbv	<0.20	0.20	<1.34	1.34	2102500
Dibromochloromethane	ppbv	<0.20	0.20	<1.70	1.70	2102500
Heptane	ppbv	<0.30	0.30	<1.23	1.23	2102500
Trichloroethylene	ppbv	<0.30	0.30	<1.61	1.61	2102500
Tetrachloroethylene	ppbv	<0.20	0.20	<1.36	1.36	2102500
Benzene	ppbv	0.26	0.18	0.816	0.575	2102500
Toluene	ppbv	0.27	0.20	1.02	0.753	2102500
Ethylbenzene	ppbv	<0.20	0.20	<0.868	0.868	2102500
p+m-Xylene	ppbv	<0.37	0.37	<1.61	1.61	2102500
o-Xylene	ppbv	<0.20	0.20	<0.868	0.868	2102500
Styrene	ppbv	<0.20	0.20	<0.852	0.852	2102500
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2102500
1,2,4-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2102500
4-ethyltoluene	ppbv	<2.2	2.2	<10.8	10.8	2102500
Chlorobenzene	ppbv	<0.20	0.20	<0.921	0.921	2102500
Benzyl chloride	ppbv	<1.0	1.0	<5.18	5.18	2102500
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2102500
1,4-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2102500
1,2-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2102500
1,2,4-Trichlorobenzene	ppbv	<2.0	2.0	<14.8	14.8	2102500
Hexachlorobutadiene	ppbv	<3.0	3.0	<32.0	32.0	2102500
Hexane	ppbv	<0.30	0.30	<1.06	1.06	2102500
Cyclohexane	ppbv	<0.20	0.20	<0.688	0.688	2102500
Tetrahydrofuran	ppbv	<0.40	0.40	<1.18	1.18	2102500
1,4-Dioxane	ppbv	<2.0	2.0	<7.21	7.21	2102500
Xylene (Total)	ppbv	<0.60	0.60	<2.61	2.61	2102500
QC Batch = Quality Control Batch						

Maxxam Job #: B027274
 Report Date: 2010/03/19

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FG6783				
Sampling Date		2010/02/25 00:00				
COC Number		2802				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/CLS/FEB25,10				

Surrogate Recovery (%)						
Bromochloromethane	%	86		N/A	N/A	2102500
D5-Chlorobenzene	%	92		N/A	N/A	2102500
Difluorobenzene	%	88		N/A	N/A	2102500

N/A = Not Applicable
 QC Batch = Quality Control Batch

Maxxam Job #: B027274
 Report Date: 2010/03/19

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FG6784				
Sampling Date		2010/02/25 00:00				
COC Number		2802				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/PORT/FEB25,10				

Volatile Organics						
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.934	0.934	2102500
Carbon Disulfide	ppbv	<0.50	0.50	<1.56	1.56	2102500
Propene	ppbv	<0.30	0.30	<0.516	0.516	2102500
Vinyl Acetate	ppbv	<0.20	0.20	<0.704	0.704	2102500
Vinyl Bromide	ppbv	<0.20	0.20	<0.875	0.875	2102500
Dichlorodifluoromethane (FREON 12)	ppbv	0.60	0.20	2.98	0.989	2102500
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<1.19	1.19	2102500
Chloromethane	ppbv	0.45	0.30	0.926	0.620	2102500
Vinyl Chloride	ppbv	<0.18	0.18	<0.460	0.460	2102500
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	2102500
1,3-Butadiene	ppbv	<0.50	0.50	<1.11	1.11	2102500
Trichlorofluoromethane (FREON 11)	ppbv	0.28	0.20	1.59	1.12	2102500
Trichlorotrifluoroethane	ppbv	<0.15	0.15	<1.15	1.15	2102500
Ethanol	ppbv	<2.3	2.3	<4.33	4.33	2102500
2-propanol	ppbv	<3.0	3.0	<7.37	7.37	2102500
2-Propanone	ppbv	1.92	0.80	4.55	1.90	2102500
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	3.0	<8.85	8.85	2102500
Methyl Isobutyl Ketone	ppbv	<3.2	3.2	<13.1	13.1	2102500
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	2.0	<8.19	8.19	2102500
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.721	0.721	2102500
Ethyl Acetate	ppbv	<2.2	2.2	<7.93	7.93	2102500
1,1-Dichloroethylene	ppbv	<0.25	0.25	<0.991	0.991	2102500
cis-1,2-Dichloroethylene	ppbv	<0.19	0.19	<0.753	0.753	2102500
trans-1,2-Dichloroethylene	ppbv	<0.20	0.20	<0.793	0.793	2102500
Methylene Chloride(Dichloromethane)	ppbv	0.56	0.30	1.93	1.04	2102500
Chloroform	ppbv	<0.15	0.15	<0.732	0.732	2102500
Carbon Tetrachloride	ppbv	<0.30	0.30	<1.89	1.89	2102500
1,1-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2102500
1,2-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2102500
Ethylene Dibromide	ppbv	<0.17	0.17	<1.31	1.31	2102500
1,1,1-Trichloroethane	ppbv	<0.30	0.30	<1.64	1.64	2102500

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B027274
 Report Date: 2010/03/19

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FG6784				
Sampling Date		2010/02/25 00:00				
COC Number		2802				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/PORT/FEB25,10				
1,1,2-Trichloroethane	ppbv	<0.15	0.15	<0.818	0.818	2102500
1,1,2,2-Tetrachloroethane	ppbv	<0.20	0.20	<1.37	1.37	2102500
cis-1,3-Dichloropropene	ppbv	<0.18	0.18	<0.817	0.817	2102500
trans-1,3-Dichloropropene	ppbv	<0.17	0.17	<0.772	0.772	2102500
1,2-Dichloropropane	ppbv	<0.40	0.40	<1.85	1.85	2102500
Bromomethane	ppbv	<0.18	0.18	<0.699	0.699	2102500
Bromoform	ppbv	<0.20	0.20	<2.07	2.07	2102500
Bromodichloromethane	ppbv	<0.20	0.20	<1.34	1.34	2102500
Dibromochloromethane	ppbv	<0.20	0.20	<1.70	1.70	2102500
Heptane	ppbv	<0.30	0.30	<1.23	1.23	2102500
Trichloroethylene	ppbv	<0.30	0.30	<1.61	1.61	2102500
Tetrachloroethylene	ppbv	<0.20	0.20	<1.36	1.36	2102500
Benzene	ppbv	0.21	0.18	0.667	0.575	2102500
Toluene	ppbv	<0.20	0.20	<0.753	0.753	2102500
Ethylbenzene	ppbv	<0.20	0.20	<0.868	0.868	2102500
p+m-Xylene	ppbv	<0.37	0.37	<1.61	1.61	2102500
o-Xylene	ppbv	<0.20	0.20	<0.868	0.868	2102500
Styrene	ppbv	<0.20	0.20	<0.852	0.852	2102500
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2102500
1,2,4-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2102500
4-ethyltoluene	ppbv	<2.2	2.2	<10.8	10.8	2102500
Chlorobenzene	ppbv	<0.20	0.20	<0.921	0.921	2102500
Benzyl chloride	ppbv	<1.0	1.0	<5.18	5.18	2102500
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2102500
1,4-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2102500
1,2-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2102500
1,2,4-Trichlorobenzene	ppbv	<2.0	2.0	<14.8	14.8	2102500
Hexachlorobutadiene	ppbv	<3.0	3.0	<32.0	32.0	2102500
Hexane	ppbv	0.46	0.30	1.61	1.06	2102500
Cyclohexane	ppbv	0.40	0.20	1.36	0.688	2102500
Tetrahydrofuran	ppbv	<0.40	0.40	<1.18	1.18	2102500
1,4-Dioxane	ppbv	<2.0	2.0	<7.21	7.21	2102500
Xylene (Total)	ppbv	<0.60	0.60	<2.61	2.61	2102500
QC Batch = Quality Control Batch						

Maxxam Job #: B027274
 Report Date: 2010/03/19

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FG6784				
Sampling Date		2010/02/25 00:00				
COC Number		2802				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/PORT/FEB25,10				

Surrogate Recovery (%)						
Bromochloromethane	%	84		N/A	N/A	2102500
D5-Chlorobenzene	%	92		N/A	N/A	2102500
Difluorobenzene	%	87		N/A	N/A	2102500

N/A = Not Applicable
 QC Batch = Quality Control Batch

Maxxam Job #: B027274
Report Date: 2010/03/19

GENERAL COMMENTS

VOCTO15M-A
Benzyl Chloride and 1,2,4-trichlorobenzene are above 40% RSD in initial calibration.
No positives found for these compounds.

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Michael Bisaga
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: GB027274

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2102500 VEA	Spiked Blank	Bromochloromethane	2010/03/16		102	%	60 - 140
		D5-Chlorobenzene	2010/03/16		110	%	60 - 140
		Difluorobenzene	2010/03/16		105	%	60 - 140
		2,2,4-Trimethylpentane	2010/03/16		106	%	70 - 130
		Carbon Disulfide	2010/03/16		97	%	70 - 130
		Propene	2010/03/16		100	%	70 - 130
		Vinyl Acetate	2010/03/16		112	%	70 - 130
		Vinyl Bromide	2010/03/16		103	%	70 - 130
		Dichlorodifluoromethane (FREON 12)	2010/03/16		97	%	70 - 130
		1,2-Dichlorotetrafluoroethane	2010/03/16		87	%	70 - 130
		Chloromethane	2010/03/16		93	%	70 - 130
		Vinyl Chloride	2010/03/16		104	%	70 - 130
		Chloroethane	2010/03/16		102	%	70 - 130
		1,3-Butadiene	2010/03/16		83	%	70 - 130
		Trichlorofluoromethane (FREON 11)	2010/03/16		94	%	70 - 130
		Trichlorotrifluoroethane	2010/03/16		99	%	70 - 130
		Ethanol	2010/03/16		101	%	70 - 130
		2-propanol	2010/03/16		97	%	70 - 130
		2-Propanone	2010/03/16		101	%	70 - 130
		Methyl Ethyl Ketone (2-Butanone)	2010/03/16		107	%	70 - 130
		Methyl Isobutyl Ketone	2010/03/16		100	%	70 - 130
		Methyl Butyl Ketone (2-Hexanone)	2010/03/16		105	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/03/16		103	%	70 - 130
		Ethyl Acetate	2010/03/16		101	%	70 - 130
		1,1-Dichloroethylene	2010/03/16		102	%	70 - 130
		cis-1,2-Dichloroethylene	2010/03/16		105	%	70 - 130
		trans-1,2-Dichloroethylene	2010/03/16		93	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/03/16		87	%	70 - 130
		Chloroform	2010/03/16		98	%	70 - 130
		Carbon Tetrachloride	2010/03/16		101	%	70 - 130
		1,1-Dichloroethane	2010/03/16		99	%	70 - 130
		1,2-Dichloroethane	2010/03/16		97	%	70 - 130
		Ethylene Dibromide	2010/03/16		101	%	70 - 130
		1,1,1-Trichloroethane	2010/03/16		99	%	70 - 130
		1,1,2-Trichloroethane	2010/03/16		99	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/03/16		101	%	70 - 130
		cis-1,3-Dichloropropene	2010/03/16		116	%	70 - 130
		trans-1,3-Dichloropropene	2010/03/16		120	%	70 - 130
		1,2-Dichloropropane	2010/03/16		99	%	70 - 130
		Bromomethane	2010/03/16		96	%	70 - 130
		Bromoform	2010/03/16		103	%	70 - 130
		Bromodichloromethane	2010/03/16		100	%	70 - 130
		Dibromochloromethane	2010/03/16		101	%	70 - 130
		Heptane	2010/03/16		104	%	70 - 130
		Trichloroethylene	2010/03/16		100	%	70 - 130
		Tetrachloroethylene	2010/03/16		101	%	70 - 130
		Benzene	2010/03/16		103	%	70 - 130
		Toluene	2010/03/16		109	%	70 - 130
		Ethylbenzene	2010/03/16		113	%	70 - 130
		p+m-Xylene	2010/03/16		110	%	70 - 130
		o-Xylene	2010/03/16		107	%	70 - 130
		Styrene	2010/03/16		105	%	70 - 130
		1,3,5-Trimethylbenzene	2010/03/16		104	%	70 - 130
		1,2,4-Trimethylbenzene	2010/03/16		110	%	70 - 130
		4-ethyltoluene	2010/03/16		110	%	70 - 130

Lakeland Industry & Community Assoc.
 Attention: Michael Bisaga
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB027274

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits	
2102500 VEA	Spiked Blank	Chlorobenzene	2010/03/16		99	%	70 - 130	
		Benzyl chloride	2010/03/16		136 (1)	%	70 - 130	
1,3-Dichlorobenzene		2010/03/16		108	%	70 - 130		
1,4-Dichlorobenzene		2010/03/16		103	%	70 - 130		
1,2-Dichlorobenzene		2010/03/16		105	%	70 - 130		
1,2,4-Trichlorobenzene		2010/03/16		110	%	70 - 130		
Hexachlorobutadiene		2010/03/16		90	%	70 - 130		
Hexane		2010/03/16		99	%	70 - 130		
Cyclohexane		2010/03/16		105	%	70 - 130		
Tetrahydrofuran		2010/03/16		106	%	70 - 130		
Method Blank	Method Blank	1,4-Dioxane	2010/03/16		107	%	70 - 130	
		Bromochloromethane	2010/03/16		92	%	60 - 140	
		D5-Chlorobenzene	2010/03/16		96	%	60 - 140	
		Difluorobenzene	2010/03/16		93	%	60 - 140	
		2,2,4-Trimethylpentane	2010/03/16	ND, RDL=0.20			ppbv	
		Carbon Disulfide	2010/03/16	ND, RDL=0.50			ppbv	
		Propene	2010/03/16	ND, RDL=0.30			ppbv	
		Vinyl Acetate	2010/03/16	ND, RDL=0.20			ppbv	
		Vinyl Bromide	2010/03/16	ND, RDL=0.20			ppbv	
		Dichlorodifluoromethane (FREON 12)	2010/03/16	ND, RDL=0.20			ppbv	
		1,2-Dichlorotetrafluoroethane	2010/03/16	ND, RDL=0.17			ppbv	
		Chloromethane	2010/03/16	ND, RDL=0.30			ppbv	
		Vinyl Chloride	2010/03/16	ND, RDL=0.18			ppbv	
		Chloroethane	2010/03/16	ND, RDL=0.30			ppbv	
		1,3-Butadiene	2010/03/16	ND, RDL=0.50			ppbv	
		Trichlorofluoromethane (FREON 11)	2010/03/16	ND, RDL=0.20			ppbv	
		Trichlorotrifluoroethane	2010/03/16	ND, RDL=0.15			ppbv	
		Ethanol	2010/03/16	ND, RDL=2.3			ppbv	
		2-propanol	2010/03/16	ND, RDL=3.0			ppbv	
		2-Propanone	2010/03/16	ND, RDL=0.80			ppbv	
		Methyl Ethyl Ketone (2-Butanone)	2010/03/16	ND, RDL=3.0			ppbv	
		Methyl Isobutyl Ketone	2010/03/16	ND, RDL=3.2			ppbv	
		Methyl Butyl Ketone (2-Hexanone)	2010/03/16	ND, RDL=2.0			ppbv	
		Methyl t-butyl ether (MTBE)	2010/03/16	ND, RDL=0.20			ppbv	
		Ethyl Acetate	2010/03/16	ND, RDL=2.2			ppbv	
		1,1-Dichloroethylene	2010/03/16	ND, RDL=0.25			ppbv	
		cis-1,2-Dichloroethylene	2010/03/16	ND, RDL=0.19			ppbv	
		trans-1,2-Dichloroethylene	2010/03/16	ND, RDL=0.20			ppbv	
		Methylene Chloride(Dichloromethane)	2010/03/16	0.47, RDL=0.30			ppbv	
		Chloroform	2010/03/16	ND, RDL=0.15			ppbv	
		Carbon Tetrachloride	2010/03/16	ND, RDL=0.30			ppbv	
		1,1-Dichloroethane	2010/03/16	ND, RDL=0.20			ppbv	
		1,2-Dichloroethane	2010/03/16	ND, RDL=0.20			ppbv	
		Ethylene Dibromide	2010/03/16	ND, RDL=0.17			ppbv	
		1,1,1-Trichloroethane	2010/03/16	ND, RDL=0.30			ppbv	
		1,1,2-Trichloroethane	2010/03/16	ND, RDL=0.15			ppbv	
		1,1,2,2-Tetrachloroethane	2010/03/16	ND, RDL=0.20			ppbv	
		cis-1,3-Dichloropropene	2010/03/16	ND, RDL=0.18			ppbv	
trans-1,3-Dichloropropene	2010/03/16	ND, RDL=0.17			ppbv			
1,2-Dichloropropane	2010/03/16	ND, RDL=0.40			ppbv			
Bromomethane	2010/03/16	ND, RDL=0.18			ppbv			
Bromoform	2010/03/16	ND, RDL=0.20			ppbv			
Bromodichloromethane	2010/03/16	ND, RDL=0.20			ppbv			
Dibromochloromethane	2010/03/16	ND, RDL=0.20			ppbv			
Heptane	2010/03/16	ND, RDL=0.30			ppbv			

Lakeland Industry & Community Assoc.
 Attention: Michael Bisaga
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB027274

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2102500 VEA	Method Blank	Trichloroethylene	2010/03/16	ND, RDL=0.30		ppbv	
		Tetrachloroethylene	2010/03/16	ND, RDL=0.20		ppbv	
		Benzene	2010/03/16	ND, RDL=0.18		ppbv	
		Toluene	2010/03/16	ND, RDL=0.20		ppbv	
		Ethylbenzene	2010/03/16	ND, RDL=0.20		ppbv	
		p+m-Xylene	2010/03/16	ND, RDL=0.37		ppbv	
		o-Xylene	2010/03/16	ND, RDL=0.20		ppbv	
		Styrene	2010/03/16	ND, RDL=0.20		ppbv	
		1,3,5-Trimethylbenzene	2010/03/16	ND, RDL=0.50		ppbv	
		1,2,4-Trimethylbenzene	2010/03/16	ND, RDL=0.50		ppbv	
		4-ethyltoluene	2010/03/16	ND, RDL=2.2		ppbv	
		Chlorobenzene	2010/03/16	ND, RDL=0.20		ppbv	
		Benzyl chloride	2010/03/16	ND, RDL=1.0		ppbv	
		1,3-Dichlorobenzene	2010/03/16	ND, RDL=0.40		ppbv	
		1,4-Dichlorobenzene	2010/03/16	ND, RDL=0.40		ppbv	
		1,2-Dichlorobenzene	2010/03/16	ND, RDL=0.40		ppbv	
		1,2,4-Trichlorobenzene	2010/03/16	ND, RDL=2.0		ppbv	
		Hexachlorobutadiene	2010/03/16	ND, RDL=3.0		ppbv	
		Hexane	2010/03/16	ND, RDL=0.30		ppbv	
		Cyclohexane	2010/03/16	ND, RDL=0.20		ppbv	
		Tetrahydrofuran	2010/03/16	ND, RDL=0.40		ppbv	
		1,4-Dioxane	2010/03/16	ND, RDL=2.0		ppbv	
		Xylene (Total)	2010/03/16	ND, RDL=0.60		ppbv	

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 (1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Polycyclic Aromatic Hydrocarbons Laboratory Analysis

Maxxam Analytics Inc.

Tisch Hi-Vol PUF+ Sample Collection Data Sheet

Client: Lica
 Location: Cold Lake South
 Station ID: Lica1
 Field Sample ID: LICA PUF/CLS/Jan 26, 10

Puf+ s/n: 100-1020
 Motor s/n: 1138
 Installation Date/Time: Jan 25, 10 @ 14:25 mst
 Removal Date/Time: Jan 27, 10 @ 08:35 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
26-Jan-10	01/26/2010 0:00	01/27/2010 0:00	24.00

PUF and QFF Information			
Date Received	Date Shipped	Puf Expiration Date	QFF Prep Date
22-Jan-10	17-Jan-10	15-Feb-10	????

Set Flow Rate (slpm): 230
 Date of Last Calibration: 13-Jan-10

Sampling Data			
Average Pressure(mmHg)	AverageFlow (Qstd slpm)	Average Temperature (C)	Volume (Vstd m ³)
717	229	-18.6	330.35

Time set correctly prior to sampling? YES
Timer set correctly prior to sampling? YES
Sampling data saved to memory card after sampling? YES

Comments: COC #1041
GA9H1989 PUFF#1
Ran with a 102mm Quartz Fiber Filter - Sample ID - LICA QFF/CLS/Jan 20, 10

Technician Signature: _____



Your C.O.C. #: 1041

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/02/16

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B010335

Received: 2010/01/28, 08:59

Sample Matrix: PUF AND FILTER

Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PAH's in Air (CARB429mod)	2	2010/02/02	2010/02/12	BRL SOP-00201	CARB429(ARBM1,M2)mod

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

=====

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Total cover pages: 1

Maxxam Job #: B010335
 Report Date: 2010/02/16

SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Maxxam ID		EY4457	EY4458		
Sampling Date		2010/01/26 00:00	2010/01/26 00:00		
COC Number		1041	1041		
	Units	LICA QFF/CLS/JAN 26,10	LICA QFF/PORT/JAN 26,10	DL	QC Batch

Semivolatile Organics					
1-Methylnaphthalene	ug	0.48	0.40	0.10	2069785
1-Methylphenanthrene	ug	<0.10	<0.10	0.10	2069785
2-Chloronaphthalene	ug	<0.10	<0.10	0.10	2069785
2-Methylantracene	ug	<0.10	<0.10	0.10	2069785
2-Methylnaphthalene	ug	0.81	0.61	0.10	2069785
3-Methylcholanthrene	ug	<2.0	<2.0	2.0	2069785
7,12-Dimethylbenzo(a)anthracene	ug	<0.10	<0.10	0.10	2069785
9,10-Dimethylantracene	ug	<0.40	<0.40	0.40	2069785
Acenaphthene	ug	0.057	0.077	0.050	2069785
Acenaphthylene	ug	0.063	0.104	0.050	2069785
Anthracene	ug	<0.050	<0.050	0.050	2069785
Benzo(a)anthracene	ug	<0.050	<0.050	0.050	2069785
Benzo(a)fluorene	ug	<0.10	<0.10	0.10	2069785
Benzo(a)pyrene	ug	<0.050	<0.050	0.050	2069785
Benzo(b)fluoranthene	ug	<0.050	0.055	0.050	2069785
Benzo(b)fluorene	ug	<0.10	<0.10	0.10	2069785
Benzo(e)pyrene	ug	<0.10	<0.10	0.10	2069785
Benzo(g,h,i)perylene	ug	<0.050	<0.050	0.050	2069785
Benzo(k)fluoranthene	ug	<0.050	<0.050	0.050	2069785
Biphenyl	ug	0.30	0.59	0.10	2069785
Chrysene	ug	<0.050	0.078	0.050	2069785
Coronene	ug	<0.10	<0.10	0.10	2069785
Dibenz(a,h)anthracene	ug	<0.050	<0.050	0.050	2069785
Dibenzo(a,e)pyrene	ug	<0.20	<0.20	0.20	2069785
Fluoranthene	ug	0.092	0.134	0.050	2069785
Fluorene	ug	0.119	0.185	0.050	2069785
Indeno(1,2,3-cd)pyrene	ug	<0.050	<0.050	0.050	2069785
m-Terphenyl	ug	<0.10	<0.10	0.10	2069785
Naphthalene	ug	0.772	1.01	0.072	2069785
o-Terphenyl	ug	<0.10	<0.10	0.10	2069785
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B010335
 Report Date: 2010/02/16

SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Maxxam ID		EY4457	EY4458		
Sampling Date		2010/01/26 00:00	2010/01/26 00:00		
COC Number		1041	1041		
	Units	LICA QFF/CLS/JAN 26,10	LICA QFF/PORT/JAN 26,10	DL	QC Batch

Perylene	ug	<0.10	<0.10	0.10	2069785
Phenanthrene	ug	0.264	0.487	0.050	2069785
p-Terphenyl	ug	<0.10	<0.10	0.10	2069785
Pyrene	ug	0.059	0.092	0.050	2069785
Quinoline	ug	<0.40	<0.40	0.40	2069785
Tetralin	ug	<0.10	<0.10	0.10	2069785
Surrogate Recovery (%)					
D10-2-Methylnaphthalene	%	68	79		2069785
D10-Fluoranthene	%	98	89		2069785
D10-Fluorene (FS)	%	64	78		2069785
D10-Phenanthrene	%	88	86		2069785
D12-Benzo(a)anthracene	%	122	120		2069785
D12-Benzo(a)pyrene	%	102	100		2069785
D12-Benzo(b)fluoranthene	%	92	92		2069785
D12-Benzo(ghi)perylene	%	101	95		2069785
D12-Benzo(k)fluoranthene	%	101	101		2069785
D12-Chrysene	%	99	100		2069785
D12-Indeno(1,2,3-cd)pyrene	%	103	96		2069785
D12-Perylene	%	105	102		2069785
D14-Dibenzo(a,h)anthracene	%	101	95		2069785
D14-Terphenyl (FS)	%	91	89		2069785
D8-Acenaphthylene	%	81	92		2069785
D8-Naphthalene	%	66	79		2069785

QC Batch = Quality Control Batch

Maxxam Job #: B010335
 Report Date: 2010/02/16

Test Summary

Maxxam ID EY4457 **Collected** 2010/01/26
Sample ID LICA QFF/CLS/JAN 26,10 **Shipped**
Matrix PUF AND FILTER **Received** 2010/01/28

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2069785	2010/02/02	2010/02/12	WZ

Maxxam ID EY4458 **Collected** 2010/01/26
Sample ID LICA QFF/PORT/JAN 26,10 **Shipped**
Matrix PUF AND FILTER **Received** 2010/01/28

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2069785	2010/02/02	2010/02/12	WZ

Maxxam Job #: B010335
Report Date: 2010/02/16**GENERAL COMMENTS**

PAHMS-F

7,12-Dimethylbenzo(a)anthracene and Quinoline are above 25% RSD in initial calibration. No positives found for these 2 compounds.

Internal Std area response criteria was high in Spike:dup. Rerun with similar results. Original run reported.

Sample EY4457-01: PAHMS-F

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene and Triphenylene with Chrysene each would have a value below estimated mdl.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to these 2 compounds in the appropriate retention time range with no possible positives detected.

Sample EY4458-01: PAHMS-F

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene it would have a value below the estimated mdl.

Since Triphenylene co-elutes with Chrysene, the maximum possible value for this compound would be 0.077ug, which is the value reported for Chrysene.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Searched for ions specific to this compound in the appropriate retention time range with no possible positive detected.

Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to this compounds in the appropriate retention time range, possible positive detected, but would fall below the mdl using Dibenzo(a,h) anthracene calibration.

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: GB010335

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2069785 WZ	Spiked Blank	D10-2-Methylnaphthalene	2010/02/12		83	%	50 - 150
		D10-Fluoranthene	2010/02/12		107	%	50 - 150
		D10-Phenanthrene	2010/02/12		100	%	50 - 150
		D12-Benzo(a)anthracene	2010/02/12		127	%	50 - 150
		D12-Benzo(a)pyrene	2010/02/12		108	%	50 - 150
		D12-Benzo(b)fluoranthene	2010/02/12		98	%	50 - 150
		D12-Benzo(ghi)perylene	2010/02/12		104	%	50 - 150
		D12-Benzo(k)fluoranthene	2010/02/12		102	%	50 - 150
		D12-Chrysene	2010/02/12		96	%	50 - 150
		D12-Indeno(1,2,3-cd)pyrene	2010/02/12		106	%	50 - 150
		D12-Perylene	2010/02/12		107	%	50 - 150
		D14-Dibenzo(a,h)anthracene	2010/02/12		104	%	50 - 150
		D8-Acenaphthylene	2010/02/12		93	%	50 - 150
		D8-Naphthalene	2010/02/12		86	%	50 - 150
	RPD	Acenaphthene	2010/02/12	0.8		%	60 - 130
	Spiked Blank	Acenaphthene	2010/02/12			%	50
	RPD	Acenaphthylene	2010/02/12	3.2		%	60 - 130
	Spiked Blank	Acenaphthylene	2010/02/12			%	50
	RPD	Anthracene	2010/02/12	5.7		%	60 - 130
	Spiked Blank	Anthracene	2010/02/12			%	50
	RPD	Benzo(a)anthracene	2010/02/12	11.2		%	60 - 130
	Spiked Blank	Benzo(a)anthracene	2010/02/12			%	50
	RPD	Benzo(a)pyrene	2010/02/12	0.5		%	60 - 130
	Spiked Blank	Benzo(a)pyrene	2010/02/12			%	50
	RPD	Benzo(b)fluoranthene	2010/02/12	1.7		%	60 - 130
	Spiked Blank	Benzo(b)fluoranthene	2010/02/12			%	50
	RPD	Benzo(g,h,i)perylene	2010/02/12	6.1		%	60 - 130
	Spiked Blank	Benzo(g,h,i)perylene	2010/02/12			%	50
	RPD	Benzo(k)fluoranthene	2010/02/12	12.7		%	60 - 130
	Spiked Blank	Benzo(k)fluoranthene	2010/02/12			%	50
	RPD	Chrysene	2010/02/12	6.7		%	60 - 130
	Spiked Blank	Chrysene	2010/02/12			%	50
	RPD	Dibenz(a,h)anthracene	2010/02/12	1.9		%	60 - 130
	Spiked Blank	Dibenz(a,h)anthracene	2010/02/12			%	50
	RPD	Fluoranthene	2010/02/12	3.8		%	60 - 130
	Spiked Blank	Fluoranthene	2010/02/12			%	50
	RPD	Fluorene	2010/02/12	6.0		%	60 - 130
	Spiked Blank	Fluorene	2010/02/12			%	50
	RPD	Indeno(1,2,3-cd)pyrene	2010/02/12	4.6		%	60 - 130
	Spiked Blank	Indeno(1,2,3-cd)pyrene	2010/02/12			%	50
RPD	Naphthalene	2010/02/12	2.9		%	60 - 130	
Spiked Blank	Naphthalene	2010/02/12			%	50	
RPD	Phenanthrene	2010/02/12	6.4		%	60 - 130	
Spiked Blank	Phenanthrene	2010/02/12			%	50	
RPD	Pyrene	2010/02/12	3.2		%	60 - 130	
Spiked Blank	Pyrene	2010/02/12			%	50	
Method Blank	D10-2-Methylnaphthalene	2010/02/12			%	50 - 150	
	D10-Fluoranthene	2010/02/12			%	50 - 150	
	D10-Phenanthrene	2010/02/12			%	50 - 150	
	D12-Benzo(a)anthracene	2010/02/12			%	50 - 150	
	D12-Benzo(a)pyrene	2010/02/12			%	50 - 150	
	D12-Benzo(b)fluoranthene	2010/02/12			%	50 - 150	
	D12-Benzo(ghi)perylene	2010/02/12			%	50 - 150	
	D12-Benzo(k)fluoranthene	2010/02/12			%	50 - 150	
	D12-Chrysene	2010/02/12			%	50 - 150	

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB010335

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2069785 WZ	Method Blank	D12-Indeno(1,2,3-cd)pyrene	2010/02/12		102	%	50 - 150
		D12-Perylene	2010/02/12		104	%	50 - 150
		D14-Dibenzo(a,h)anthracene	2010/02/12		101	%	50 - 150
		D8-Acenaphthylene	2010/02/12		89	%	50 - 150
		D8-Naphthalene	2010/02/12		84	%	50 - 150
		1-Methylnaphthalene	2010/02/12	ND, RDL=0.10		ug	
		1-Methylphenanthrene	2010/02/12	ND, RDL=0.10		ug	
		2-Chloronaphthalene	2010/02/12	ND, RDL=0.10		ug	
		2-Methylantracene	2010/02/12	ND, RDL=0.10		ug	
		2-Methylnaphthalene	2010/02/12	ND, RDL=0.10		ug	
		3-Methylcholanthrene	2010/02/12	ND, RDL=2.0		ug	
		7,12-Dimethylbenzo(a)anthracene	2010/02/12	ND, RDL=0.10		ug	
		9,10-Dimethylantracene	2010/02/12	ND, RDL=0.40		ug	
		Acenaphthene	2010/02/12	ND, RDL=0.050		ug	
		Acenaphthylene	2010/02/12	ND, RDL=0.050		ug	
		Anthracene	2010/02/12	ND, RDL=0.050		ug	
		Benzo(a)anthracene	2010/02/12	ND, RDL=0.050		ug	
		Benzo(a)fluorene	2010/02/12	ND, RDL=0.10		ug	
		Benzo(a)pyrene	2010/02/12	ND, RDL=0.050		ug	
		Benzo(b)fluoranthene	2010/02/12	ND, RDL=0.050		ug	
		Benzo(b)fluorene	2010/02/12	ND, RDL=0.10		ug	
		Benzo(e)pyrene	2010/02/12	ND, RDL=0.10		ug	
		Benzo(g,h,i)perylene	2010/02/12	ND, RDL=0.050		ug	
		Benzo(k)fluoranthene	2010/02/12	ND, RDL=0.050		ug	
		Biphenyl	2010/02/12	ND, RDL=0.10		ug	
		Chrysene	2010/02/12	ND, RDL=0.050		ug	
		Coronene	2010/02/12	ND, RDL=0.10		ug	
		Dibenz(a,h)anthracene	2010/02/12	ND, RDL=0.050		ug	
		Dibenzo(a,e)pyrene	2010/02/12	ND, RDL=0.20		ug	
		Fluoranthene	2010/02/12	ND, RDL=0.050		ug	
		Fluorene	2010/02/12	ND, RDL=0.050		ug	
		Indeno(1,2,3-cd)pyrene	2010/02/12	ND, RDL=0.050		ug	
		m-Terphenyl	2010/02/12	ND, RDL=0.10		ug	
		Naphthalene	2010/02/12	ND, RDL=0.072		ug	
		o-Terphenyl	2010/02/12	ND, RDL=0.10		ug	
		Perylene	2010/02/12	ND, RDL=0.10		ug	
		Phenanthrene	2010/02/12	ND, RDL=0.050		ug	
		p-Terphenyl	2010/02/12	ND, RDL=0.10		ug	
		Pyrene	2010/02/12	ND, RDL=0.050		ug	
		Quinoline	2010/02/12	ND, RDL=0.40		ug	
		Tetralin	2010/02/12	ND, RDL=0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

Maxxam Analytics Inc.

Tisch Hi-Vol PUF+ Sample Collection Data Sheet

Client: Lica
 Location: Cold Lake South
 Station ID: Lica1
 Field Sample ID: LICA PUF/CLS/Feb 1, 10

Puf+ s/n: 100-1020
 Motor s/n: 1138
 Installation Date/Time: Jan 29, 10 @ 07:20 mst
 Removal Date/Time: Feb 2, 10 @ 08:10 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
01-Feb-10	02/01/2010 0:00	02/01/2010 0:00	24.00

PUF and QFF Information			
Date Received	Date Shipped	Puf Expiration Date	QFF Prep Date
28-Jan-10	02-Feb-10	08-Feb-10	????

Set Flow Rate (slpm): 230

Date of Last Calibration: 13-Jan-10

Sampling Data			
Average Pressure(mmHg)	AverageFlow (Qstd slpm)	Average Temperature (C)	Volume (Vstd m ³)
713	229	-14.9	330.35

Time set correctly prior to sampling? YES
Timer set correctly prior to sampling? YES
Sampling data saved to memory card after sampling? YES

Comments: COC #556 (out of source COC forms, used a Summa form)
GA9H1992 PUFF#1
Ran with a 102mm Quartz Fiber Filter - Sample ID - LICA QFF/CLS/Feb 1, 10

Technician Signature: _____



Your Project #: LICA
Your C.O.C. #: 0556

Attention: Shea Beaton
Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/02/17

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B013708
Received: 2010/02/04, 09:22

Sample Matrix: Filter
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PAH's in Air (CARB429mod)	2	2010/02/08	2010/02/10	BRL SOP-00201	CARB429(ARBM1,M2)mod

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

=====

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

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Total cover pages: 1

Maxxam Job #: B013708
 Report Date: 2010/02/17

 Lakeland Industry & Community Assoc.
 Client Project #: LICA

SEMI-VOLATILE ORGANICS BY GC-MS (FILTER)

Maxxam ID		FA0593	FA0594		
Sampling Date		2010/02/01	2010/02/01		
COC Number		0556	0556		
	Units	LICA	LICA	DL	QC Batch
		PUF/QFF/CLS/FEB1,10	PUF/QFF/PORT/FEB1,10		

Semivolatile Organics					
1-Methylnaphthalene	ug	1.11	0.45	0.10	2073882
1-Methylphenanthrene	ug	<0.10	<0.10	0.10	2073882
2-Chloronaphthalene	ug	<0.10	<0.10	0.10	2073882
2-Methylanthracene	ug	<0.10	<0.10	0.10	2073882
2-Methylnaphthalene	ug	2.33	0.74	0.10	2073882
3-Methylcholanthrene	ug	<2.0	<2.0	2.0	2073882
7,12-Dimethylbenzo(a)anthracene	ug	<0.10	<0.10	0.10	2073882
9,10-Dimethylanthracene	ug	<0.40	<0.40	0.40	2073882
Acenaphthene	ug	0.083	<0.050	0.050	2073882
Acenaphthylene	ug	0.315	0.138	0.050	2073882
Anthracene	ug	<0.050	<0.050	0.050	2073882
Benzo(a)anthracene	ug	0.055	<0.050	0.050	2073882
Benzo(a)fluorene	ug	<0.10	<0.10	0.10	2073882
Benzo(a)pyrene	ug	<0.050	<0.050	0.050	2073882
Benzo(b)fluoranthene	ug	0.073	<0.050	0.050	2073882
Benzo(b)fluorene	ug	<0.10	<0.10	0.10	2073882
Benzo(e)pyrene	ug	<0.10	<0.10	0.10	2073882
Benzo(g,h,i)perylene	ug	0.057	<0.050	0.050	2073882
Benzo(k)fluoranthene	ug	<0.050	<0.050	0.050	2073882
Biphenyl	ug	0.46	0.50	0.10	2073882
Chrysene	ug	0.072	0.052	0.050	2073882
Coronene	ug	<0.10	<0.10	0.10	2073882
Dibenz(a,h)anthracene	ug	<0.050	<0.050	0.050	2073882
Dibenzo(a,e)pyrene	ug	<0.20	<0.20	0.20	2073882
Fluoranthene	ug	0.281	0.130	0.050	2073882
Fluorene	ug	0.239	0.215	0.050	2073882
Indeno(1,2,3-cd)pyrene	ug	<0.050	<0.050	0.050	2073882
m-Terphenyl	ug	<0.10	<0.10	0.10	2073882
Naphthalene	ug	2.57	0.994	0.072	2073882
o-Terphenyl	ug	<0.10	<0.10	0.10	2073882
Perylene	ug	<0.10	<0.10	0.10	2073882
Phenanthrene	ug	0.752	0.487	0.050	2073882

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B013708
 Report Date: 2010/02/17

 Lakeland Industry & Community Assoc.
 Client Project #: LICA

SEMI-VOLATILE ORGANICS BY GC-MS (FILTER)

Maxxam ID		FA0593	FA0594		
Sampling Date		2010/02/01	2010/02/01		
COC Number		0556	0556		
	Units	LICA	LICA	DL	QC Batch
		PUF/QFF/CLS/FEB1,10	PUF/QFF/PORT/FEB1,10		
p-Terphenyl	ug	<0.10	<0.10	0.10	2073882
Pyrene	ug	0.190	0.070	0.050	2073882
Quinoline	ug	<0.40	<0.40	0.40	2073882
Tetralin	ug	<0.10	<0.10	0.10	2073882
Surrogate Recovery (%)					
D10-2-Methylnaphthalene	%	66	79		2073882
D10-Fluoranthene	%	120	100		2073882
D10-Fluorene (FS)	%	56	64		2073882
D10-Phenanthrene	%	104	95		2073882
D12-Benzo(a)anthracene	%	146	122		2073882
D12-Benzo(a)pyrene	%	113	106		2073882
D12-Benzo(b)fluoranthene	%	114	107		2073882
D12-Benzo(ghi)perylene	%	104	102		2073882
D12-Benzo(k)fluoranthene	%	86	89		2073882
D12-Chrysene	%	86	93		2073882
D12-Indeno(1,2,3-cd)pyrene	%	109	105		2073882
D12-Perylene	%	107	105		2073882
D14-Dibenzo(a,h)anthracene	%	108	104		2073882
D14-Terphenyl (FS)	%	85	86		2073882
D8-Acenaphthylene	%	89	96		2073882
D8-Naphthalene	%	63	78		2073882
QC Batch = Quality Control Batch					

Maxxam Job #: B013708
 Report Date: 2010/02/17

Lakeland Industry & Community Assoc.
 Client Project #: LICA

Test Summary

Maxxam ID	FA0593	Collected	2010/02/01
Sample ID	LICA PUF/QFF/CLS/FEB1,10	Shipped	
Matrix	Filter	Received	2010/02/04

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2073882	2010/02/08	2010/02/10	WZ

Maxxam ID	FA0594	Collected	2010/02/01
Sample ID	LICA PUF/QFF/PORT/FEB1,10	Shipped	
Matrix	Filter	Received	2010/02/04

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2073882	2010/02/08	2010/02/10	WZ

Maxxam Job #: B013708
Report Date: 2010/02/17

Lakeland Industry & Community Assoc.
Client Project #: LICA

GENERAL COMMENTS

PAHMS-F

7,12-Dimethylbenzo(a)anthracene and Quinoline are above 25% RSD in initial calibration. No positives found for these 2 compounds.

Internal Std area response criteria was high in Spike ,Spike:dup , Blank and Sample. Rerun with similar results. Original run reported.

Sample FA0593-01: PAHMS-F

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene it would have a value below the estimated mdl.

Since Triphenylene co-elutes with Chrysene, the maximum possible value for this compound would be 0.072ug, which is the value reported for Chrysene.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Searched for ions specific to this compound in the appropriate retention time range with no possible positive detected.

Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to this compounds in the appropriate retention time range, possible positive detected, but would fall below the mdl using Dibenzo(a,h) anthracene calibration.

Sample FA0594-01: PAHMS-F

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene it would have a value below the estimated mdl.

Since Triphenylene co-elutes with Chrysene, the maximum possible value for this compound would be 0.052ug, which is the value reported for Chrysene.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Searched for ions specific to this compound in the appropriate retention time range with no possible positive detected.

Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to this compounds in the appropriate retention time range, possible positive detected, but would fall below the mdl using Dibenzo(a,h) anthracene calibration.

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: GB013708

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2073882 WZ	Spiked Blank	D10-2-Methylnaphthalene	2010/02/10		84	%	50 - 150
		D10-Fluoranthene	2010/02/10		123	%	50 - 150
		D10-Phenanthrene	2010/02/10		107	%	50 - 150
		D12-Benzo(a)anthracene	2010/02/10		134	%	50 - 150
		D12-Benzo(a)pyrene	2010/02/10		112	%	50 - 150
		D12-Benzo(b)fluoranthene	2010/02/10		112	%	50 - 150
		D12-Benzo(ghi)perylene	2010/02/10		111	%	50 - 150
		D12-Benzo(k)fluoranthene	2010/02/10		83	%	50 - 150
		D12-Chrysene	2010/02/10		87	%	50 - 150
		D12-Indeno(1,2,3-cd)pyrene	2010/02/10		115	%	50 - 150
		D12-Perylene	2010/02/10		105	%	50 - 150
		D14-Dibenzo(a,h)anthracene	2010/02/10		113	%	50 - 150
		RPD	D8-Acenaphthylene	2010/02/10		98	%
	D8-Naphthalene		2010/02/10		83	%	50 - 150
	Spiked Blank	Acenaphthene	2010/02/10		84	%	60 - 130
		Acenaphthene	2010/02/10	4.1		%	50
	RPD	Acenaphthylene	2010/02/10		94	%	60 - 130
		Acenaphthylene	2010/02/10	5.9		%	50
	Spiked Blank	Anthracene	2010/02/10		96	%	60 - 130
		Anthracene	2010/02/10	8.5		%	50
	Spiked Blank	Benzo(a)anthracene	2010/02/10		102	%	60 - 130
		Benzo(a)anthracene	2010/02/10	3.1		%	50
	Spiked Blank	Benzo(a)pyrene	2010/02/10		97	%	60 - 130
		Benzo(a)pyrene	2010/02/10	0.9		%	50
	Spiked Blank	Benzo(b)fluoranthene	2010/02/10		97	%	60 - 130
		Benzo(b)fluoranthene	2010/02/10	5.5		%	50
	Spiked Blank	Benzo(g,h,i)perylene	2010/02/10		97	%	60 - 130
		Benzo(g,h,i)perylene	2010/02/10	1.7		%	50
	Spiked Blank	Benzo(k)fluoranthene	2010/02/10		78	%	60 - 130
		Benzo(k)fluoranthene	2010/02/10	3.5		%	50
	Spiked Blank	Chrysene	2010/02/10		81	%	60 - 130
		Chrysene	2010/02/10	5.9		%	50
	Spiked Blank	Dibenz(a,h)anthracene	2010/02/10		102	%	60 - 130
		Dibenz(a,h)anthracene	2010/02/10	2.0		%	50
	Spiked Blank	Fluoranthene	2010/02/10		114	%	60 - 130
		Fluoranthene	2010/02/10	14.3		%	50
	Spiked Blank	Fluorene	2010/02/10		88	%	60 - 130
		Fluorene	2010/02/10	3.8		%	50
	Spiked Blank	Indeno(1,2,3-cd)pyrene	2010/02/10		100	%	60 - 130
		Indeno(1,2,3-cd)pyrene	2010/02/10	1.3		%	50
Spiked Blank	Naphthalene	2010/02/10		81	%	60 - 130	
	Naphthalene	2010/02/10	3.0		%	50	
Spiked Blank	Phenanthrene	2010/02/10		98	%	60 - 130	
	Phenanthrene	2010/02/10	8.2		%	50	
Spiked Blank	Pyrene	2010/02/10		101	%	60 - 130	
	Pyrene	2010/02/10	8.7		%	50	
Method Blank	D10-2-Methylnaphthalene	2010/02/10		83	%	50 - 150	
	D10-Fluoranthene	2010/02/10		123	%	50 - 150	
	D10-Phenanthrene	2010/02/10		104	%	50 - 150	
	D12-Benzo(a)anthracene	2010/02/10		129	%	50 - 150	
	D12-Benzo(a)pyrene	2010/02/10		114	%	50 - 150	
	D12-Benzo(b)fluoranthene	2010/02/10		113	%	50 - 150	
	D12-Benzo(ghi)perylene	2010/02/10		105	%	50 - 150	
	D12-Benzo(k)fluoranthene	2010/02/10		87	%	50 - 150	
	D12-Chrysene	2010/02/10		89	%	50 - 150	

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB013708

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2073882 WZ	Method Blank	D12-Indeno(1,2,3-cd)pyrene	2010/02/10		113	%	50 - 150
		D12-Perylene	2010/02/10		108	%	50 - 150
		D14-Dibenzo(a,h)anthracene	2010/02/10		112	%	50 - 150
		D8-Acenaphthylene	2010/02/10		97	%	50 - 150
		D8-Naphthalene	2010/02/10		82	%	50 - 150
		1-Methylnaphthalene	2010/02/10	ND, RDL=0.10		ug	
		1-Methylphenanthrene	2010/02/10	ND, RDL=0.10		ug	
		2-Chloronaphthalene	2010/02/10	ND, RDL=0.10		ug	
		2-Methylanthracene	2010/02/10	ND, RDL=0.10		ug	
		2-Methylnaphthalene	2010/02/10	ND, RDL=0.10		ug	
		3-Methylcholanthrene	2010/02/10	ND, RDL=2.0		ug	
		7,12-Dimethylbenzo(a)anthracene	2010/02/10	ND, RDL=0.10		ug	
		9,10-Dimethylanthracene	2010/02/10	ND, RDL=0.40		ug	
		Acenaphthene	2010/02/10	ND, RDL=0.050		ug	
		Acenaphthylene	2010/02/10	ND, RDL=0.050		ug	
		Anthracene	2010/02/10	ND, RDL=0.050		ug	
		Benzo(a)anthracene	2010/02/10	ND, RDL=0.050		ug	
		Benzo(a)fluorene	2010/02/10	ND, RDL=0.10		ug	
		Benzo(a)pyrene	2010/02/10	ND, RDL=0.050		ug	
		Benzo(b)fluoranthene	2010/02/10	ND, RDL=0.050		ug	
		Benzo(b)fluorene	2010/02/10	ND, RDL=0.10		ug	
		Benzo(e)pyrene	2010/02/10	ND, RDL=0.10		ug	
		Benzo(g,h,i)perylene	2010/02/10	ND, RDL=0.050		ug	
		Benzo(k)fluoranthene	2010/02/10	ND, RDL=0.050		ug	
		Biphenyl	2010/02/10	ND, RDL=0.10		ug	
		Chrysene	2010/02/10	ND, RDL=0.050		ug	
		Coronene	2010/02/10	ND, RDL=0.10		ug	
		Dibenz(a,h)anthracene	2010/02/10	ND, RDL=0.050		ug	
		Dibenzo(a,e)pyrene	2010/02/10	ND, RDL=0.20		ug	
		Fluoranthene	2010/02/10	ND, RDL=0.050		ug	
		Fluorene	2010/02/10	ND, RDL=0.050		ug	
		Indeno(1,2,3-cd)pyrene	2010/02/10	ND, RDL=0.050		ug	
		m-Terphenyl	2010/02/10	ND, RDL=0.10		ug	
		Naphthalene	2010/02/10	ND, RDL=0.072		ug	
		o-Terphenyl	2010/02/10	ND, RDL=0.10		ug	
		Perylene	2010/02/10	ND, RDL=0.10		ug	
		Phenanthrene	2010/02/10	ND, RDL=0.050		ug	
		p-Terphenyl	2010/02/10	ND, RDL=0.10		ug	
		Pyrene	2010/02/10	ND, RDL=0.050		ug	
		Quinoline	2010/02/10	ND, RDL=0.40		ug	
		Tetralin	2010/02/10	ND, RDL=0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

Maxxam Analytics Inc.

Tisch Hi-Vol PUF+ Sample Collection Data Sheet

Client: Lica
 Location: Cold Lake South
 Station ID: Lica1
 Field Sample ID: LICA PUF/CLS/Feb 7, 10

Puf+ s/n: 100-1020
 Motor s/n: 1138
 Installation Date/Time: Feb 5, 10 @ 08:30 mst
 Removal Date/Time: Feb 8, 10 @ 09:10 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
07-Feb-10	02/07/2010 0:00	02/08/2010 0:00	24.00

PUF and QFF Information			
Date Received	Date Shipped	Puf Expiration Date	QFF Prep Date
04-Feb-10	08-Feb-10	15-Feb-10	????

Set Flow Rate (slpm): 230

Date of Last Calibration: 13-Jan-10

Sampling Data			
Average Pressure(mmHg)	AverageFlow (Qstd slpm)	Average Temperature (C)	Volume (Vstd m ³)
720	229	-11.1	330.35

Time set correctly prior to sampling? YES
Timer set correctly prior to sampling? YES
Sampling data saved to memory card after sampling? YES

Comments: COC # 0554(out of source COC forms, used a Summa form)

GB011353 PUFF#1

Ran with a 102mm Quartz Fiber Filter - Sample ID - LICA QFF/CLS/Feb 7, 10

Technician Signature: _____



Your C.O.C. #: 0554

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/02/19

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B016584

Received: 2010/02/11, 09:08

Sample Matrix: PUF AND FILTER

Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PAH's in Air (CARB429mod)	2	2010/02/11	2010/02/16	BRL SOP-00201	CARB429(ARBM1,M2)mod

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

=====

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Total cover pages: 1

Page 1 of 7

Page 243 of 274

Maxxam Job #: B016584
 Report Date: 2010/02/19

SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Maxxam ID		FB4027	FB4028		
Sampling Date		2010/02/07	2010/02/07		
		00:00	00:00		
COC Number		0554	0554		
	Units	LICA	LICA	DL	QC Batch
		PUF/QFF/CLS/FEB7,10	PUF/QFF/PORT/FEB7,10		

Semivolatiles Organics					
1-Methylnaphthalene	ug	0.14	0.20	0.10	2079174
1-Methylphenanthrene	ug	<0.10	<0.10	0.10	2079174
2-Chloronaphthalene	ug	<0.10	<0.10	0.10	2079174
2-Methylantracene	ug	<0.10	<0.10	0.10	2079174
2-Methylnaphthalene	ug	0.26	0.33	0.10	2079174
3-Methylcholanthrene	ug	<2.0	<2.0	2.0	2079174
7,12-Dimethylbenzo(a)anthracene	ug	<0.10	<0.10	0.10	2079174
9,10-Dimethylantracene	ug	<0.40	<0.40	0.40	2079174
Acenaphthene	ug	<0.050	<0.050	0.050	2079174
Acenaphthylene	ug	<0.050	0.085	0.050	2079174
Anthracene	ug	<0.050	<0.050	0.050	2079174
Benzo(a)anthracene	ug	<0.050	<0.050	0.050	2079174
Benzo(a)fluorene	ug	<0.10	<0.10	0.10	2079174
Benzo(a)pyrene	ug	<0.050	<0.050	0.050	2079174
Benzo(b)fluoranthene	ug	<0.050	<0.050	0.050	2079174
Benzo(b)fluorene	ug	<0.10	<0.10	0.10	2079174
Benzo(e)pyrene	ug	<0.10	<0.10	0.10	2079174
Benzo(g,h,i)perylene	ug	<0.050	<0.050	0.050	2079174
Benzo(k)fluoranthene	ug	<0.050	<0.050	0.050	2079174
Biphenyl	ug	0.19	0.23	0.10	2079174
Chrysene	ug	<0.050	<0.050	0.050	2079174
Coronene	ug	<0.10	<0.10	0.10	2079174
Dibenz(a,h)anthracene	ug	<0.050	<0.050	0.050	2079174
Dibenzo(a,e)pyrene	ug	<0.20	<0.20	0.20	2079174
Fluoranthene	ug	0.053	0.082	0.050	2079174
Fluorene	ug	0.093	0.119	0.050	2079174
Indeno(1,2,3-cd)pyrene	ug	<0.050	<0.050	0.050	2079174
m-Terphenyl	ug	<0.10	<0.10	0.10	2079174
Naphthalene	ug	0.299	0.547	0.072	2079174
o-Terphenyl	ug	<0.10	<0.10	0.10	2079174
Perylene	ug	<0.10	<0.10	0.10	2079174

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B016584
 Report Date: 2010/02/19

SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Maxxam ID		FB4027	FB4028		
Sampling Date		2010/02/07 00:00	2010/02/07 00:00		
COC Number		0554	0554		
	Units	LICA	LICA	DL	QC Batch
		PUF/QFF/CLS/FEB7,10	PUF/QFF/PORT/FEB7,10		
Phenanthrene	ug	0.195	0.203	0.050	2079174
p-Terphenyl	ug	<0.10	<0.10	0.10	2079174
Pyrene	ug	<0.050	<0.050	0.050	2079174
Quinoline	ug	<0.40	<0.40	0.40	2079174
Tetralin	ug	<0.10	<0.10	0.10	2079174
Surrogate Recovery (%)					
D10-2-Methylnaphthalene	%	65	73		2079174
D10-Fluoranthene	%	93	100		2079174
D10-Fluorene (FS)	%	50	55		2079174
D10-Phenanthrene	%	84	90		2079174
D12-Benzo(a)anthracene	%	114	106		2079174
D12-Benzo(a)pyrene	%	99	95		2079174
D12-Benzo(b)fluoranthene	%	101	99		2079174
D12-Benzo(ghi)perylene	%	90	91		2079174
D12-Benzo(k)fluoranthene	%	88	81		2079174
D12-Chrysene	%	95	83		2079174
D12-Indeno(1,2,3-cd)pyrene	%	89	90		2079174
D12-Perylene	%	100	97		2079174
D14-Dibenzo(a,h)anthracene	%	88	90		2079174
D14-Terphenyl (FS)	%	87	79		2079174
D8-Acenaphthylene	%	77	88		2079174
D8-Naphthalene	%	62	68		2079174
QC Batch = Quality Control Batch					

Maxxam Job #: B016584
 Report Date: 2010/02/19

Test Summary

Maxxam ID FB4027 **Collected** 2010/02/07
Sample ID LICA PUF/QFF/CLS/FEB7,10 **Shipped**
Matrix PUF AND FILTER **Received** 2010/02/11

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2079174	2010/02/11	2010/02/16	WZ

Maxxam ID FB4028 **Collected** 2010/02/07
Sample ID LICA PUF/QFF/PORT/FEB7,10 **Shipped**
Matrix PUF AND FILTER **Received** 2010/02/11

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2079174	2010/02/11	2010/02/16	WZ

Maxxam Job #: B016584
Report Date: 2010/02/19

GENERAL COMMENTS

PAHMS-F

Quinoline and 7,12-Dimethylbenzo(a)anthracene are above 25% RSD in initial calibration. No positives found for these 2 compounds.

Internal Std area response criteria was high in Spike:dup . Rerun with similar results. Original run reported.

Sample FB4027-01: PAHMS-F

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene and Triphenylene with Chrysene each would have a value below estimated mdl.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to these 2 compounds in the appropriate retention time range with no possible positives detected.

Sample FB4028-01: PAHMS-F

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene and Triphenylene with Chrysene each would have a value below estimated mdl.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to these 2 compounds in the appropriate retention time range with no possible positives detected.

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: GB016584

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2079174 WZ	Spiked Blank	D10-2-Methylnaphthalene	2010/02/16		69	%	50 - 150
		D10-Fluoranthene	2010/02/16		92	%	50 - 150
		D10-Phenanthrene	2010/02/16		79	%	50 - 150
		D12-Benzo(a)anthracene	2010/02/16		103	%	50 - 150
		D12-Benzo(a)pyrene	2010/02/16		91	%	50 - 150
		D12-Benzo(b)fluoranthene	2010/02/16		96	%	50 - 150
		D12-Benzo(ghi)perylene	2010/02/16		86	%	50 - 150
		D12-Benzo(k)fluoranthene	2010/02/16		81	%	50 - 150
		D12-Chrysene	2010/02/16		88	%	50 - 150
		D12-Indeno(1,2,3-cd)pyrene	2010/02/16		85	%	50 - 150
		D12-Perylene	2010/02/16		92	%	50 - 150
		D14-Dibenzo(a,h)anthracene	2010/02/16		84	%	50 - 150
		RPD	D8-Acenaphthylene	2010/02/16		70	%
	D8-Naphthalene		2010/02/16		67	%	50 - 150
	Spiked Blank	Acenaphthene	2010/02/16		68	%	60 - 130
		Acenaphthene	2010/02/16	15.3		%	50
	RPD	Acenaphthylene	2010/02/16		66	%	60 - 130
		Acenaphthylene	2010/02/16	20.1		%	50
	Spiked Blank	Anthracene	2010/02/16		65	%	60 - 130
		Anthracene	2010/02/16	19.7		%	50
	Spiked Blank	Benzo(a)anthracene	2010/02/16		86	%	60 - 130
		Benzo(a)anthracene	2010/02/16	13.3		%	50
	Spiked Blank	Benzo(a)pyrene	2010/02/16		78	%	60 - 130
		Benzo(a)pyrene	2010/02/16	16.2		%	50
	Spiked Blank	Benzo(b)fluoranthene	2010/02/16		86	%	60 - 130
		Benzo(b)fluoranthene	2010/02/16	12.9		%	50
	Spiked Blank	Benzo(g,h,i)perylene	2010/02/16		72	%	60 - 130
		Benzo(g,h,i)perylene	2010/02/16	16.1		%	50
	Spiked Blank	Benzo(k)fluoranthene	2010/02/16		75	%	60 - 130
		Benzo(k)fluoranthene	2010/02/16	34.7		%	50
	Spiked Blank	Chrysene	2010/02/16		83	%	60 - 130
		Chrysene	2010/02/16	0.8		%	50
	Spiked Blank	Dibenz(a,h)anthracene	2010/02/16		71	%	60 - 130
		Dibenz(a,h)anthracene	2010/02/16	20.3		%	50
	Spiked Blank	Fluoranthene	2010/02/16		84	%	60 - 130
		Fluoranthene	2010/02/16	21.9		%	50
	Spiked Blank	Fluorene	2010/02/16		65	%	60 - 130
		Fluorene	2010/02/16	17.6		%	50
	Spiked Blank	Indeno(1,2,3-cd)pyrene	2010/02/16		71	%	60 - 130
		Indeno(1,2,3-cd)pyrene	2010/02/16	18.5		%	50
Spiked Blank	Naphthalene	2010/02/16		64	%	60 - 130	
	Naphthalene	2010/02/16	12.1		%	50	
Spiked Blank	Phenanthrene	2010/02/16		66	%	60 - 130	
	Phenanthrene	2010/02/16	20.9		%	50	
Spiked Blank	Pyrene	2010/02/16		78	%	60 - 130	
	Pyrene	2010/02/16	20.4		%	50	
Method Blank	D10-2-Methylnaphthalene	2010/02/16		83	%	50 - 150	
	D10-Fluoranthene	2010/02/16		111	%	50 - 150	
	D10-Phenanthrene	2010/02/16		96	%	50 - 150	
	D12-Benzo(a)anthracene	2010/02/16		105	%	50 - 150	
	D12-Benzo(a)pyrene	2010/02/16		98	%	50 - 150	
	D12-Benzo(b)fluoranthene	2010/02/16		105	%	50 - 150	
	D12-Benzo(ghi)perylene	2010/02/16		102	%	50 - 150	
	D12-Benzo(k)fluoranthene	2010/02/16		82	%	50 - 150	
	D12-Chrysene	2010/02/16		88	%	50 - 150	

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB016584

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2079174 WZ	Method Blank	D12-Indeno(1,2,3-cd)pyrene	2010/02/16		100	%	50 - 150
		D12-Perylene	2010/02/16		102	%	50 - 150
		D14-Dibenzo(a,h)anthracene	2010/02/16		99	%	50 - 150
		D8-Acenaphthylene	2010/02/16		85	%	50 - 150
		D8-Naphthalene	2010/02/16		81	%	50 - 150
		1-Methylnaphthalene	2010/02/16	ND, RDL=0.10		ug	
		1-Methylphenanthrene	2010/02/16	ND, RDL=0.10		ug	
		2-Chloronaphthalene	2010/02/16	ND, RDL=0.10		ug	
		2-Methylanthracene	2010/02/16	ND, RDL=0.10		ug	
		2-Methylnaphthalene	2010/02/16	ND, RDL=0.10		ug	
		3-Methylcholanthrene	2010/02/16	ND, RDL=2.0		ug	
		7,12-Dimethylbenzo(a)anthracene	2010/02/16	ND, RDL=0.10		ug	
		9,10-Dimethylanthracene	2010/02/16	ND, RDL=0.40		ug	
		Acenaphthene	2010/02/16	ND, RDL=0.050		ug	
		Acenaphthylene	2010/02/16	ND, RDL=0.050		ug	
		Anthracene	2010/02/16	ND, RDL=0.050		ug	
		Benzo(a)anthracene	2010/02/16	ND, RDL=0.050		ug	
		Benzo(a)fluorene	2010/02/16	ND, RDL=0.10		ug	
		Benzo(a)pyrene	2010/02/16	ND, RDL=0.050		ug	
		Benzo(b)fluoranthene	2010/02/16	ND, RDL=0.050		ug	
		Benzo(b)fluorene	2010/02/16	ND, RDL=0.10		ug	
		Benzo(e)pyrene	2010/02/16	ND, RDL=0.10		ug	
		Benzo(g,h,i)perylene	2010/02/16	ND, RDL=0.050		ug	
		Benzo(k)fluoranthene	2010/02/16	ND, RDL=0.050		ug	
		Biphenyl	2010/02/16	ND, RDL=0.10		ug	
		Chrysene	2010/02/16	ND, RDL=0.050		ug	
		Coronene	2010/02/16	ND, RDL=0.10		ug	
		Dibenz(a,h)anthracene	2010/02/16	ND, RDL=0.050		ug	
		Dibenzo(a,e)pyrene	2010/02/16	ND, RDL=0.20		ug	
		Fluoranthene	2010/02/16	ND, RDL=0.050		ug	
		Fluorene	2010/02/16	ND, RDL=0.050		ug	
		Indeno(1,2,3-cd)pyrene	2010/02/16	ND, RDL=0.050		ug	
		m-Terphenyl	2010/02/16	ND, RDL=0.10		ug	
		Naphthalene	2010/02/16	ND, RDL=0.072		ug	
		o-Terphenyl	2010/02/16	ND, RDL=0.10		ug	
		Perylene	2010/02/16	ND, RDL=0.10		ug	
		Phenanthrene	2010/02/16	ND, RDL=0.050		ug	
		p-Terphenyl	2010/02/16	ND, RDL=0.10		ug	
		Pyrene	2010/02/16	ND, RDL=0.050		ug	
		Quinoline	2010/02/16	ND, RDL=0.40		ug	
		Tetralin	2010/02/16	ND, RDL=0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

Maxxam Analytics Inc.

Tisch Hi-Vol PUF+ Sample Collection Data Sheet

Client: Lica
 Location: Cold Lake South
 Station ID: Lica1
 Field Sample ID: LICA PUF/CLS/Feb 13, 10

Puf+ s/n: 100-1020
 Motor s/n: 1138
 Installation Date/Time: Feb 12, 10 @ 12:05 mst
 Removal Date/Time: Feb 16, 10 @ 13:30 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
13-Feb-10	02/13/2010 0:00	02/14/2010 0:00	24.00

PUF and QFF Information			
Date Received	Date Shipped	Puf Expiration Date	QFF Prep Date
11-Feb-10	17-Feb-10	23-Feb-10	????

Set Flow Rate (slpm): 230
 Date of Last Calibration: 13-Jan-10

Sampling Data			
Average Pressure(mmHg)	AverageFlow (Qstd slpm)	Average Temperature (C)	Volume (Vstd m ³)
722	229	-12.9	330.34

Time set correctly prior to sampling? YES
Timer set correctly prior to sampling? YES
Sampling data saved to memory card after sampling? YES

Comments: COC # (out of source COC forms, used a Summa form)
GB011370 PUFF#1
Ran with a 102mm Quartz Fiber Filter - Sample ID - LICA QFF/CLS/Feb 13, 10

Technician Signature: _____



Your Project #: LICA
Your C.O.C. #: 2847

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/01

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B020056

Received: 2010/02/19, 09:29

Sample Matrix: Filter
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PAH's in Air (CARB429mod)	2	2010/02/19	2010/02/26	BRL SOP-00201	CARB429(ARBM1,M2)mod

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

=====

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

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Total cover pages: 1

Maxxam Job #: B020056
 Report Date: 2010/03/01

 Lakeland Industry & Community Assoc.
 Client Project #: LICA

SEMI-VOLATILE ORGANICS BY GC-MS (FILTER)

Maxxam ID		FD0168	FD0169		
Sampling Date		2010/02/13	2010/02/13		
COC Number		2847	2847		
	Units	LICA	LICA	RDL	QC Batch
		PUF/QFF/CLS/FEB13,10	PUF/QFF/PORT/FEB13,10		

Semivolatile Organics					
1-Methylnaphthalene	ug	0.28	0.41	0.10	2083575
1-Methylphenanthrene	ug	<0.10	<0.10	0.10	2083575
2-Chloronaphthalene	ug	<0.10	<0.10	0.10	2083575
2-Methylantracene	ug	<0.10	<0.10	0.10	2083575
2-Methylnaphthalene	ug	0.58	0.68	0.10	2083575
3-Methylcholanthrene	ug	<2.0	<2.0	2.0	2083575
7,12-Dimethylbenzo(a)anthracene	ug	<0.10	<0.10	0.10	2083575
9,10-Dimethylantracene	ug	<0.40	<0.40	0.40	2083575
Acenaphthene	ug	<0.050	0.065	0.050	2083575
Acenaphthylene	ug	0.051	0.073	0.050	2083575
Anthracene	ug	<0.050	<0.050	0.050	2083575
Benzo(a)anthracene	ug	<0.050	<0.050	0.050	2083575
Benzo(a)fluorene	ug	<0.10	<0.10	0.10	2083575
Benzo(a)pyrene	ug	<0.050	<0.050	0.050	2083575
Benzo(b)fluoranthene	ug	<0.050	<0.050	0.050	2083575
Benzo(b)fluorene	ug	<0.10	<0.10	0.10	2083575
Benzo(e)pyrene	ug	<0.10	<0.10	0.10	2083575
Benzo(g,h,i)perylene	ug	0.061	0.061	0.050	2083575
Benzo(k)fluoranthene	ug	<0.050	<0.050	0.050	2083575
Biphenyl	ug	0.21	0.39	0.10	2083575
Chrysene	ug	<0.050	<0.050	0.050	2083575
Coronene	ug	<0.10	<0.10	0.10	2083575
Dibenz(a,h)anthracene	ug	0.055	0.056	0.050	2083575
Dibenzo(a,e)pyrene	ug	<0.20	<0.20	0.20	2083575
Fluoranthene	ug	0.073	0.062	0.050	2083575
Fluorene	ug	0.106	0.150	0.050	2083575
Indeno(1,2,3-cd)pyrene	ug	0.053	0.052	0.050	2083575
m-Terphenyl	ug	<0.10	<0.10	0.10	2083575
Naphthalene	ug	0.492	0.819	0.072	2083575
o-Terphenyl	ug	<0.10	<0.10	0.10	2083575
Perylene	ug	<0.10	<0.10	0.10	2083575
Phenanthrene	ug	0.259	0.314	0.050	2083575

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B020056
 Report Date: 2010/03/01

Lakeland Industry & Community Assoc.
 Client Project #: LICA

SEMI-VOLATILE ORGANICS BY GC-MS (FILTER)

Maxxam ID		FD0168	FD0169		
Sampling Date		2010/02/13	2010/02/13		
COC Number		2847	2847		
	Units	LICA	LICA	RDL	QC Batch
		PUF/QFF/CLS/FEB13,10	PUF/QFF/PORT/FEB13,10		

p-Terphenyl	ug	<0.10	<0.10	0.10	2083575
Pyrene	ug	<0.050	<0.050	0.050	2083575
Quinoline	ug	<0.40	<0.40	0.40	2083575
Tetralin	ug	<0.10	<0.10	0.10	2083575
Surrogate Recovery (%)					
D10-2-Methylnaphthalene	%	73	78		2083575
D10-Fluoranthene	%	94	90		2083575
D10-Fluorene (FS)	%	68	77		2083575
D10-Phenanthrene	%	88	88		2083575
D12-Benzo(a)anthracene	%	99	98		2083575
D12-Benzo(a)pyrene	%	92	92		2083575
D12-Benzo(b)fluoranthene	%	109	106		2083575
D12-Benzo(ghi)perylene	%	94	94		2083575
D12-Benzo(k)fluoranthene	%	79	85		2083575
D12-Chrysene	%	101	102		2083575
D12-Indeno(1,2,3-cd)pyrene	%	95	93		2083575
D12-Perylene	%	94	95		2083575
D14-Dibenzo(a,h)anthracene	%	96	93		2083575
D14-Terphenyl (FS)	%	92	93		2083575
D8-Acenaphthylene	%	78	79		2083575
D8-Naphthalene	%	70	76		2083575

QC Batch = Quality Control Batch

Maxxam Job #: B020056
 Report Date: 2010/03/01

Lakeland Industry & Community Assoc.
 Client Project #: LICA

Test Summary

Maxxam ID FD0168
Sample ID LICA PUF/QFF/CLS/FEB13,10
Matrix Filter
Collected 2010/02/13
Shipped
Received 2010/02/19

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2083575	2010/02/19	2010/02/26	WZ

Maxxam ID FD0169
Sample ID LICA PUF/QFF/PORT/FEB13,10
Matrix Filter
Collected 2010/02/13
Shipped
Received 2010/02/19

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2083575	2010/02/19	2010/02/26	WZ

Maxxam Job #: B020056
Report Date: 2010/03/01

Lakeland Industry & Community Assoc.
Client Project #: LICA

GENERAL COMMENTS

PAHMS-F

7,12-Dimethylbenzo(a)anthracene is above 25% RSD in initial calibration. No positive found for this compounds.

Naphthalene positive found in blank. Samples should be considered to be possibly contaminated to the level found in the blank.

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene and Triphenylene with Chrysene each would have a value below estimated mdl.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to these 2 compounds in the appropriate retention time range with no possible positives detected.

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: GB020056

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2083575 WZ	Spiked Blank	D10-2-Methylnaphthalene	2010/02/26		82	%	50 - 150
		D10-Fluoranthene	2010/02/26		102	%	50 - 150
		D10-Phenanthrene	2010/02/26		90	%	50 - 150
		D12-Benzo(a)anthracene	2010/02/26		101	%	50 - 150
		D12-Benzo(a)pyrene	2010/02/26		96	%	50 - 150
		D12-Benzo(b)fluoranthene	2010/02/26		108	%	50 - 150
		D12-Benzo(ghi)perylene	2010/02/26		97	%	50 - 150
		D12-Benzo(k)fluoranthene	2010/02/26		88	%	50 - 150
		D12-Chrysene	2010/02/26		100	%	50 - 150
		D12-Indeno(1,2,3-cd)pyrene	2010/02/26		98	%	50 - 150
		D12-Perylene	2010/02/26		97	%	50 - 150
		D14-Dibenzo(a,h)anthracene	2010/02/26		99	%	50 - 150
		RPD	D8-Acenaphthylene	2010/02/26		81	%
	D8-Naphthalene		2010/02/26		81	%	50 - 150
	Spiked Blank	Acenaphthene	2010/02/26		77	%	60 - 130
		Acenaphthene	2010/02/26	0.9		%	50
	RPD	Acenaphthylene	2010/02/26		78	%	60 - 130
		Acenaphthylene	2010/02/26	0.1		%	50
	Spiked Blank	Anthracene	2010/02/26		79	%	60 - 130
		Anthracene	2010/02/26	3.0		%	50
	Spiked Blank	Benzo(a)anthracene	2010/02/26		96	%	60 - 130
		Benzo(a)anthracene	2010/02/26	3.8		%	50
	Spiked Blank	Benzo(a)pyrene	2010/02/26		86	%	60 - 130
		Benzo(a)pyrene	2010/02/26	5.1		%	50
	Spiked Blank	Benzo(b)fluoranthene	2010/02/26		79	%	60 - 130
		Benzo(b)fluoranthene	2010/02/26	1.6		%	50
	Spiked Blank	Benzo(g,h,i)perylene	2010/02/26		90	%	60 - 130
		Benzo(g,h,i)perylene	2010/02/26	3.7		%	50
	Spiked Blank	Benzo(k)fluoranthene	2010/02/26		101	%	60 - 130
		Benzo(k)fluoranthene	2010/02/26	1.9		%	50
	Spiked Blank	Chrysene	2010/02/26		91	%	60 - 130
		Chrysene	2010/02/26	7.0		%	50
	Spiked Blank	Dibenz(a,h)anthracene	2010/02/26		94	%	60 - 130
		Dibenz(a,h)anthracene	2010/02/26	4.5		%	50
	Spiked Blank	Fluoranthene	2010/02/26		95	%	60 - 130
		Fluoranthene	2010/02/26	4.2		%	50
	Spiked Blank	Fluorene	2010/02/26		77	%	60 - 130
		Fluorene	2010/02/26	0.2		%	50
	Spiked Blank	Indeno(1,2,3-cd)pyrene	2010/02/26		91	%	60 - 130
		Indeno(1,2,3-cd)pyrene	2010/02/26	4.2		%	50
Spiked Blank	Naphthalene	2010/02/26		78	%	60 - 130	
	Naphthalene	2010/02/26	1		%	50	
Spiked Blank	Phenanthrene	2010/02/26		83	%	60 - 130	
	Phenanthrene	2010/02/26	3.5		%	50	
Spiked Blank	Pyrene	2010/02/26		87	%	60 - 130	
	Pyrene	2010/02/26	2.5		%	50	
Method Blank	D10-2-Methylnaphthalene	2010/02/26		83	%	50 - 150	
	D10-Fluoranthene	2010/02/26		90	%	50 - 150	
	D10-Phenanthrene	2010/02/26		83	%	50 - 150	
	D12-Benzo(a)anthracene	2010/02/26		98	%	50 - 150	
	D12-Benzo(a)pyrene	2010/02/26		97	%	50 - 150	
	D12-Benzo(b)fluoranthene	2010/02/26		108	%	50 - 150	
	D12-Benzo(ghi)perylene	2010/02/26		94	%	50 - 150	
	D12-Benzo(k)fluoranthene	2010/02/26		90	%	50 - 150	
	D12-Chrysene	2010/02/26		105	%	50 - 150	

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB020056

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2083575 WZ	Method Blank	D12-Indeno(1,2,3-cd)pyrene	2010/02/26		94	%	50 - 150
		D12-Perylene	2010/02/26		98	%	50 - 150
		D14-Dibenzo(a,h)anthracene	2010/02/26		95	%	50 - 150
		D8-Acenaphthylene	2010/02/26		81	%	50 - 150
		D8-Naphthalene	2010/02/26		84	%	50 - 150
		1-Methylnaphthalene	2010/02/26	ND, RDL=0.10		ug	
		1-Methylphenanthrene	2010/02/26	ND, RDL=0.10		ug	
		2-Chloronaphthalene	2010/02/26	ND, RDL=0.10		ug	
		2-Methylanthracene	2010/02/26	ND, RDL=0.10		ug	
		2-Methylnaphthalene	2010/02/26	ND, RDL=0.10		ug	
		3-Methylcholanthrene	2010/02/26	ND, RDL=2.0		ug	
		7,12-Dimethylbenzo(a)anthracene	2010/02/26	ND, RDL=0.10		ug	
		9,10-Dimethylanthracene	2010/02/26	ND, RDL=0.40		ug	
		Acenaphthene	2010/02/26	ND, RDL=0.050		ug	
		Acenaphthylene	2010/02/26	ND, RDL=0.050		ug	
		Anthracene	2010/02/26	ND, RDL=0.050		ug	
		Benzo(a)anthracene	2010/02/26	ND, RDL=0.050		ug	
		Benzo(a)fluorene	2010/02/26	ND, RDL=0.10		ug	
		Benzo(a)pyrene	2010/02/26	ND, RDL=0.050		ug	
		Benzo(b)fluoranthene	2010/02/26	ND, RDL=0.050		ug	
		Benzo(b)fluorene	2010/02/26	ND, RDL=0.10		ug	
		Benzo(e)pyrene	2010/02/26	ND, RDL=0.10		ug	
		Benzo(g,h,i)perylene	2010/02/26	ND, RDL=0.050		ug	
		Benzo(k)fluoranthene	2010/02/26	ND, RDL=0.050		ug	
		Biphenyl	2010/02/26	ND, RDL=0.10		ug	
		Chrysene	2010/02/26	ND, RDL=0.050		ug	
		Coronene	2010/02/26	ND, RDL=0.10		ug	
		Dibenz(a,h)anthracene	2010/02/26	ND, RDL=0.050		ug	
		Dibenzo(a,e)pyrene	2010/02/26	ND, RDL=0.20		ug	
		Fluoranthene	2010/02/26	ND, RDL=0.050		ug	
		Fluorene	2010/02/26	ND, RDL=0.050		ug	
		Indeno(1,2,3-cd)pyrene	2010/02/26	ND, RDL=0.050		ug	
		m-Terphenyl	2010/02/26	ND, RDL=0.10		ug	
		Naphthalene	2010/02/26	0.072, RDL=0.072		ug	
		o-Terphenyl	2010/02/26	ND, RDL=0.10		ug	
		Perylene	2010/02/26	ND, RDL=0.10		ug	
		Phenanthrene	2010/02/26	ND, RDL=0.050		ug	
		p-Terphenyl	2010/02/26	ND, RDL=0.10		ug	
		Pyrene	2010/02/26	ND, RDL=0.050		ug	
		Quinoline	2010/02/26	ND, RDL=0.40		ug	
		Tetralin	2010/02/26	ND, RDL=0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

Maxxam Analytics Inc.

Tisch Hi-Vol PUF+ Sample Collection Data Sheet

Client: Lica
 Location: Cold Lake South
 Station ID: Lica1
 Field Sample ID: LICA PUF/CLS/Feb 19, 10

Puf+ s/n: 100-1020
 Motor s/n: 1138
 Installation Date/Time: Feb 18, 10 @ 08:40 mst
 Removal Date/Time: Feb 24, 10 @ 11:05 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
19-Feb-10	02/19/2010 0:00	02/20/2010 0:00	24.00

PUF and QFF Information			
Date Received	Date Shipped	Puf Expiration Date	QFF Prep Date
17-Feb-10	24-Feb-10	26-Feb-10	????

Set Flow Rate (slpm): 230

Date of Last Calibration: 13-Jan-10

Sampling Data			
Average Pressure(mmHg)	AverageFlow (Qstd slpm)	Average Temperature (C)	Volume (Vstd m ³)
718	229	-9.2	330.35

Time set correctly prior to sampling? YES
Timer set correctly prior to sampling? YES
Sampling data saved to memory card after sampling? YES

Comments: COC # (out of source COC forms, used a Summa form)
GB011404 PUFF#1
Ran with a 102mm Quartz Fiber Filter - Sample ID - LICA QFF/CLS/Feb 19, 10

Technician Signature: _____



Your Project #: LICA
Your C.O.C. #: 2899

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/09

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B023243
Received: 2010/02/26, 09:04

Sample Matrix: AIR
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Canister Pressure (TO-15)	2	N/A	2010/03/04	BRL SOP-00304	EPA TO-15
Volatile Organics in Air (TO-15) ¶	2	N/A	2010/03/04	BRL SOP-00304	EPA TO-15

Sample Matrix: Filter
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PAH's in Air (CARB429mod)	2	2010/03/01	2010/03/03	BRL SOP-00201	CARB429(ARBM1,M2)mod

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO14A. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO14A on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Maxxam for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

=====



Your Project #: LICA
Your C.O.C. #: 2899

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/09

CERTIFICATE OF ANALYSIS

-2-

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

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Total cover pages: 2

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Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

RESULTS OF ANALYSES OF AIR

Maxxam ID		FE6107	FE6108	
Sampling Date		2010/02/19	2010/02/19	
COC Number		2899	2899	
	Units	LICAVOC/CLS/FEB19,10/7914	LICAVOC/PORT/FEB19,10/7814	QC Batch

Volatile Organics				
Pressure on Receipt	psig	19	20	2093742

QC Batch = Quality Control Batch

Maxxam Job #: B023243
Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
Client Project #: LICA

SEMI-VOLATILE ORGANICS BY GC-MS (FILTER)

Maxxam ID		FE6109	FE6110		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAQFF/PUF/CLS/FEB19,10	LICAQFF/PUF/PORT/FEB19,10	RDL	QC Batch
Semivolatile Organics					
1-Methylnaphthalene	ug	0.25	0.14	0.10	2090086
1-Methylphenanthrene	ug	<0.10	<0.10	0.10	2090086
2-Chloronaphthalene	ug	<0.10	<0.10	0.10	2090086
2-Methylanthracene	ug	<0.10	<0.10	0.10	2090086
2-Methylnaphthalene	ug	0.50	0.26	0.10	2090086
3-Methylcholanthrene	ug	<2.0	<2.0	2.0	2090086
7,12-Dimethylbenzo(a)anthracene	ug	<0.10	<0.10	0.10	2090086
9,10-Dimethylanthracene	ug	<0.40	<0.40	0.40	2090086
Acenaphthene	ug	0.062	<0.050	0.050	2090086
Acenaphthylene	ug	0.106	<0.050	0.050	2090086
Anthracene	ug	<0.050	<0.050	0.050	2090086
Benzo(a)anthracene	ug	<0.050	<0.050	0.050	2090086
Benzo(a)fluorene	ug	<0.10	<0.10	0.10	2090086
Benzo(a)pyrene	ug	<0.050	<0.050	0.050	2090086
Benzo(b)fluoranthene	ug	<0.050	<0.050	0.050	2090086
Benzo(b)fluorene	ug	<0.10	<0.10	0.10	2090086
Benzo(e)pyrene	ug	<0.10	<0.10	0.10	2090086
Benzo(g,h,i)perylene	ug	<0.050	<0.050	0.050	2090086
Benzo(k)fluoranthene	ug	<0.050	<0.050	0.050	2090086
Biphenyl	ug	0.20	0.15	0.10	2090086
Chrysene	ug	<0.050	<0.050	0.050	2090086
Coronene	ug	<0.10	<0.10	0.10	2090086
Dibenz(a,h)anthracene	ug	<0.050	<0.050	0.050	2090086
Dibenzo(a,e)pyrene	ug	<0.20	<0.20	0.20	2090086
Fluoranthene	ug	0.069	0.053	0.050	2090086
Fluorene	ug	0.133	0.099	0.050	2090086
Indeno(1,2,3-cd)pyrene	ug	<0.050	<0.050	0.050	2090086
m-Terphenyl	ug	<0.10	<0.10	0.10	2090086
Naphthalene	ug	0.383	0.171	0.072	2090086
o-Terphenyl	ug	<0.10	<0.10	0.10	2090086
Perylene	ug	<0.10	<0.10	0.10	2090086
Phenanthrene	ug	0.255	0.251	0.050	2090086
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

SEMI-VOLATILE ORGANICS BY GC-MS (FILTER)

Maxxam ID		FE6109	FE6110		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAQFF/PUF/CLS/FEB19,10	LICAQFF/PUF/PORT/FEB19,10	RDL	QC Batch
p-Terphenyl	ug	<0.10	<0.10	0.10	2090086
Pyrene	ug	0.052	<0.050	0.050	2090086
Quinoline	ug	<0.40	<0.40	0.40	2090086
Tetralin	ug	<0.10	<0.10	0.10	2090086
Surrogate Recovery (%)					
D10-2-Methylnaphthalene	%	81	79		2090086
D10-Fluoranthene	%	94	105		2090086
D10-Fluorene (FS)	%	68	62		2090086
D10-Phenanthrene	%	102	100		2090086
D12-Benzo(a)anthracene	%	99	108		2090086
D12-Benzo(a)pyrene	%	101	106		2090086
D12-Benzo(b)fluoranthene	%	118	94		2090086
D12-Benzo(ghi)perylene	%	98	100		2090086
D12-Benzo(k)fluoranthene	%	76	102		2090086
D12-Chrysene	%	102	108		2090086
D12-Indeno(1,2,3-cd)pyrene	%	95	99		2090086
D12-Perylene	%	102	106		2090086
D14-Dibenzo(a,h)anthracene	%	94	100		2090086
D14-Terphenyl (FS)	%	94	95		2090086
D8-Acenaphthylene	%	92	95		2090086
D8-Naphthalene	%	78	74		2090086
QC Batch = Quality Control Batch					

Maxxam Job #: B023243
Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
Client Project #: LICA

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FE6107	FE6108		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAVOC/CLS/FEB19,10/7914	LICAVOC/PORT/FEB19,10/7814	RDL	QC Batch

Volatile Organics					
2,2,4-Trimethylpentane	ppbv	<0.20	<0.20	0.20	2093792
Carbon Disulfide	ppbv	<0.50	<0.50	0.50	2093792
Propene	ppbv	<0.30	<0.30	0.30	2093792
Vinyl Acetate	ppbv	<0.20	<0.20	0.20	2093792
Vinyl Bromide	ppbv	<0.20	<0.20	0.20	2093792
Dichlorodifluoromethane (FREON 12)	ppbv	0.56	0.55	0.20	2093792
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	<0.17	0.17	2093792
Chloromethane	ppbv	0.56	0.58	0.30	2093792
Vinyl Chloride	ppbv	<0.18	<0.18	0.18	2093792
Chloroethane	ppbv	<0.30	<0.30	0.30	2093792
1,3-Butadiene	ppbv	<0.50	<0.50	0.50	2093792
Trichlorofluoromethane (FREON 11)	ppbv	0.30	0.30	0.20	2093792
Trichlorotrifluoroethane	ppbv	<0.15	<0.15	0.15	2093792
Ethanol	ppbv	<2.3	<2.3	2.3	2093792
2-propanol	ppbv	<3.0	<3.0	3.0	2093792
2-Propanone	ppbv	1.00	1.49	0.80	2093792
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	<3.0	3.0	2093792
Methyl Isobutyl Ketone	ppbv	<3.2	<3.2	3.2	2093792
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	<2.0	2.0	2093792
Methyl t-butyl ether (MTBE)	ppbv	<0.20	<0.20	0.20	2093792
Ethyl Acetate	ppbv	<2.2	<2.2	2.2	2093792
1,1-Dichloroethylene	ppbv	<0.25	<0.25	0.25	2093792
cis-1,2-Dichloroethylene	ppbv	<0.19	<0.19	0.19	2093792
trans-1,2-Dichloroethylene	ppbv	<0.20	<0.20	0.20	2093792
Methylene Chloride(Dichloromethane)	ppbv	0.37	0.37	0.30	2093792
Chloroform	ppbv	<0.15	<0.15	0.15	2093792
Carbon Tetrachloride	ppbv	<0.30	<0.30	0.30	2093792
1,1-Dichloroethane	ppbv	<0.20	<0.20	0.20	2093792
1,2-Dichloroethane	ppbv	<0.20	<0.20	0.20	2093792
Ethylene Dibromide	ppbv	<0.17	<0.17	0.17	2093792
1,1,1-Trichloroethane	ppbv	<0.30	<0.30	0.30	2093792
1,1,2-Trichloroethane	ppbv	<0.15	<0.15	0.15	2093792

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B023243
 Report Date: 2010/03/09

 Lakeland Industry & Community Assoc.
 Client Project #: LICA

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FE6107	FE6108		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAVOC/CLS/FEB19,10/7914	LICAVOC/PORT/FEB19,10/7814	RDL	QC Batch
1,1,2,2-Tetrachloroethane	ppbv	<0.20	<0.20	0.20	2093792
cis-1,3-Dichloropropene	ppbv	<0.18	<0.18	0.18	2093792
trans-1,3-Dichloropropene	ppbv	<0.17	<0.17	0.17	2093792
1,2-Dichloropropane	ppbv	<0.40	<0.40	0.40	2093792
Bromomethane	ppbv	<0.18	<0.18	0.18	2093792
Bromoform	ppbv	<0.20	<0.20	0.20	2093792
Bromodichloromethane	ppbv	<0.20	<0.20	0.20	2093792
Dibromochloromethane	ppbv	<0.20	<0.20	0.20	2093792
Heptane	ppbv	<0.30	<0.30	0.30	2093792
Trichloroethylene	ppbv	<0.30	<0.30	0.30	2093792
Tetrachloroethylene	ppbv	<0.20	<0.20	0.20	2093792
Benzene	ppbv	<0.18	<0.18	0.18	2093792
Toluene	ppbv	<0.20	<0.20	0.20	2093792
Ethylbenzene	ppbv	<0.20	<0.20	0.20	2093792
p+m-Xylene	ppbv	<0.37	<0.37	0.37	2093792
o-Xylene	ppbv	<0.20	<0.20	0.20	2093792
Styrene	ppbv	<0.20	<0.20	0.20	2093792
1,3,5-Trimethylbenzene	ppbv	<0.50	<0.50	0.50	2093792
1,2,4-Trimethylbenzene	ppbv	<0.50	<0.50	0.50	2093792
4-ethyltoluene	ppbv	<2.2	<2.2	2.2	2093792
Chlorobenzene	ppbv	<0.20	<0.20	0.20	2093792
Benzyl chloride	ppbv	<1.0	<1.0	1.0	2093792
1,3-Dichlorobenzene	ppbv	<0.40	<0.40	0.40	2093792
1,4-Dichlorobenzene	ppbv	<0.40	<0.40	0.40	2093792
1,2-Dichlorobenzene	ppbv	<0.40	<0.40	0.40	2093792
1,2,4-Trichlorobenzene	ppbv	<2.0	<2.0	2.0	2093792
Hexachlorobutadiene	ppbv	<3.0	<3.0	3.0	2093792
Hexane	ppbv	<0.30	<0.30	0.30	2093792
Cyclohexane	ppbv	<0.20	<0.20	0.20	2093792
Tetrahydrofuran	ppbv	<0.40	<0.40	0.40	2093792
1,4-Dioxane	ppbv	<2.0	<2.0	2.0	2093792
Xylene (Total)	ppbv	<0.60	<0.60	0.60	2093792
Surrogate Recovery (%)					
Bromochloromethane	%	82	78		2093792
QC Batch = Quality Control Batch					

Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FE6107	FE6108		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAVOC/CLS/FEB19,10/7914	LICAVOC/PORT/FEB19,10/7814	RDL	QC Batch
D5-Chlorobenzene	%	67	66		2093792
Difluorobenzene	%	79	74		2093792
QC Batch = Quality Control Batch					

Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

Test Summary

Maxxam ID FE6107
Sample ID LICAVOC/CLS/FEB19,10/7914
Matrix AIR
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2093742	N/A	2010/03/04	S_S
Volatile Organics in Air (TO-15)	GC/MS	2093792	N/A	2010/03/04	S_S

Maxxam ID FE6108
Sample ID LICAVOC/PORT/FEB19,10/7814
Matrix AIR
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2093742	N/A	2010/03/04	S_S
Volatile Organics in Air (TO-15)	GC/MS	2093792	N/A	2010/03/04	S_S

Maxxam ID FE6108 Dup
Sample ID LICAVOC/PORT/FEB19,10/7814
Matrix AIR
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Volatile Organics in Air (TO-15)	GC/MS	2093792	N/A	2010/03/04	S_S

Maxxam ID FE6109
Sample ID LICAQFF/PUF/CLS/FEB19,10
Matrix Filter
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2090086	2010/03/01	2010/03/03	WZ

Maxxam ID FE6110
Sample ID LICAQFF/PUF/PORT/FEB19,10
Matrix Filter
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2090086	2010/03/01	2010/03/03	WZ

Maxxam Job #: B023243
Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
Client Project #: LICA

GENERAL COMMENTS

PAHMS-F

7,12-Dimethylbenzo(a)anthracene is above 25% RSD in initial calibration. No positives found for this compounds.

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug

. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene and Triphenylene with Chrysene each would have a value below estimated mdl.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to these 2 compounds in the appropriate retention time range with no possible positives detected.

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
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 Client Project #: LICA
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Quality Assurance Report
 Maxxam Job Number: GB023243

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits		
2090086 WZ	Spiked Blank	D10-2-Methylnaphthalene	2010/03/03		85	%	50 - 150		
		D10-Fluoranthene	2010/03/03		93	%	50 - 150		
		D10-Phenanthrene	2010/03/03		97	%	50 - 150		
		D12-Benzo(a)anthracene	2010/03/03		88	%	50 - 150		
		D12-Benzo(a)pyrene	2010/03/03		99	%	50 - 150		
		D12-Benzo(b)fluoranthene	2010/03/03		110	%	50 - 150		
		D12-Benzo(ghi)perylene	2010/03/03		91	%	50 - 150		
		D12-Benzo(k)fluoranthene	2010/03/03		89	%	50 - 150		
		D12-Chrysene	2010/03/03		106	%	50 - 150		
		D12-Indeno(1,2,3-cd)pyrene	2010/03/03		93	%	50 - 150		
		D12-Perylene	2010/03/03		99	%	50 - 150		
		D14-Dibenzo(a,h)anthracene	2010/03/03		94	%	50 - 150		
		RPD	Acenaphthylene	2010/03/03	2.7			%	50
	Acenaphthylene		2010/03/03		77		%	60 - 130	
	Acenaphthylene		2010/03/03	2.7			%	50	
	Anthracene		2010/03/03		73		%	60 - 130	
	Anthracene		2010/03/03	7.2			%	50	
	Benzo(a)anthracene		2010/03/03		96		%	60 - 130	
	Benzo(a)anthracene		2010/03/03	2.7			%	50	
	Benzo(a)pyrene		2010/03/03		82		%	60 - 130	
	Benzo(a)pyrene		2010/03/03	3.6			%	50	
	Benzo(b)fluoranthene		2010/03/03		72		%	60 - 130	
	Benzo(b)fluoranthene		2010/03/03	1.4			%	50	
	Benzo(g,h,i)perylene		2010/03/03		79		%	60 - 130	
	Benzo(g,h,i)perylene		2010/03/03	0.3			%	50	
	Benzo(k)fluoranthene		2010/03/03		100		%	60 - 130	
	Benzo(k)fluoranthene		2010/03/03	0.8			%	50	
	Spiked Blank		Chrysene	2010/03/03		87		%	60 - 130
			Chrysene	2010/03/03	2.0			%	50
		Dibenz(a,h)anthracene	2010/03/03		80		%	60 - 130	
		Dibenz(a,h)anthracene	2010/03/03	1.6			%	50	
		Fluoranthene	2010/03/03		89		%	60 - 130	
		Fluoranthene	2010/03/03	9.8			%	50	
		Fluorene	2010/03/03		76		%	60 - 130	
		Fluorene	2010/03/03	3.9			%	50	
		Indeno(1,2,3-cd)pyrene	2010/03/03		79		%	60 - 130	
		Indeno(1,2,3-cd)pyrene	2010/03/03	2.1			%	50	
		Naphthalene	2010/03/03		82		%	60 - 130	
		Naphthalene	2010/03/03	0.5			%	50	
		Phenanthrene	2010/03/03		71		%	60 - 130	
Phenanthrene		2010/03/03	3.7			%	50		
Pyrene		2010/03/03		81		%	60 - 130		
Pyrene		2010/03/03	8.5			%	50		
Method Blank	D10-2-Methylnaphthalene	2010/03/03		83		%	50 - 150		
	D10-Fluoranthene	2010/03/03		94		%	50 - 150		
	D10-Phenanthrene	2010/03/03		95		%	50 - 150		
	D12-Benzo(a)anthracene	2010/03/03		83		%	50 - 150		
	D12-Benzo(a)pyrene	2010/03/03		96		%	50 - 150		
	D12-Benzo(b)fluoranthene	2010/03/03		110		%	50 - 150		
	D12-Benzo(ghi)perylene	2010/03/03		92		%	50 - 150		
	D12-Benzo(k)fluoranthene	2010/03/03		83		%	50 - 150		
	D12-Chrysene	2010/03/03		103		%	50 - 150		

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Quality Assurance Report (Continued)

Maxxam Job Number: GB023243

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits	
2090086 WZ	Method Blank	D12-Indeno(1,2,3-cd)pyrene	2010/03/03		88	%	50 - 150	
		D12-Perylene	2010/03/03		99	%	50 - 150	
		D14-Dibenzo(a,h)anthracene	2010/03/03		89	%	50 - 150	
		D8-Acenaphthylene	2010/03/03		79	%	50 - 150	
		D8-Naphthalene	2010/03/03		83	%	50 - 150	
		1-Methylnaphthalene	2010/03/03		ND, RDL=0.10		ug	
		1-Methylphenanthrene	2010/03/03		ND, RDL=0.10		ug	
		2-Chloronaphthalene	2010/03/03		ND, RDL=0.10		ug	
		2-Methylantracene	2010/03/03		ND, RDL=0.10		ug	
		2-Methylnaphthalene	2010/03/03		ND, RDL=0.10		ug	
		3-Methylcholanthrene	2010/03/03		ND, RDL=2.0		ug	
		7,12-Dimethylbenzo(a)anthracene	2010/03/03		ND, RDL=0.10		ug	
		9,10-Dimethylantracene	2010/03/03		ND, RDL=0.40		ug	
		Acenaphthene	2010/03/03		ND, RDL=0.050		ug	
		Acenaphthylene	2010/03/03		ND, RDL=0.050		ug	
		Anthracene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(a)anthracene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(a)fluorene	2010/03/03		ND, RDL=0.10		ug	
		Benzo(a)pyrene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(b)fluoranthene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(b)fluorene	2010/03/03		ND, RDL=0.10		ug	
		Benzo(e)pyrene	2010/03/03		ND, RDL=0.10		ug	
		Benzo(g,h,i)perylene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(k)fluoranthene	2010/03/03		ND, RDL=0.050		ug	
		Biphenyl	2010/03/03		ND, RDL=0.10		ug	
		Chrysene	2010/03/03		ND, RDL=0.050		ug	
		Coronene	2010/03/03		ND, RDL=0.10		ug	
		Dibenz(a,h)anthracene	2010/03/03		ND, RDL=0.050		ug	
		Dibenzo(a,e)pyrene	2010/03/03		ND, RDL=0.20		ug	
		Fluoranthene	2010/03/03		ND, RDL=0.050		ug	
		Fluorene	2010/03/03		ND, RDL=0.050		ug	
		Indeno(1,2,3-cd)pyrene	2010/03/03		ND, RDL=0.050		ug	
		m-Terphenyl	2010/03/03		ND, RDL=0.10		ug	
		Naphthalene	2010/03/03		ND, RDL=0.072		ug	
		o-Terphenyl	2010/03/03		ND, RDL=0.10		ug	
		Perylene	2010/03/03		ND, RDL=0.10		ug	
		Phenanthrene	2010/03/03		ND, RDL=0.050		ug	
		p-Terphenyl	2010/03/03		ND, RDL=0.10		ug	
		Pyrene	2010/03/03		ND, RDL=0.050		ug	
		Quinoline	2010/03/03		ND, RDL=0.40		ug	
Tetralin	2010/03/03		ND, RDL=0.10		ug			
2093792 S_S	Spiked Blank	Bromochloromethane	2010/03/04		105	%	60 - 140	
		D5-Chlorobenzene	2010/03/04		104	%	60 - 140	
		Difluorobenzene	2010/03/04		106	%	60 - 140	
		2,2,4-Trimethylpentane	2010/03/04		97	%	70 - 130	
		Carbon Disulfide	2010/03/04		84	%	70 - 130	
		Propene	2010/03/04		81	%	70 - 130	
		Vinyl Acetate	2010/03/04		104	%	70 - 130	
		Vinyl Bromide	2010/03/04		94	%	70 - 130	
		Dichlorodifluoromethane (FREON 12)	2010/03/04		95	%	70 - 130	
		1,2-Dichlorotetrafluoroethane	2010/03/04		80	%	70 - 130	
		Chloromethane	2010/03/04		82	%	70 - 130	
		Vinyl Chloride	2010/03/04		85	%	70 - 130	
		Chloroethane	2010/03/04		82	%	70 - 130	
1,3-Butadiene	2010/03/04		76	%	70 - 130			

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Quality Assurance Report (Continued)

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2093792 S_S	Spiked Blank	Trichlorofluoromethane (FREON 11)	2010/03/04		103	%	70 - 130
		Trichlorotrifluoroethane	2010/03/04		88	%	70 - 130
		Ethanol	2010/03/04		91	%	70 - 130
		2-propanol	2010/03/04		93	%	70 - 130
		2-Propanone	2010/03/04		110	%	70 - 130
		Methyl Ethyl Ketone (2-Butanone)	2010/03/04		112	%	70 - 130
		Methyl Isobutyl Ketone	2010/03/04		103	%	70 - 130
		Methyl Butyl Ketone (2-Hexanone)	2010/03/04		110	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/03/04		91	%	70 - 130
		Ethyl Acetate	2010/03/04		94	%	70 - 130
		1,1-Dichloroethylene	2010/03/04		96	%	70 - 130
		cis-1,2-Dichloroethylene	2010/03/04		91	%	70 - 130
		trans-1,2-Dichloroethylene	2010/03/04		92	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/03/04		84	%	70 - 130
		Chloroform	2010/03/04		91	%	70 - 130
		Carbon Tetrachloride	2010/03/04		111	%	70 - 130
		1,1-Dichloroethane	2010/03/04		86	%	70 - 130
		1,2-Dichloroethane	2010/03/04		98	%	70 - 130
		Ethylene Dibromide	2010/03/04		100	%	70 - 130
		1,1,1-Trichloroethane	2010/03/04		104	%	70 - 130
		1,1,2-Trichloroethane	2010/03/04		93	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/03/04		94	%	70 - 130
		cis-1,3-Dichloropropene	2010/03/04		104	%	70 - 130
		trans-1,3-Dichloropropene	2010/03/04		108	%	70 - 130
		1,2-Dichloropropane	2010/03/04		84	%	70 - 130
		Bromomethane	2010/03/04		83	%	70 - 130
		Bromoform	2010/03/04		124	%	70 - 130
		Bromodichloromethane	2010/03/04		111	%	70 - 130
		Dibromochloromethane	2010/03/04		117	%	70 - 130
		Heptane	2010/03/04		100	%	70 - 130
		Trichloroethylene	2010/03/04		93	%	70 - 130
		Tetrachloroethylene	2010/03/04		100	%	70 - 130
		Benzene	2010/03/04		82	%	70 - 130
		Toluene	2010/03/04		97	%	70 - 130
		Ethylbenzene	2010/03/04		96	%	70 - 130
		p+m-Xylene	2010/03/04		99	%	70 - 130
		o-Xylene	2010/03/04		102	%	70 - 130
		Styrene	2010/03/04		86	%	70 - 130
		1,3,5-Trimethylbenzene	2010/03/04		102	%	70 - 130
		1,2,4-Trimethylbenzene	2010/03/04		103	%	70 - 130
		4-ethyltoluene	2010/03/04		107	%	70 - 130
		Chlorobenzene	2010/03/04		91	%	70 - 130
		Benzyl chloride	2010/03/04		113	%	70 - 130
		1,3-Dichlorobenzene	2010/03/04		102	%	70 - 130
		1,4-Dichlorobenzene	2010/03/04		102	%	70 - 130
		1,2-Dichlorobenzene	2010/03/04		102	%	70 - 130
		1,2,4-Trichlorobenzene	2010/03/04		107	%	70 - 130
		Hexachlorobutadiene	2010/03/04		118	%	70 - 130
		Hexane	2010/03/04		91	%	70 - 130
		Cyclohexane	2010/03/04		101	%	70 - 130
		Tetrahydrofuran	2010/03/04		97	%	70 - 130
		1,4-Dioxane	2010/03/04		89	%	70 - 130
	Method Blank	Bromochloromethane	2010/03/04		86	%	60 - 140
		D5-Chlorobenzene	2010/03/04		72	%	60 - 140
		Difluorobenzene	2010/03/04		86	%	60 - 140

Lakeland Industry & Community Assoc.
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Quality Assurance Report (Continued)

Maxxam Job Number: GB023243

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2093792 S_S	Method Blank	2,2,4-Trimethylpentane	2010/03/04	ND, RDL=0.20		ppbv	
		Carbon Disulfide	2010/03/04	ND, RDL=0.50		ppbv	
		Propene	2010/03/04	ND, RDL=0.30		ppbv	
		Vinyl Acetate	2010/03/04	ND, RDL=0.20		ppbv	
		Vinyl Bromide	2010/03/04	ND, RDL=0.20		ppbv	
		Dichlorodifluoromethane (FREON 12)	2010/03/04	ND, RDL=0.20		ppbv	
		1,2-Dichlorotetrafluoroethane	2010/03/04	ND, RDL=0.17		ppbv	
		Chloromethane	2010/03/04	ND, RDL=0.30		ppbv	
		Vinyl Chloride	2010/03/04	ND, RDL=0.18		ppbv	
		Chloroethane	2010/03/04	ND, RDL=0.30		ppbv	
		1,3-Butadiene	2010/03/04	ND, RDL=0.50		ppbv	
		Trichlorofluoromethane (FREON 11)	2010/03/04	ND, RDL=0.20		ppbv	
		Trichlorotrifluoroethane	2010/03/04	ND, RDL=0.15		ppbv	
		Ethanol	2010/03/04	ND, RDL=2.3		ppbv	
		2-propanol	2010/03/04	ND, RDL=3.0		ppbv	
		2-Propanone	2010/03/04	ND, RDL=0.80		ppbv	
		Methyl Ethyl Ketone (2-Butanone)	2010/03/04	ND, RDL=3.0		ppbv	
		Methyl Isobutyl Ketone	2010/03/04	ND, RDL=3.2		ppbv	
		Methyl Butyl Ketone (2-Hexanone)	2010/03/04	ND, RDL=2.0		ppbv	
		Methyl t-butyl ether (MTBE)	2010/03/04	ND, RDL=0.20		ppbv	
		Ethyl Acetate	2010/03/04	ND, RDL=2.2		ppbv	
		1,1-Dichloroethylene	2010/03/04	ND, RDL=0.25		ppbv	
		cis-1,2-Dichloroethylene	2010/03/04	ND, RDL=0.19		ppbv	
		trans-1,2-Dichloroethylene	2010/03/04	ND, RDL=0.20		ppbv	
		Methylene Chloride(Dichloromethane)	2010/03/04	ND, RDL=0.30		ppbv	
		Chloroform	2010/03/04	ND, RDL=0.15		ppbv	
		Carbon Tetrachloride	2010/03/04	ND, RDL=0.30		ppbv	
		1,1-Dichloroethane	2010/03/04	ND, RDL=0.20		ppbv	
		1,2-Dichloroethane	2010/03/04	ND, RDL=0.20		ppbv	
		Ethylene Dibromide	2010/03/04	ND, RDL=0.17		ppbv	
		1,1,1-Trichloroethane	2010/03/04	ND, RDL=0.30		ppbv	
		1,1,2-Trichloroethane	2010/03/04	ND, RDL=0.15		ppbv	
		1,1,2,2-Tetrachloroethane	2010/03/04	ND, RDL=0.20		ppbv	
		cis-1,3-Dichloropropene	2010/03/04	ND, RDL=0.18		ppbv	
		trans-1,3-Dichloropropene	2010/03/04	ND, RDL=0.17		ppbv	
		1,2-Dichloropropane	2010/03/04	ND, RDL=0.40		ppbv	
		Bromomethane	2010/03/04	ND, RDL=0.18		ppbv	
		Bromoform	2010/03/04	ND, RDL=0.20		ppbv	
		Bromodichloromethane	2010/03/04	ND, RDL=0.20		ppbv	
		Dibromochloromethane	2010/03/04	ND, RDL=0.20		ppbv	
		Heptane	2010/03/04	ND, RDL=0.30		ppbv	
		Trichloroethylene	2010/03/04	ND, RDL=0.30		ppbv	
		Tetrachloroethylene	2010/03/04	ND, RDL=0.20		ppbv	
		Benzene	2010/03/04	ND, RDL=0.18		ppbv	
		Toluene	2010/03/04	ND, RDL=0.20		ppbv	
		Ethylbenzene	2010/03/04	ND, RDL=0.20		ppbv	
		p+m-Xylene	2010/03/04	ND, RDL=0.37		ppbv	
		o-Xylene	2010/03/04	ND, RDL=0.20		ppbv	
		Styrene	2010/03/04	ND, RDL=0.20		ppbv	
		1,3,5-Trimethylbenzene	2010/03/04	ND, RDL=0.50		ppbv	
		1,2,4-Trimethylbenzene	2010/03/04	ND, RDL=0.50		ppbv	
		4-ethyltoluene	2010/03/04	ND, RDL=2.2		ppbv	
		Chlorobenzene	2010/03/04	ND, RDL=0.20		ppbv	
		Benzyl chloride	2010/03/04	ND, RDL=1.0		ppbv	
		1,3-Dichlorobenzene	2010/03/04	ND, RDL=0.40		ppbv	

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2093792 S_S	Method Blank	1,4-Dichlorobenzene	2010/03/04	ND, RDL=0.40		ppbv	
		1,2-Dichlorobenzene	2010/03/04	ND, RDL=0.40		ppbv	
		1,2,4-Trichlorobenzene	2010/03/04	ND, RDL=2.0		ppbv	
		Hexachlorobutadiene	2010/03/04	ND, RDL=3.0		ppbv	
		Hexane	2010/03/04	ND, RDL=0.30		ppbv	
		Cyclohexane	2010/03/04	ND, RDL=0.20		ppbv	
		Tetrahydrofuran	2010/03/04	ND, RDL=0.40		ppbv	
		1,4-Dioxane	2010/03/04	ND, RDL=2.0		ppbv	
		Xylene (Total)	2010/03/04	ND, RDL=0.60		ppbv	
	RPD - Sample/Sample Dup	2,2,4-Trimethylpentane	2010/03/04	NC		%	25
		Carbon Disulfide	2010/03/04	NC		%	25
		Propene	2010/03/04	NC		%	25
		Vinyl Acetate	2010/03/04	NC		%	25
		Vinyl Bromide	2010/03/04	NC		%	25
		Dichlorodifluoromethane (FREON 12)	2010/03/04	NC		%	25
		1,2-Dichlorotetrafluoroethane	2010/03/04	NC		%	25
		Chloromethane	2010/03/04	NC		%	25
		Vinyl Chloride	2010/03/04	NC		%	25
		Chloroethane	2010/03/04	NC		%	25
		1,3-Butadiene	2010/03/04	NC		%	25
		Trichlorofluoromethane (FREON 11)	2010/03/04	NC		%	25
		Trichlorotrifluoroethane	2010/03/04	NC		%	25
		Ethanol	2010/03/04	NC		%	25
		2-propanol	2010/03/04	NC		%	25
		2-Propanone	2010/03/04	NC		%	25
		Methyl Ethyl Ketone (2-Butanone)	2010/03/04	NC		%	25
		Methyl Isobutyl Ketone	2010/03/04	NC		%	25
		Methyl Butyl Ketone (2-Hexanone)	2010/03/04	NC		%	25
		Methyl t-butyl ether (MTBE)	2010/03/04	NC		%	25
		Ethyl Acetate	2010/03/04	NC		%	25
		1,1-Dichloroethylene	2010/03/04	NC		%	25
		cis-1,2-Dichloroethylene	2010/03/04	NC		%	25
		trans-1,2-Dichloroethylene	2010/03/04	NC		%	25
		Methylene Chloride(Dichloromethane)	2010/03/04	NC		%	25
		Chloroform	2010/03/04	NC		%	25
		Carbon Tetrachloride	2010/03/04	NC		%	25
		1,1-Dichloroethane	2010/03/04	NC		%	25
		1,2-Dichloroethane	2010/03/04	NC		%	25
		Ethylene Dibromide	2010/03/04	NC		%	25
		1,1,1-Trichloroethane	2010/03/04	NC		%	25
		1,1,2-Trichloroethane	2010/03/04	NC		%	25
		1,1,2,2-Tetrachloroethane	2010/03/04	NC		%	25
		cis-1,3-Dichloropropene	2010/03/04	NC		%	25
		trans-1,3-Dichloropropene	2010/03/04	NC		%	25
		1,2-Dichloropropane	2010/03/04	NC		%	25
		Bromomethane	2010/03/04	NC		%	25
		Bromoform	2010/03/04	NC		%	25
		Bromodichloromethane	2010/03/04	NC		%	25
		Dibromochloromethane	2010/03/04	NC		%	25
		Heptane	2010/03/04	NC		%	25
		Trichloroethylene	2010/03/04	NC		%	25
		Tetrachloroethylene	2010/03/04	NC		%	25
		Benzene	2010/03/04	NC		%	25

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB023243

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2093792 S_S	RPD - Sample/Sample Dup	Toluene	2010/03/04	NC		%	25
		Ethylbenzene	2010/03/04	NC		%	25
		p+m-Xylene	2010/03/04	NC		%	25
		o-Xylene	2010/03/04	NC		%	25
		Styrene	2010/03/04	NC		%	25
		1,3,5-Trimethylbenzene	2010/03/04	NC		%	25
		1,2,4-Trimethylbenzene	2010/03/04	NC		%	25
		4-ethyltoluene	2010/03/04	NC		%	25
		Chlorobenzene	2010/03/04	NC		%	25
		Benzyl chloride	2010/03/04	NC		%	25
		1,3-Dichlorobenzene	2010/03/04	NC		%	25
		1,4-Dichlorobenzene	2010/03/04	NC		%	25
		1,2-Dichlorobenzene	2010/03/04	NC		%	25
		1,2,4-Trichlorobenzene	2010/03/04	NC		%	25
		Hexachlorobutadiene	2010/03/04	NC		%	25
		Hexane	2010/03/04	NC		%	25
		Cyclohexane	2010/03/04	NC		%	25
		Tetrahydrofuran	2010/03/04	NC		%	25
		1,4-Dioxane	2010/03/04	NC		%	25
		Xylene (Total)	2010/03/04	NC		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Lakeland Industry & Community Association

Maskwa Monitoring Site
Ambient Air Monitoring
Data Report
For
February 2010

Prepared By:



March 16, 2010

Lakeland Industry & Community Association

Ambient Air Monitoring

Maskwa

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Introduction

The following Ambient Air Monitoring report was prepared for:

Mr. Mike Bisaga
Lakeland Industry & Community Association
Box 8237
5107W – 50 Street
Bonnyville, Alberta
T9N 2J5

Monitoring Location: Maskwa
Data Period: February 2010

The monthly ambient data report:

- Prepared by Lily Lin
- Reviewed by Craig Snider

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.

The calibrations conducted at the LICA - Maskwa Air Monitoring Stations conform to the following Maxxam Analytics Standard Operation Procedures:

- CAL SOP-00211
- CAL SOP-00209
- CAL SOP-00213
- CAL SOP-00214
- CAL SOP-00208

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. All calibration's and maintenance conforms to the procedures outlined in the *Air Monitoring Directive, Appendix A-10, Section 1.6*.

MONTHLY CONTINUOUS DATA SUMMARY

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION – MASKWA

Continuous Ambient Monitoring – February 2010

LICA MASKWA SITE						MAXIMUM VALUES						OPERATIONAL TIME (PERCENT)	
						OBJECTIVES			EXCEEDENCES		MONTHLY AVERAGE		1-HOUR
PARAMETER	1-HR	24-HR	1-HR	24-HR	READING	DAY	HOUR	WIND SPEED (KPH)	WIND DIRECTION (DEGREES)	READING			DAY
SO2 (PPB)	172	57	0	0	0.56	17	18	4	3.9	291(WNW)	3.7	18	99.7
H2S (PPB)	10	3	0	0	0.09	1	VAR	VAR	VAR	VAR	0.5	10	99.7
THC (PPM)	-	-	-	-	2.32	3.7	2	16	4.3	219(SW)	2.9	10	99.7
NOx (PPB)	-	-	-	-	4.44	33	16	10	1.4	219(SW)	15.8	16	99.7
NO (PPB)	-	-	-	-	0.44	18	16	10	104	219(SW)	3.8	16	99.7
NO ₂ (PPB)	212	106	0	0	3.68	22	11	1	0.7	174(S)	11.5	10	99.7
VECTOR WS (KPH)	-	-	-	-	4.55	11.4	27	16	-	107(ESE)	8.1	7	98.1
VECTOR WD (DEGREES)	-	-	-	-	156(SSE)	-	-	-	-	-	-	-	98.1
RELATIVE HUMIDITY (%)	-	-	-	-	71.01	86	16, 18	VAR	VAR	VAR	81.6	12	99.9
TEMPERATURE (DEG C)	-	-	-	-	-9.34	8.0	16	14	2.5	256(WSW)	-1.1	27	99.9
BAROMETRIC PRESSURE (MILIBAR)	-	-	-	-	942	956	13	22	3.8	138(SE)	951.7	13	99.9
PRECIPITATION (MM)	-	-	-	-	0.00	0.0	ALL	ALL	VAR	VAR	0.0	ALL	100.0

VAR-VARIOUS

General Monthly Summary

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 – Maskwa

Sulphur Dioxide (PPB)

- Analyzer make / model - API 100E, S/N: 508

No operational issue was observed during the month. The sample pump was rebuilt following the as found points on February 17th. After that, the analyzer was allowed time to stabilize, then an analog output was calibrated. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information.

Hydrogen Sulphide (PPB)

- Analyzer make / model - API 101E, S/N: 511

No operational issue was observed during the month. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information.

Total HydroCarbon (PPM)

- Analyzer make / model –TECO 51C-LT, S/N: 436609738

No operational issue was observed during the month. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information.

General Monthly Summary

AQM STATION – LICA – Maskwa

Nitrogen Dioxide (PPB)

- Analyzer make / model - API 200E, S/N:594

No operational issue was observed during the month. The inlet filter was changed before the monthly calibration was started. The Cal gas flow was temporarily halted during the initial span point. The problem was corrected and the point was repeated. Data was corrected using daily zero information.

Vector Wind Speed (KPH) & Vector Wind Direction (DEG)

- System make / model - Climatronics MIII replaced to Met One 50.5H, S/N: H10703

The wind system is reported as vector wind speed and vector wind direction. The wind system is reported as vector wind speed and vector wind direction. It was noticed that the both wind speed and wind direction had not read correctly since February 6th, hour of 23:00. Upon arrival the site on February 7th, it was noticed that the wind system sensor head was covered in frost. Found that there was no power going to the heater control PCB; checked for +15vdc from the heater power supply. Found that the power supply was generating the correct voltage, but the connection on the –15vdc wire was poor; the murrett connecting the two wires was not on well. Reconnected wire, the heater works correctly, and wind system works. Performed zero/span check on the wind system – all good. 11 hours of data were invalidated due to this issue.

Relative Humidity (PERCENT)

- System make / model - Met One 083

No operational issues observed during the month.

Precipitation (MM)

- System make / model - Met One 387

The tipping bucket was connected to the logger on February 17th. The sensor was cleaned and leveled. Verified tipping by pouring water into the funnel section to initiate 15 tips, the logger registered 1.5mm precipitation – works well. There were 274 hours of data recorded this month since the tipping bucket was connected. The operational uptime is 100%.

General Monthly Summary

AQM STATION – LICA – Maskwa

Barometric Pressure (MILLIBAR)

- System make / model - Met One 092

No operation issue was observed during the month.

Ambient Temperature (DEGC)

- System make / model - Met One 060

No operational issue was observed during the month.

Trailer Temperature (DEG C)

- System make / model – R&R 61

No operational issue was observed during the month.

Standard Deviation Wind Direction (DEG)

- System make / model – Climatronics MIII replaced to Met One 50.5H

No operational issue was observed during the month.

General Monthly Summary

AQM STATION – LICA – Maskwa

Datalogger

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

No operational issue was observed during the month.

Trailer

No issues with the station.

Continuous Monitoring

Monthly Summaries, Graphs & Wind Roses

Sulphur Dioxide

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - MASKWA
FEBRUARY 2010
SULPHUR DIOXIDE (SO₂) hourly averages in ppb

MST		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		
DAY	DAY	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.	
1	1	0	0	0	0	0	0	0	0	0	M	M	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0.0	22	
2	2	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	
3	3	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	
4	4	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	
5	5	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	
6	6	0	0	0	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	7	0	0	0	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	8	0	0	0	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	
9	9	0	0	0	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	
10	10	0	0	0	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	
11	11	0	0	0	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	
12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
13	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
14	14	0	0	0	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	
15	15	0	0	0	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	
16	16	0	0	0	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	
17	17	0	0	0	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	
18	18	7	5	5	9	17	9	3	1	3	1	1	3	6	5	4	1	0	0	0	0	0	0	0	0	0	0.0	24	
19	19	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
20	20	0	0	0	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	
21	21	0	0	0	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	
22	22	0	0	0	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	
23	23	0	0	0	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	
24	24	0	0	0	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	
25	25	0	0	0	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	
26	26	0	0	0	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	
27	27	0	0	0	0	1	0	0	0	5	4	4	4	IZS	3	6	4	7	8	8	9	5	4	4	4	6	9	3.6	24
28	28	8	7	2	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	0	0	0	0	0	0	8	1.5	24
HOURLY MAX		8	7	5	9	17	9	4	1	5	4	16	11	6	6	4	7	8	8	9	5	4	4	4	8				
HOURLY AVG		0.6	0.5	0.3	0.4	0.7	0.6	0.3	0.1	0.4	0.3	1.2	1.2	1.0	1.3	0.8	0.7	0.5	0.5	0.4	0.4	0.3	0.2	0.4	0.8				

STATUS FLAG CODES

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

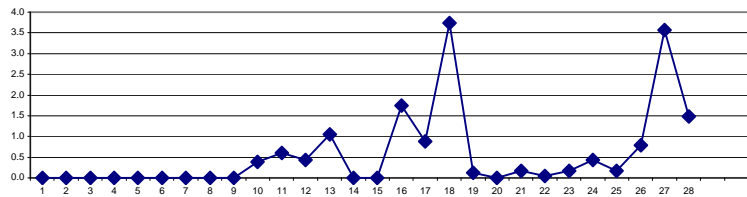
OBJECTIVE LIMIT:

ALBERTA ENVIRONMENT:	1-HR	172	PPB	24-HR	57	PPB
----------------------	------	-----	-----	-------	----	-----

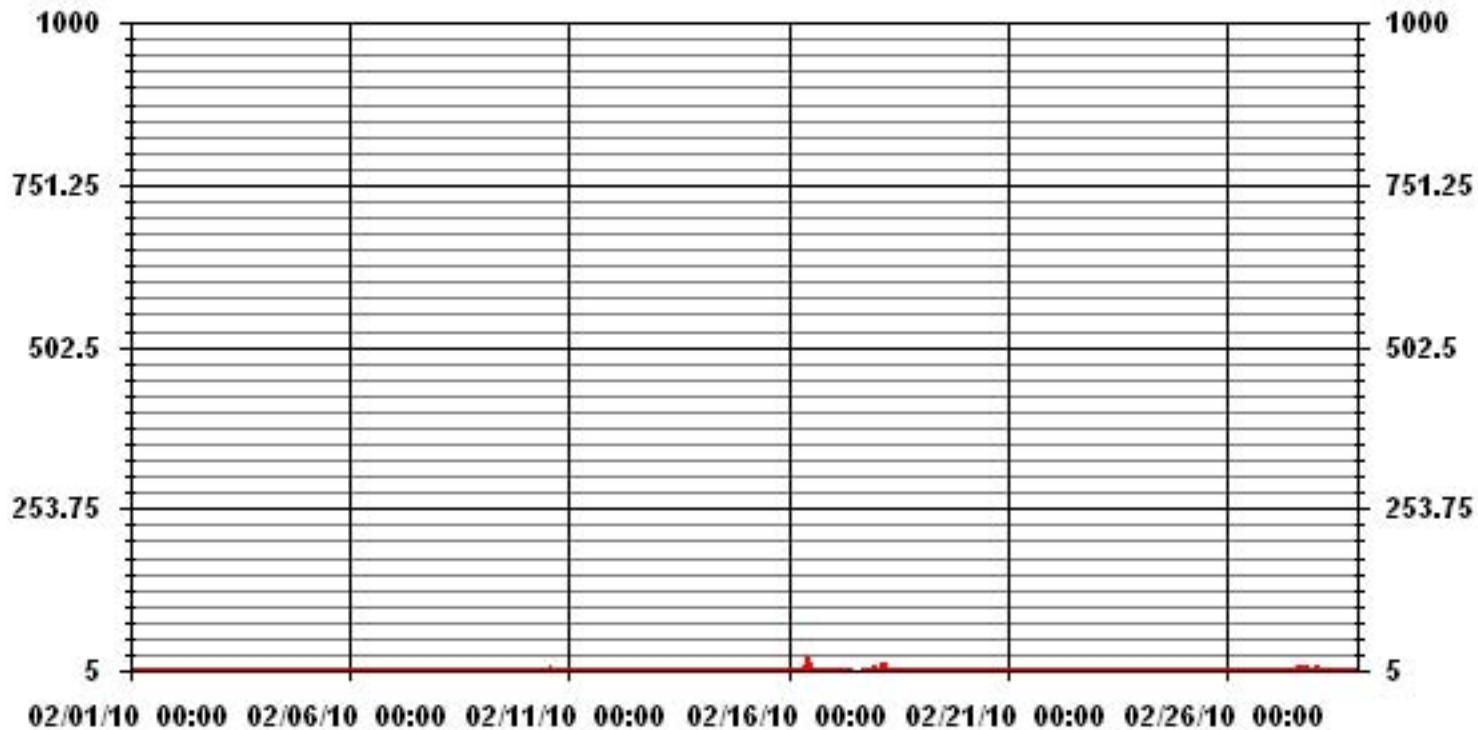
MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0					
NUMBER OF 24-HR EXCEEDENCES:	0					
NUMBER OF NON-ZERO READINGS:	120					
MAXIMUM 1-HR AVERAGE:	17	PPB	@ HOUR(S)	4	ON DAY(S)	18
MAXIMUM 24-HR AVERAGE:	3.7	PPB			ON DAY(S)	18
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	7	HRS	AMD OPERATION UPTIME:	99.7	%	
STANDARD DEVIATION:	1.74		MONTHLY AVERAGE:	0.56	PPB	

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



— LICA30 SO2_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION -MASKWA

FEBRUARY 2010

SULPHUR DIOXIDE MAX instantaneous maximum in ppt

MST		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 START	HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.	
DAY																													
1		0	0	0	0	0	0	0	0	0	M	M	M	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0.0	21
2		0	0	0	0	0	0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	2	2	2	2	0.2	24
3		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	0.0	24
4		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	0.0	24
5		0	0	0	0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	0	0	1	1	0	0	0	1	0.1	24	
6		0	0	0	0	1	1	1	1	0	IZS	0	0	0	1	0	2	3	1	0	0	0	0	0	0	3	0.5	24	
7		0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0.1	24	
8		0	0	0	0	0	1	1	IZS	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0.2	24	
9		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	
10		0	0	0	0	0	IZS	1	1	0	1	0	0	7	14	4	0	1	0	0	0	0	0	0	0	14	1.3	24	
11		0	0	0	0	IZS	15	12	4	0	0	0	5	4	2	2	1	1	0	0	0	0	0	0	0	15	2.0	24	
12		0	3	2	IZS	2	3	3	3	4	5	4	4	3	2	2	1	3	3	5	5	5	2	0	0	5	2.8	24	
13		0	0	IZS	0	0	0	0	0	0	2	7	8	6	5	4	1	0	0	0	0	0	0	0	0	8	1.4	24	
14		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	
15		IZS	0	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
16		0	0	3	2	0	0	0	0	0	2	45	47	5	16	9	0	0	0	0	0	0	0	0	0	47	5.6	24	
17		0	0	0	0	0	0	0	0	0	C	C	C	C	C	C	C	C	C	1	2	2	IZS	9	19	19	2.4	24	
18		25	23	8	17	19	18	5	3	15	2	3	9	13	7	6	4	1	1	1	1	IZS	0	6	8	25	8.5	24	
19		2	1	1	1	1	0	0	0	0	0	0	0	0	0	5	0	0	0	0	IZS	0	0	0	0	5	0.5	24	
20		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	1	0.0	24	
21		0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	2	IZS	2	2	2	1	0	0	2	0.7	24	
22		0	0	0	0	0	0	0	0	0	0	0	0	0	9	1	IZS	0	0	0	0	0	0	0	0	9	0.4	24	
23		0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	IZS	0	0	1	1	1	1	0	0	1	0.3	24	
24		1	0	0	0	0	0	0	0	0	0	0	1	2	2	IZS	9	2	2	1	1	1	1	0	0	9	1.0	24	
25		0	0	0	0	0	0	0	0	0	1	1	1	1	IZS	0	1	1	1	1	1	1	1	1	1	1	0.6	24	
26		1	1	1	0	0	0	0	0	0	1	1	12	IZS	3	1	2	3	6	1	1	2	1	2	3	12	1.8	24	
27		1	0	0	1	2	1	1	1	9	8	11	IZS	10	8	7	10	11	13	13	10	7	7	9	10	13	6.5	24	
28		11	10	5	2	1	1	1	1	2	2	IZS	2	2	2	2	2	2	2	1	1	1	1	0	0	11	2.3	24	
HOURLY MAX		25	23	8	17	19	18	12	4	15	8	45	47	13	16	9	10	11	13	13	10	7	7	9	19				
HOURLY AVG		1.5	1.4	0.7	0.9	1.0	1.5	0.9	0.5	1.1	1.0	3.0	3.8	2.2	2.6	1.9	1.6	1.2	1.2	1.0	1.0	0.9	0.6	1.1	1.6				

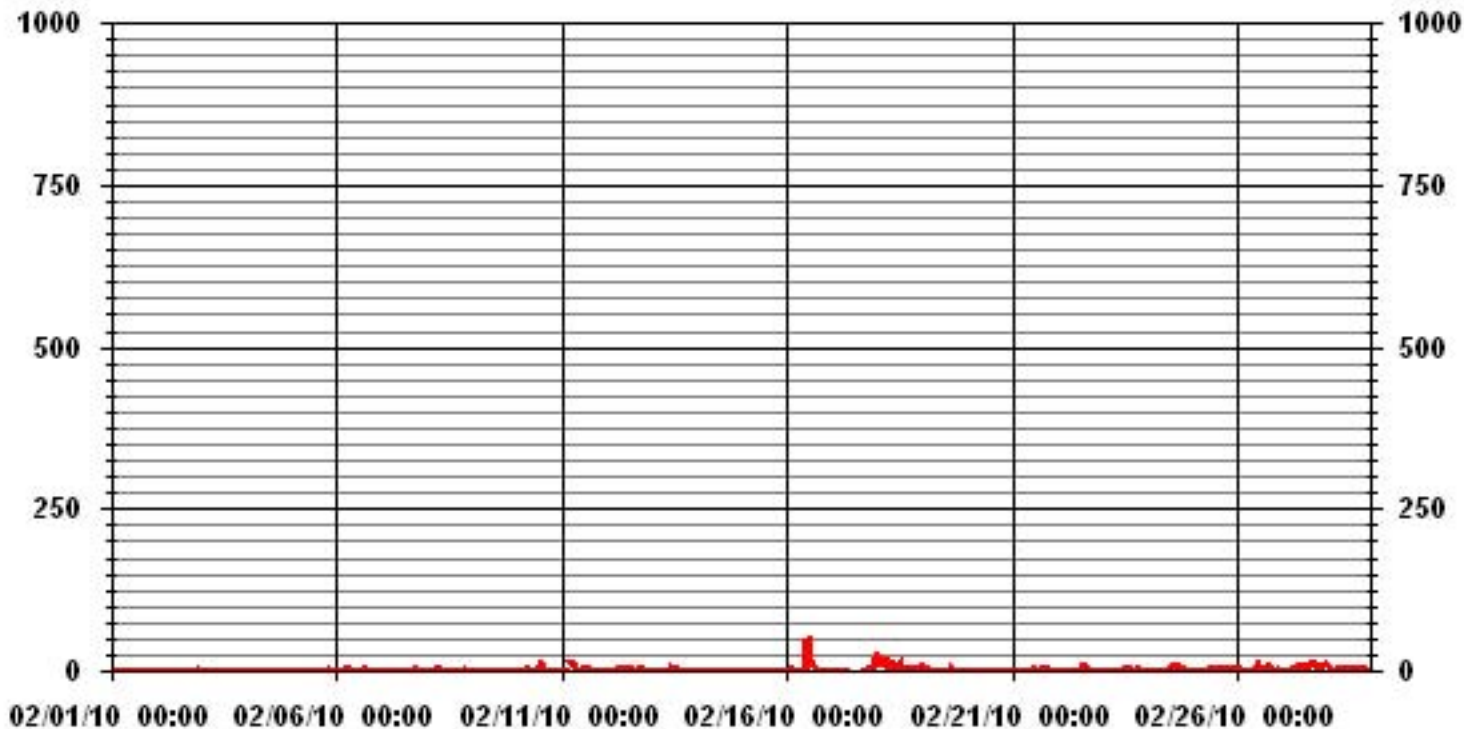
STATUS FLAG CODES

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:	208					
MAXIMUM INSTANTANEOUS VALUE:	47	PPB	@ HOUR(S)	11	ON DAY(S)	16
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	669	HRS	
MONTHLY CALIBRATION TIME:	9	HRS				
STANDARD DEVIATION:	4.01					

01 Hour Averages



— LICA30 SO2MAX PPB

LICA30
SO2_ / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 30
Site Name : LICA30
Parameter : SO2_
Units : PPB

Wind Parameter : WDR
Instrument Height : 10 Meters

Limit	Direction																Freq
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
< 20	4.33	3.69	3.37	4.17	5.61	11.39	11.55	10.59	8.34	18.13	6.90	2.72	2.72	2.72	2.24	1.44	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	4.33	3.69	3.37	4.17	5.61	11.39	11.55	10.59	8.34	18.13	6.90	2.72	2.72	2.72	2.24	1.44	

Calm : .00 %

Total # Operational Hours : 623

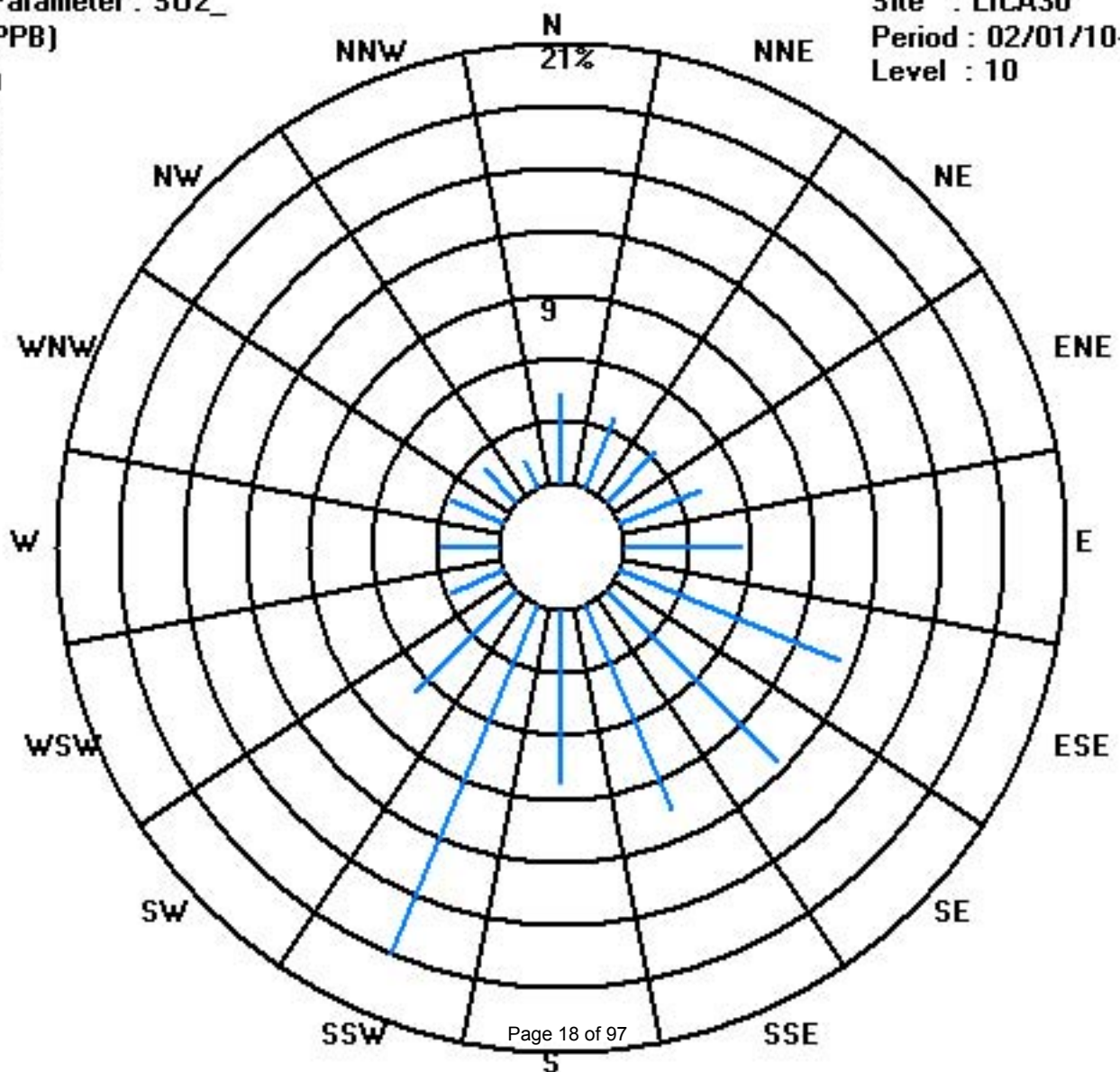
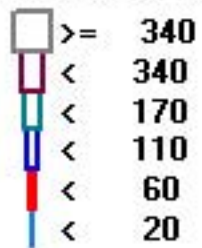
Distribution By Samples

Limit	Direction																Freq
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
< 20	27	23	21	26	35	71	72	66	52	113	43	17	17	17	14	9	623
< 60																	
< 110																	
< 170																	
< 340																	
>= 340																	
Totals	27	23	21	26	35	71	72	66	52	113	43	17	17	17	14	9	

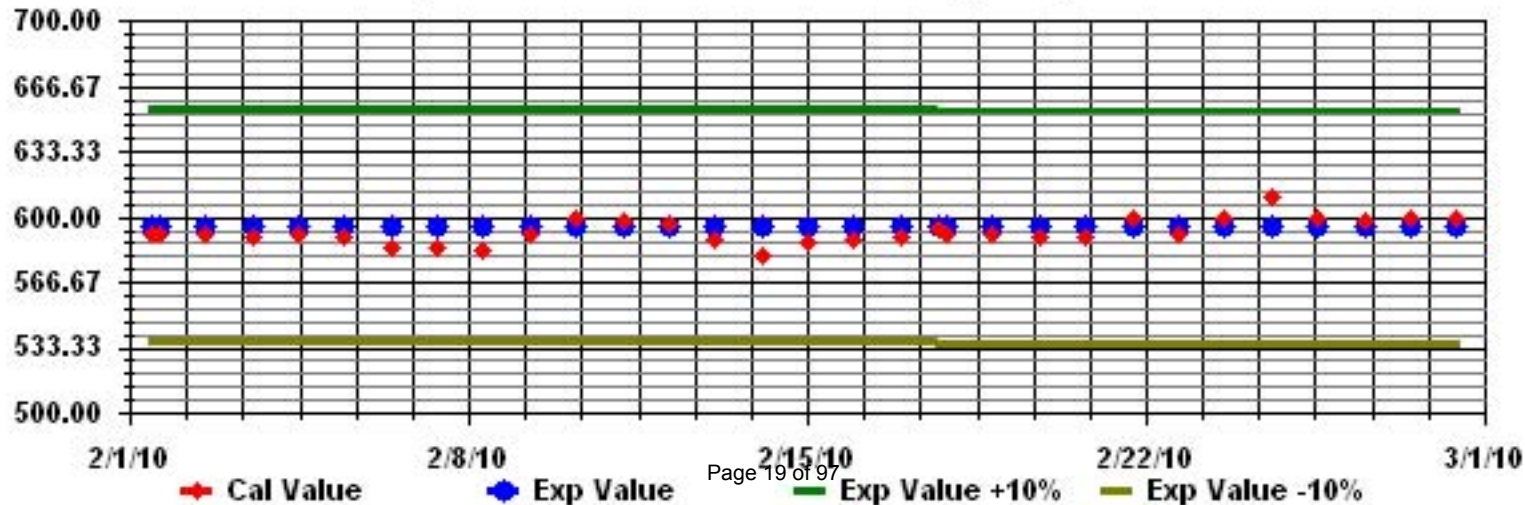
Calm : .00 %

Total # Operational Hours : 623

Class Limits (PPB)



Calibration Graph for Site: LICA30 Parameter: S02_ Sequence: S02 Phase: SPAll



Hydrogen Sulphide

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - MASKWA

FEBRUARY 2010

HYDROGEN SULPHIDE (H₂S) hourly averages in ppb

MST		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	24:00	DAILY MAX.	24-HOUR AVG.	RDGS.
HOUR START	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	0	0	0	0	0	0	0	0	0	M	M	0	0	0	IZS	0	0	0	0	0	0	0	0	1	1	0.0	22	
2	1	0	0	1	1	1	0	1	1	1	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	1	0.3	24	
3	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	0.0	24	
4	0	0	0	0	0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	1	0	0	1	1	0	1	0.1	24		
5	0	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	
6	0	0	0	0	0	0	0	0	0	0	1	IZS	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0.0	24	
7	0	1	0	0	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24	
8	1	0	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24	
9	0	0	1	1	0	0	0	IZS	1	0	0	0	0	1	1	0	0	0	0	1	0	0	1	0	1	0	1	0.3	24
10	1	1	1	0	0	IZS	1	1	1	1	0	0	0	0	0	1	0	1	0	1	1	0	0	1	0	1	0.5	24	
11	0	1	1	1	IZS	1	1	0	0	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	1	0.4	24		
12	0	1	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.1	24		
13	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	0.0	24	
14	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	0.0	24	
15	IZS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	IZS	1	0.1	24		
16	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24	
17	1	1	0	0	0	1	1	1	0	1	1	C	C	C	C	0	0	0	0	0	0	0	IZS	0	0	1	0.4	24	
18	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	0.0	24	
19	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	0.0	24	
20	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	0.0	24	
21	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	0.0	24	
22	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	0.0	24	
23	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	0.0	24	
24	0	0	0	0	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	
25	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	0.0	24	
26	0	0	0	1	0	0	0	0	1	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24	
27	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	0.0	24	
28	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	0.0	24	
HOURLY MAX		1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0	1	1	1	1	1	1				
HOURLY AVG		0.1	0.2	0.1	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.1	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	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

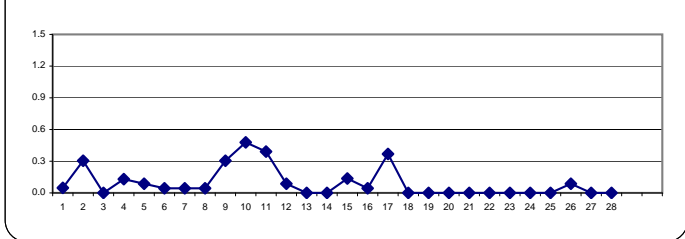
OBJECTIVE LIMIT:

ALBERTA ENVIRONMENT: 1-HR 10 PPB 24-HR 3 PPB

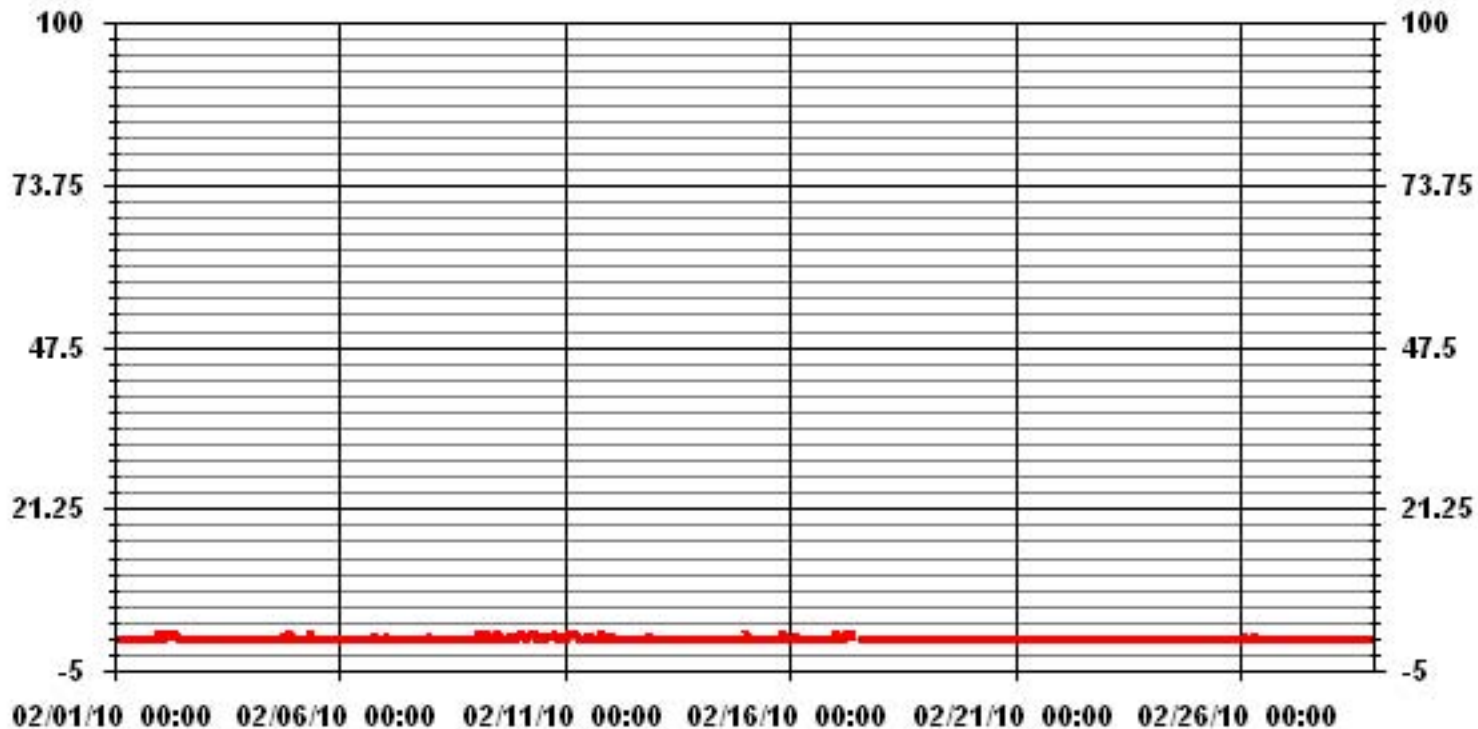
MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0				
NUMBER OF 24-HR EXCEEDENCES:	0				
NUMBER OF NON-ZERO READINGS:	58				
MAXIMUM 1-HR AVERAGE:	1	PPB	@ HOUR(S)	VAR	ON DAY(S)
MAXIMUM 24-HR AVERAGE:	0.5	PPB			ON DAY(S)
					VAR-VARIOUS
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	670	HRS
MONTHLY CALIBRATION TIME:	4	HRS	AMD OPERATION UPTIME:	99.7	%
STANDARD DEVIATION:	0.29		MONTHLY AVERAGE:	0.09	PPB

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



LAKELAND INDUSTRY & COMMUNITY ASSOCIATION -MASKWA

FEBRUARY 2010

HYDROGEN SULPHIDE MAX instantaneous maximum in ppb

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

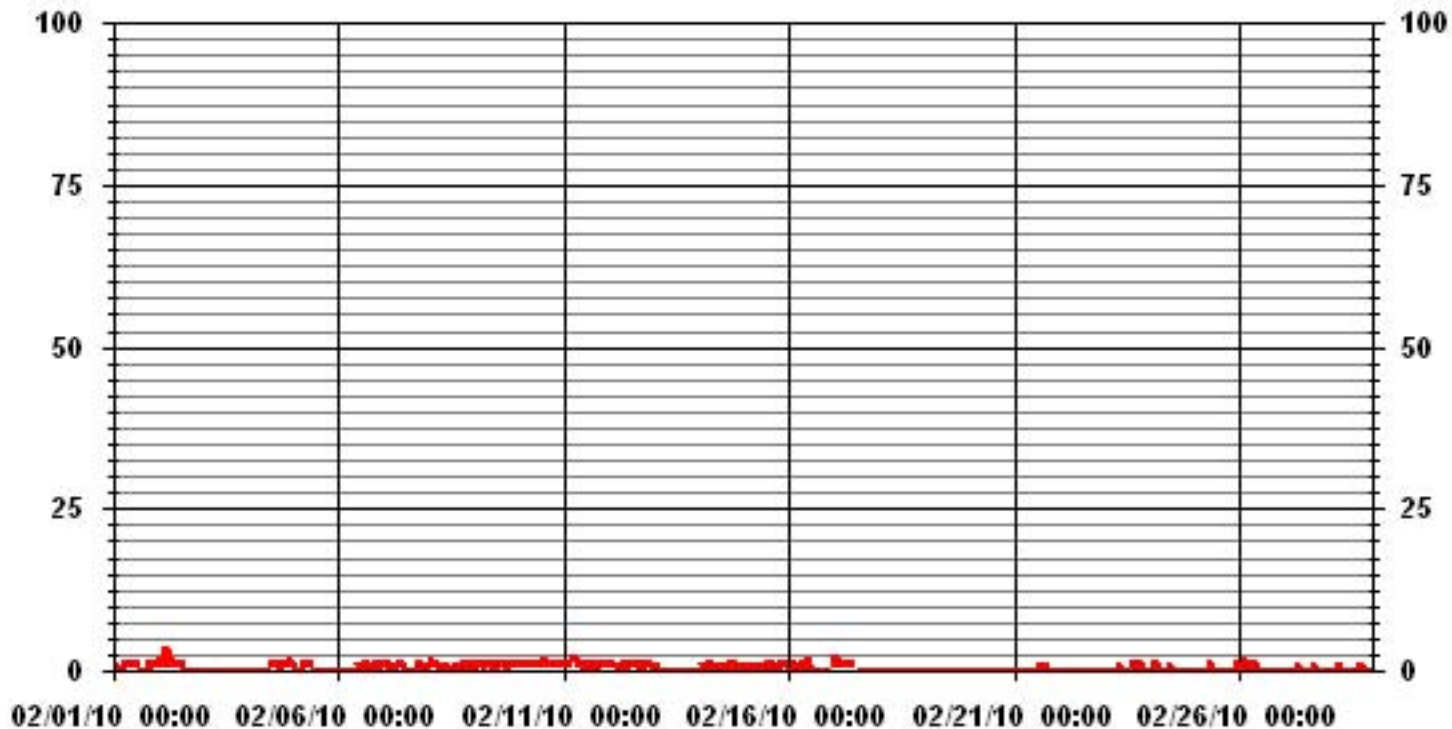
STATUS FLAG CODES

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:	215
MAXIMUM INSTANTANEOUS VALUE:	3 PPB @ HOUR(S) 3, 4 ON DAY(S) 2
IZS CALIBRATION TIME:	29 HRS
MONTHLY CALIBRATION TIME:	5 HRS
STANDARD DEVIATION:	0.53
OPERATIONAL TIME:	669 HRS

01 Hour Averages



LICA30
H2S_ / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 30
Site Name : LICA30
Parameter : H2S_
Units : PPB

Wind Parameter : WDR
Instrument Height : 10 Meters

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3	4.31	3.67	3.35	4.15	5.59	11.34	11.50	10.54	8.30	18.21	6.86	2.71	2.87	2.87	2.23	1.43	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	4.31	3.67	3.35	4.15	5.59	11.34	11.50	10.54	8.30	18.21	6.86	2.71	2.87	2.87	2.23	1.43	

Calm : .00 %

Total # Operational Hours : 626

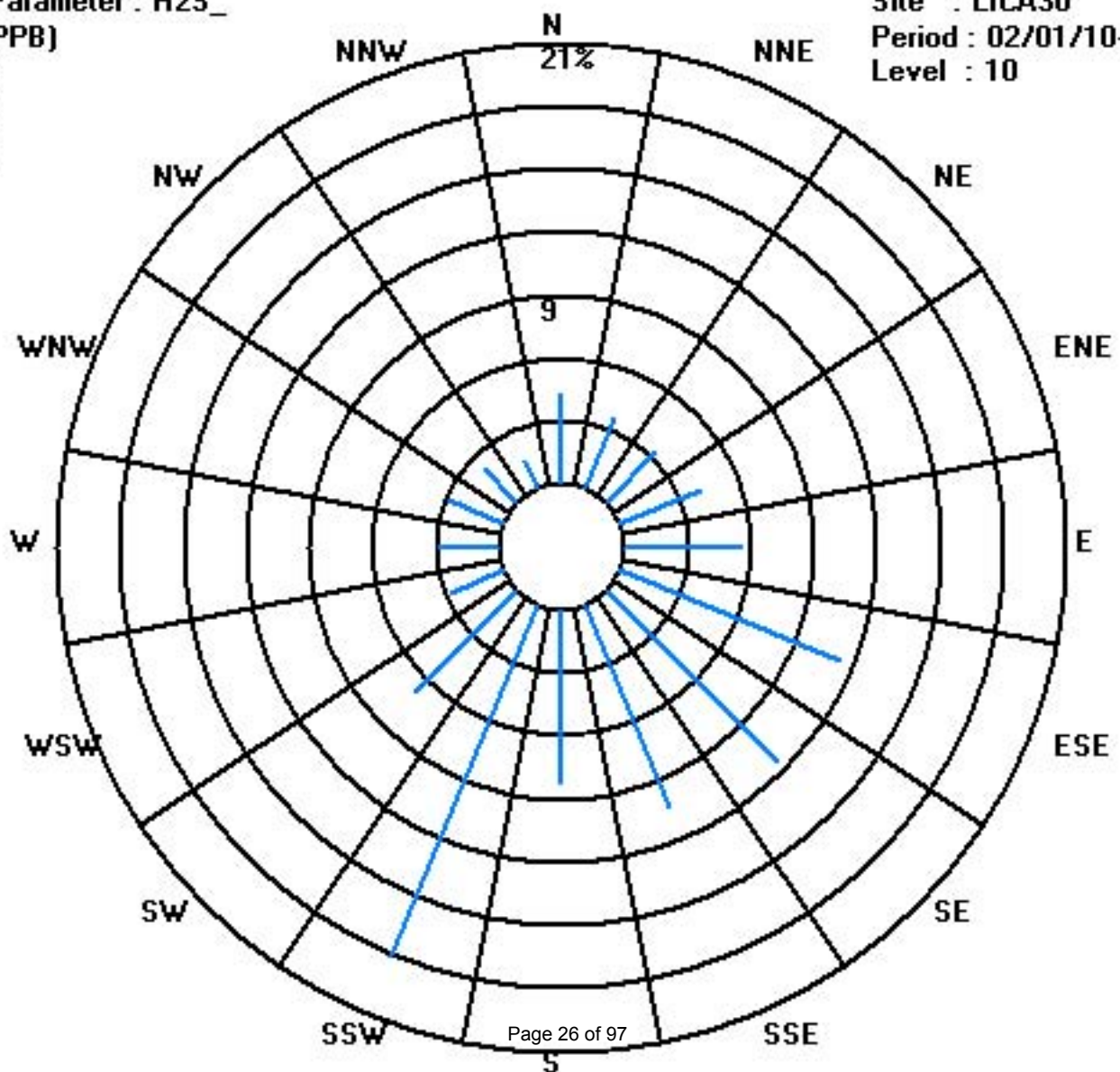
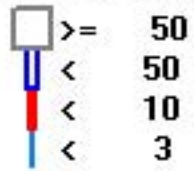
Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3	27	23	21	26	35	71	72	66	52	114	43	17	18	18	14	9	626
< 10																	
< 50																	
>= 50																	
Totals	27	23	21	26	35	71	72	66	52	114	43	17	18	18	14	9	

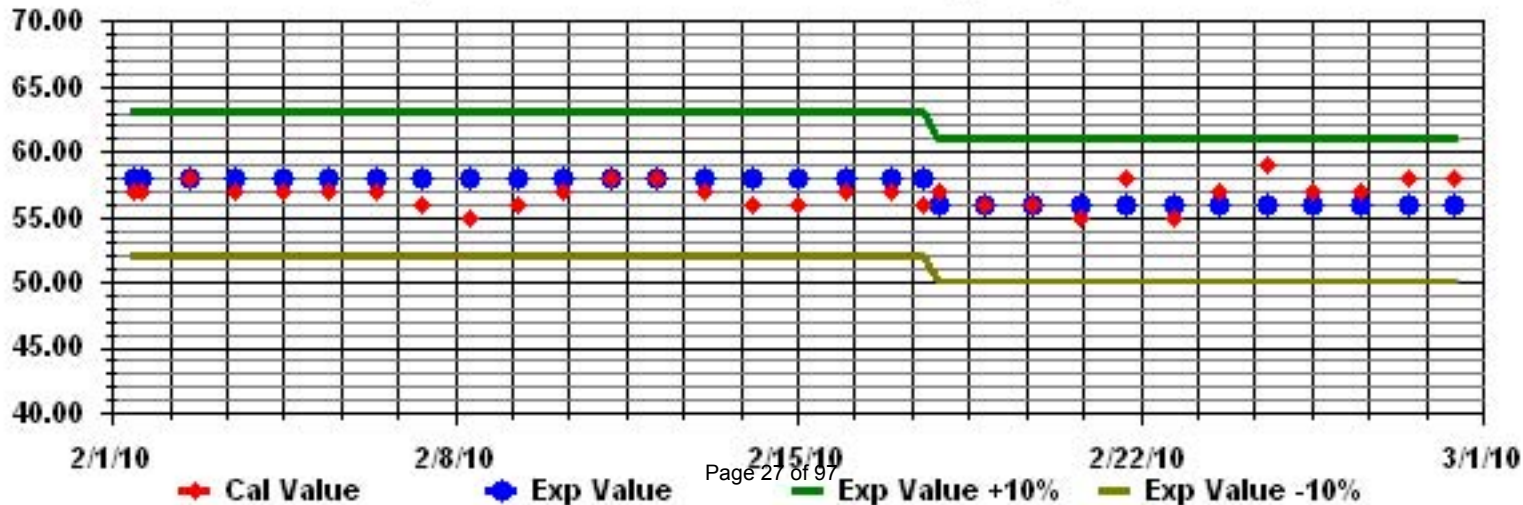
Calm : .00 %

Total # Operational Hours : 626

Class Limits (PPB)



Calibration Graph for Site: LICA30 Parameter: H2S_ Sequence: H2S Phase: SPAll



Total Hydrocarbons

01 Hour Averages



— LICA30 THC PPM

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - MASKWA

FEBRUARY 2010

TOTAL HYDROCARBONS MAX instantaneous maximum in ppr

MST

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	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	M	M	M	2.3	2.3	IZS	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	21	
2	2.3	2.6	2.8	3.2	2.9	2.7	2.8	3.1	3	2.7	2.5	2.5	2.4	IZS	2.2	3.8	4	3.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	4	2.7	24	
3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.4	2.4	2.4	2.4	2.4	IZS	2.2	2.3	2.3	2.3	2.3	2.3	2.4	2.5	2.9	3	3.1	3.1	3.1	2.4	24	
4	3.2	3.3	3.3	3.2	3	2.7	2.3	2.3	2.3	2.3	2.3	IZS	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	3.3	2.5	24	
5	2.4	2.5	2.5	2.5	2.6	2.7	2.6	2.5	2.5	2.5	IZS	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.4	2.4	2.3	2.3	2.3	2.3	2.7	2.4	24	
6	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.3	IZS	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2.3	24	
7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	IZS	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.3	2.3	2.4	2.3	2.4	24	
8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	IZS	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.5	2.4	2.4	2.5	2.4	2.5	24	
9	2.4	2.4	2.4	2.5	2.5	2.5	IZS	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.4	2.4	2.5	2.6	2.7	2.8	2.9	2.9	2.9	2.8	2.9	2.8	2.9	2.6	24
10	2.9	2.9	2.9	2.9	3	IZS	3	2.9	3	3	2.9	2.7	2.9	2.9	2.9	2.8	3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.0	24	
11	3.2	3.1	3.1	3	IZS	3.2	3.3	2.7	2.5	2.3	2.2	2.3	2.4	2.7	2.7	2.6	2.5	2.5	2.5	2.3	2.3	2.3	2.3	2.3	2.2	3.3	2.6	24	
12	2.2	2.2	2.2	IZS	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.1	2.2	2.1	2.2	2.3	2.3	2.3	2.3	2.2	2.1	2.1	2.1	2.3	2.2	24	
13	2.1	2.1	IZS	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.5	2.6	2.6	2.6	2.6	2.3	24	
14	2.4	IZS	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2.3	24	
15	IZS	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.5	2.5	2.5	2.5	2.7	2.7	2.8	2.8	2.7	2.7	2.7	2.7	2.6	2.7	2.6	2.7	IZS	2.8	2.5	24	
16	2.6	2.9	3.4	3.4	2.8	2.5	2.5	2.7	2.9	3.3	3.4	3.6	2.4	2.6	2.8	3.9	3.5	3.3	3.1	3.1	3.1	3.1	3.2	IZS	3.4	3.9	3.1	24	
17	3.8	3.7	3.3	3.9	3.6	2.9	2.8	2.5	2.9	3.1	2.8	2.6	2.1	3.3	3.3	2.4	C	C	C	C	2.2	IZS	2.2	2.3	3.9	2.9	24		
18	2.4	2.3	2.4	2.4	2.4	2.3	2.2	2.1	2.2	2.1	2.1	2.1	2.4	2	2	2	2	2	2	2	2	IZS	2	2.2	2.2	2.4	2.2	24	
19	2.2	2.1	2.1	2.1	2.1	2.1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	IZS	2	2	2	2	2.2	2.0	24	
20	2	2	2	2	2	2	2	2	2	2	2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	IZS	2.2	2.2	2.2	2.2	2.2	2.2	2.1	24		
21	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2	2.1	2.1	2	2	2	2.1	2.1	2.1	2.1	IZS	2.3	2.3	2	2	2	2	2.3	2.1	24	
22	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	IZS	2	2	2	2	2	2	2	2.1	2.1	2.0	24	
23	2.1	2.1	2.1	2.5	2.2	2.3	2.2	2.2	3.1	2.9	2.8	2.4	2.5	2.6	2.5	IZS	2.6	2.6	2.3	2.3	2.3	2.1	2.1	2.1	2.1	3.1	2.4	24	
24	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.4	IZS	2.2	2.1	2.1	2.1	2.3	2.2	2.1	2.1	2.2	2.4	2.2	2.4	24	
25	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.9	2.2	2.2	2.3	IZS	2.4	2.4	2.4	2.4	2.3	2.3	2.4	2.4	2.5	2.7	2.9	2.3	2.4	24	
26	3	3	3	2.8	2.8	2.9	3	3.1	2.9	3	3	3.1	IZS	2.9	2.9	2.9	2.7	2.9	2.9	2.8	2.8	2.5	2.5	2.4	3.1	2.9	2.4	24	
27	2.3	2.2	2.1	2.1	2.1	2	2	2	2.2	2.1	2.2	IZS	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.3	2.1	24	
28	2.2	2.2	2	2	2	2	2	2	2	2	2.1	IZS	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.4	2.4	2.4	2.4	2.2	24	
HOURLY MAX	4	4	3	4	4	3	3	3	3	3	3	4	3	3	3	4	4	3	3	3	3	3	3	3	3				
HOURLY AVG	2.4	2.4	2.4	2.5	2.4	2.4	2.3	2.3	2.4	2.4	2.4	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.4				

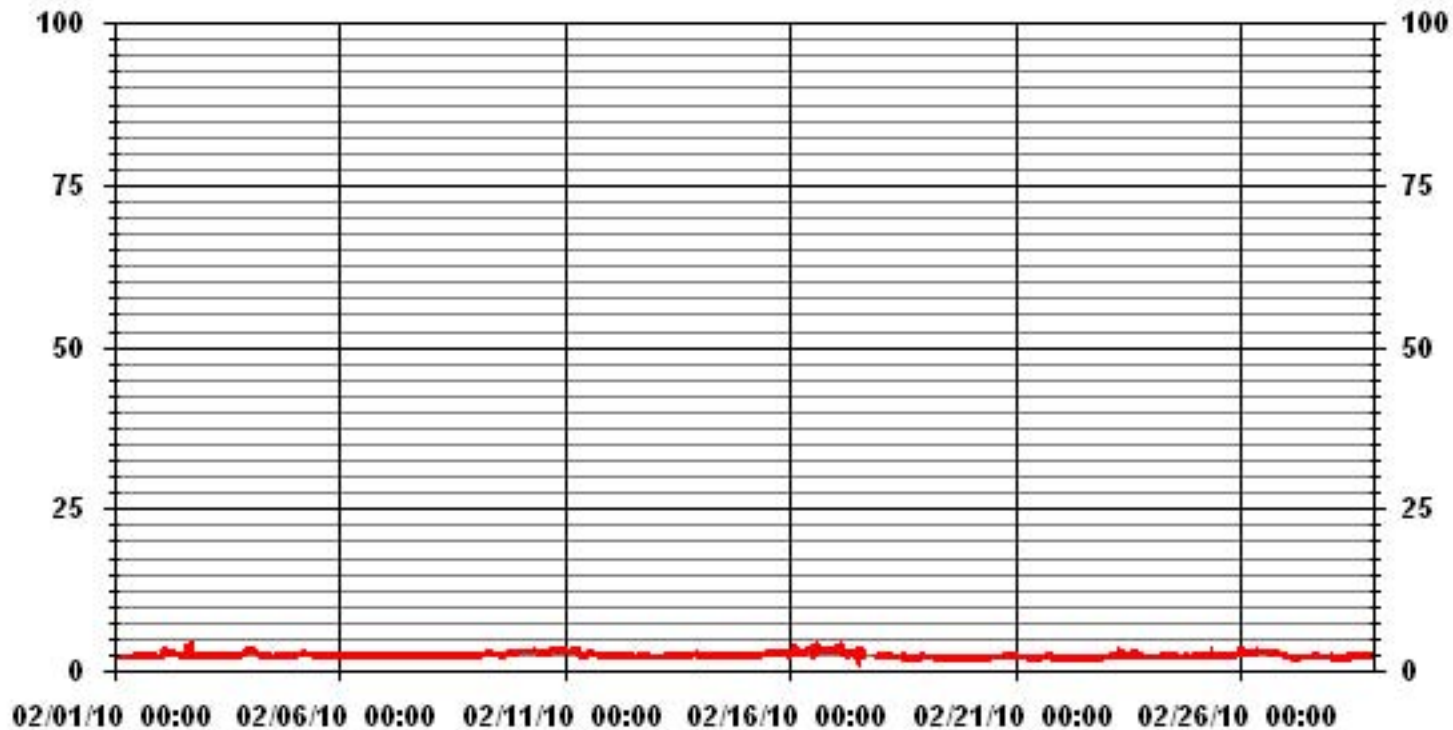
STATUS FLAG CODES

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:	636				
MAXIMUM INSTANTANEOUS VALUE:	4.0	PPM	@ HOUR(S)	16	ON DAY(S) 2
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	669	HRS
MONTHLY CALIBRATION TIME:	4	HRS			
STANDARD DEVIATION:	0.36				

01 Hour Averages



— LICA30 THCMAX PPM

LICA30
 THC / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 30
 Site Name : LICA30
 Parameter : THC
 Units : PPM

Wind Parameter : WDR
 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	4.31	3.67	3.35	4.15	4.95	11.18	11.02	10.22	7.66	16.29	5.75	2.71	2.55	2.87	2.23	1.27	94.24
< 10.0	.00	.00	.00	.00	.63	.15	.47	.31	.63	2.07	1.11	.15	.00	.00	.00	.15	5.75
< 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	4.31	3.67	3.35	4.15	5.59	11.34	11.50	10.54	8.30	18.37	6.86	2.87	2.55	2.87	2.23	1.43	

Calm : .00 %

Total # Operational Hours : 626

Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3.0	27	23	21	26	31	70	69	64	48	102	36	17	16	18	14	8	590
< 10.0					4	1	3	2	4	13	7	1				1	36
< 50.0																	
>= 50.0																	
Totals	27	23	21	26	35	71	72	66	52	115	43	18	16	18	14	9	

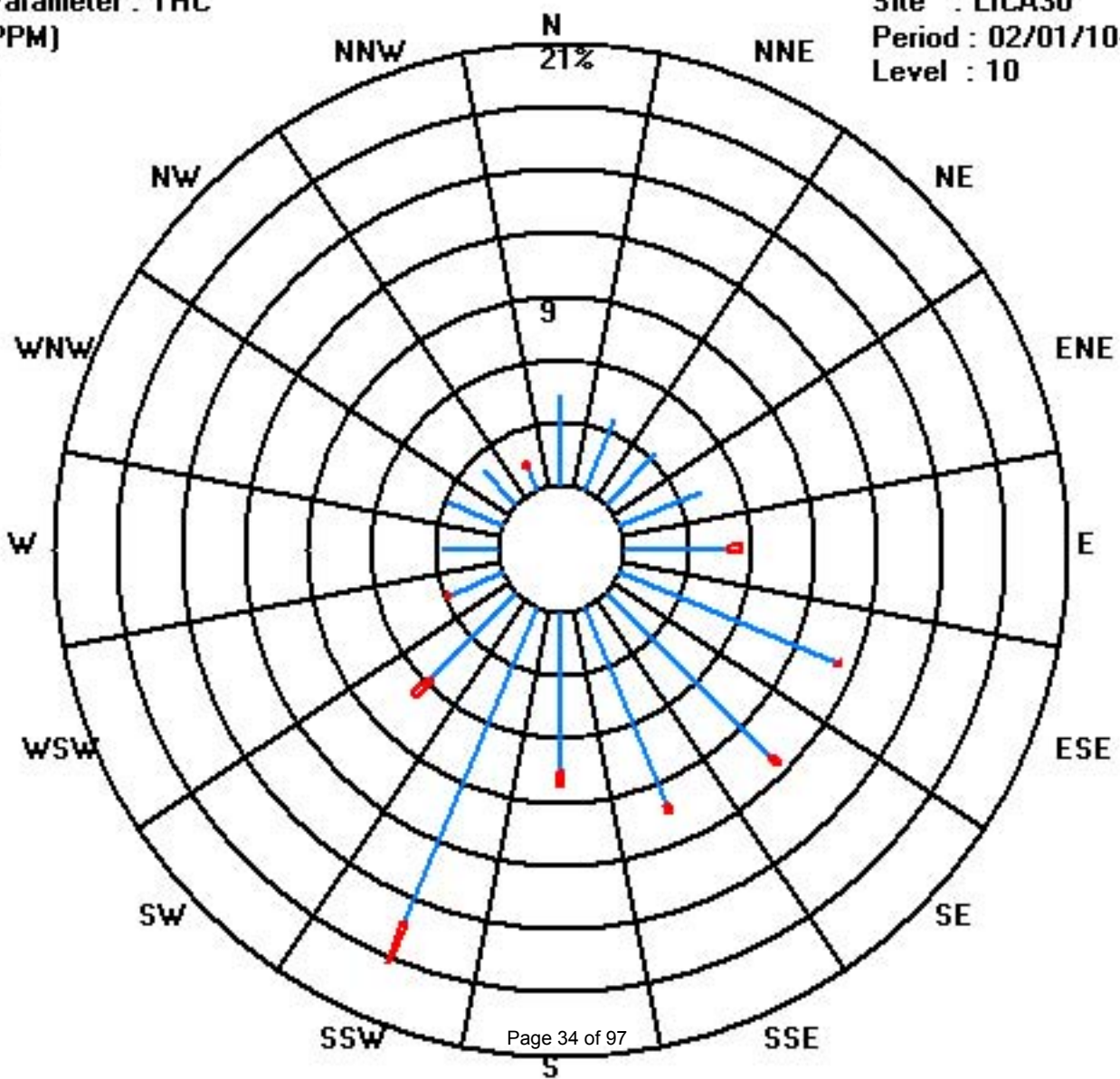
Calm : .00 %

Total # Operational Hours : 626

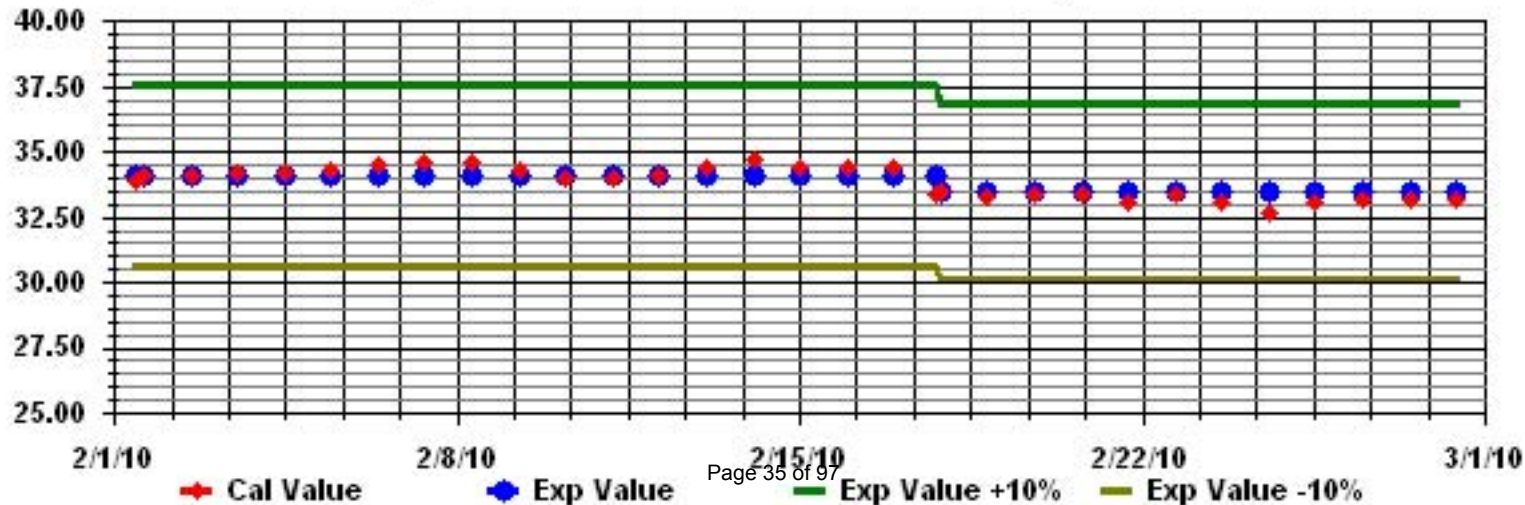
Class Limits (PPM)

Period : 02/01/10-02/28/10

Level : 10



Calibration Graph for Site: LICA30 Parameter: THC Sequence: THC Phase: SPAll



Nitrogen Dioxide

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - MASKWA

FEBRUARY 2010

NITROGEN DIOXIDE hourly averages in ppb

MST		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 MAX.	24-HOUR AVG.	RDGS.	
HOUR START	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		0	0	0	0	0	0	0	1	1	M	M	2	2	3	IZS	4	2	2	1	1	1	1	1	2	4	1.1	22	
2		2	2	3	3	3	5	6	12	12	8	5	5	3	IZS	1	5	14	6	1	2	1	1	5	2	14	4.7	24	
3		2	1	3	1	1	1	2	3	3	3	3	3	IZS	1	2	3	5	3	2	3	3	5	6	5	6	2.8	24	
4		5	5	5	5	4	3	1	1	1	1	2	IZS	1	1	2	1	2	3	4	3	2	2	3	3	5	2.6	24	
5		3	2	3	3	4	4	4	3	3	3	IZS	2	2	2	2	2	3	2	2	3	3	2	2	2	4	2.7	24	
6		2	2	2	2	3	4	2	3	4	IZS	1	1	2	2	2	3	3	2	1	1	1	1	1	1	4	2.0	24	
7		0	0	1	1	1	1	1	1	IZS	1	1	1	1	1	0	1	1	2	2	1	1	0	1	1	2	0.9	24	
8		1	1	1	1	1	2	1	IZS	1	1	2	1	1	1	1	1	1	1	1	4	4	3	3	4	1.7	24		
9		3	3	3	4	4	3	IZS	4	5	4	3	4	3	4	3	4	5	6	8	8	7	8	7	6	8	4.7	24	
10		7	6	7	8	8	IZS	11	12	10	10	8	7	8	8	9	8	12	18	19	19	17	17	17	19	19	11.5	24	
11		20	22	15	11	IZS	11	14	8	5	5	4	4	8	9	9	9	10	13	6	4	4	3	2	22	8.7	24		
12		1	2	2	IZS	3	4	4	3	4	3	4	2	2	1	1	2	2	4	2	1	0	0	4	2.2	24			
13		0	0	IZS	0	0	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	3	3	2	3	0.9	24	
14		2	IZS	1	1	1	1	1	3	2	1	1	0	0	0	1	1	0	1	1	1	1	0	0	3	0.9	24		
15		IZS	1	1	2	2	1	2	2	4	2	2	3	4	3	5	5	7	6	6	6	6	7	7	IZS	7	3.8	24	
16		7	5	13	18	8	6	11	14	19	9	14	13	14	12	7	10	10	14	15	14	10	9	IZS	10	19	11.4	24	
17		9	9	6	7	4	7	8	7	8	11	C	C	C	C	C	C	C	2	5	9	9	IZS	6	9	11	7.3	24	
18		9	12	9	11	16	11	4	2	4	3	3	4	5	3	2	2	1	0	1	2	IZS	3	3	6	16	5.0	24	
19		5	3	3	3	4	2	1	0	0	0	0	0	0	0	1	0	0	0	0	IZS	0	0	0	0	5	1.0	24	
20		0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	1	IZS	2	2	2	2	1	2	0.6	24	
21		1	1	1	1	1	1	1	1	2	2	1	2	1	2	2	4	7	IZS	5	4	3	2	0	0	7	2.0	24	
22		0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	1	IZS	1	1	1	1	1	1	1	1	0.6	24	
23		1	1	3	3	2	1	1	7	7	10	6	3	4	3	3	IZS	4	4	4	3	3	3	2	2	10	3.5	24	
24		2	2	2	2	3	3	4	4	3	3	4	4	4	5	IZS	7	4	5	7	11	5	4	3	2	11	4.0	24	
25		2	2	2	2	2	1	1	2	3	6	2	2	3	IZS	2	3	4	5	3	3	3	4	5	4	6	2.9	24	
26		4	5	5	3	3	6	5	5	3	5	8	9	IZS	7	6	7	8	8	6	5	5	6	5	6	9	5.7	24	
27		4	3	3	2	2	1	1	1	8	6	6	IZS	5	6	6	8	10	10	9	6	6	6	6	9	10	5.4	24	
28		10	9	3	1	1	1	1	2	2	3	IZS	3	2	2	3	3	4	3	4	4	3	4	5	5	10	3.4	24	
HOURLY MAX		20	22	15	18	16	11	14	14	19	11	14	13	14	12	9	10	14	18	19	19	17	17	17	19				
HOURLY AVG		3.8	3.7	3.6	3.5	3.0	3.0	3.2	3.8	4.3	4.0	3.4	3.1	3.1	3.1	2.8	3.7	4.7	4.5	4.4	4.6	3.9	3.7	3.6	3.8				

STATUS FLAG CODES

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

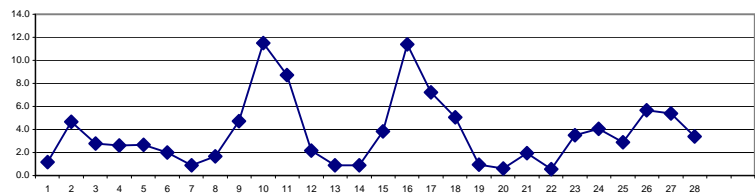
OBJECTIVE LIMIT:

ALBERTA ENVIRONMENT:	1-HR	212	PPB	24-HR	106	PPB
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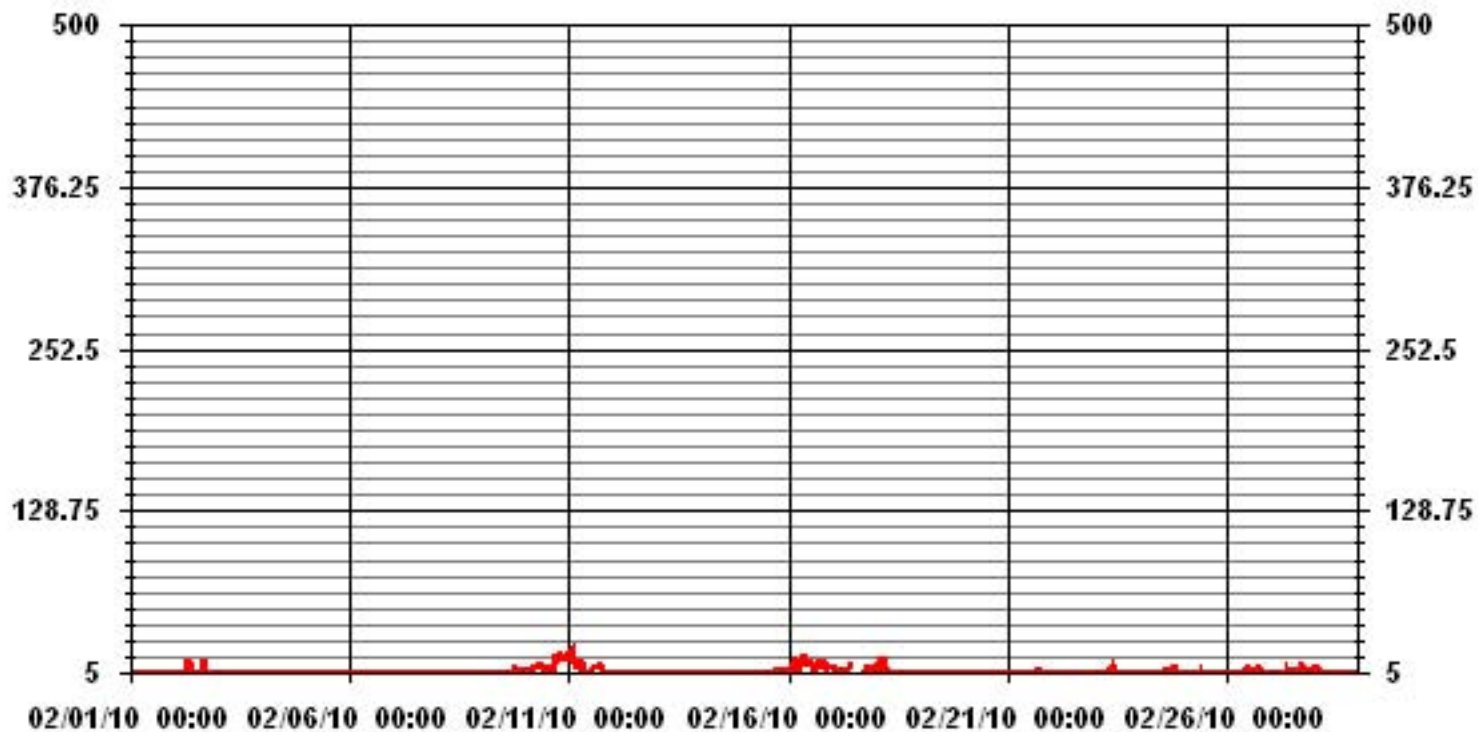
MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0					
NUMBER OF 24-HR EXCEEDENCES:	0					
NUMBER OF NON-ZERO READINGS:	567					
MAXIMUM 1-HR AVERAGE:	22	PPB	@ HOUR(S)	1	ON DAY(S)	11
MAXIMUM 24-HR AVERAGE:	11.5	PPB			ON DAY(S)	10
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	7	HRS	AMD OPERATION UPTIME:	99.7	%	
STANDARD DEVIATION:	3.72		MONTHLY AVERAGE:	3.68	PPB	

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - MASKWA

FEBRUARY 2010

NITROGEN DIOXIDE MAX instantaneous maximum in ppb

MST

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	1	1	1	1	1	1	N	N	N	3	4	IZS	5	4	4	2	1	1	2	2	3	5	1.9	21
2	5	3	3	3	6	6	7	22	16	10	8	7	6	IZS	2	15	17	14	2	3	2	4	6	5	22	7.5	24
3	3	2	6	2	2	2	4	5	5	4	5	5	IZS	2	3	6	6	5	3	4	5	6	6	6	6	4.2	24
4	5	6	5	6	6	4	2	2	2	3	3	IZS	2	2	2	2	3	5	5	4	3	3	4	4	6	3.6	24
5	4	3	3	4	5	5	6	4	4	3	IZS	3	4	3	3	3	3	3	2	5	4	3	3	3	6	3.6	24
6	3	2	2	4	4	5	3	4	5	IZS	2	3	4	4	3	6	6	4	3	2	1	2	2	2	6	3.3	24
7	1	1	1	1	2	2	2	2	IZS	2	1	2	2	1	1	2	2	4	3	3	3	1	1	1	4	1.8	24
8	1	1	1	1	2	2	2	IZS	2	2	2	2	2	2	2	2	2	2	2	6	5	5	4	5	6	2.5	24
9	5	4	4	5	5	4	IZS	6	6	6	4	5	4	5	4	6	11	11	10	9	8	8	9	6	11	6.3	24
10	8	7	8	9	9	IZS	13	13	12	12	10	8	11	11	13	10	14	21	21	21	19	18	18	20	21	13.3	24
11	23	23	20	13	IZS	20	2	20	6	8	6	8	12	10	10	11	13	19	14	4	5	6	4	3	23	11.3	24
12	2	7	5	IZS	5	7	7	7	7	7	7	6	5	3	3	3	5	7	9	7	8	4	1	1	9	5.3	24
13	0	0	IZS	1	1	1	1	1	2	1	2	2	1	1	1	1	1	2	1	2	2	5	4	4	5	1.6	24
14	3	IZS	1	1	2	2	1	5	3	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	5	1.5	24
15	IZS	1	1	3	2	2	3	3	5	3	3	4	5	4	6	7	9	7	8	7	7	8	8	IZS	9	4.8	24
16	8	7	25	25	15	7	19	28	23	11	21	22	19	16	10	12	13	16	16	15	12	11	IZS	11	28	15.7	24
17	11	10	7	8	5	15	11	9	13	C	C	C	C	C	C	C	4	15	16	10	IZS	11	15	16	10.7	24	
18	29	28	13	17	18	15	7	4	11	4	4	7	9	5	3	2	2	1	3	2	IZS	3	6	8	29	8.7	24
19	6	5	4	4	4	3	1	1	0	1	1	0	0	0	1	4	1	1	0	IZS	0	0	0	0	6	1.6	24
20	0	0	0	0	0	0	0	2	4	2	1	1	2	1	1	2	2	3	IZS	2	3	4	2	2	4	1.5	24
21	2	2	2	2	1	2	2	2	2	2	2	2	2	3	3	6	9	IZS	7	7	4	3	1	0	9	3.0	24
22	0	0	0	0	0	0	1	1	1	2	2	2	2	1	4	2	IZS	2	2	2	2	2	1	1	4	1.3	24
23	2	3	4	4	3	2	2	25	12	12	8	5	5	4	4	IZS	5	5	5	5	4	4	3	3	25	5.6	24
24	3	3	3	3	4	4	5	6	4	4	5	6	7	7	IZS	10	4	7	13	15	10	5	4	3	15	5.9	24
25	3	3	2	2	2	2	2	6	6	8	3	3	3	IZS	3	4	5	5	4	3	4	5	6	5	8	3.9	24
26	5	6	6	4	4	21	8	13	4	7	10	12	IZS	9	7	8	10	11	7	6	6	7	7	9	21	8.1	24
27	6	4	4	3	4	2	2	3	13	11	10	IZS	10	9	9	12	13	13	14	11	9	10	11	12	14	8.5	24
28	13	13	6	3	2	2	2	3	3	4	IZS	3	3	3	4	4	5	5	5	4	5	5	5	6	13	4.7	24
HOURLY MAX	29	28	25	25	18	21	19	28	23	12	21	22	19	16	13	15	17	21	21	21	19	18	18	20			
HOURLY AVG	5.6	5.3	5.0	4.8	4.2	5.1	4.3	7.3	6.4	5.2	5.0	5.0	5.0	4.4	4.1	5.6	6.4	6.8	6.6	6.2	5.3	5.0	4.8	5.1			

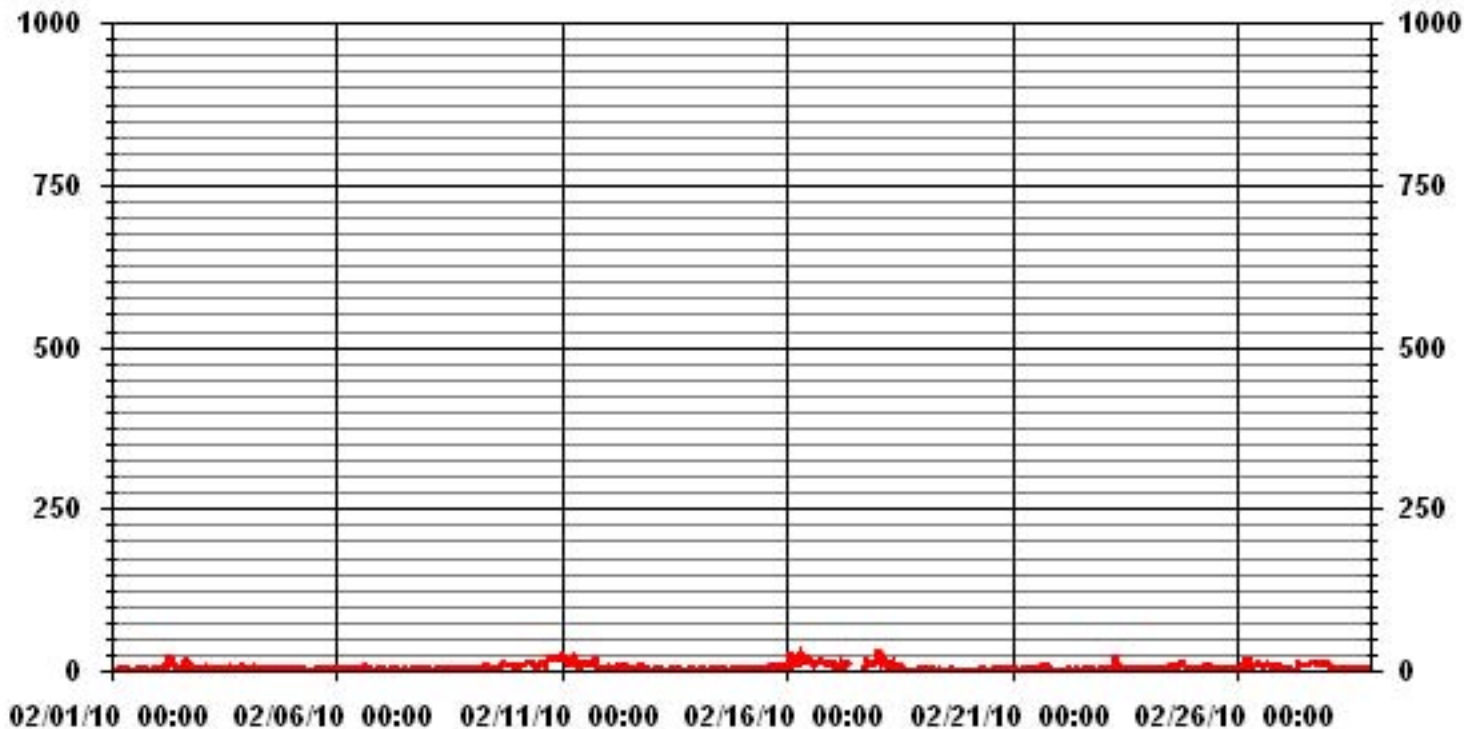
STATUS FLAG CODES

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

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	604					
MAXIMUM INSTANTANEOUS VALUE:	29	PPB	@ HOUR(S)	0	ON DAY(S)	18
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	669	HRS	
MONTHLY CALIBRATION TIME:	8	HRS				
STANDARD DEVIATION:	5.04					

01 Hour Averages



— LICA30 NO2MAX PPB

LICA30
 NO2_ / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 30
 Site Name : LICA30
 Parameter : NO2_
 Units : PPB

Wind Parameter : WDR
 Instrument Height : 10 Meters

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	4.33	3.69	3.37	4.17	5.61	11.39	11.55	10.59	8.34	18.13	6.90	2.72	2.72	2.72	2.24	1.44	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	4.33	3.69	3.37	4.17	5.61	11.39	11.55	10.59	8.34	18.13	6.90	2.72	2.72	2.72	2.24	1.44	

Calm : .00 %

Total # Operational Hours : 623

Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	27	23	21	26	35	71	72	66	52	113	43	17	17	17	14	9	623
< 110																	
< 210																	
>= 210																	
Totals	27	23	21	26	35	71	72	66	52	113	43	17	17	17	14	9	

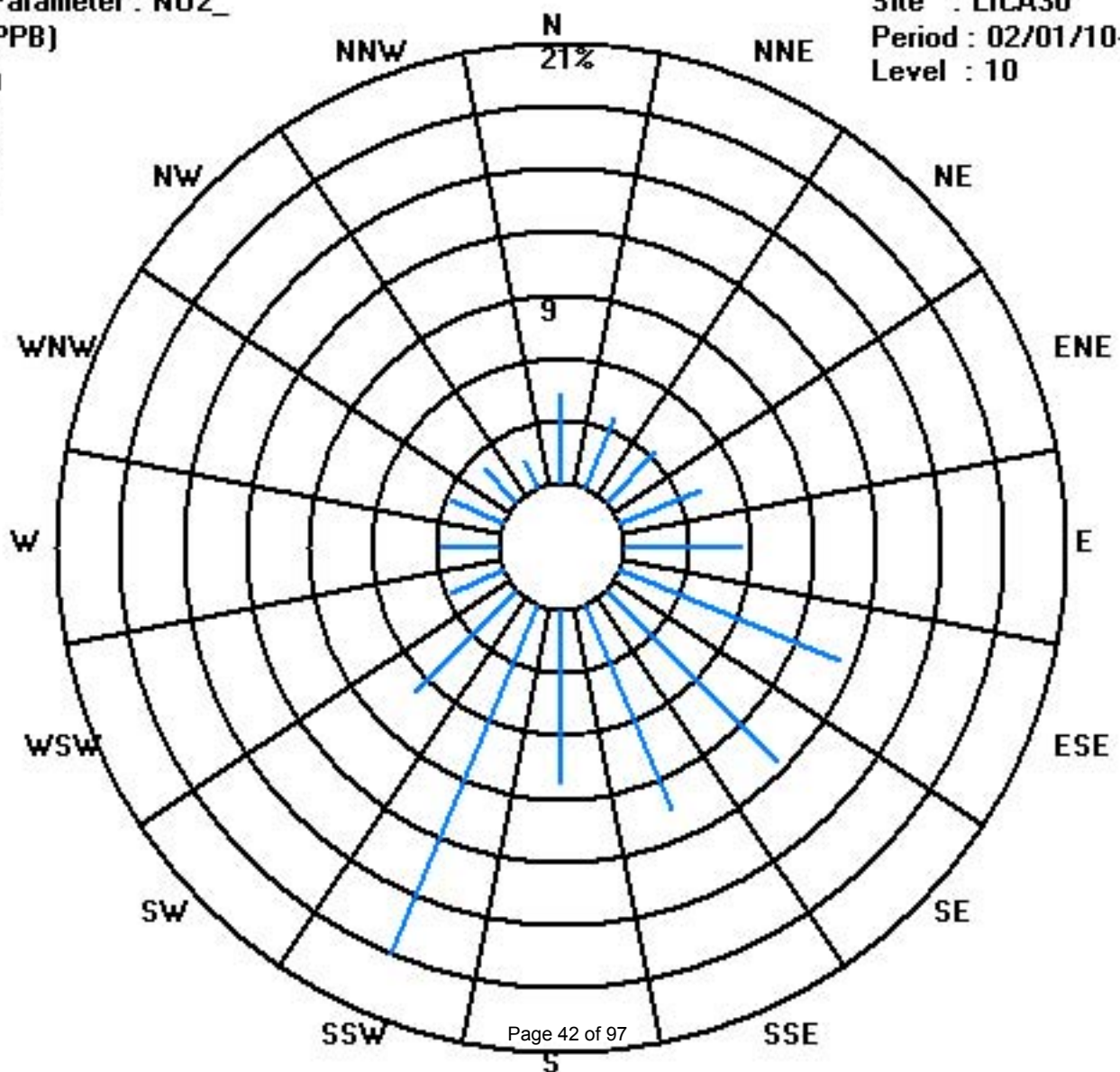
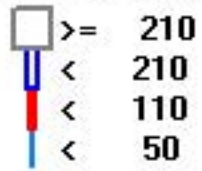
Calm : .00 %

Total # Operational Hours : 623

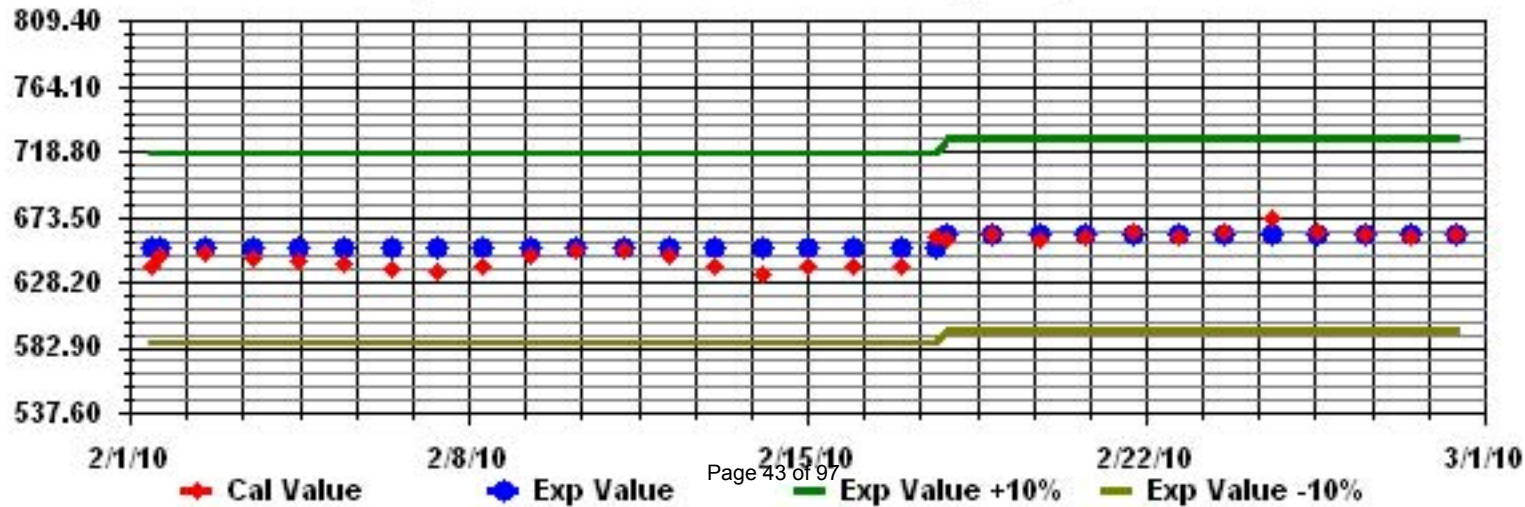
Class Limits (PPB)

Period : 02/01/10-02/28/10

Level : 10



Calibration Graph for Site: LICA30 Parameter: NO2_ Sequence: NO2 Phase: SPAN



Nitric Oxide

LAKELAND INDUSTRY & COMMUNITY ASSOICATION - MASKWA

FEBRUARY 2010

NITRIC OXIDE hourly averages in ppb

MST		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			
DAY	HOURLY MAX	HOURLY AVG	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	MAX.	AVG.	RDGS.	
1	0	0.1	0	0	0	0	0	0	0	0	M	M	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0.0	0.0	22
2	0	0.1	0	0	0	0	0	0	1	1	1	1	2	1	IZS	0	2	3	0	0	0	0	0	0	0	0	3	0.5	24
3	0	0.0	0	0	0	0	0	0	0	0	0	0	1	IZS	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
4	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	0	0.0	24
5	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	0	0.0	24
6	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	0	0.0	24
7	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	0	0.0	24
8	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	0	0.0	24
9	0	0.0	0	0	0	0	0	IZS	0	0	1	1	2	2	2	1	1	0	0	0	0	0	0	0	0	0	2	0.4	24
10	0	0.0	0	0	0	0	IZS	0	0	1	3	3	4	7	8	9	4	4	1	0	0	0	0	0	1	9	2.0	24	
11	2	0.1	2	0	0	IZS	1	3	0	1	2	3	3	9	10	8	5	2	0	0	0	0	0	0	0	10	2.2	24	
12	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	0	0.0	24
13	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	0	0.0	24
14	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	0	0.0	24
15	IZS	0.0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	IZS	1	0.2	24
16	0	0.0	0	0	0	0	0	1	4	12	5	18	16	16	8	3	4	1	0	0	0	0	0	0	IZS	0	18	3.8	24
17	0	0.0	0	0	0	0	0	0	0	2	6	C	C	C	C	C	C	C	1	0	0	0	0	IZS	0	6	0.6	24	
18	0	0.0	0	0	1	0	0	0	0	0	0	1	2	3	1	0	0	0	0	0	0	IZS	0	0	0	3	0.3	24	
19	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	0	0.0	24
20	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	0	0.0	24
21	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	0	0.0	24
22	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	0	0.0	24
23	0	0.0	0	0	0	0	0	0	4	1	4	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	4	0.6	24
24	0	0.0	0	0	0	0	0	0	0	0	0	0	1	1	2	IZS	2	0	0	0	0	0	0	0	0	0	2	0.3	24
25	0	0.0	0	0	0	0	0	0	0	1	3	0	1	1	IZS	1	1	0	0	0	0	0	0	0	0	0	3	0.3	24
26	0	0.0	0	0	0	1	0	0	1	2	5	5	IZS	3	2	1	0	0	0	0	0	0	0	0	0	5	0.9	24	
27	0	0.0	0	0	0	0	0	0	0	0	0	1	IZS	1	1	0	1	0	0	0	0	0	0	0	0	1	0.2	24	
28	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	0	0.0	24
HOURLY MAX	2	2	0	0	1	1	3	4	12	6	18	16	16	10	9	5	4	1	0	0	0	0	0	0	1				
HOURLY AVG	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.3	0.7	1.0	1.5	1.5	1.7	1.5	1.0	0.8	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0					

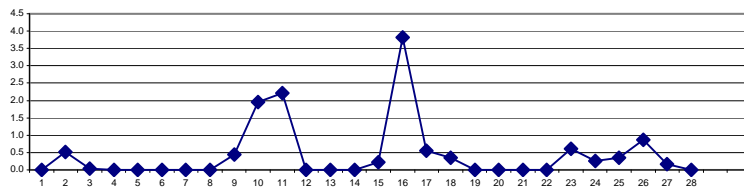
STATUS FLAG CODES

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

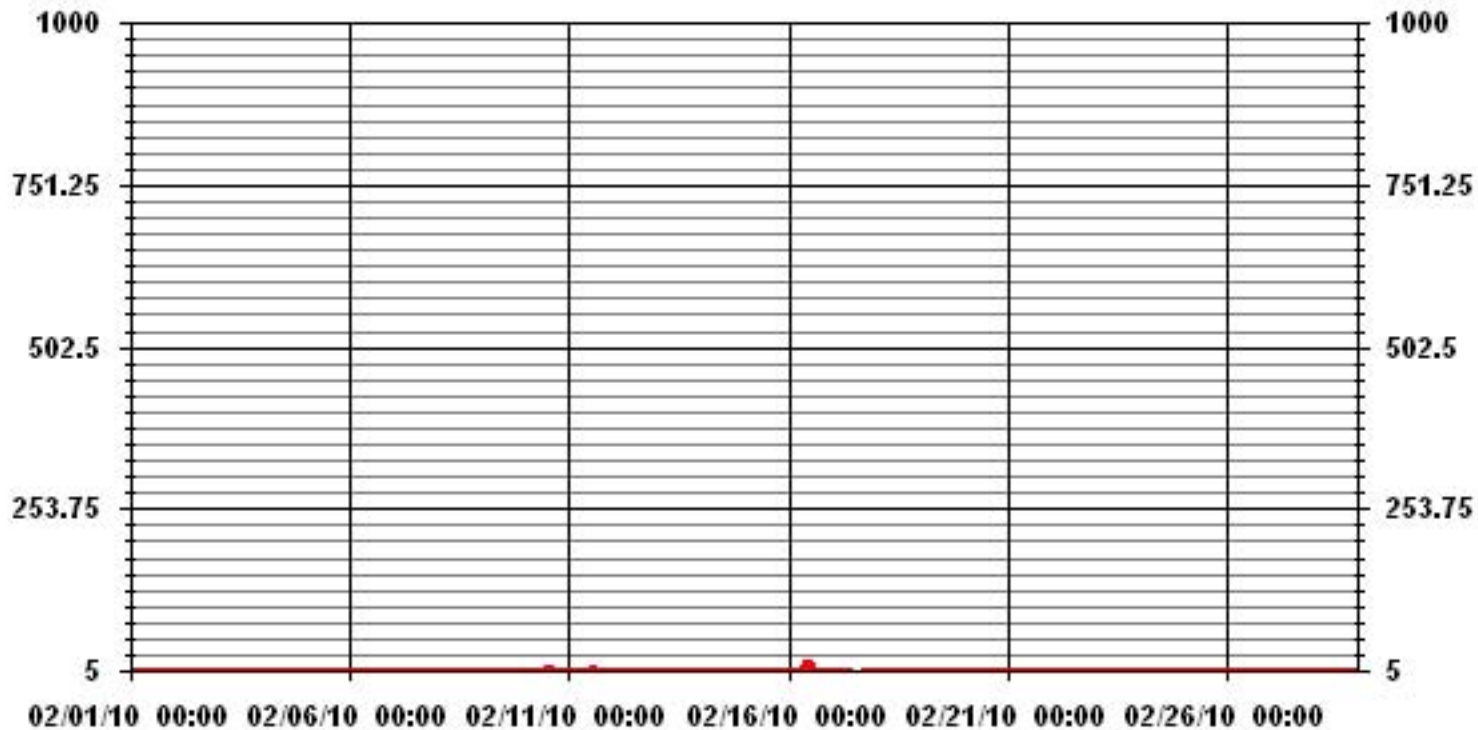
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	93					
MAXIMUM 1-HR AVERAGE:	18	PPB	@ HOUR(S)	10	ON DAY(S)	16
MAXIMUM 24-HR AVERAGE:	3.8	PPB			ON DAY(S)	16
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	7	HRS	AMD OPERATION UPTIME:	99.7	%	
STANDARD DEVIATION:	1.69		MONTHLY AVERAGE:	0.44	PPB	

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



— LICA30 NO_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - MASKWA

FEBRUARY 2010

NITRIC OXIDE MAX instantaneous maximum in ppb

MST

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR		
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.	
DAY																												
1	0	0	0	0	0	0	0	0	0	0	M	M	M	1	1	IZS	1	0	0	0	0	0	0	0	0	1	0.2	21
2	0	0	0	0	0	0	0	32	5	2	3	5	2	IZS	1	6	7	1	0	0	0	0	0	0	0	32	2.8	24
3	0	0	0	0	0	0	0	0	0	1	1	1	1	IZS	2	0	0	0	0	0	0	0	0	0	0	2	0.3	24
4	0	0	0	0	0	0	0	0	0	0	0	0	IZS	1	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
5	0	0	0	0	0	0	0	0	0	0	0	IZS	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0.1	24
6	0	0	0	0	0	0	0	0	0	0	0	IZS	1	0	1	1	0	1	0	0	0	0	0	0	0	1	0.2	24
7	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	0.0	24
8	0	0	0	0	0	0	0	IZS	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0.3	24
9	0	0	0	0	0	0	IZS	0	1	3	2	4	3	3	2	2	2	2	0	0	0	0	0	0	4	1.0	24	
10	0	0	0	0	0	IZS	0	1	3	4	4	6	9	12	14	5	5	2	1	0	0	0	1	1	14	3.0	24	
11	4	4	1	2	IZS	5	11	8	2	4	4	8	15	12	11	7	3	1	0	0	0	0	0	0	15	4.4	24	
12	0	0	0	IZS	0	0	1	0	0	1	2	2	1	1	0	0	0	1	1	1	0	0	0	0	2	0.5	24	
13	0	0	IZS	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24	
14	0	IZS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24	
15	IZS	0	0	0	0	0	0	0	0	0	1	1	1	1	2	2	2	0	0	0	0	0	0	0	IZS	2	0.5	24
16	0	0	1	2	0	0	9	81	20	8	40	44	26	13	5	7	3	3	0	0	0	0	0	0	81	11.4	24	
17	0	0	0	0	0	6	1	2	9	C	C	C	C	C	C	C	1	4	4	1	IZS	0	1	9	1.9	24		
18	8	8	0	2	3	2	0	0	3	3	3	4	6	3	1	0	0	0	0	0	0	IZS	0	0	8	2.0	24	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	IZS	0	0	0	0	1	0.0	24	
20	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	IZS	0	0	0	0	0	1	0.2	24	
21	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	1	IZS	0	0	0	0	0	0	2	0.3	24	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	IZS	0	0	0	0	0	0	0	2	0.1	24	
23	0	0	0	0	0	0	0	40	4	6	3	2	2	2	1	IZS	2	0	0	0	0	0	0	0	40	2.7	24	
24	0	0	0	0	0	0	0	1	0	0	1	2	3	3	IZS	5	1	0	0	0	0	0	0	0	5	0.7	24	
25	0	0	0	0	0	0	0	2	4	6	1	2	2	IZS	1	2	1	0	0	0	0	0	0	0	6	0.9	24	
26	0	0	0	0	0	27	0	1	2	6	7	8	IZS	5	2	2	1	1	0	0	0	0	0	0	27	2.7	24	
27	0	0	0	0	0	0	0	0	1	2	3	IZS	3	2	1	1	1	0	0	0	0	0	0	0	3	0.6	24	
28	0	0	0	0	0	0	0	0	0	0	0	IZS	1	0	0	1	0	0	0	0	0	0	0	0	1	0.1	24	
HOURLY MAX	8	8	1	2	3	27	11	81	20	8	40	44	26	13	14	7	7	3	4	4	1	0	1	1				
HOURLY AVG	0.4	0.4	0.1	0.2	0.1	1.5	0.8	6.2	2.0	1.9	3.3	4.0	3.2	2.6	1.9	1.8	1.2	0.5	0.2	0.2	0.0	0.0	0.0	0.1				

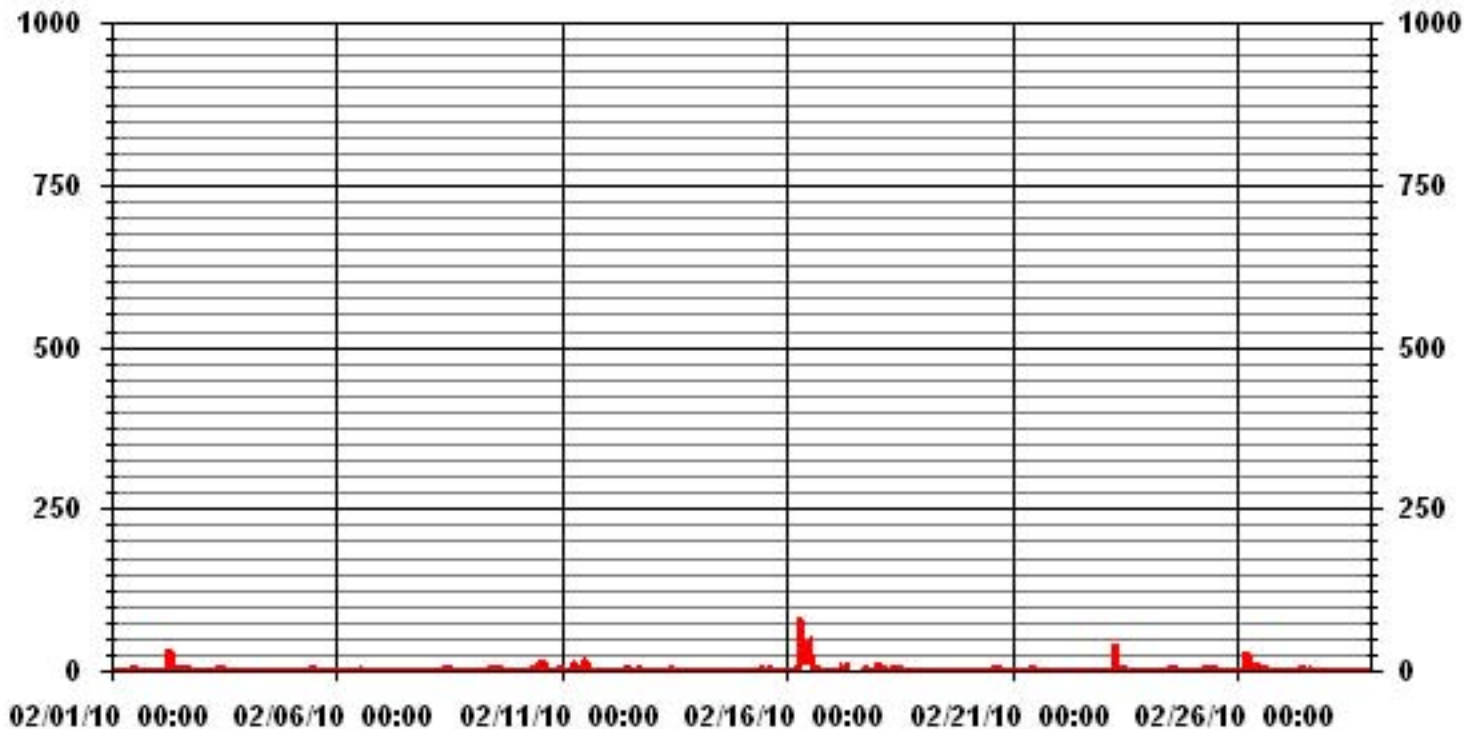
STATUS FLAG CODES

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

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	188					
MAXIMUM INSTANTANEOUS VALUE:	81	PPB	@ HOUR(S)	7	ON DAY(S)	16
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	669	HRS	
MONTHLY CALIBRATION TIME:	8	HRS				
STANDARD DEVIATION:	5.09					

01 Hour Averages



LICA30
 NO_ / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 30
 Site Name : LICA30
 Parameter : NO_
 Units : PPB

Wind Parameter : WDR
 Instrument Height : 10 Meters

		Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq	
< 50	4.33	3.69	3.37	4.17	5.61	11.39	11.55	10.59	8.34	18.13	6.90	2.72	2.72	2.72	2.24	1.44	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	4.33	3.69	3.37	4.17	5.61	11.39	11.55	10.59	8.34	18.13	6.90	2.72	2.72	2.72	2.24	1.44		

Calm : .00 %

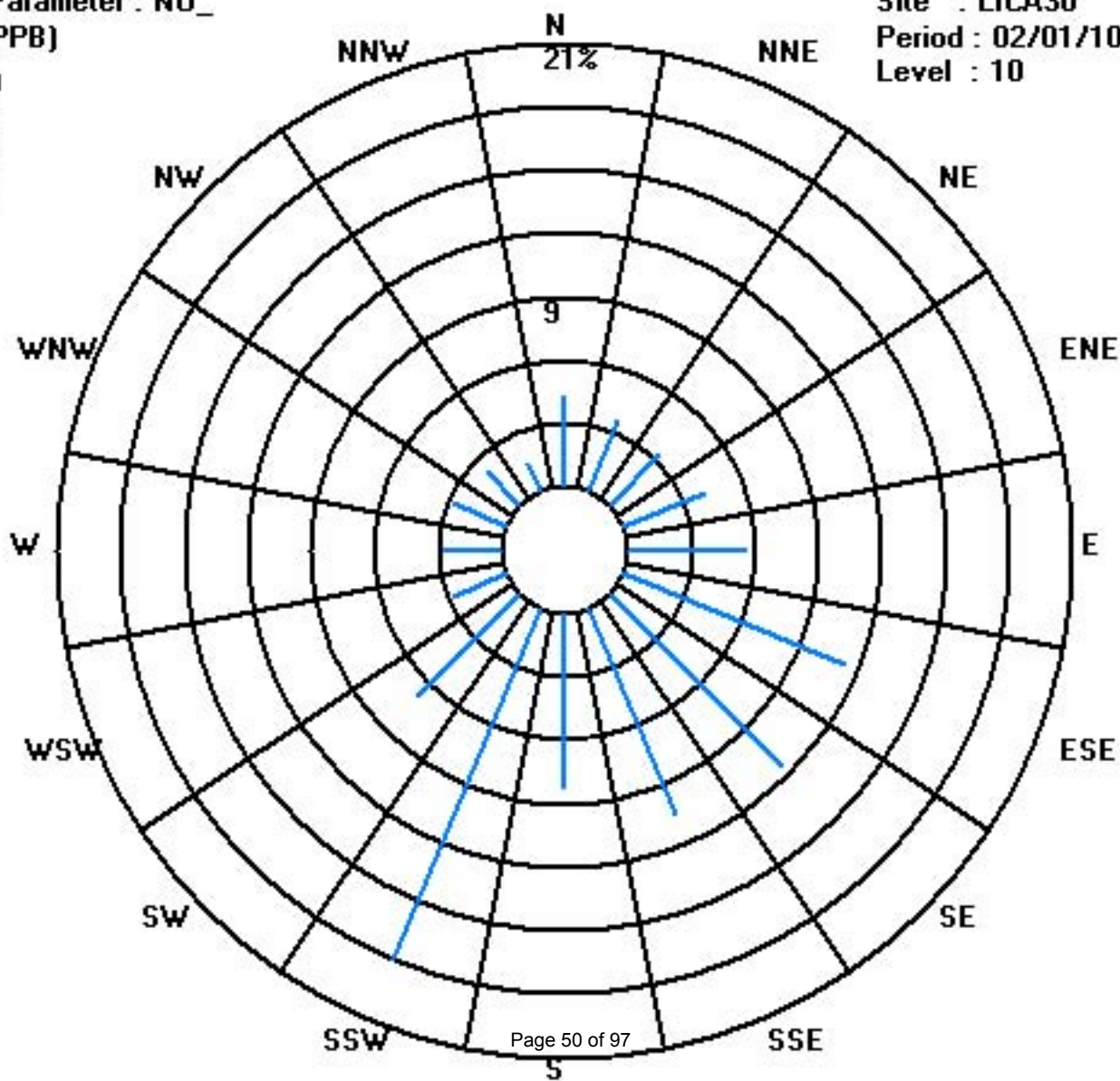
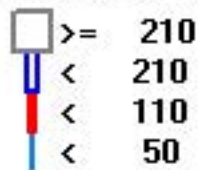
Total # Operational Hours : 623

Distribution By Samples

		Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq	
< 50	27	23	21	26	35	71	72	66	52	113	43	17	17	17	14	9	623	
< 110																		
< 210																		
>= 210																		
Totals	27	23	21	26	35	71	72	66	52	113	43	17	17	17	14	9		

Calm : .00 %

Total # Operational Hours : 623



Oxides of Nitrogen

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - MASKWA
FEBRUARY 2010
OXIDES OF NITROGEN hourly averages in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY 24-HOUR			
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.	
DAY																												
1	0	0	0	0	0	0	0	1	1	M	M	4	4	4	IZS	5	2	2	1	1	1	1	1	2	5	1.4	22	
2	2	2	3	3	4	5	6	13	14	10	7	7	5	IZS	2	8	18	6	1	2	1	2	5	2	18	5.6	24	
3	2	1	3	1	1	2	2	3	4	3	4	5	IZS	3	3	3	6	3	3	3	4	5	6	5	6	3.3	24	
4	5	5	5	5	4	3	1	1	1	1	3	IZS	1	2	2	2	2	3	4	3	2	2	3	3	5	2.7	24	
5	3	2	3	3	4	5	4	3	3	3	IZS	3	3	3	3	3	3	2	2	3	3	2	2	2	5	2.9	24	
6	2	2	2	2	3	4	2	3	4	IZS	2	2	3	3	2	3	4	2	2	1	1	1	1	1	4	2.3	24	
7	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	2	2	1	1	0	1	1	2	1.0	24	
8	1	1	1	1	1	2	2	IZS	2	2	3	2	2	2	2	2	1	1	1	4	4	4	3	4	4	2.1	24	
9	3	3	3	4	4	3	IZS	5	6	6	5	6	5	6	5	5	5	6	9	8	7	8	7	6	9	5.4	24	
10	7	6	7	8	8	IZS	11	13	12	13	12	12	16	17	18	13	17	20	20	20	18	17	18	20	20	14.0	24	
11	23	24	16	12	IZS	13	17	9	7	9	8	8	18	19	18	15	13	13	6	4	4	4	3	2	24	11.5	24	
12	1	2	2	IZS	4	4	5	3	4	4	5	3	3	1	1	1	2	3	4	3	2	1	0	0	5	2.5	24	
13	0	0	IZS	1	0	0	0	1	1	1	2	1	1	1	1	1	1	1	1	1	1	3	4	3	4	1.1	24	
14	2	IZS	1	1	1	1	1	3	2	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	3	1.0	24	
15	IZS	1	1	2	2	2	1	2	4	3	3	4	5	5	7	7	8	7	6	6	6	7	7	IZS	8	4.4	24	
16	7	6	14	19	9	6	13	18	32	14	33	30	31	21	10	15	12	15	15	14	10	9	IZS	11	33	15.8	24	
17	9	9	6	7	4	8	9	8	11	17	C	C	C	C	C	C	C	2	5	10	9	IZS	7	10	17	8.2	24	
18	10	13	10	12	18	12	4	2	5	4	5	7	9	5	3	2	1	0	1	2	IZS	3	3	6	18	6.0	24	
19	5	3	3	3	4	2	1	0	0	0	0	0	0	0	0	2	0	0	0	0	IZS	0	0	0	0	5	1.0	24
20	0	0	0	0	0	0	0	0	2	1	1	0	1	1	0	1	1	1	IZS	2	2	2	2	2	2	0.8	24	
21	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	5	8	IZS	6	5	3	2	0	0	8	2.4	24	
22	0	0	0	0	0	0	0	0	0	1	2	1	1	0	2	2	IZS	1	1	1	1	1	1	1	2	0.7	24	
23	1	1	3	3	2	1	1	12	9	14	9	4	5	5	4	IZS	5	4	4	4	3	3	2	2	14	4.4	24	
24	2	2	2	2	3	3	4	4	4	4	3	4	5	6	8	IZS	10	4	5	7	11	5	4	3	2	11	4.5	24
25	2	2	2	2	2	1	1	3	4	9	4	4	4	IZS	3	4	5	5	3	3	3	4	5	4	9	3.4	24	
26	5	5	5	3	3	8	5	6	5	8	13	15	IZS	11	9	9	10	9	6	5	5	6	5	6	15	7.0	24	
27	4	3	3	2	2	1	1	1	8	8	8	IZS	6	8	7	9	11	11	10	6	6	6	6	9	11	5.9	24	
28	10	9	3	1	1	1	1	2	3	3	IZS	3	3	3	3	4	4	3	4	4	4	4	5	5	10	3.6	24	
HOURLY MAX	23	24	16	19	18	13	17	18	32	17	33	30	31	21	18	15	18	20	20	20	18	17	18	20				
HOURLY AVG	4.0	3.9	3.7	3.7	3.2	3.3	3.5	4.4	5.6	5.4	5.7	5.2	5.4	5.3	4.4	5.1	5.6	4.7	4.6	4.7	4.0	3.8	3.7	4.0				

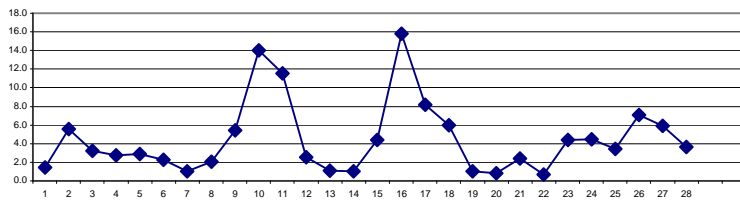
STATUS FLAG CODES

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

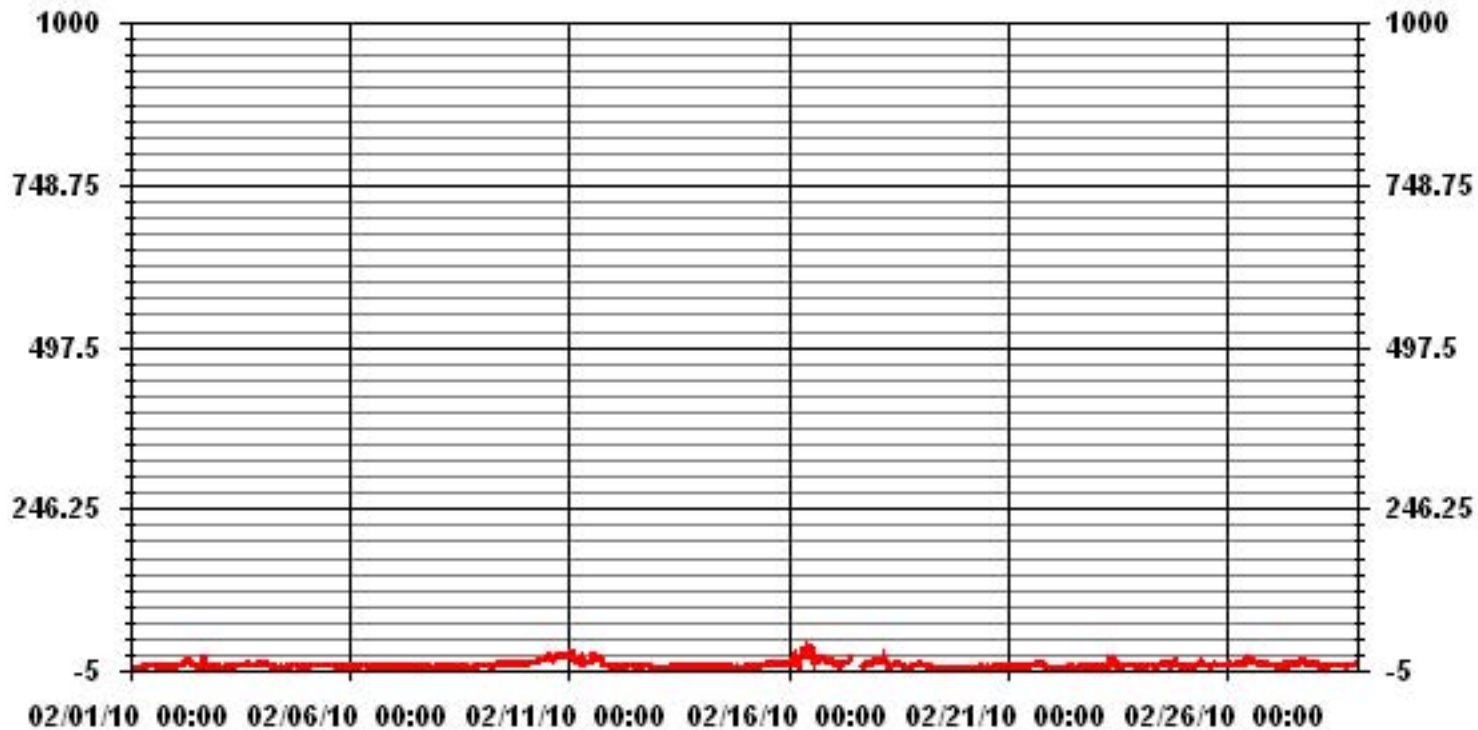
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	577					
MAXIMUM 1-HR AVERAGE:	33	PPB	@ HOUR(S)	10	ON DAY(S)	16
MAXIMUM 24-HR AVERAGE:	15.8	PPB			ON DAY(S)	16
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	7	HRS	AMD OPERATION UPTIME	99.7	%	
STANDARD DEVIATION	4.85		MONTHLY AVERAGE	4.44	PPB	

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



— LICA30 NOX_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - MASKWA

FEBRUARY 2010

OXIDES OF NITROGEN MAX instantaneous maximum in ppb

MST

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR		
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.	
DAY																												
1	0	1	0	0	1	1	1	1	2	M	M	M	4	6	IZS	6	5	4	2	1	2	1	2	3	6	2.2	21	
2	6	4	3	4	6	6	8	50	20	12	12	12	9	IZS	3	22	24	15	2	3	3	4	6	6	50	10.4	24	
3	3	2	6	2	2	2	4	5	6	5	6	6	IZS	4	4	6	7	5	3	4	5	6	7	6	7	4.6	24	
4	6	6	6	6	6	4	2	2	2	3	3	IZS	2	2	3	2	3	5	5	4	3	3	4	4	6	3.7	24	
5	4	3	4	4	5	5	6	4	4	4	IZS	4	6	4	4	4	4	3	2	5	5	3	3	3	6	4.0	24	
6	4	3	3	4	5	5	3	5	6	IZS	3	4	5	5	4	7	7	4	3	2	1	2	2	2	7	3.9	24	
7	1	1	1	1	2	2	2	2	IZS	2	2	2	2	1	1	2	2	3	3	3	3	1	1	1	3	1.8	24	
8	1	1	1	2	2	2	2	IZS	2	3	4	3	2	2	3	3	2	2	2	6	5	5	5	5	6	2.8	24	
9	5	4	4	4	4	4	IZS	6	7	10	7	9	7	8	7	9	13	14	10	9	8	9	8	6	14	7.5	24	
10	8	7	8	9	10	IZS	14	14	14	16	14	15	20	23	28	16	20	22	21	21	20	18	19	21	28	16.4	24	
11	27	27	22	15	IZS	25	36	29	9	12	10	17	27	23	21	18	15	20	15	5	6	6	4	3	36	17.0	24	
12	2	8	5	IZS	6	8	7	7	8	9	9	8	6	4	4	4	6	9	10	8	9	4	0	0	10	6.1	24	
13	0	0	IZS	1	1	1	1	1	2	2	3	3	2	2	2	1	2	3	1	2	2	5	4	4	5	2.0	24	
14	3	IZS	2	1	2	2	1	5	3	2	2	2	1	1	1	1	1	2	1	1	1	1	1	1	5	1.7	24	
15	IZS	2	2	3	3	2	3	3	6	4	4	5	6	6	8	8	11	8	8	7	7	8	9	IZS	11	5.6	24	
16	9	8	27	28	16	8	28	108	42	19	62	66	44	30	16	19	15	19	16	16	12	11	IZS	12	108	27.4	24	
17	11	10	7	9	5	21	12	12	23	C	C	C	C	C	C	5	19	19	11	IZS	12	16	16	23	12.8	24		
18	37	37	13	20	21	17	8	4	14	7	7	12	16	7	4	3	2	1	3	3	IZS	4	7	8	37	11.1	24	
19	6	5	4	4	4	4	1	1	0	1	0	0	0	1	2	5	1	1	0	IZS	0	0	0	0	6	1.7	24	
20	0	0	0	0	0	0	0	2	5	3	1	1	3	2	1	4	3	4	IZS	3	3	4	2	2	5	1.9	24	
21	2	2	2	2	2	2	2	2	2	3	3	3	3	3	4	7	11	IZS	7	7	4	3	1	0	11	3.3	24	
22	0	0	0	0	0	0	1	1	1	2	2	2	2	1	6	3	IZS	3	2	2	2	2	1	2	6	1.5	24	
23	1	4	4	4	3	2	2	63	17	18	11	7	6	6	5	IZS	7	6	5	5	5	3	3	3	63	8.3	24	
24	3	3	3	4	4	4	5	7	5	4	6	8	11	10	IZS	15	5	7	13	15	10	4	5	3	15	6.7	24	
25	3	3	2	2	2	2	2	8	10	14	5	5	5	IZS	4	6	6	6	4	4	4	5	7	5	14	5.0	24	
26	5	6	6	4	4	46	9	14	6	13	18	21	IZS	14	10	10	11	12	7	6	6	7	7	9	46	10.9	24	
27	6	4	4	3	4	2	1	3	14	13	13	IZS	13	11	10	14	15	14	15	12	10	10	11	13	15	9.3	24	
28	14	13	6	3	2	2	2	3	4	5	IZS	4	4	4	6	5	5	5	5	5	5	6	5	6	6	14	5.2	24
HOURLY MAX	37	37	27	28	21	46	36	108	42	19	62	66	44	30	28	22	24	22	21	21	20	18	19	21				
HOURLY AVG	6.2	6.1	5.4	5.1	4.5	6.6	6.0	13.4	8.7	7.4	8.6	9.1	8.2	7.2	6.4	7.7	7.8	7.5	6.8	6.6	5.7	5.0	5.1	5.3				

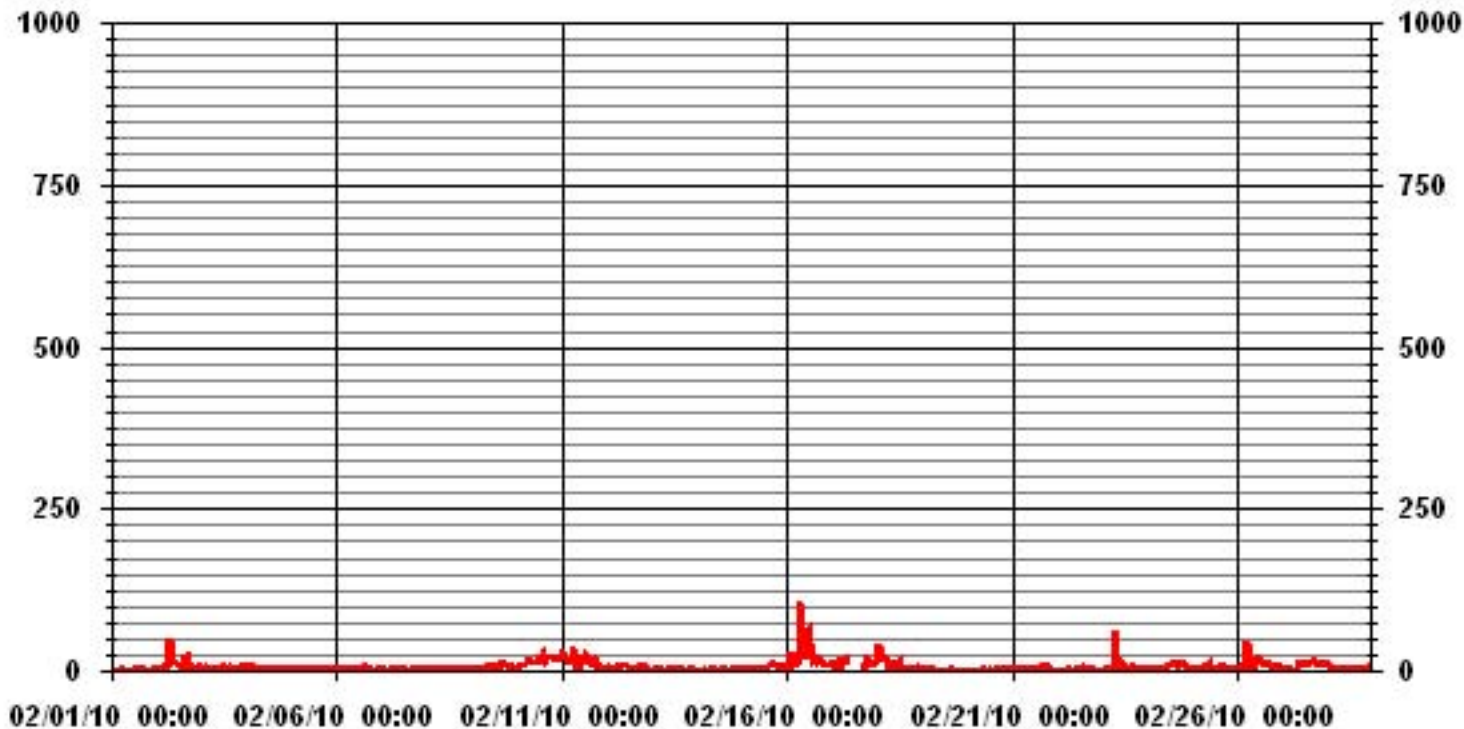
STATUS FLAG CODES

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:	602				
MAXIMUM INSTANTANEOUS VALUE:	108	PPB	@ HOUR(S)	7	ON DAY(S) 16
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	669	HRS
MONTHLY CALIBRATION TIME:	8	HRS			
STANDARD DEVIATION:	8.84				

01 Hour Averages



— LICA30 NOxMAX PPB

LICA30
NOX_ / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 30
Site Name : LICA30
Parameter : NOX_
Units : PPB

Wind Parameter : WDR
Instrument Height : 10 Meters

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	4.33	3.69	3.37	4.17	5.61	11.39	11.55	10.59	8.34	18.13	6.90	2.72	2.72	2.72	2.24	1.44	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	4.33	3.69	3.37	4.17	5.61	11.39	11.55	10.59	8.34	18.13	6.90	2.72	2.72	2.72	2.24	1.44	

Calm : .00 %

Total # Operational Hours : 623

Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	27	23	21	26	35	71	72	66	52	113	43	17	17	17	14	9	623
< 110																	
< 210																	
>= 210																	
Totals	27	23	21	26	35	71	72	66	52	113	43	17	17	17	14	9	

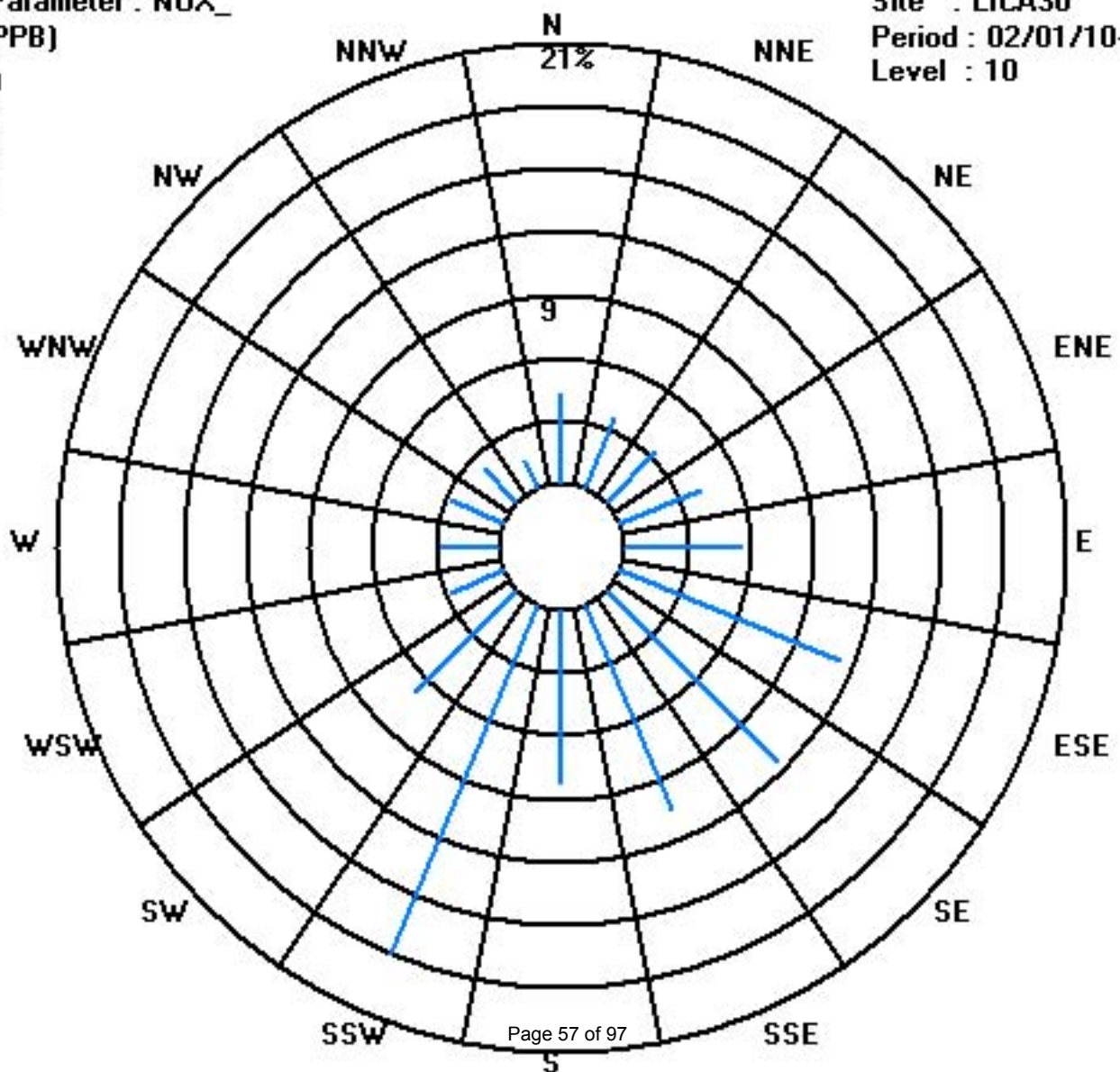
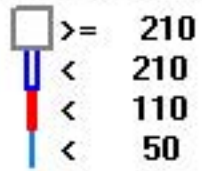
Calm : .00 %

Total # Operational Hours : 623

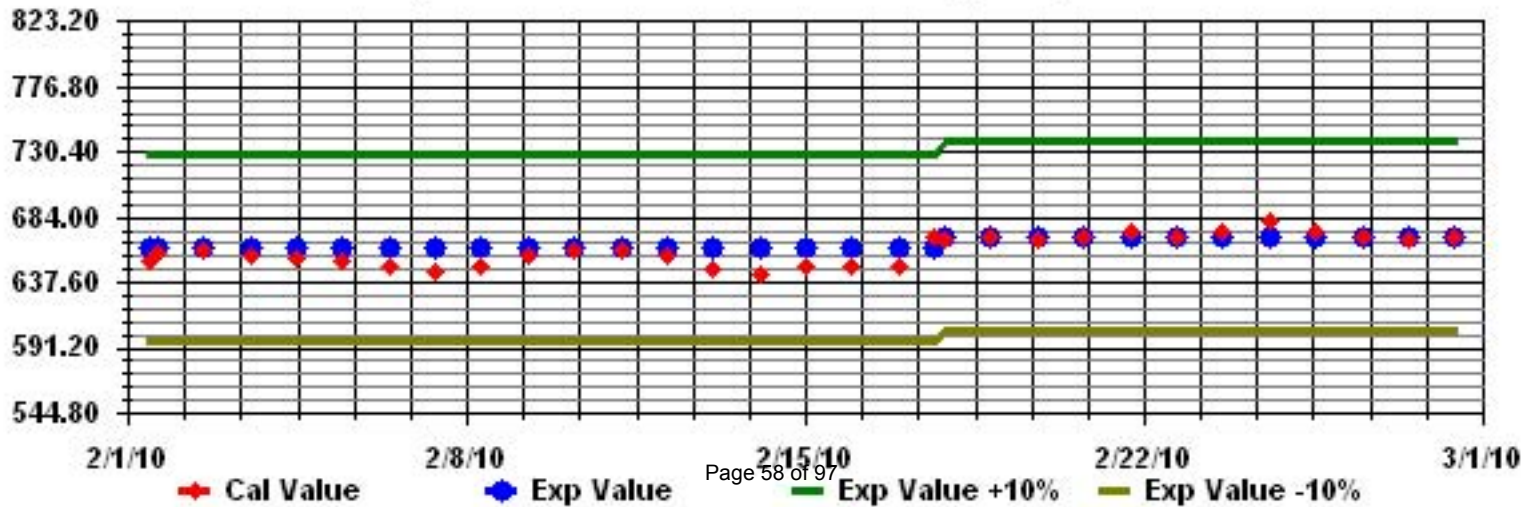
Class Limits (PPB)

Period : 02/01/10-02/28/10

Level : 10



Calibration Graph for Site: LICA30 Parameter: NOX_ Sequence: NO2 Phase: SPAN



Temperature

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - MASKWA

FEBRUARY 2010

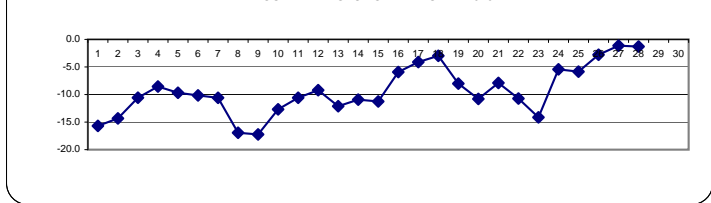
AMBIENT TEMPERATURE hourly averages (Degrees C)

MST		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		
DAY	DAY	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.
1	1	-15.8	-15.8	-15.8	-15.9	-16.1	-16.1	-16.1	-16.1	-16	N	-14.7	-14	-13.3	-12.9	-12.5	-12.8	-13.7	-14	-14.6	-16.9	-18.9	-19.6	-19.4	-19.9	-12.5	-15.7	23
2	2	-19.4	-18.8	-18.7	-19.3	-19.2	-17.7	-16.8	-18.3	-16.6	-14.5	-12.8	-11.1	-10.2	-9.6	-9.8	-10.1	-11	-11.3	-11.5	-11.8	-13.6	-15.4	-13.6	-12.8	-9.6	-14.3	24
3	3	-12.6	-12.5	-12.6	-12.4	-12.5	-12.7	-12.8	-12.9	-12.7	-11.9	-11.3	-10.2	-8.5	-8.2	-8.5	-8.7	-8.9	-9.2	-9.3	-9.2	-9.3	-9.1	-8.9	-9	-8.2	-10.6	24
4	4	-9	-8.9	-8.7	-8.5	-8.3	-8.2	-8.6	-8.9	-9	-8.9	-8.4	-8	-7.6	-7	-6.8	-7	-7.7	-8.1	-8.5	-8.9	-9.5	-9.9	-10.4	-10.4	-6.8	-8.6	24
5	5	-10.5	-10.5	-10.3	-10.2	-10	-10	-10.1	-10.3	-10.6	-10.1	-9.2	-8.5	-7.6	-6.8	-6.7	-7	-8.7	-11.3	-11.9	-11.3	-10.3	-9.8	-10.1	-10.6	-6.7	-9.7	24
6	6	-11.1	-11.2	-11.3	-11.9	-11.7	-11.5	-11.3	-11.1	-10.8	-10.2	-9.3	-8.8	-8.4	-8.4	-8.5	-9	-9.4	-9.9	-10	-10.2	-10.1	-9.9	-9.9	-9.9	-8.4	-10.2	24
7	7	-9.7	-9.6	-9.5	-9.4	-9.3	-9	-8.9	-8.9	-8.9	-8.8	-8.1	-7.9	-6.5	-7	-6.5	-7.4	-9.6	-11.5	-12.9	-14.3	-15.9	-17.5	-18.4	-18.9	-6.5	-10.6	24
8	8	-19.6	-20.3	-20.9	-21.3	-20.9	-21	-20.5	-19.9	-19.4	-18.3	-15.7	-14.7	-13	-11.4	-10.1	-9.8	-11.9	-13.8	-14.3	-15.7	-17	-18.2	-19	-19.7	-9.8	-16.9	24
9	9	-20.3	-20.9	-21.3	-21.2	-20.3	-20.2	-20.1	-20	-19.9	-18.8	-17	-14.6	-12.9	-12.7	-12.5	-13.3	-14.1	-15.6	-15.5	-15.9	-16.8	-16.8	-16.7	-16.4	-12.5	-17.2	24
10	10	-16.2	-16	-15.9	-15.6	-15.5	-15.6	-15.6	-15.7	-15.7	-15.1	-13.8	-11.7	-9	-4.6	-3.4	-5.6	-7.5	-9.8	-11.4	-12.5	-12.6	-14.2	-15.4	-16.1	-3.4	-12.7	24
11	11	-15.8	-15.8	-14.6	-13.2	-13.9	-13.5	-13.4	-15	-14.1	-11.9	-7.7	-4.9	-3.2	-3.3	-3.3	-2.6	-4.4	-7.6	-11.6	-13.7	-14.1	-13.5	-12.4	-10.7	-2.6	-10.6	24
12	12	-9.7	-9.5	-9.4	-9.3	-9.2	-8.8	-8.7	-8.6	-8.4	-8	-7.7	-7.8	-8	-8.2	-8.6	-9	-9.6	-10	-10.4	-10.8	-10.8	-10.4	-10.1	-10	-7.7	-9.2	24
13	13	-10	-10.1	-10.6	-11.7	-14.5	-16.4	-18.3	-20	-19.2	-13.5	-10.5	-9.3	-7.8	-6.9	-6.2	-6.1	-7.8	-9.8	-11.4	-12.3	-13.1	-14.4	-15.4	-15.6	-6.1	-12.1	24
14	14	-15.3	-15.9	-16.4	-17	-17.8	-18	-18.1	-19.3	-17	-13.3	-10.9	-8	-5.4	-3.3	-1.7	-1.1	-2.6	-4.4	-6	-7.5	-8.8	-10.4	-11.5	-12.5	-1.1	-10.9	24
15	15	-13.4	-14	-15.4	-15.6	-16.3	-15.6	-17.3	-17.5	-13.9	-12.4	-11	-9.7	-8.7	-6.7	-4.3	-3.9	-4.5	-6.1	-7.9	-9.4	-10.1	-11	-12.5	-13	-3.9	-11.3	24
16	16	-14.3	-14.7	-13.4	-12.5	-12.7	-13.7	-13.6	-13.4	-11.7	-7.5	-3.1	3	6.5	7.4	8	4.9	2.1	-1	-3.4	-5.5	-6.4	-7.8	-9.2	-10.2	8.0	-5.9	24
17	17	-10.1	-10.8	-11.1	-11.6	-11.1	-10.8	-10.7	-11.1	-9	-4.6	-0.2	3	5.3	7	5.3	5.1	3.6	0	-2.1	-3.4	-4.2	-5.3	-5.5	-6.3	7.0	-4.1	24
18	18	-6.8	-7.4	-7.4	-7.6	-7.5	-7.1	-7.1	-6.5	-3.6	0.3	3.2	4	5.6	4.9	4.1	2.4	-0.6	-3.3	-3.9	-5.3	-5.3	-4.9	-4.2	5.6	-3.0	24	
19	19	-6	-7.2	-7.2	-7.5	-9.1	-9.6	-8.1	-7.9	-8.2	-8	-8.7	-8	-6.9	-5.6	-6.1	-7.1	-8	-8.3	-8.9	-9.1	-9.4	-9.6	-9.9	-5.6	-8.0	24	
20	20	-10	-10.2	-10.3	-10.5	-10.8	-11	-11.2	-11.3	-11	-10.3	-9.8	-9.2	-8.4	-8.1	-7.9	-7.8	-8.6	-10.6	-12.3	-13.3	-13.2	-14.4	-14.3	-14.7	-7.8	-10.8	24
21	21	-14.3	-13.5	-12.9	-12.4	-12.1	-11.8	-11.6	-11.6	-10.9	-9.5	-8.3	-7.1	-4.4	-2.5	-2	-1.6	-2.7	-4.9	-7.2	-6.9	-4.6	-4.6	-5.4	-6.7	-1.6	-7.9	24
22	22	-7.4	-8.1	-8.9	-9.6	-10	-10.7	-11.1	-11.1	-10.8	-10	-8.9	-8.2	-6.4	-6.4	-4.6	-5.4	-7	-9.7	-12.8	-14.8	-16.7	-18.5	-19.7	-20.7	-4.6	-10.7	24
23	23	-21.6	-22.6	-23.3	-23.3	-23.1	-23.7	-24.2	-24.2	-20.6	-16.5	-12.7	-10	-9.5	-8.1	-7.5	-7.9	-7.8	-7.8	-7.6	-7.4	-7.3	-7.5	-7.6	-7.5	-7.3	-14.1	24
24	24	-7.6	-7.7	-7.9	-8.1	-8.2	-8.3	-8.4	-8.5	-8.2	-7.7	-7	-5.8	-3.1	-1.1	2.2	3.1	1.7	-1.1	-3.7	-4.9	-5.9	-6.5	-8.4	-9.4	3.1	-5.4	24
25	25	-11.6	-12.4	-14	-12.8	-12.9	-13.7	-14.5	-15.6	-11.9	-7	-4.5	-0.3	0.7	2.3	2.4	2.6	1.7	-0.6	-2.2	-2.2	-2.8	-3.5	-3.7	-4	2.6	-5.9	24
26	26	-4.3	-4.5	-6.2	-8.7	-10.2	-11.5	-12.8	-12.8	-9.6	-4.3	0.5	3.5	4	4.5	5.8	6.4	5.2	1.1	-1.6	-2.4	-1.7	-1.4	-2.4	-3.4	6.4	-2.8	24
27	27	-4.1	-5.4	-5.4	-4.9	-4.3	-4.7	-5	-4.6	-2.3	-0.6	1.2	2.7	3.3	3	2.3	2.2	2	1	0.4	-0.1	-0.6	-0.9	-1.1	-1.5	3.3	-1.1	24
28	28	-1.8	-2.2	-2.4	-2.6	-2.8	-2.9	-3	-3.2	-2.6	-1.5	-0.7	-0.2	1.5	2.7	3.2	3	2.3	0.1	-1.6	-1.9	-2.4	-3.3	-4	-4.8	3.2	-1.3	24
HOURLY MAX		-1.8	-2.2	-2.4	-2.6	-2.8	-2.9	-3.0	-3.2	-2.3	-0.6	1.2	3.5	6.5	7.4	8.0	6.4	5.2	1.1	0.4	-0.1	-0.6	-0.9	-1.1	-1.5			
HOURLY AVG		-11.7	-12.0	-12.2	-12.3	-12.5	-12.7	-12.8	-13.0	-12.0	-9.9	-8.2	-6.5	-5.2	-4.2	-3.7	-4.0	-5.1	-6.9	-8.3	-9.1	-9.7	-10.3	-10.7	-11.0			

STATUS FLAG CODES

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

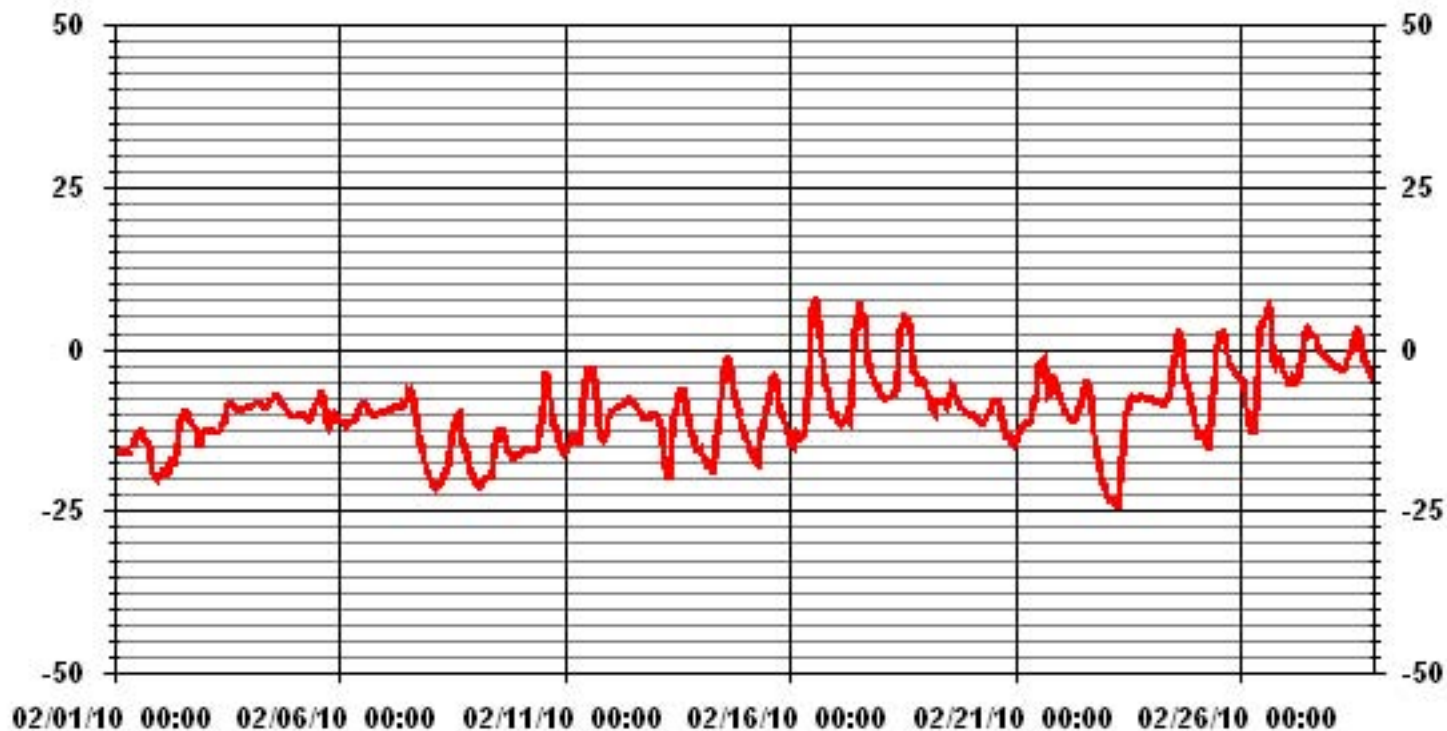
24 HOUR AVERAGES FOR FEBRUARY 2010



MONTHLY SUMMARY

MINIMUM 1-HR AVERAGE:	-24.2 °C	@ HOUR(S)	6,7	ON DAY(S)	23
MAXIMUM 1-HR AVERAGE:	8.0 °C	@ HOUR(S)	14	ON DAY(S)	16
MAXIMUM 24-HR AVERAGE:	-1.1 °C			ON DAY(S)	27
CALIBRATION TIME:	0 HRS	OPERATIONAL TIME:	671 HRS		
STANDARD DEVIATION:	5.97	AMD OPERATION UPTIME:	99.9 %		
		MONTHLY AVERAGE:	-9.34 °C		

01 Hour Averages



— LICA30 TPX DGC

Precipitation

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - MASKWA

FEBRUARY 2010

PRECIPITATION hourly averages (mm)

MST		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	DAILY		
DAY	HOURLY MAX	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.	TOTAL	RDGS.	
1																												0	
2																													0
3																													0
4																													0
5																													0
6																													0
7																													0
8																													0
9																													0
10																													0
11																													0
12																													0
13																													0
14																													0
15																													0
16																													0
17															M	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	10
18		0	0	0	0	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	
19		0	0	0	0	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	
20		0	0	0	0	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	
21		0	0	0	0	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	
22		0	0	0	0	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	
23		0	0	0	0	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	
24		0	0	0	0	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	
25		0	0	0	0	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	
26		0	0	0	0	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	
27		0	0	0	0	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	
28		0	0	0	0	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	
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

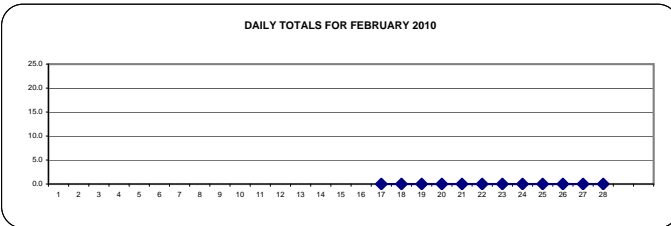
STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	MD	-MISSING DATA

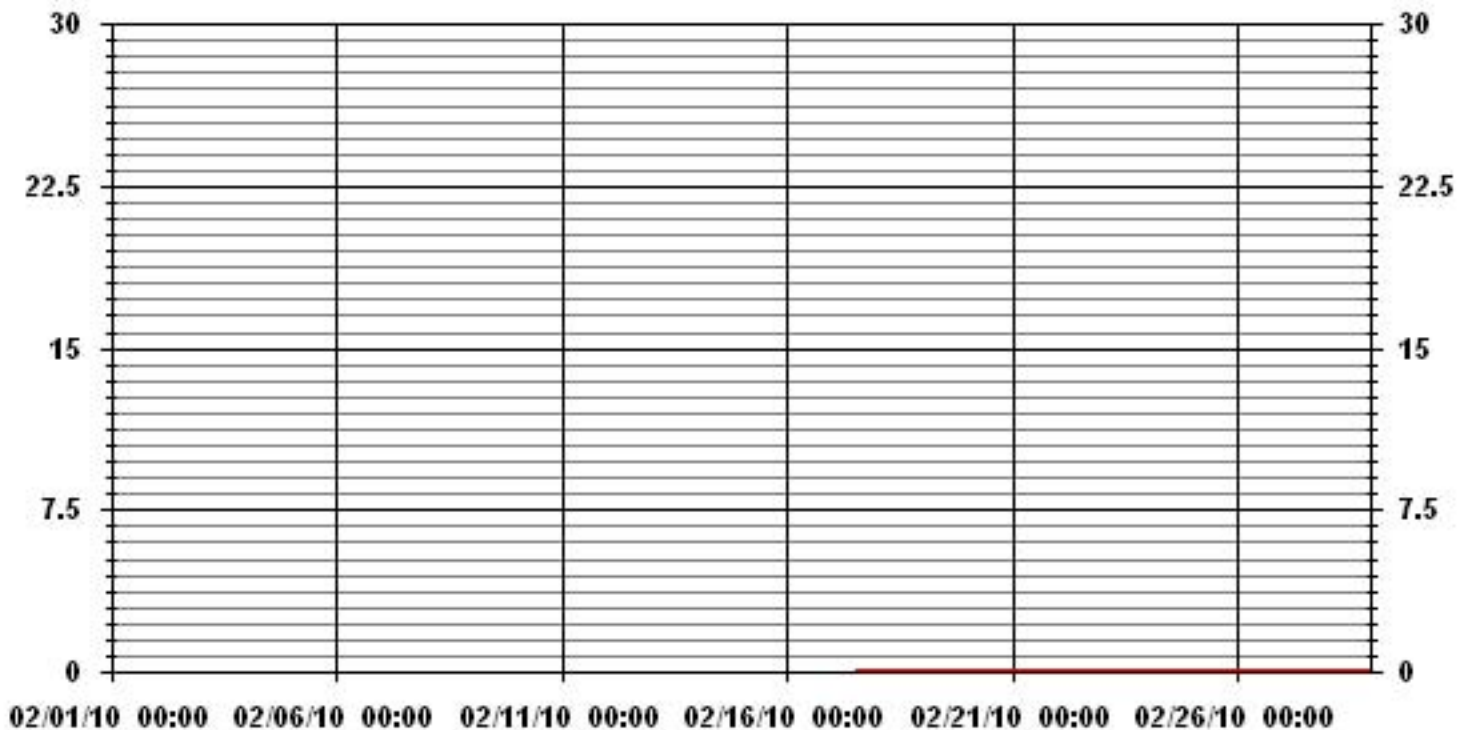
MONTHLY SUMMARY

MAXIMUM 1-HR AVERAGE:	0.0	MM	HOUR(S)	ALL	ON DAY(S)	ALL
MAXIMUM DAILY TOTAL	0.0	MM			ON DAY(S)	ALL
MONTHLY TOTAL	0.0	MM				
CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	274	HRS	
STANDARD DEVIATION:	0.00		AMD OPERATION UPTIME:	100.0	%	
			MONTHLY AVERAGE:	0.00	MM	

DAILY TOTALS FOR FEBRUARY 2010

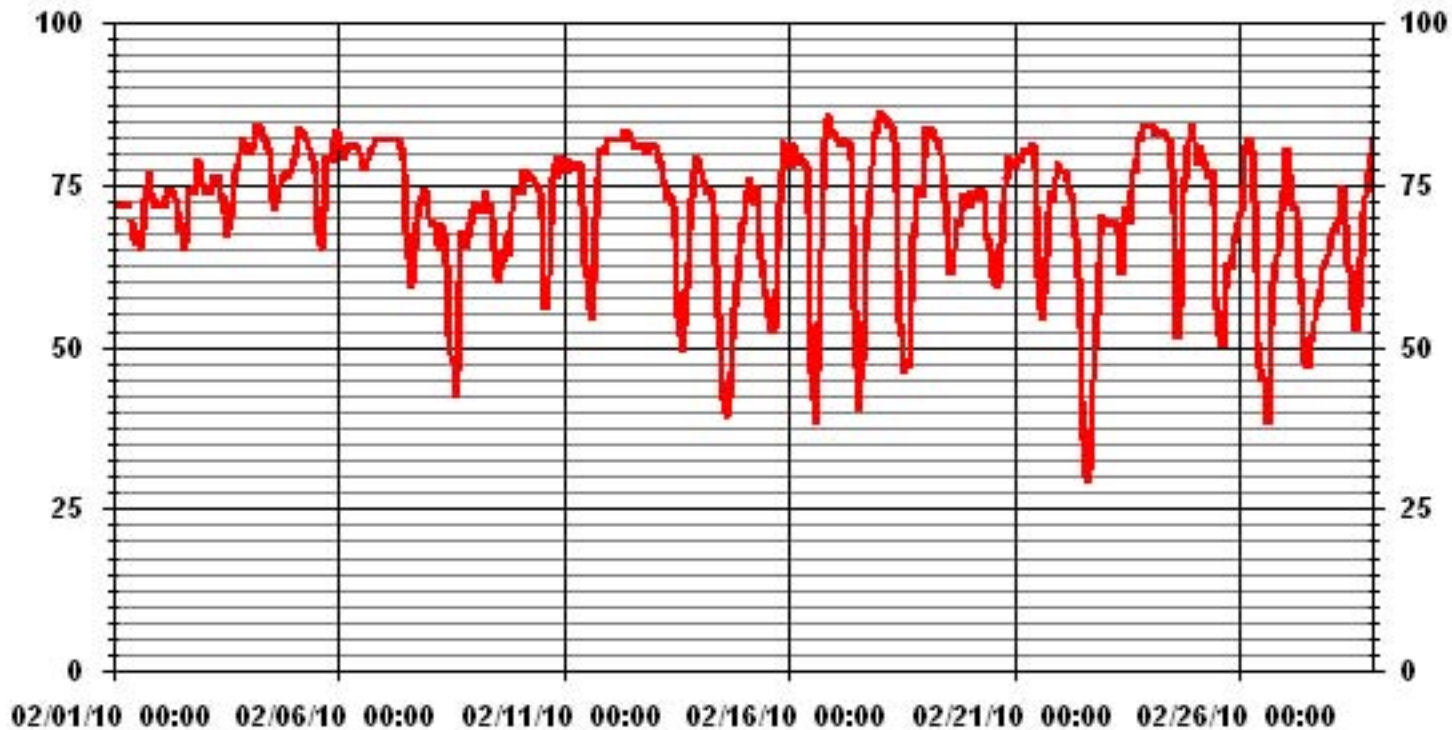


01 Hour Averages



Relative Humidity

01 Hour Averages



— LICA30 RH %FS

Barometric Pressure

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - MASKWA

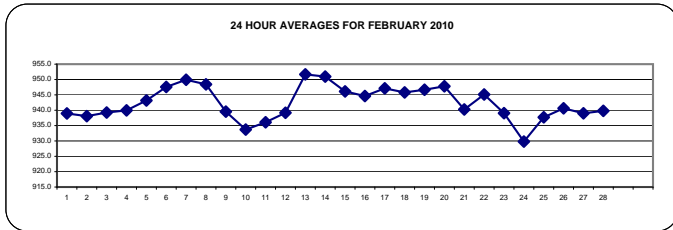
FEBRUARY 2010

BAROMETRIC PRESSURE hourly averages (millibar)

MST		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 MAX.	24-HOUR AVG.	RDGS	
HOUR START	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		942	942	941	941	940	940	939	939	939	N	939	939	938	938	937	938	938	938	938	938	938	938	938	938	938	942	939.0	23
2		938	938	938	938	938	938	937	938	937	938	938	938	938	938	938	938	938	938	938	938	938	939	939	939	939	939	938.1	24
3		939	939	939	939	938	938	939	939	939	939	940	940	940	940	939	939	939	939	939	939	939	940	940	940	940	940	939.3	24
4		939	938	939	940	940	939	939	939	940	940	940	940	940	940	940	940	940	940	941	941	941	941	940	941	942	942	940.0	24
5		942	942	942	942	942	942	943	943	943	943	943	943	943	944	944	944	944	944	944	944	944	944	944	944	945	945	943.2	24
6		946	946	946	946	946	946	947	947	947	948	948	948	948	948	948	948	947	948	949	949	949	949	949	949	949	949	947.6	24
7		949	949	949	949	949	949	949	949	950	950	950	950	950	950	950	950	950	950	951	951	951	951	951	951	951	951	949.9	24
8		951	951	951	951	951	950	950	950	950	950	950	949	949	948	948	947	947	947	946	946	946	945	945	944	951	948.4	24	
9		944	944	944	943	942	942	942	941	941	941	941	940	939	939	938	938	938	937	937	936	936	936	935	935	944	939.5	24	
10		935	935	934	934	934	934	934	934	934	934	934	933	933	934	934	933	933	933	933	933	932	933	934	934	935	933.7	24	
11		934	934	934	934	935	935	935	936	936	937	937	937	938	937	937	937	937	936	936	936	936	936	937	937	938	936.1	24	
12		937	937	937	937	937	937	937	938	938	938	938	939	939	939	939	939	939	940	941	942	942	943	943	944	944	939.2	24	
13		944	945	946	946	947	948	949	950	951	952	953	953	952	954	954	955	955	955	955	955	955	955	956	955	956	951.7	24	
14		955	955	955	954	953	953	953	953	952	951	952	952	951	951	950	950	949	949	948	948	948	947	947	947	955	951.0	24	
15		947	947	947	947	947	946	947	947	946	946	947	946	946	946	946	946	946	946	945	945	945	945	945	945	947	946.1	24	
16		945	945	944	944	944	944	944	944	944	945	945	946	946	946	946	945	945	944	944	944	944	944	944	945	944	946	944.6	24
17		944	945	945	946	946	947	947	947	947	948	949	949	949	949	948	948	948	947	947	947	947	947	947	947	949	947.1	24	
18		947	946	946	946	946	946	946	946	946	946	946	947	947	946	946	945	945	945	945	945	945	945	945	946	947	945.8	24	
19		945	944	945	945	946	946	946	946	947	947	947	947	947	947	947	947	947	947	948	948	948	948	948	948	948	948	946.7	24
20		948	948	949	949	949	949	949	949	949	949	949	949	949	948	948	947	947	946	946	946	945	945	945	945	949	947.8	24	
21		945	944	944	943	942	942	941	940	940	939	939	939	938	938	937	937	937	938	939	940	941	941	942	945	940.3	24		
22		943	943	944	944	944	944	944	945	945	946	946	946	946	946	946	946	946	946	946	946	946	945	945	945	946	945.1	24	
23		945	945	944	944	943	943	942	942	941	941	940	940	939	939	938	937	937	936	935	935	934	933	932	932	945	939.0	24	
24		931	931	930	930	929	929	929	928	928	928	928	928	929	929	929	930	930	930	930	931	931	931	932	932	933	933	929.8	24
25		934	934	935	935	936	936	937	937	937	938	938	939	939	939	939	939	939	939	939	939	939	939	939	939	940	937.7	24	
26		940	940	940	940	940	940	940	940	941	942	942	942	942	942	942	941	941	940	940	940	940	940	940	940	942	940.6	24	
27		940	940	940	940	939	939	939	939	939	940	940	940	940	939	938	938	938	938	938	938	938	938	938	938	940	939.0	24	
28		938	938	938	938	938	938	938	938	939	939	940	940	940	940	939	940	941	941	941	941	942	942	942	943	943	939.8	24	
HOURLY MAX		955	955	955	954	953	953	953	953	952	952	953	953	952	954	954	955	955	955	955	955	955	955	956	955				
HOURLY AVG		942	942	942	942	942	942	942	942	942	943	943	943	943	942	942	942	942	942	942	942	942	942	942	942	942			

STATUS FLAG CODES

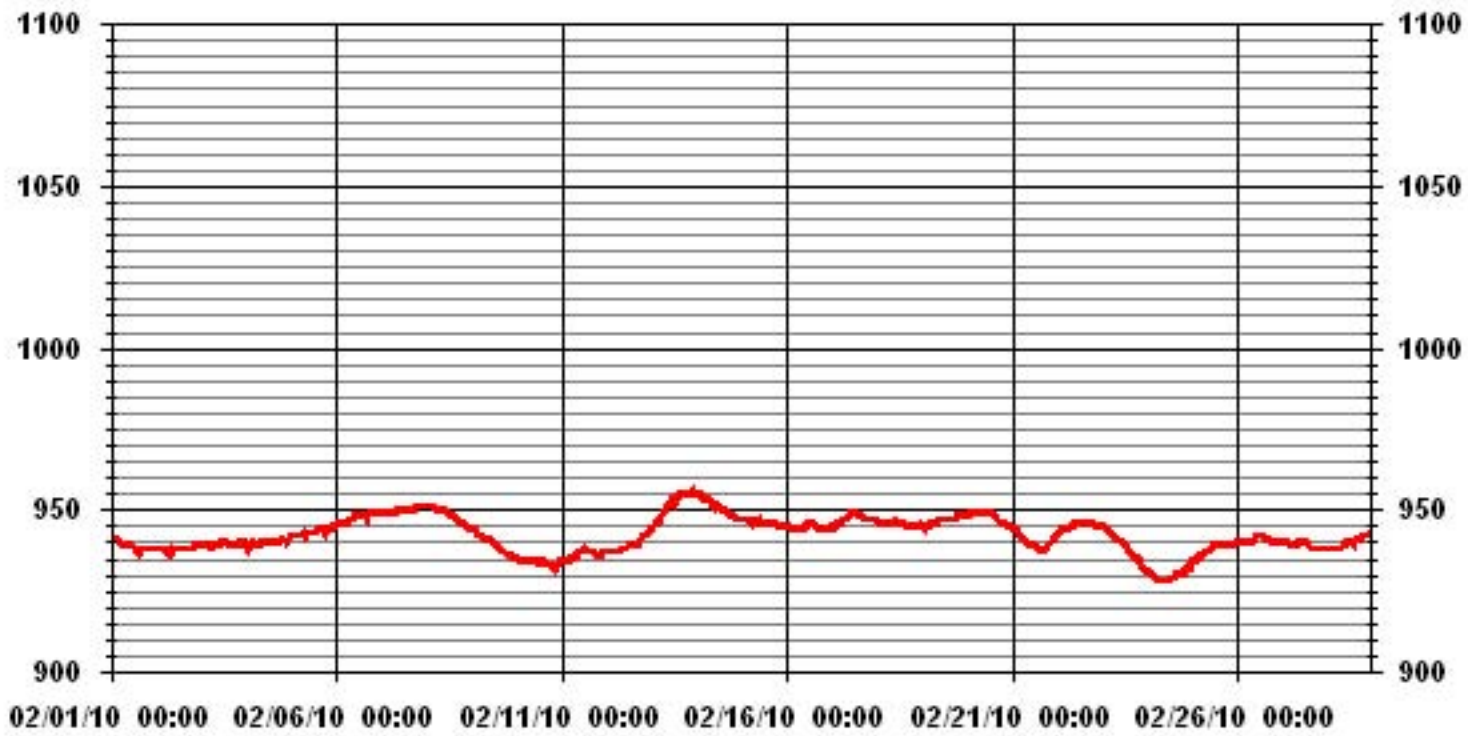
S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE



MONTHLY SUMMARY

MAXIMUM 1-HR AVERAGE:	956	MB	@ HOUR(S)	22	ON DAY(S)	13
MAXIMUM 24-HR AVERAGE:	951.7	MB			ON DAY(S)	13
					VAR-VARIOUS	
CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	671	HRS	
			AMD OPERATION UPTIME:	99.9	%	
STANDARD DEVIATION:	5.57		MONTHLY AVERAGE:	942	MB	

01 Hour Averages



— LICA30 BP MB

Vector Wind Speed

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION -MASKWA

FEBRUARY 2010

WIND SPEED hourly averages (km/hr)

MST

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	6.1	6.2	6.7	5.3	4.6	4.6	4.5	4.1	3.9	M	4.2	4.2	3.7	3.5	2.4	1	1.9	2.1	2.4	2.2	1.1	0.2	0.2	0.5	6.7	2.9	23
2	0.8	1.1	0.8	0.9	1	0.6	0.7	1.2	1.5	1.5	2.2	2.6	3.1	5.7	5.5	3.5	4.3	3.6	4.2	4	2.7	2.5	3	1.9	5.7	2	24
3	2.2	2.9	1.7	1.3	1.6	3	4	3.2	6	6.6	7	4.3	3.9	6	3.6	3	2.7	2.6	3	2.9	2.9	4.2	2.2	2.1	7	2.6	24
4	2.2	1.9	2.6	2.2	2.8	5.3	6.8	6.7	6.5	5.8	6.3	6.4	6.5	7	6.7	6	6.5	5.5	5.9	6.2	6.3	4	2.6	3.5	7	4.8	24
5	3.4	3.8	2.7	3.9	4.7	4.5	4.3	4.8	5.3	4.8	5.3	4.4	4.3	4.1	5.5	5.2	3.3	2.4	2	2.9	2.9	5	6.6	6.3	6.6	3.9	24
6	5.4	4.6	5.9	4.5	3.5	4.7	5.3	8.5	6	5.1	5.2	6.3	5.4	5.2	5.1	5.9	5.3	5.8	6.4	6.3	6.4	4.8	6.2	N	8.5	5.4	23
7	N	N	N	N	N	N	N	N	N	N	M	9.4	9.5	9.5	8.9	8.6	8	6.6	7.9	6.8	7.3	7.9	7.8	8.9	9.5	8.1	13
8	7.1	6.1	7.1	7.2	6.9	7.5	8.3	6.2	6.5	7.2	7.1	8.7	8.7	8.7	8.8	10.5	9.1	9	7.6	5.8	5.8	4.2	4.9	3.9	10.5	7.1	24
9	4.1	3.8	3.2	4.3	3.4	4.1	4.5	3.7	3.7	3.3	5.1	4	6	7.2	8.4	7.5	3.7	2.2	3.9	5.2	4.8	5.3	3.7	3.2	8.4	4.2	24
10	3.1	2.4	3.9	4.3	4.5	3.6	2.8	3.1	2.7	3	3.2	2	1	1.9	2.6	5.7	5	4.7	2.7	0.5	0.5	0.5	0.9	0.3	5.7	2.4	24
11	0.3	0.7	2.2	1.3	0.7	0.9	0.4	2	2	1.8	1.9	0.9	4.2	6.5	6.5	5.1	5.2	1.7	3.2	2.3	4	3.4	3.7	5.1	6.5	0.7	24
12	6.4	7.3	6.4	4.2	3.7	4.6	5.8	5.2	5.3	7.1	6.9	7.2	6.9	7.2	6	4.9	7	7.2	7.6	7	6.7	7	7.5	7.2	7.6	6.1	24
13	6.4	6.6	7.5	5.3	4.9	4.5	3.5	2.8	2.5	2.1	6.8	6.9	6.8	6	7.7	9.8	8.5	6.6	5.5	4.5	5.4	3.7	3.8	4.8	9.8	5	24
14	6.6	4.3	4.7	4.8	3	4	4.5	4.9	6.2	8.7	6.8	8.2	8.6	9.4	11	11	10.2	8.4	6.7	6.6	6.6	4.8	5.2	4.5	11	6.4	24
15	4.8	4.2	1	3.3	3	3.3	0.3	0.8	5.3	5.2	5.1	5.9	5.9	5.4	6	5.6	4.9	4.8	3.8	3.6	2.9	2	0.5	1.4	6	3.1	24
16	0.5	0.6	0.9	1.9	2.2	0.6	2	2	1.5	1.2	1.4	1.2	0.9	2.5	2.5	6	5.6	4.6	2.7	1.5	1.1	1.1	0.7	1.2	6	1.7	24
17	0.7	1.6	1.6	2	1.7	2.4	1.9	2	2.3	3.3	3.8	4.3	6.8	4.3	5.6	5.3	4.8	5.3	4.8	2.9	3.2	3	3.1	2.6	6.8	2.8	24
18	3.4	1.7	3.3	3.1	3.9	3.7	2.9	2.7	3.5	3.5	3.2	3.4	3.2	4.7	6.4	7.8	8	4.5	2.7	3.1	1.4	1.2	1.4	2.1	8	2.9	24
19	1.9	1.6	2.6	2.6	1.7	5.9	6.5	4.9	6.3	6.8	6.6	8.3	7	5.6	3.1	4.2	4.7	4.4	4.6	3.3	4.2	5.4	4.4	3.6	8.3	4	24
20	3.2	2.1	2.3	1.9	3.5	2.5	2.9	2.8	3.7	3	4.8	6.1	5	5.7	6.3	7.1	7.1	4.9	4.7	4.1	6.8	3.9	5	5.3	7.1	2.8	24
21	5.9	5.4	5.1	5.6	7.4	6.2	7.5	7.2	7.2	7	7.8	6	5.6	5.7	5.7	4.8	2.8	2.9	1.6	5.4	10.4	8.1	8.7	8.5	10.4	3	24
22	8.3	8.4	8.2	8.5	5.9	7.1	6.1	5.7	5.1	5.1	5.1	6.4	6.1	8.3	5.1	5.4	7.3	4.4	1.7	1.1	1.6	0.7	0.7	0.5	8.5	4.6	24
23	0.4	0.5	0.8	0.1	0.2	0.7	0.8	0.6	0.2	0.9	2.9	5.9	7.3	6.1	8	9.4	6.5	8	6.8	5.6	7.5	7.7	9.6	9	9.6	4	24
24	9.1	7.4	6.2	7.7	7	6.4	6.3	5.1	4.7	5.5	4.4	4	3.9	4	3.4	3.5	2.9	1.3	1.5	1.3	1.4	1	1.5	2.5	9.1	3.2	24
25	1.2	1.6	2.3	5.5	4.3	4.2	4	2.6	1.2	1.1	4.4	4.7	6.8	6.1	7.9	6.8	5.5	4.7	4.1	5.2	3.8	3.7	3.5	1.7	7.9	2.2	24
26	2.6	1.6	0.8	0.5	0.6	1.3	0.4	2	1	1	0.9	1.8	1.3	6.8	4.7	4.7	4.4	3.7	2.5	2.7	3.3	3.1	3.6	3.7	6.8	1.6	24
27	4.3	3.4	3.6	2.5	5	4.4	3.9	3.7	7.3	9.9	10.1	11.3	9	8.7	8.4	9.8	11.4	8.8	11.2	10.6	9.3	7.2	8.5	8.3	11.4	6.9	24
28	8.6	7.2	7	5.2	5	4.6	3.3	4.4	4.1	4.9	6.2	6.1	5.6	6.8	6.6	7.6	6.7	4.9	5.7	6.6	4.7	4.1	4.4	3.7	8.6	4.2	24
HOURLY MAX	9.1	8.4	8.2	8.5	7.4	7.5	8.3	8.5	7.3	9.9	10.1	11.3	9.5	9.5	11.0	11.0	11.4	9.0	11.2	10.6	10.4	8.1	9.6	9.0			
HOURLY AVG	4.0	3.7	3.7	3.7	3.6	3.9	3.9	3.8	4.1	4.4	5.0	5.4	5.5	6.0	6.0	6.3	5.8	4.8	4.6	4.3	4.5	3.9	4.1	3.9			

STATUS FLAG CODES

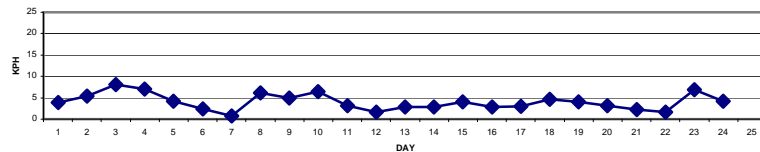
S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

LAST CALIBRATION: February 4, 2009

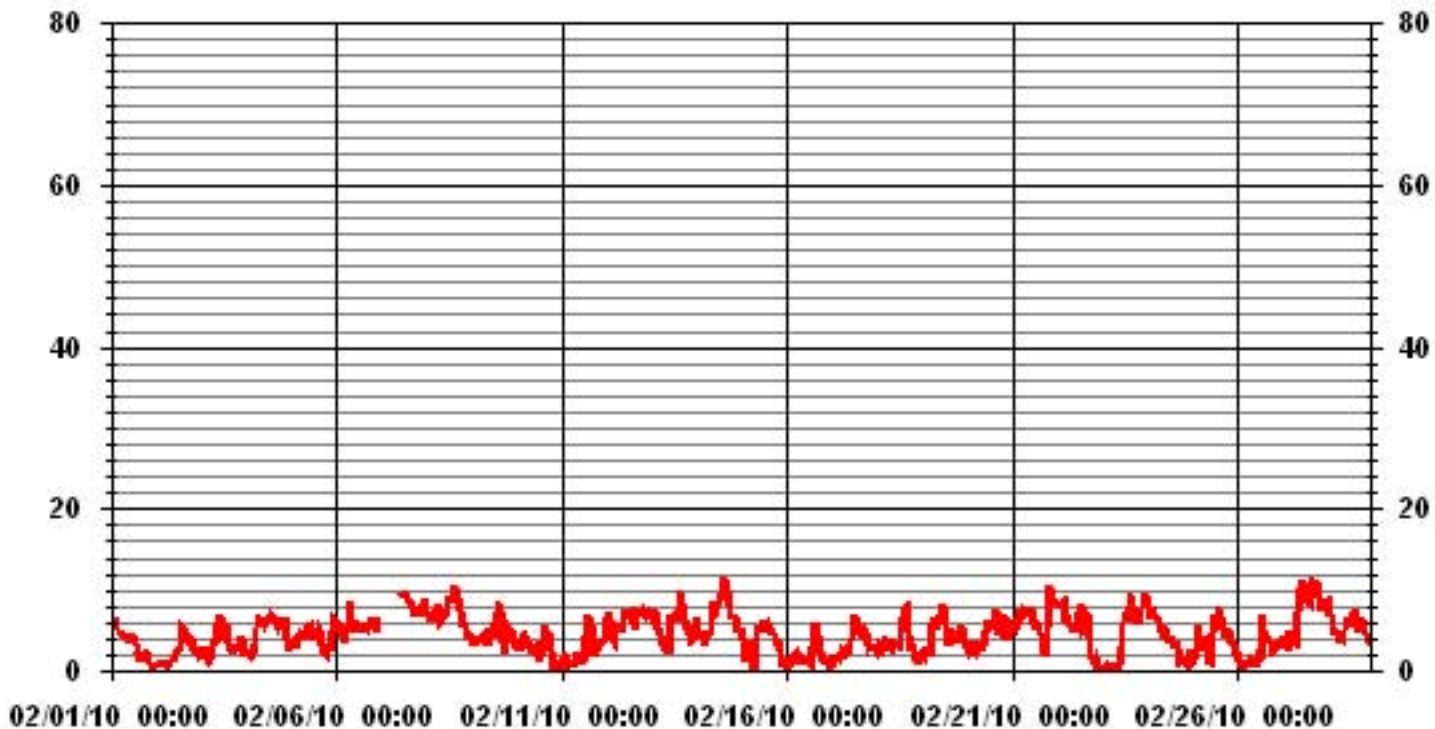
MONTHLY SUMMARY

MAXIMUM 1-HR AVERAGE:	11.4	KPH	@ HOUR(S)	16	ON DAY(S)	27
MAXIMUM 24-HR AVERAGE:	8.1	KPH			ON DAY(S)	7
CALMS (≤ 1 KPH)	5.60	%	OPERATIONAL TIME:	659	HRS	
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME	98.1	%	
STANDARD DEVIATION	2.42		MONTHLY AVERAGE	4.55	KPH	

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



— LICA30 WSP KPH

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - MASKWA

FEBRUARY 2010

VECTOR WIND SPEED MAX instantaneous maximum in km/hr

MST		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 START	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		19	20.5	21.6	16.4	13.6	17.7	16	14.7	12.1	N	15.5	13.2	12.9	14.2	11.7	9.9	12.5	5.2	11.2	5.2	3.5	2	7.8	2.2	21.6	
2		2.8	3.7	2.2	3.9	8.8	5.2	2.6	3.7	10.5	10.6	6.3	10.4	17.9	20.3	19.6	14.7	14.7	17.3	20.3	19.4	16.8	14.5	17.3	8.4	20.3	
3		15.7	13.6	14.2	12.7	5	7.3	10.4	9.4	16.2	17.3	14.5	13.6	11.6	13.2	11.2	12.1	6.3	11.4	9.3	14.4	8.2	10.4	8.4	12.5	17.3	
4		5.6	6.5	9.2	7.6	9.5	17	16.8	18.3	19.4	17.6	17	17.2	19.2	20.3	19	15.7	18.7	14.2	16.6	15.5	17	16.4	9.7	9.7	20.3	
5		9.5	10.1	10.1	9.9	16.2	13.7	11	13.6	14.5	13.2	11.7	14	12.3	14.7	12.9	14.2	14.2	7.6	5.4	13.4	13.6	15.7	20.1	17	20.1	
6		14.4	17	17.9	15.5	15.1	17.9	17.3	20.3	17.3	20.9	14	23.7	20.6	18.6	16	20.1	19.4	17.3	23	18.3	17	14.7	16.2	N	23.7	
7		N	N	N	N	N	N	N	N	N	N	M	29.1	25.2	26.5	21.1	25.4	23.5	17	23.3	19.6	19.2	17.3	20.5	23.3	29.1	
8		18.3	15.5	16.8	17.7	18.8	21.1	25.2	21.1	68.1	20.5	22.2	24.6	22.6	25.9	22.2	29.7	22.8	29.1	25.9	17.7	20.3	27.8	18.6	19	68.1	
9		14.5	14	22.2	15	28.7	16.6	17.7	14	15.3	12.7	15.5	30	16.8	16.8	16.2	17	25.4	59.1	17	18.6	17.3	15.3	13.4	18.6	59.1	
10		31.1	28.9	33.2	12.7	14.2	44.4	42.5	51.9	25	19	19.2	56.9	32.9	20.3	18.3	13.6	14	12.5	9.7	17.3	71.3	83	66.8	20.7	83	
11		73.5	24.6	42.3	30.8	18.1	57.8	12.7	10.4	12.5	13.6	11.2	12.7	12.9	13.1	14.5	12.9	11.9	28.7	28	71.1	76	53.9	19	23.9	76	
12		19	26.1	20	19	17.3	20.9	21.3	21.1	29.3	22.4	22.4	27.4	21.8	22	22	19.8	22.6	27.8	24.6	24.8	25.2	25	22	25.9	29.3	
13		21.6	22.2	22.6	34.1	41.3	69.6	67.7	69	102.8	55.5	16.2	20.5	16.8	17.7	19.8	30.1	26.1	19.4	14.7	15.1	15.1	11.9	46.8	15.8	102.8	
14		20.5	32.8	55.4	71.1	72.2	81.3	81.9	82.1	32.2	26.5	19.2	25.6	25.6	26.9	25	25.4	30	23	20.7	19.2	17.9	17.3	17.3	82.1	82.1	
15		27.4	29.3	12.1	20.1	69.4	20.1	66.8	84	15.5	16.2	12.9	12.3	14	16.2	16.6	13.6	14.2	12.3	13.2	12.7	12.1	9.7	9.1	8.6	84	
16		18.6	40.1	9.3	9.7	10.1	31.7	33.9	16.2	14.9	34.1	11	18.3	10.6	13.1	13.6	14.9	14	11	7.6	13.1	9.5	2.2	1.5	9.9	40.1	
17		20.1	8.6	18.9	18.4	29.5	19.8	21.1	43.3	19	15.1	15.9	19	25.4	24.5	16.8	12.1	20	25	23	15.3	18.3	15	16.8	15.5	43.3	
18		20.3	20.9	35.6	15.1	20.2	19.8	17.9	20.1	14.9	14.4	15.5	16.4	16.4	18	21.1	21.1	21.1	17.7	11.6	14.2	10.6	19.2	23.5	12.1	35.6	
19		11.4	11.9	14	12.5	44.4	20.3	19.8	18	19.4	17.2	21.6	22.4	21.3	16.4	13.7	16	15.5	15.3	14.7	16.8	33.8	18.3	18.6	19	44.4	
20		32.6	58.2	34.1	52.3	20.3	55.2	45.5	31.3	18.1	17.6	14.2	18.6	23.1	22.4	21.1	17.7	18.3	15.1	18.1	34.3	16.8	27.4	16	25.2	58.2	
21		21.3	18.3	19	24.8	18.8	29.1	20.9	24.1	22.2	19.8	27.8	19.2	20.5	15.3	15.1	15.7	22.8	10.1	18.8	22.4	31.9	23.3	28	24.8	31.9	
22		24.4	24.4	21.8	18.3	22.6	19.2	18.1	21.3	16.8	17	17.3	18.6	17.5	21.8	24.8	17	17.2	17	44.6	36.9	87.6	57.1	36.2	23.3	87.6	
23		33.2	59.7	48.5	21.8	25.2	176.6	27.8	53.1	46.4	43.3	13.4	15.5	16.1	15.7	20.5	23.7	19.6	19.2	17.2	17.7	21.1	20.9	26.7	20.9	176.6	
24		22.4	20.1	20.5	19.1	17.9	16.6	16.8	17	17.7	12.6	11.4	19.6	15.5	15.1	18.3	19.4	15.5	10.8	11.2	20.9	11	10.6	35.1	18.1	35.1	
25		12.3	18.3	19.8	31.9	25.6	33	42.9	19.2	17.2	46.1	16.6	17.2	18.7	17.7	19	18.1	14.6	12.5	13.1	13.1	11.9	12.7	14.9	11	46.1	
26		12.3	14.9	11	69.1	10.1	10.8	30	54.9	20.5	11.4	10.3	14.7	12.9	15.5	14.7	12.7	12.5	14.9	12.9	12.3	13.1	14	15.9	16.3	69.1	
27		16.2	13.6	11.9	14.2	17.5	20.9	15.7	16.6	28.9	32.1	32.7	32.3	33.2	32.7	27.1	34.2	37.2	28.7	37.9	33.6	31	23.7	28	27.3	37.9	
28		24.8	24.1	25	19.6	17.2	15.5	12.5	13.2	10.8	15.5	13.8	13.6	20.7	16.8	15.3	22.4	15.9	13.3	11.9	13.6	17.2	13.4	14	12.1	25	
PEAK		73.5	59.7	55.4	71.1	72.2	176.6	81.9	84.0	102.8	55.5	32.7	56.9	33.2	32.7	27.1	34.2	37.2	59.1	44.6	71.1	87.6	83.0	66.8	27.3		

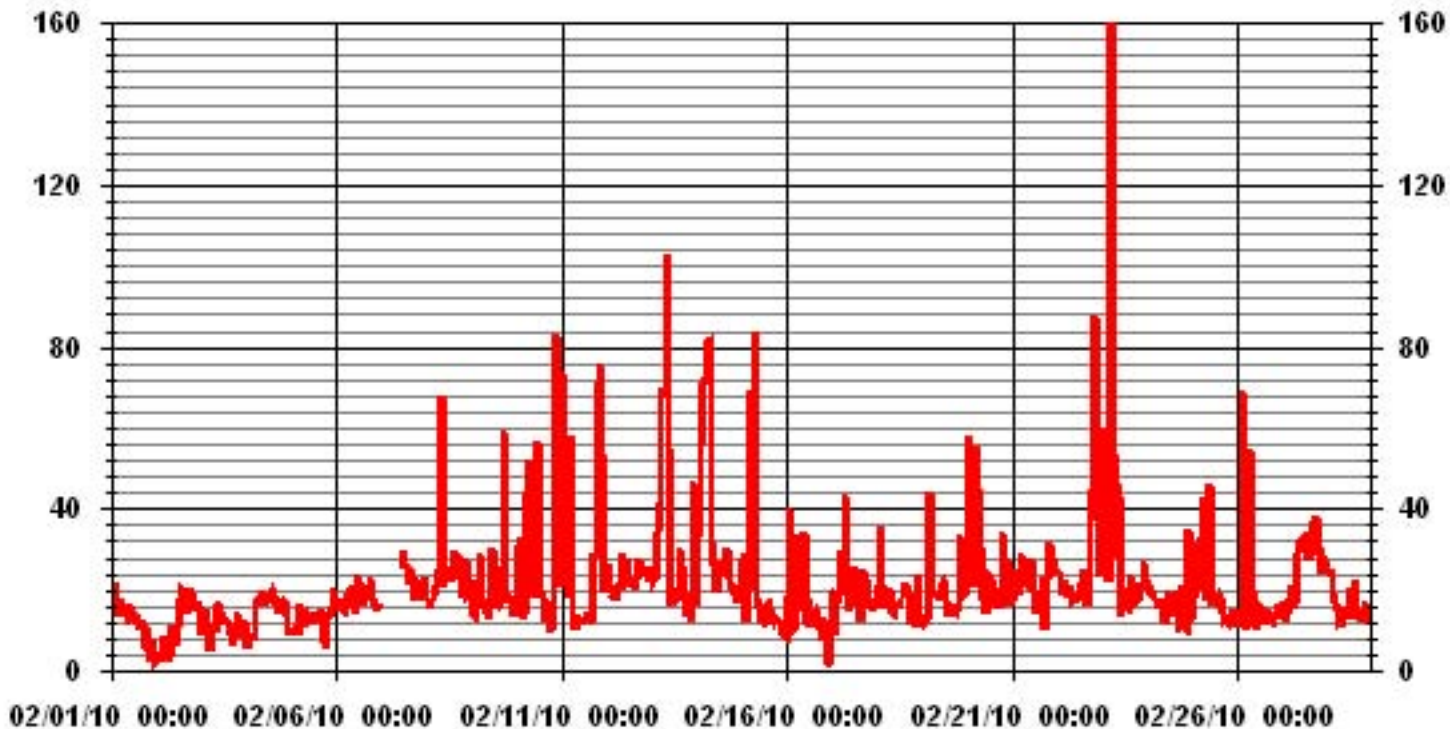
STATUS FLAG CODES

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

MAXIMUM INSTANTANEOUS READING	176.6	KPH	@ HOUR(S)	5
			ON DAY(S)	23

01 Hour Averages



LICA30
WSP / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 30
Site Name : LICA30
Parameter : WSP
Units : KPH

Wind Parameter : WDR
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	2.42	2.42	3.03	3.79	4.24	6.22	6.67	5.91	5.15	11.83	6.22	2.73	2.88	3.18	2.12	1.36	70.25
< 12.0	1.66	1.36	.45	.15	1.06	5.15	5.15	4.24	3.33	6.52	.45	.00	.15	.00	.00	.00	29.74
< 20.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 29.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 39.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 39.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	4.09	3.79	3.49	3.94	5.31	11.38	11.83	10.16	8.49	18.36	6.67	2.73	3.03	3.18	2.12	1.36	

Calm : .00 %

Total # Operational Hours : 659

Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 6.0	16	16	20	25	28	41	44	39	34	78	41	18	19	21	14	9	463
< 12.0	11	9	3	1	7	34	34	28	22	43	3		1				196
< 20.0																	
< 29.0																	
< 39.0																	
>= 39.0																	
Totals	27	25	23	26	35	75	78	67	56	121	44	18	20	21	14	9	

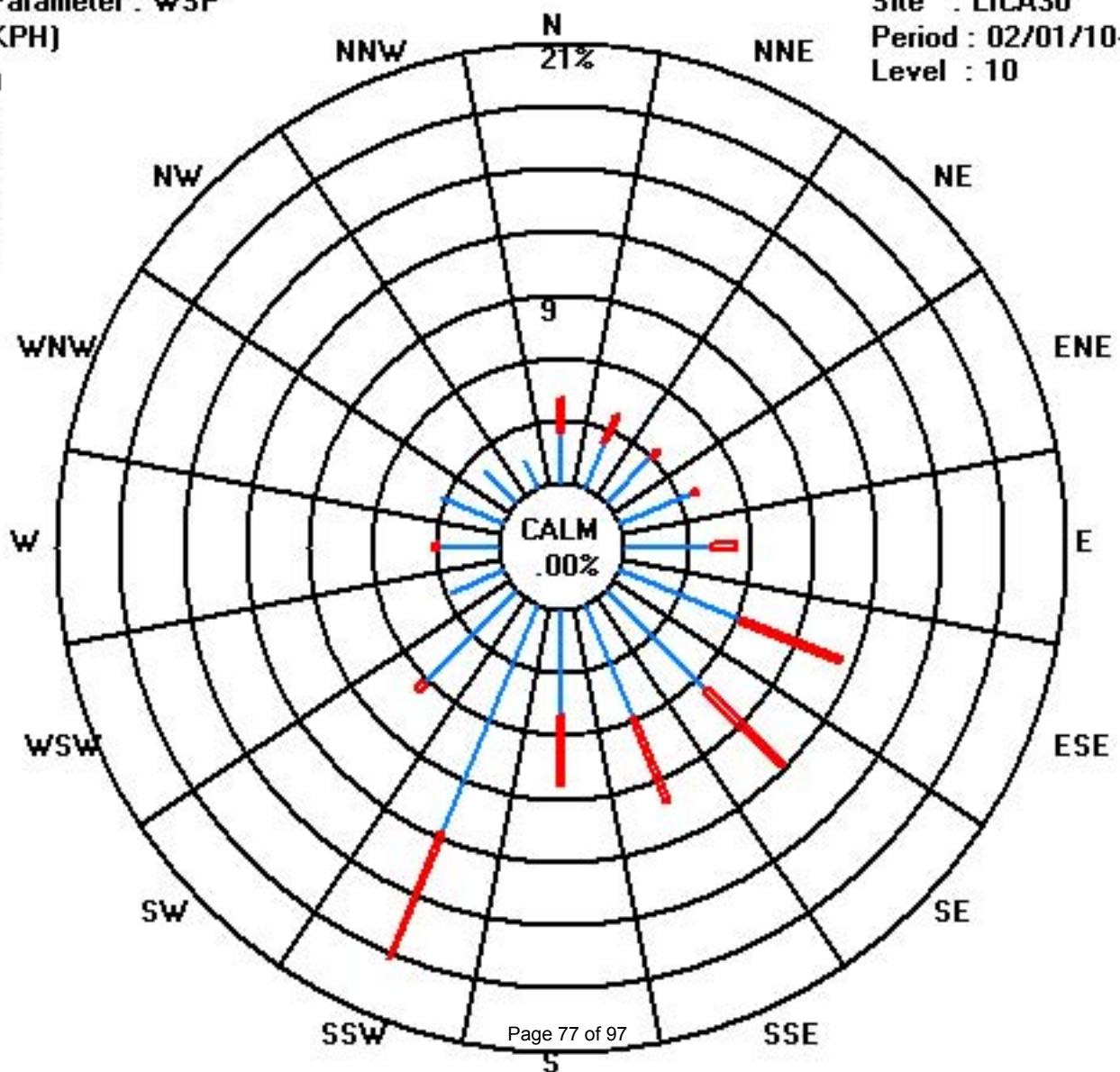
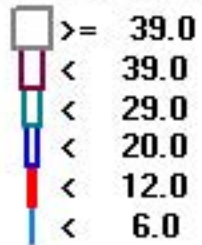
Calm : .00 %

Total # Operational Hours : 659

Class Limits (KPH)

Period : 02/01/10-02/28/10

Level : 10



Vector Wind Direction

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION -COLD LAKE- MASKWA

FEBRUARY 2009

WIND DIRECTION hourly averages in degrees

MST		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 START	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.	QUADRANT	RDGS.
DAY																												
1		118	121	124	131	128	121	120	121	130	M	139	140	152	148	141	77	52	26	41	80	89	316	80	135	121	ESE	23
2		237	205	147	190	242	144	169	217	262	247	219	224	228	283	292	261	219	270	273	278	265	274	292	302	258	WSW	24
3		279	279	299	0	173	160	189	196	181	183	196	193	169	195	178	151	136	128	142	119	137	144	131	96	173	S	24
4		94	109	153	143	149	168	181	166	167	154	157	187	178	168	174	163	181	194	186	205	189	197	196	173	S	24	
5		192	175	170	171	148	148	156	141	165	152	136	147	148	146	164	138	116	83	63	97	97	131	142	148	145	SE	24
6		142	124	130	121	111	99	92	92	105	119	117	123	104	113	118	114	116	118	118	129	131	123	120	0	116	ESE	23
7		0	0	0	0	0	0	0	0	0	0	140	152	152	153	162	153	153	159	157	145	143	142	144	150	150	SSE	13
8		145	139	140	141	154	153	155	139	137	143	154	154	157	157	154	160	169	164	168	157	158	155	157	144	153	SSE	24
9		148	147	148	151	172	168	178	144	171	181	189	198	197	192	198	199	203	201	204	202	201	196	198	205	185	S	24
10		201	224	213	209	212	223	228	230	230	221	219	215	284	310	226	202	199	205	213	171	93	87	217	203	214	SSW	24
11		241	174	248	244	184	335	239	34	48	29	41	197	210	199	196	195	190	140	46	65	67	54	49	68	139	SE	24
12		75	92	89	112	105	114	99	109	98	106	113	111	123	120	112	91	100	104	110	101	119	118	130	124	108	ESE	24
13		137	140	138	132	109	114	129	92	32	120	152	170	150	171	163	175	176	170	165	166	155	144	138	151	149	SSE	24
14		145	130	131	120	96	121	119	99	108	126	124	131	139	144	144	144	146	141	141	144	138	116	123	106	131	SE	24
15		112	118	129	158	164	188	315	128	198	204	201	193	196	203	207	208	211	211	223	224	224	213	301	209	195	SSW	24
16		174	132	202	201	195	208	235	211	209	250	219	260	252	276	256	209	210	211	215	192	163	145	167	195	213	SSW	24
17		190	206	222	209	231	247	239	213	238	272	283	268	280	253	213	211	271	270	271	259	258	295	305	305	256	WSW	24
18		297	268	286	287	291	291	296	304	305	321	305	284	301	322	2	3	3	8	4	6	18	289	258	307	324	NW	24
19		345	318	337	337	30	31	12	4	0	19	43	46	43	28	331	331	354	0	39	48	67	44	53	58	22	NNE	24
20		44	67	66	73	69	65	96	112	139	195	202	209	229	224	214	208	210	214	203	204	205	212	212	214	195	SSW	24
21		215	219	220	216	211	215	211	213	209	213	209	222	221	202	206	222	229	209	257	4	12	3	356	1	230	SW	24
22		13	4	10	25	358	13	8	1	359	359	347	13	2	21	323	1	21	18	81	94	83	175	205	227	9	N	24
23		126	6	60	41	21	99	105	194	289	24	201	187	187	174	186	193	183	192	185	180	196	199	194	190	187	S	24
24		196	198	201	197	192	198	191	192	203	200	201	225	224	221	285	312	303	248	217	262	344	350	61	79	207	SSW	24
25		17	80	43	73	66	59	71	44	4	158	162	146	207	206	200	202	205	191	182	178	172	177	189	197	167	SSE	24
26		157	178	117	60	115	122	19	87	26	21	328	77	50	195	188	157	144	93	68	72	116	124	106	77	123	ESE	24
27		51	29	29	62	90	73	50	50	99	113	114	121	115	108	101	102	107	106	109	112	111	110	107	108	101	E	24
28		110	107	114	116	119	125	137	139	154	193	192	191	198	195	194	207	210	213	202	203	216	215	211	213	175	S	24
HOURLY AVG		345	318	337	337	358	335	315	304	359	359	347	284	301	322	331	331	354	270	273	278	344	350	356	307			

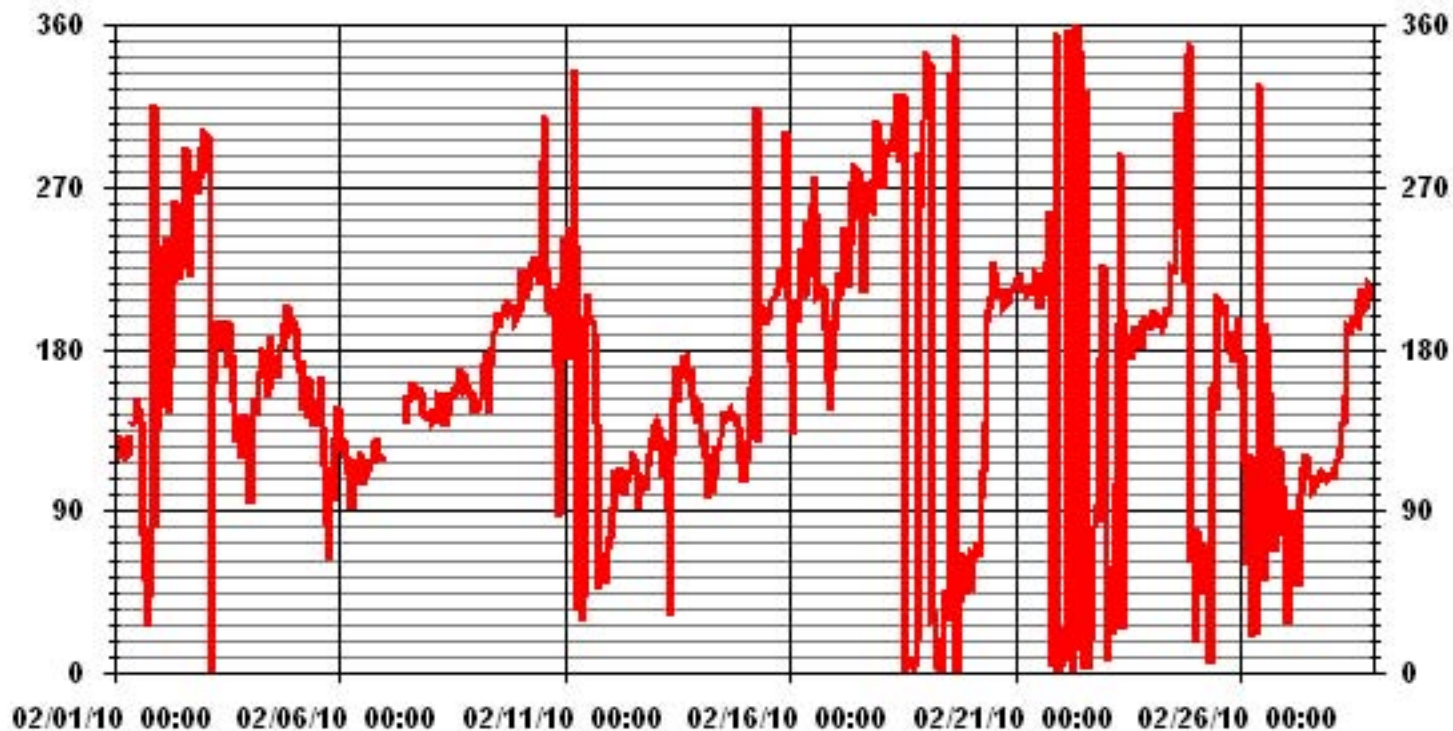
STATUS FLAG CODES

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

LAST CALIBRATION:	February 4, 2009
DECLINATION :	19 DEGREES FROM MAGNETIC NORTH

MONTHLY CALIBRATION TIME:	0 HRS	OPERATIONAL TIME:	659 HRS
STANDARD DEVIATION	79.08	AMD OPERATION UPTIME	98.1 %
		MONTHLY AVERAGE	156 DEG

01 Hour Averages



Standard Deviation Wind Direction

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - MASKWA

FEBRUARY 2010

STANDARD DEVIATION WIND DIRECTION (STDWDIR) hourly averages in degrees

MST

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	23	21	21	22	27	22	22	22	23	N	24	31	29	30	48	54	44	26	20	14	29	59	42	63
2	44	20	29	25	33	47	49	31	39	36	27	30	32	25	22	26	19	26	29	29	32	33	29	41
3	39	25	34	56	33	22	19	26	16	19	15	23	26	17	26	28	22	19	26	25	20	20	27	22
4	22	25	24	31	27	24	22	21	21	23	22	24	22	22	24	24	21	21	17	18	19	20	26	25
5	21	23	37	27	20	23	21	23	21	22	22	27	34	35	21	20	21	18	19	20	22	22	20	21
6	23	21	19	21	24	21	21	21	20	21	24	23	26	27	26	24	25	23	23	24	21	24	25	27
7	12	21	66	56	65	43	12	8	12	10	38	19	23	20	20	22	19	15	19	18	17	15	15	16
8	18	17	14	15	20	19	23	26	24	23	24	22	23	22	23	19	20	19	19	22	21	21	18	21
9	19	17	18	18	27	23	25	23	24	28	23	27	22	21	16	17	20	26	17	15	16	17	18	20
10	19	26	23	20	20	25	30	30	30	29	29	40	61	48	35	17	15	15	24	51	68	66	48	66
11	46	63	40	37	58	49	69	23	24	43	47	38	20	15	16	16	14	21	16	34	27	27	20	23
12	24	22	25	26	31	31	27	30	30	26	24	27	26	25	30	32	28	28	26	29	28	24	24	27
13	25	23	23	24	18	14	18	27	18	26	24	26	25	29	27	24	22	20	18	21	19	20	19	21
14	22	32	28	32	47	35	22	27	23	26	27	25	25	22	18	19	19	17	19	20	22	28	21	28
15	21	20	56	34	26	45	49	31	16	21	20	16	16	19	19	20	18	15	19	16	15	18	43	21
16	42	50	34	21	22	59	20	26	24	37	30	49	63	39	36	17	16	12	12	28	21	22	19	17
17	29	11	23	16	24	27	26	25	24	27	25	33	28	37	24	23	27	23	29	31	35	30	26	28
18	24	34	20	33	29	29	33	41	25	29	31	31	43	40	29	28	22	18	22	18	24	28	24	20
19	30	24	24	31	33	17	22	26	24	19	25	22	23	25	48	32	29	24	21	20	23	20	25	25
20	29	27	37	57	24	26	24	26	20	30	24	24	31	30	27	21	18	18	14	22	14	24	21	25
21	25	26	27	25	21	24	20	22	21	26	22	30	26	28	26	24	32	39	48	18	19	24	24	23
22	25	23	22	14	25	22	22	27	26	30	33	25	35	25	37	32	18	16	27	36	37	62	48	45
23	62	38	54	55	67	34	31	49	59	50	36	24	19	26	22	18	20	17	20	22	18	20	17	18
24	18	20	20	17	17	19	18	24	26	19	23	28	29	28	37	42	28	33	28	29	22	31	24	19
25	30	31	29	17	20	19	22	23	55	53	28	29	22	25	20	22	19	16	19	21	21	25	23	44
26	35	49	52	52	43	58	38	38	50	49	59	64	32	15	33	29	21	16	23	24	24	25	25	24
27	20	17	15	32	22	22	22	23	24	26	28	26	25	27	25	23	22	24	22	24	24	23	20	20
28	19	22	23	26	23	22	22	18	23	23	22	22	29	22	23	21	20	16	12	13	18	17	18	17

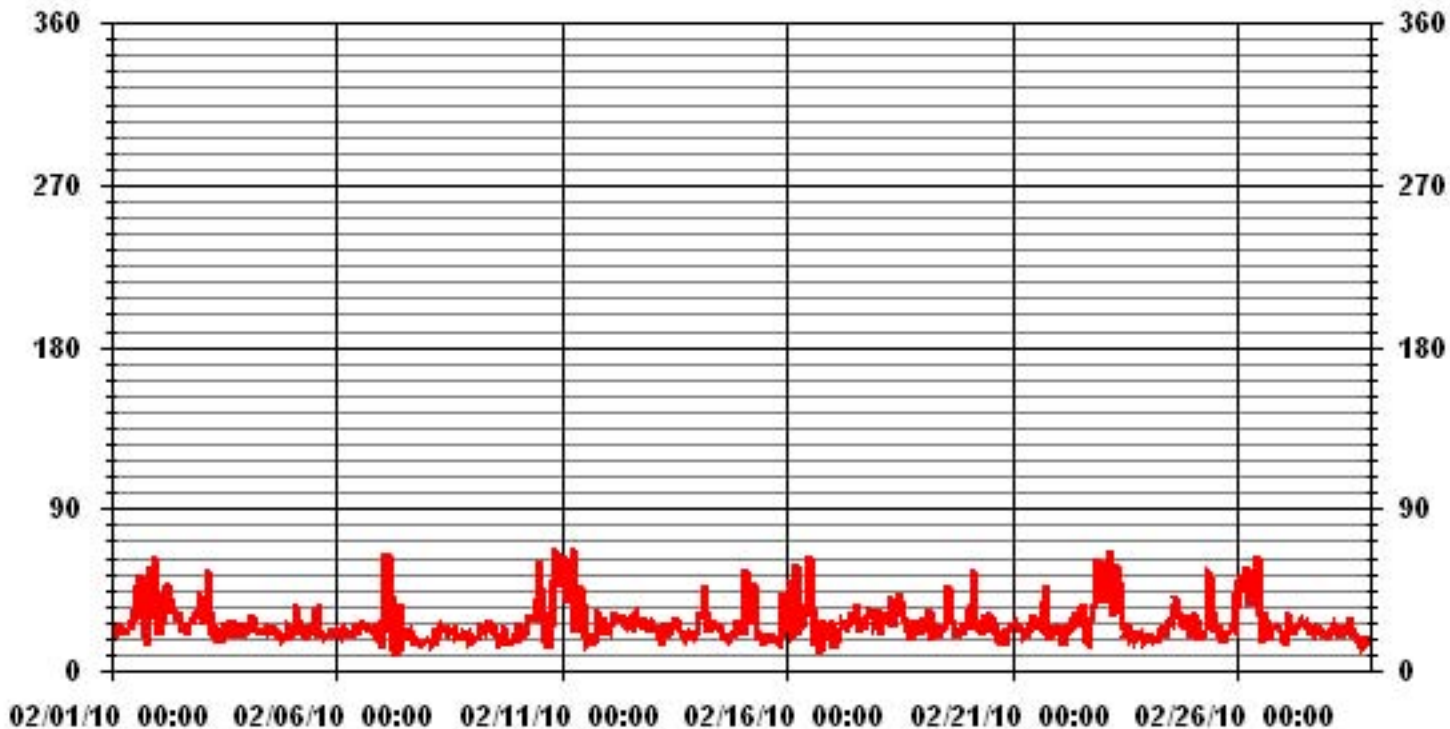
STATUS FLAG CODES

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: February 4, 2009

CALIBRATION TIME: 0 HRS OPERATIONAL TIME: 671 HRS

01 Hour Averages



— LICA30 STDWDIR DEG

Calibration Reports

Sulphur Dioxide

SO₂ Calibration Report

Station Information

Calibration Date	February 1, 2010	Previous Calibration	January 14, 2010
Company	Lakeland Industry & Community Association		
Plant / Location	Cold Lake - Maskwa		
Start Time (MST)	9:55	End Time (MST)	17:04
Reason:	Monthly Calibration		
Barometric Pressure	949 mBar	Station Temperature	24 Deg C
Cal Gas	52.2 ppm	Cal Gas Expiry date	12/19/2010
DAS Output Voltage	0 - 1 Volts	Chart Rec. Output	0 - 1 Volts

Equipment Information

Analyzer Make / Model:	API 100E	S/N :	508	Method:	Fluorescent
Converter Make / Model:	-	S/N :	-		
Calibrator Make / Model:	API 700	S/N :	831	Method:	Dilution
DAS Make / Model:	ESC 8832	S/N :	AO 791		
Flow Meter:	API 700	S/N :	831		

Analyzer Settings

Before Calibration		After Calibration	
Concentration Range	0 - 1000	ppb	
Sample Flow / Box Temp	609 ccm 33 Deg C	608 ccm 35.3 Deg C	
HVPS / Lamp Setting	494 3548	494 3549	
PMT / RxCell Temp	7.7 Deg C 50 Deg C	7.7 Deg C 50 Deg C	
Converter / IZS Temp	NA Deg C 45 Deg C	NA Deg C 45 Deg C	
Offset / Slope	34.2 0.954	32.2 0.963	

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
4996	0	0	-1	N/A
4924	76.6	800	790	1.0122
4996	0	0	0	N/A
4924	76.6	800	800	0.9995
4959	38.3	400	396	1.0103
4981	19.2	200	199	1.0072
4996	0	0	0	N/A
Sum of Least Squares				1.0019
New Correction Factor				0.9995

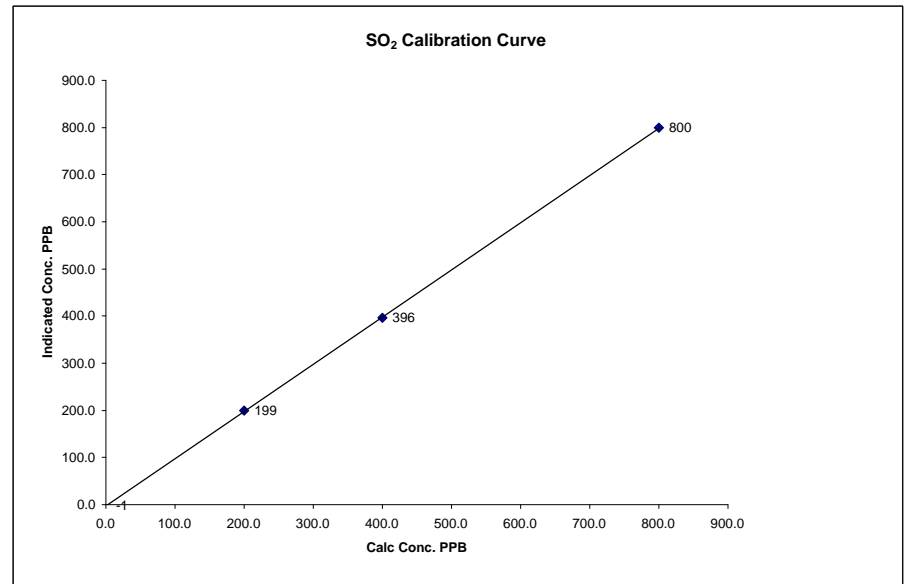
	Before Calibration	After Calibration
Auto Zero	-0.3	0.4
Auto Span	591.0	595.0
Sample Lines Connected		YES
Percent Change from Previous Calibration		-1.4%

Calibration Performed by: Shea Beaton

SO₂ Calibration Curve

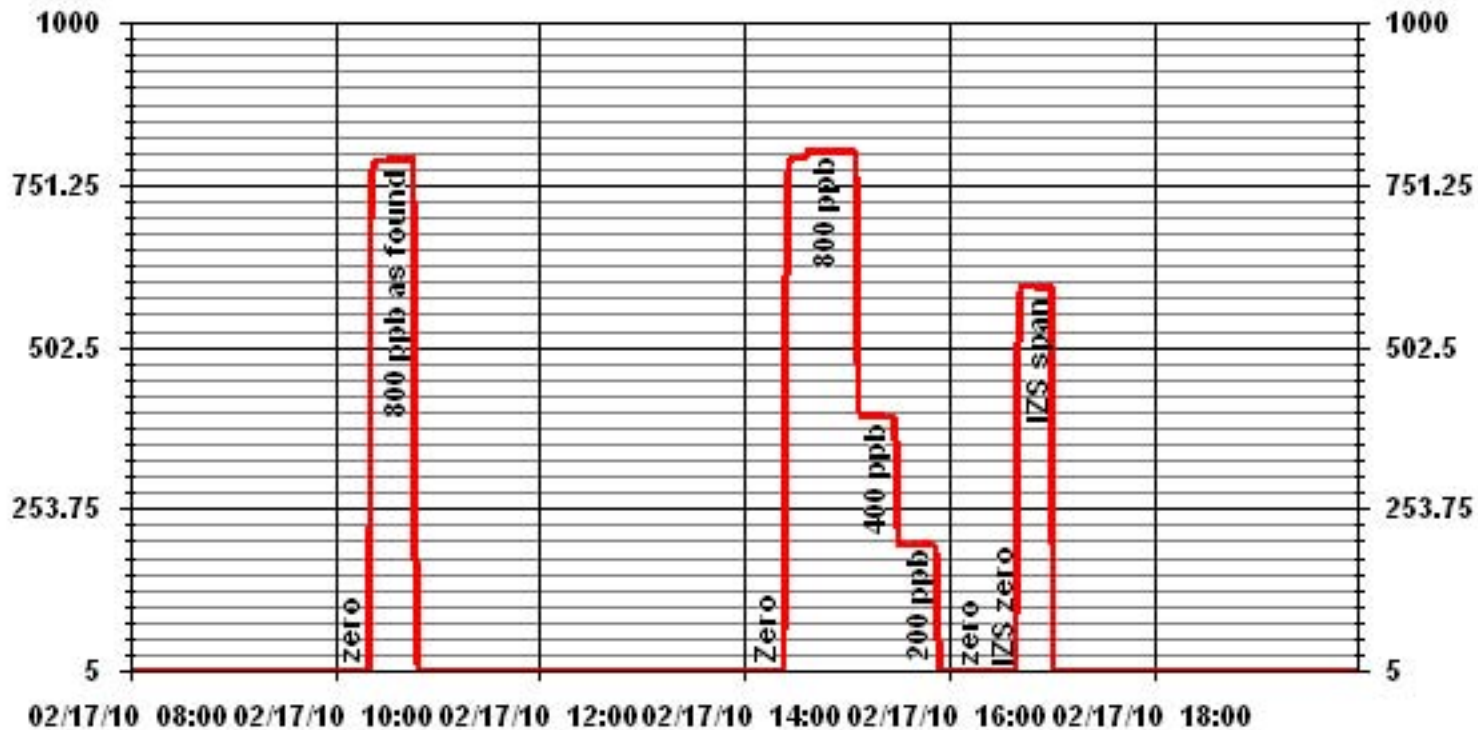
Calibration Date	February 1, 2010
Company	Lakeland Industry & Community Association
Plant / Location	Cold Lake - Maskwa
Start Time (MST)	9:55
End Time (MST)	17:04

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope	(≥ 0.995) (0.85 to 1.15)	
0	-1	n/a	Intercept	(± 3% F.S.)	0.999973
200	199	1.0072			1.001539
400	396	1.0103			-2.067884
800	800	0.9995			



Notes: Following the as found point (ended @ 10:50) the pump was rebuilt, the analyzer was allowed to stabilize, then a dilution cal was performed beginning at 13:36

01 Minute Averages



Hydrogen Sulphide

H₂S Calibration Report

Station Information

Calibration Date	February 17, 2010	Previous Calibration	January 14, 2010
Company	Lakelnad Industry & Community Association		
Plant / Location	Cold Lake - Maskwa		
Start Time (MST)	10:55	End Time (MST)	14:17
Reason:	Monthly Calibration		
Barometric Pressure	949 mBar	Station Temperature	24 Deg C
Cal Gas	10.8 ppm	Cal Gas Install date	06/22/2009
DAS Output Voltage	0 - 1 Volts		

Equipment Information

Analyzer Make / Model:	API 101E	S/N :	511	Method:	Fluorescent
Converter Make / Model:	Internal	S/N :	N/A		
Calibrator Make / Model:	API 700	S/N :	831	Method:	Dilution
DAS Make / Model:	ESC 8832	S/N :	AO 791		
Flow Meter:	API 700	S/N :	831		

Analyzer Settings

Before Calibration		After Calibration	
Concentration Range	0 - 100 ppb	0 - 100 ppb	
Sample Flow / Box Temp	536 ccm 33.9 Deg C	535 ccm 33.9 Deg C	
HVPS / Lamp Setting	552 2357	552 2356	
PMT / RxCell Temp	7.9 Deg C 50 Deg C	7.9 Deg C 50 Deg C	
Converter / IZS Temp	314.6 Deg C 45 Deg C	315.8 Deg C 45 Deg C	
Offset / Slope	25.8 1.051	27.3 1.061	

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
4996	0	0	1	N/A
4996	0	0	0	N/A
4959	37	80	80	0.9998
4980	18.5	40	41	0.9749
4986	11.6	25	25	1.0027
4996	0	0	0	N/A
Sum of Least Squares				0.9953
New Correction Factor				0.9998

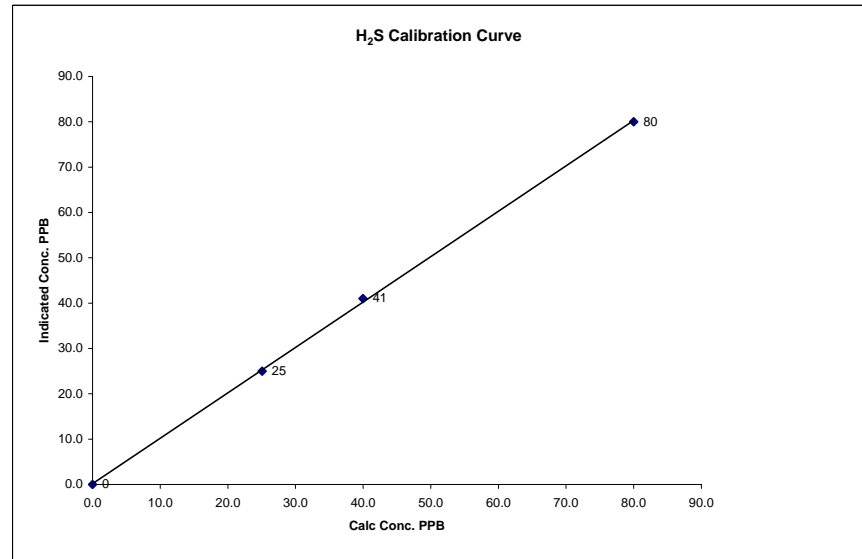
Before Calibration		After Calibration	
Auto Zero	0.4		-0.2
Auto Span	57.0		56.0
Sample Lines Connected			YES
Percent Change from Previous Calibration			0.0%

Calibration Performed by: Shea Beaton

H₂S Calibration Curve

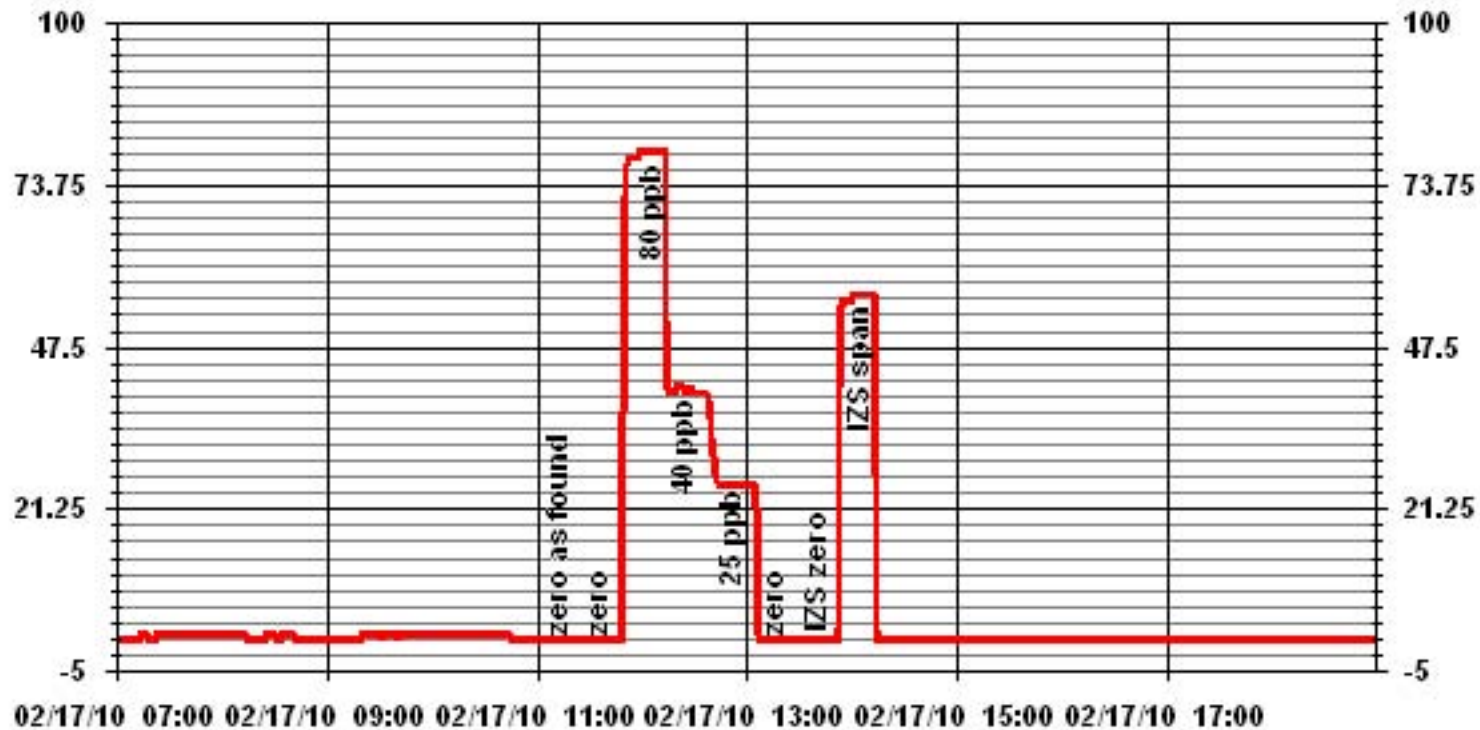
Calibration Date	February 17, 2010
Company	Lakelnad Industry & Community Association
Plant / Location	Cold Lake - Maskwa
Start Time (MST)	10:55
End Time (MST)	14:17

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope	(≥ 0.995) (0.85 to 1.15)	0.999759
0	0	n/a	Intercept	(± 3% F.S.)	0.187103
25	25	1.0027			
40	41	0.9749			
80	80	0.9998			



Notes:

01 Minute Averages



Total Hydrocarbons

THC Calibration Report

Station Information

Calibration Date:	February 17, 2010	Previous Calibration	January 14, 2010
Company:	Lakeland Industry & Community Association		
Plant / Location:	Cold Lake - Maskwa		
:	(MST) 16:20	End Time	(MST) 19:19
Reason:	Monthly Calibration		
Barometric Pressure:	948 mBar	Station Temperature:	27 Deg C
Calibrator:	API 700	S/N:	831
Cal Gas Concentration:	207 Prop/ 602 Meth	ppm	Cal Gas Expiry Date: August 21, 2011
DAS make & Model:	ESC 8832	S/N :	AO 791
Output Voltage Range:	0 - 10	VDC	

Analyzer Information

Make / Model	TECO 51C-LT	S/N :	436609738	Method	Flame Ionization
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Analyzer Settings

	Before Calibration		After Calibration	
Concentration Range	0 -50	ppm	0 - 50	ppm
Sample Pressure	7.5	psi	7.5	psi
Hydrogen Pressure	8	psi	8	psi
Air Pressure	20	psi	20	psi

Calibration Data

Dilution Flow	Source Gas Flow	Calculated Concentration	Indicated Concentration	Correction Factor
2000	0.0	0.0	0.0	N/A
2000	70.0	39.6	41.2	0.9613
2000	70.0	39.6	40.0	0.9902
2000	35.0	20.1	20.1	1.0022
2000	20.0	11.6	11.6	0.9997
2000	0	0.0	0.0	N/A
Correction Factor:				0.9902

Previous Calibration Correction Factor:	0.9936
Current Correction Factor Before Span Adjust:	0.9613
Percent Change:	3.35%

IZS Calibration Data

	Before Calibration	After Calibration
Auto Zero	0.0	0.0
Auto Span	34.5	33.5
Sample Lines Connected		YES

Cylinder Pressures

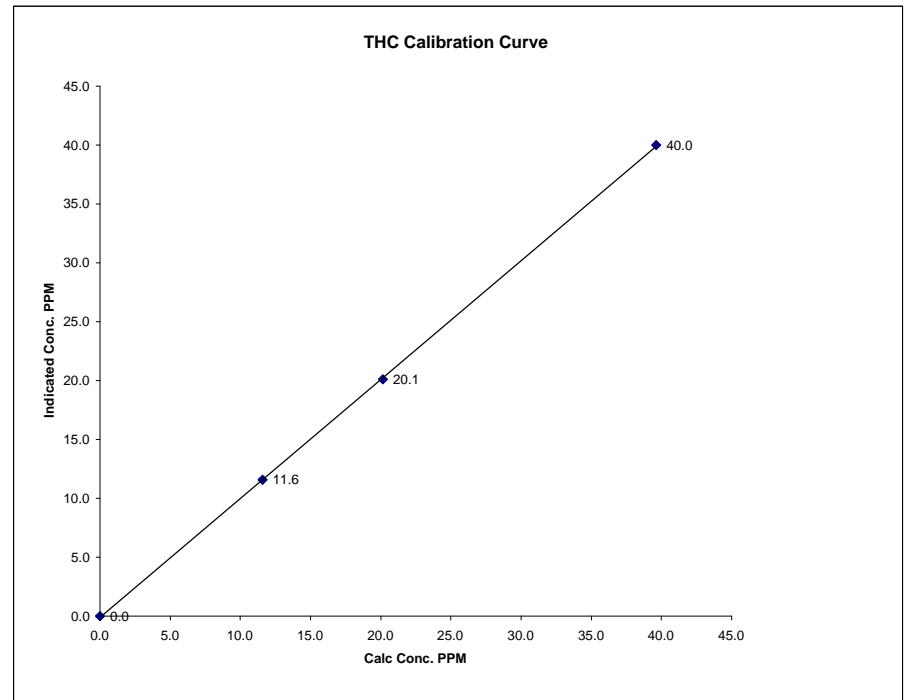
Span	1700	psi
Hydrogen	1950	psi
Zero Air	NA	psi

Calibration Performed by: Shea Beaton

THC Calibration Curve

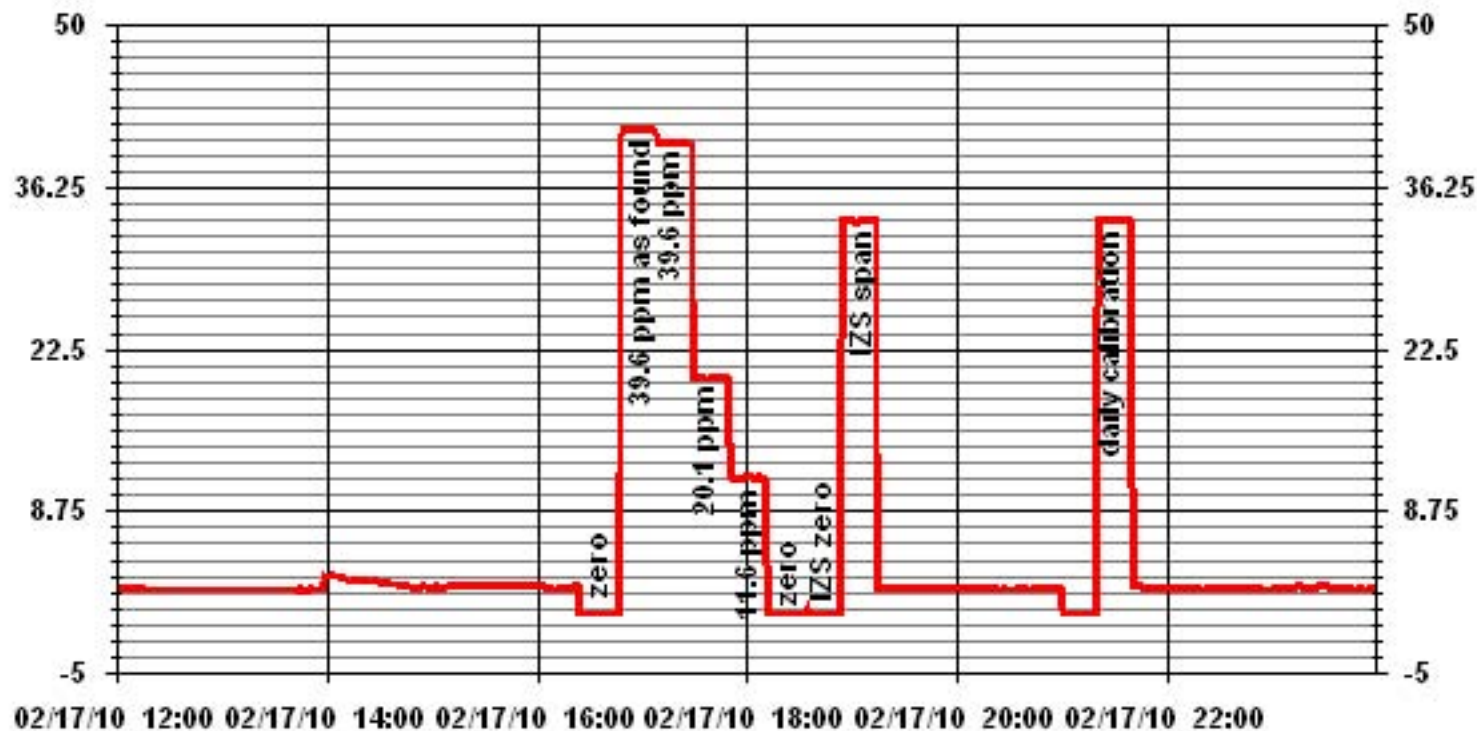
Calibration Date	February 17, 2010		
Company	Lakeland Industry & Community Association		
Plant / Location	Cold Lake - Maskwa		
Start Time (MST)	16:20	End Time (MST)	19:19

Calculated Conc. ppm	Indicated Response ppm	Correction Factor	Correlation Coefficient (≥ 0.995)	Slope (0.85 to 1.15)	Intercept (± 3% F.S.)
0.0	0.0		0.999953	1.010069	-0.091688
11.6	11.6	0.9997			
20.1	20.1	1.0022			
39.6	40.0	0.9902			



Notes:

01 Minute Averages



Nitrogen Dioxide

NOx - NO- NO₂ Calibration Report
Station Information

Calibration Date	February 17, 2010	Previous Calibration	January 14, 2010
Company	LICA	Plant/Location	Cold Lake - Maskwa
Start Time (MST)	9:55	End Time (MST)	16:28
Reason:	Monthly Calibration		
Barometric Pressure	949 mBar	Station Temperature	24.0 Deg C
Cal Gas Concentration	NOx 51.8 ppm	NO 51.6 ppm	Cal Gas Expiry date 12/19/2010
DAS Output Voltage	0 - 1 Volts	Chart Rec. Output	0 - 1 Volts

Equipment Information

Analyzer Make / Model:	API 200E	S/N :	594	Method:	Chemiluminescent
Calibrator Make / Model:	EnviroNics 2000	S/N:	1991		
DAS Make / Model:	ESC 8832	S/N :	AO 791		
Flow Meter:	EnviroNics 2000	S/N :	1991		

Analyzer Settings

Before Calibration				After Calibration			
Concentration Range	0 - 1000 ppb						
Sample Flow/Conv. Temp	463 ccm	314.2 Deg C		462 ccm	316.1 Deg C		
Ozone Flow / Vacuum HVPS	76 ccm	4.5 *Hg-A		76 ccm	4.5 *Hg-A		
	767 Volts			767 Volts			
Rx/ Temp / PMT Temp	50 Deg C	6.5 Deg C		50 Deg C	6.5 Deg C		
Box Temp / IZS Temp	32.6 Deg C	45.3 Deg C		35.5 Deg C	45.1 Deg C		
Offset	1.4 NOx	0.6 NO		1.4 NOx	0.6 NO		
Slope	1.068 NOx	1.063 NO		1.111 NOx	1.105 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
3008	0	N/A	0	0	0	0	0	N/A	N/A
2960	43.6	N/A	752	749	724	720	3	1.0386	1.0403
2960	43.6	N/A	752	749	753	748	5	0.9986	1.0014
2981	23.3	N/A	402	400	398	396	1	1.0094	1.0106
2995	11.6	N/A	200	199	199	196	2	1.0043	1.0157
3006	0	N/A	0	0	0	0	-1	N/A	N/A
Converter Efficiency									
2960	43.6	N/A	752	749	756	751	4	N/A	
2960	43.6	600	752	N/A	750	195	554	99%	
2960	43.6	300	752	N/A	756	470	285	100%	
2960	43.6	200	752	N/A	756	568	187	100%	
2960	43.6	N/A	753	750	761	756	3	N/A	
Correction Factor									
3006	0	N/A	0	0	-1	-1	-1	N/A	N/A
Linearity OK? Yes No									
Flows Checked on-site? Yes No									
Sum of Least Squares								1.0011	1.0040
New Correction Factor								0.9986	1.0014
Average Converter Efficiency								100%	

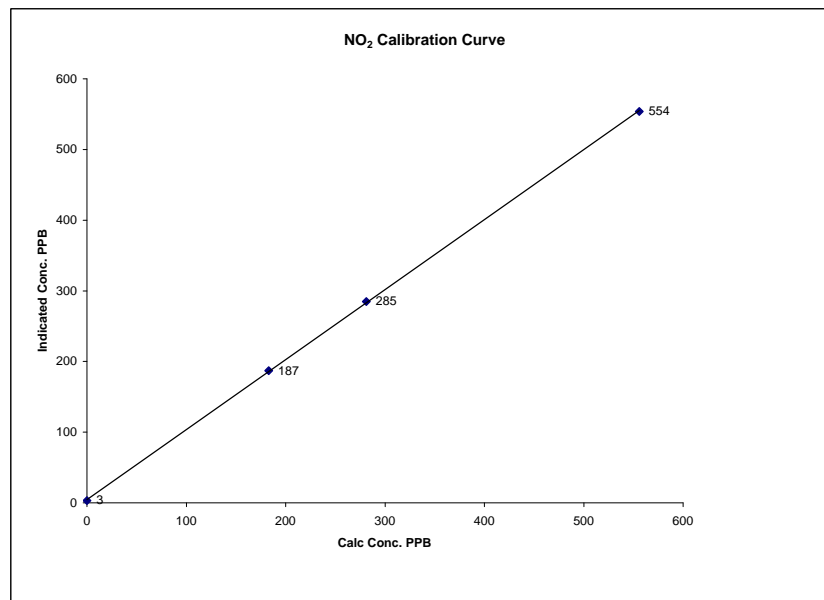
Before Calibration				After Calibration			
Auto Zero	0.1 NOx	0.0 NO2		-0.1 NOx	-0.9 NO2		
Auto Span	650 NOx	640 NO2		671 NOx	661 NO2		
Sample Lines Connected YES							
Percent Change from Previous Calibration				NOx -3.7%	NO -3.8%		

Calibration Performed by: Shea Beaton

NO₂ Calibration Curve

Calibration Date	February 17, 2010		
Company	LICA		
Plant / Location	Cold Lake - Maskwa		
Start Time (MST)	9:55	End Time (MST)	16:28

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope	(≥ 0.995) (0.85 to 1.15)	0.999938
0	3	N/A	Intercept	(± 3% F.S.)	4.699160
183	187	0.9786			
281	285	0.9860			
556	554	1.0036			

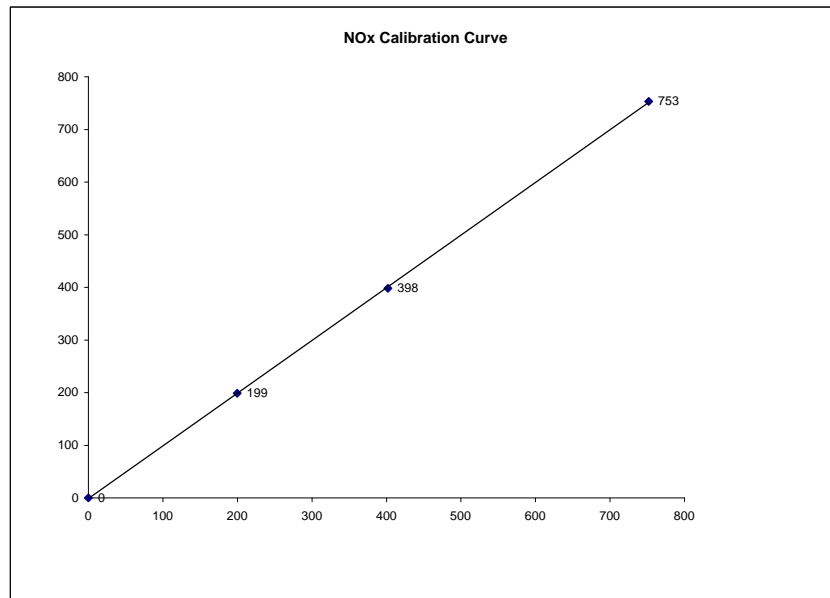


Notes: During initial span point, the cal gas pressure was temporarily lost, problem corrected.

NOx Calibration Curve

Calibration Date	February 17, 2010	
Company	LICA	
Plant / Location	Cold Lake - Maskwa	
Start Time (MST)	9:55	End Time (MST) 16:28

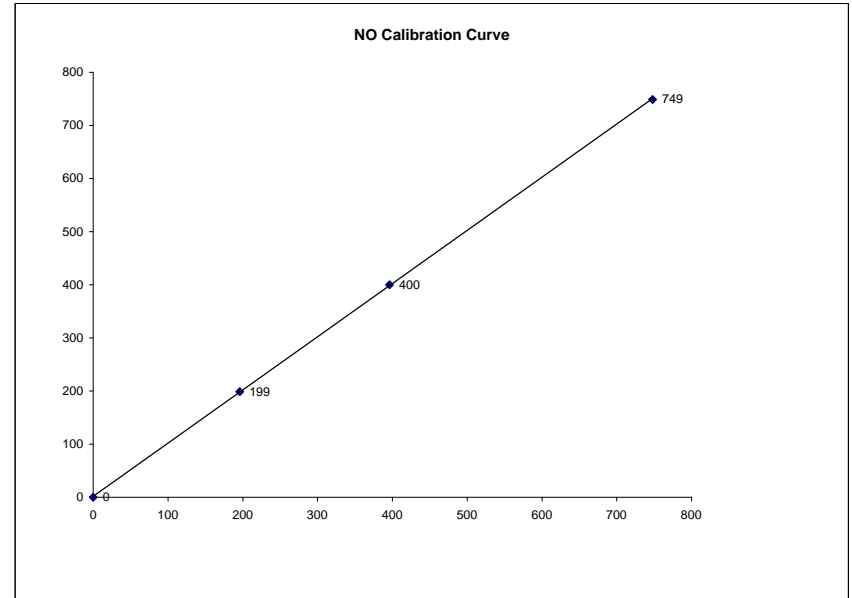
Calculated Conc. (ppb)	Indicated Response (ppb)	Correction Factor	Correlation Coefficient (Slope Intercept)	(≥ 0.995) (0.85 to 1.15) ($\pm 3\%$ F.S.)	0.999960 1.001057 -1.236498
0	0	N/A			
200	199	1.0043			
402	398	1.0094			
752	753	0.9986			



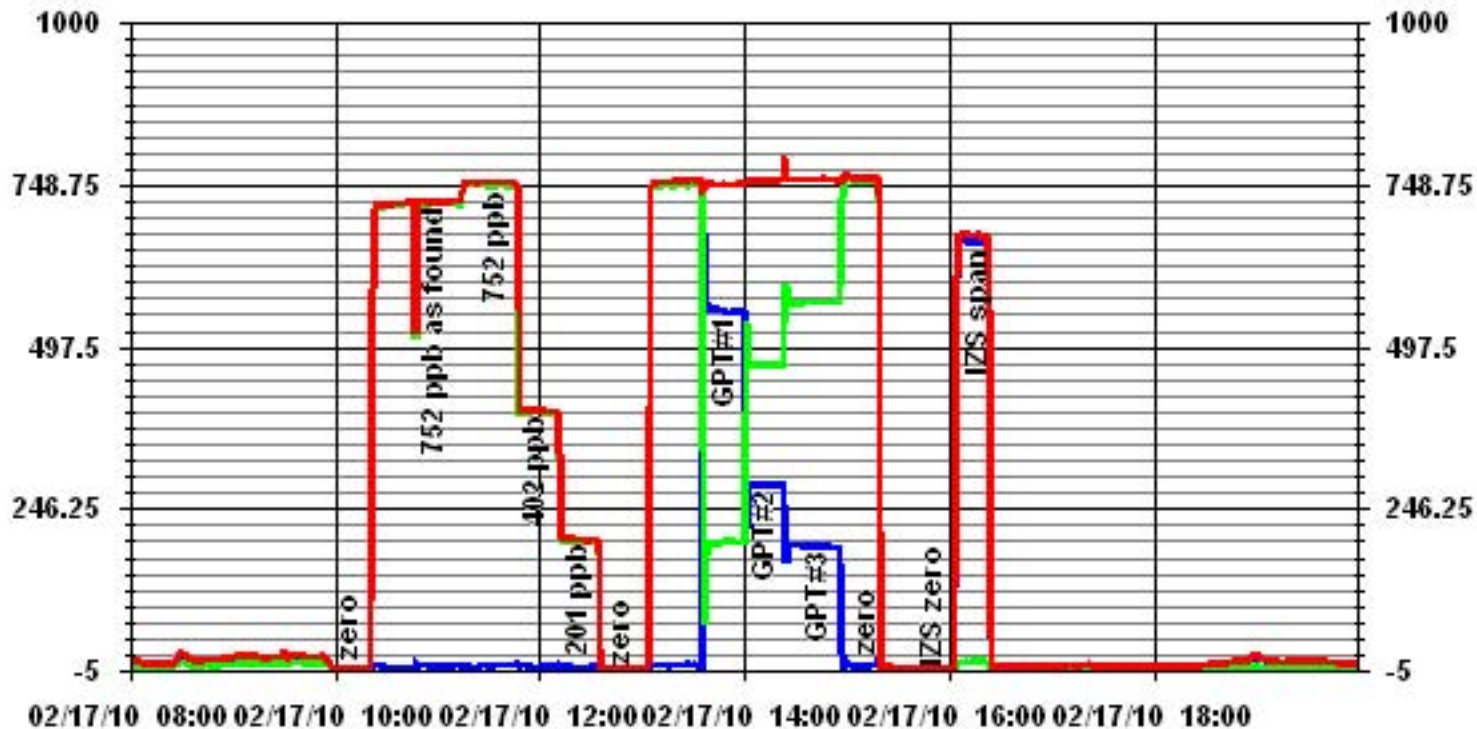
NO Calibration Curve

Calibration Date	February 17, 2010	
Company	LICA	
Plant / Location	Cold Lake - Maskwa	
Start Time (MST)	9:55	End Time (MST) 16:28

Calculated Conc. (ppb)	Indicated Response (ppb)	Correction Factor	Correlation Coefficient (Slope Intercept)	(≥ 0.995) (0.85 to 1.15) ($\pm 3\%$ F.S.)	0.999965 0.999153 -1.786756
0	0	N/A			
199	196	1.0157			
400	396	1.0106			
749	748	1.0014			



01 Minute Averages



Lakeland Industry & Community Association

St. Lina Monitoring Site
Ambient Air Monitoring
Data Report
For
February 2010

Prepared By:



March 16, 2010

Lakeland Industry & Community Association

St. Lina

Ambient Air Monitoring

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Introduction

The following Ambient Air Monitoring report was prepared for:

Mr. Mike Bisaga

Lakeland Industry & Community Association

Box 8237

5107W – 50 Street

Bonnyville, Alberta

T9N 2J5

Monitoring Location: St. Lina

Data Period: February 2010

The monthly ambient data report:

- Prepared by Lily Lin
- Reviewed by Craig Snider

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.

The calibrations conducted at the LICA – St. Lina Air Monitoring Stations conform to the following Maxxam Analytics Standard Operation Procedures:

- CAL SOP-00211
- CAL SOP-00209
- CAL SOP-00213
- CAL SOP-00214
- CAL SOP-00208

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. All calibration's and maintenance conforms to the procedures outlined in the *Air Monitoring Directive, Appendix A-10, Section 1.6*.

MONTHLY CONTINUOUS DATA SUMMARY

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION – ST. LINA

Continuous Ambient Monitoring – February 2010

LICA ST. LINA SITE						MAXIMUM VALUES							OPERATIONAL TIME (PERCENT)
						OBJECTIVES					1-HOUR		
PARAMETER	OBJECTIVES		EXCEEDENCES		MONTHLY AVERAGE	READING	DAY	HOUR	WIND SPEED (KPH)	WIND DIRECTION (DEGREES)	READING	DAY	
	1-HR	24-HR	1-HR	24-HR									
SO ₂ (PPB)	172	57	0	0	0.11	5	4	0	11.1	182(S)	0.8	13	99.7
H ₂ S (PPB)	10	3	0	0	0.00	0	ALL	ALL	VAR	VAR	0.0	ALL	99.7
THC (PPM)	-	-	-	-	2.34	4.3	3	19	4.7	86(E)	2.9	3	99.7
NO _x (PPB)	-	-	-	-	3.99	16	26	12	4.7	203(SSW)	10.3	26	99.7
NO (PPB)	-	-	-	-	0.30	7	10	10, 11	8.2, 6.8	231(SW), 225(SW)	1.7	10	99.7
NO ₂ (PPB)	212	106	0	0	3.48	14	26	19	10.4	131(SE)	9.3	26	99.7
VECTOR WS (KPH)	-	-	-	-	9.99	20.5	21	7	-	216(SW)	17.1	14	99.7
VECTOR WD (DEGREES)	-	-	-	-	162(SSE)	-	-	-	-	-	-	-	99.7

VAR-VARI

General Monthly Summary

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 – St. Lina

Sulphur Dioxide (PPB)

- Analyzer make / model - API 100E, S/N: 468

No operational issue was observed during this month. The inlet filter was changed before the monthly calibration was started. 2 hours of data are missing this month. Data was corrected using daily zero information.

Hydrogen Sulphide (PPB)

- Analyzer make / model - API 101E, S/N: 510

No operational issue was observed during this month. Upon arrival on February 25th, it was noticed that the analyzer had a fault displayed of “UV Lamp Warning”. The UV lamp voltage was 2329 and the lamp ratio was 105%; cleared the warning and it did not return. After that as found points and a lamp cal were performed on the analyzer. The box fan was replaced; works well. Allowed some time for the analyzer to stabilize then did a dilution calibration. The inlet filter was changed before the monthly calibration was started. 2 hours of data are missing this month. Data was corrected using daily zero information.

Total HydroCarbon (PPM)

- Analyzer make / model –TECO 51C, S/N: 77021-384

No operational issue was observed during this month. The analyzer did not span on February 1st. It was found that the valve on the cylinder for the THC span gas was not fully opened; opened valve, ran a daily cal- works well. The inlet filter was changed before the monthly calibration was started. 2 hours of data are missing this month. Data was corrected using daily zero information.

General Monthly Summary

AQM STATION – LICA – St. Lina

Nitrogen Dioxide (PPB)

- Analyzer make / model - API 200E, S/N: 592

No operational issue was observed during this month. The inlet filter was changed before the monthly calibration was started. 2 hours of data are missing this month. Data was corrected using daily zero information.

Vector Wind Speed (KPH) & Vector Wind Direction (DEG)

- System make / model – Met 50.5, S/N: H12635

The wind system is reported as vector wind speed and vector wind direction. 2 hours of data are missing this month.

Datalogger

- System make / model - ESC 8832, S/N: AO717
- Software make/version - ESC v 5.51a

The station is connected to a modem to allow for daily polling of the station.

Trailer

No issue was discovered this month.

Continuous Monitoring

Monthly Summaries, Graphs & Wind Roses

Sulphur Dioxide

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION -ST. LINA
FEBRUARY 2010
SULPHUR DIOXIDE (SO₂) hourly averages in ppb

MST

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 MAX.	24-HOUR AVG.	RDGS.	
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	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	0.0	24
2	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	0.0	24
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	2	2	0.1	24	
4	5	3	0	0	0	0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	5	0.3	24
5	0	0	0	0	0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	1	1	0.0	24	
6	1	1	0	0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24	
7	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	
8	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	
9	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	
10	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	
11	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	
12	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	
13	0	0	0	0	IZS	0	0	0	3	4	3	2	2	2	1	1	1	0	0	0	0	0	0	0	4	0.8	24	
14	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	
15	0	0	IZS	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	23	
16	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	
17	IZS	0	0	0	0	N	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	IZS	1	0.0	23	
18	0	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	
19	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	
20	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	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	IZS	0	1	0	0	1	0.2	24	
22	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	
23	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	IZS	0	0	0	0	0	0	0	1	0.1	24	
24	0	0	1	0	0	1	1	1	1	1	1	1	1	2	1	1	IZS	0	0	0	0	0	0	0	2	0.6	24	
25	0	0	0	0	0	0	0	0	0	C	C	C	C	C	0	IZS	0	0	0	0	0	0	0	0	0	0.0	24	
26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	IZS	1	0	0	0	0	0	0	0	0	1	0.1	24	
27	0	0	0	0	0	0	0	0	0	0	0	0	0	IZS	0	0	0	1	2	1	0	0	0	0	2	0.2	24	
28	1	0	0	1	1	1	1	1	1	1	1	1	IZS	0	0	0	0	0	0	0	0	0	0	0	1	0.4	24	
HOURLY MAX	5	3	1	1	1	1	1	1	3	4	3	2	2	2	1	1	1	1	2	1	0	1	0	2				
HOURLY AVG	0.3	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1				

STATUS FLAG CODES

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

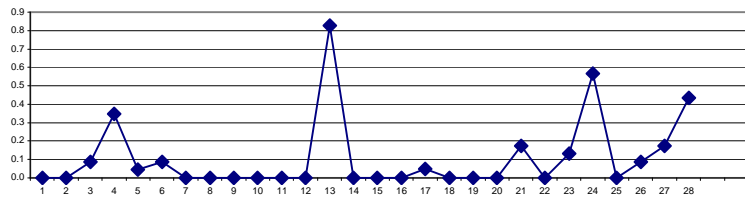
OBJECTIVE LIMIT:

ALBERTA ENVIRONMENT:	1-HR	172	PPB	24-HR	57	PPB
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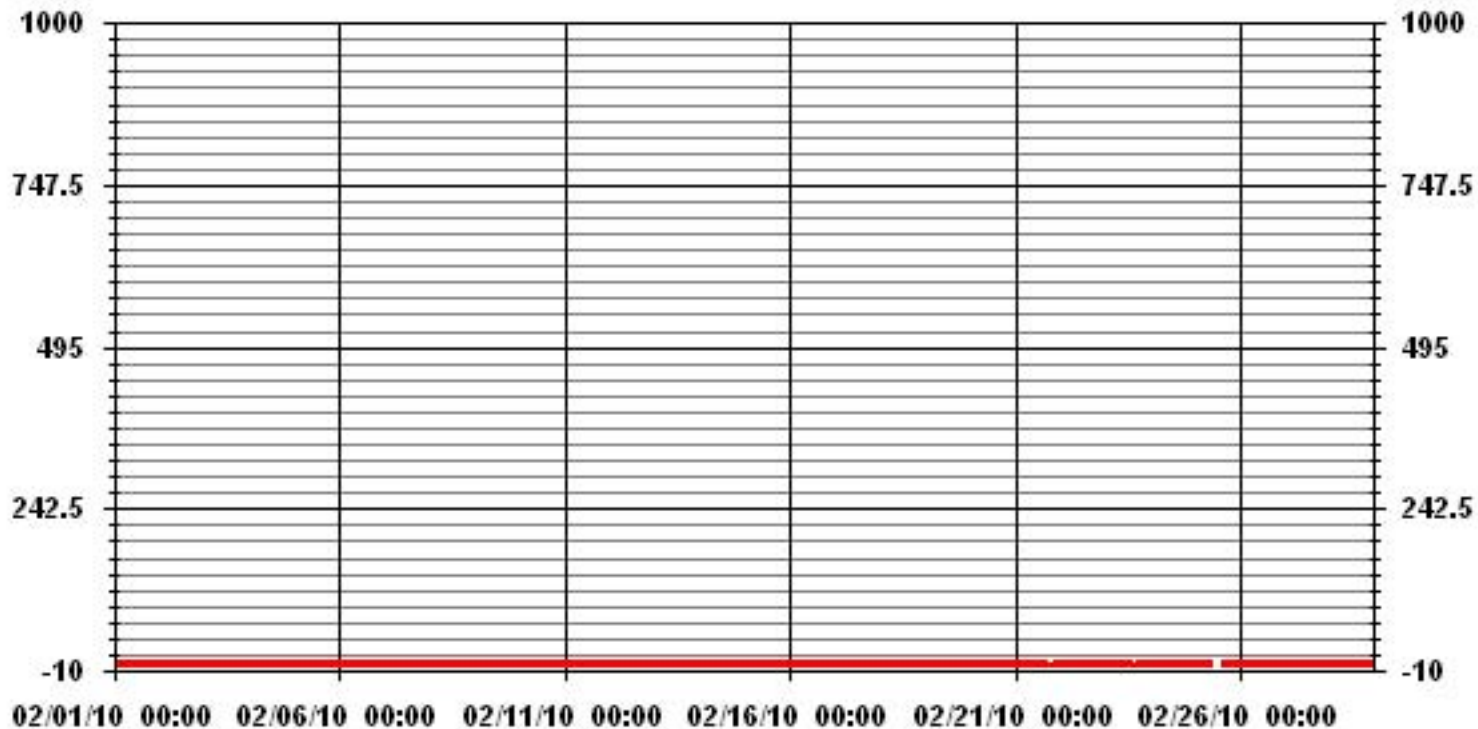
MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0
NUMBER OF 24-HR EXCEEDENCES:	0
NUMBER OF NON-ZERO READINGS:	50
MAXIMUM 1-HR AVERAGE:	5 PPB @ HOUR(S) 0 ON DAY(S) 4
MAXIMUM 24-HR AVERAGE:	0.8 PPB ON DAY(S) 13
IZS CALIBRATION TIME:	29 HRS
OPERATIONAL TIME:	670 HRS
MONTHLY CALIBRATION TIME:	5 HRS
AMD OPERATION UPTIME:	99.7 %
STANDARD DEVIATION:	0.44
MONTHLY AVERAGE:	0.11 PPB

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



— LICA31 SO2_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - ST. LINA

FEBRUARY 2010

SULPHUR DIOXIDE MAX instantaneous maximum in ppt

MST		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	23:00	DAILY	24-HOUR		
HOUR START	HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.		
DAY																														
1		0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	IZS	0	0	0	0	0	0	0	0	1	0.2	24	
2		0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	IZS	0	0	0	0	0	0	0	0	0	1	0.1	24	
3		0	0	0	0	0	0	0	0	0	0	1	1	1	1	IZS	0	0	1	0	0	0	0	1	1	4	4	0.5	24	
4		7	6	1	0	0	0	0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	7	0.6	24	
5		0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5	24	
6		2	2	1	1	0	0	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.3	24	
7		0	0	0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1	0.3	24	
8		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24	
9		0	0	0	0	0	0	0	0	0	IZS	0	0	0	1	0	1	2	1	0	0	0	0	0	0	0	2	0.2	24	
10		0	0	0	0	0	1	1	IZS	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	24	
11		0	0	0	0	0	0	IZS	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0.4	24	
12		1	0	0	0	0	0	IZS	1	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0.3	24	
13		0	0	0	0	IZS	0	0	1	6	6	4	3	3	3	3	2	2	1	0	0	0	0	0	0	0	6	1.5	24	
14		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	0.0	24	
15		0	0	IZS	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	23	
16		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	0.0	24	
17		IZS	0	1	0	0	N	0	0	0	0	0	1	2	2	2	1	0	0	0	0	0	0	0	0	0	IZS	2	0.4	23
18		0	0	0	0	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	
19		0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	IZS	0	0.1	24
20		0	0	0	0	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	
21		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	1	IZS	1	2	1	0	2	0.5	24		
22		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	0.0	24	
23		0	0	0	0	0	0	0	0	1	1	1	2	2	1	1	4	4	IZS	0	0	0	0	0	0	1	4	0.8	24	
24		1	1	2	1	1	2	2	2	2	2	2	2	2	2	2	2	IZS	1	1	1	1	1	1	1	0	2	1.5	24	
25		0	0	0	0	0	0	1	0	0	C	C	C	C	C	1	IZS	1	0	0	1	1	0	1	1	1	0.4	24		
26		1	1	1	1	1	1	1	1	1	1	1	2	2	2	IZS	3	1	0	1	1	1	1	1	1	1	3	1.2	24	
27		0	1	0	0	0	0	0	0	0	0	0	0	0	0	IZS	0	0	0	2	3	2	1	1	1	1	3	0.5	24	
28		2	1	1	2	2	2	2	1	2	2	2	2	IZS	1	1	1	1	0	0	0	0	0	0	0	0	2	1.1	24	
HOURLY MAX		7	6	2	2	2	2	2	6	6	4	3	3	3	3	4	4	2	3	2	1	2	1	4						
HOURLY AVG		0.5	0.4	0.3	0.2	0.1	0.2	0.3	0.2	0.6	0.6	0.5	0.6	0.7	0.6	0.6	0.8	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.4					

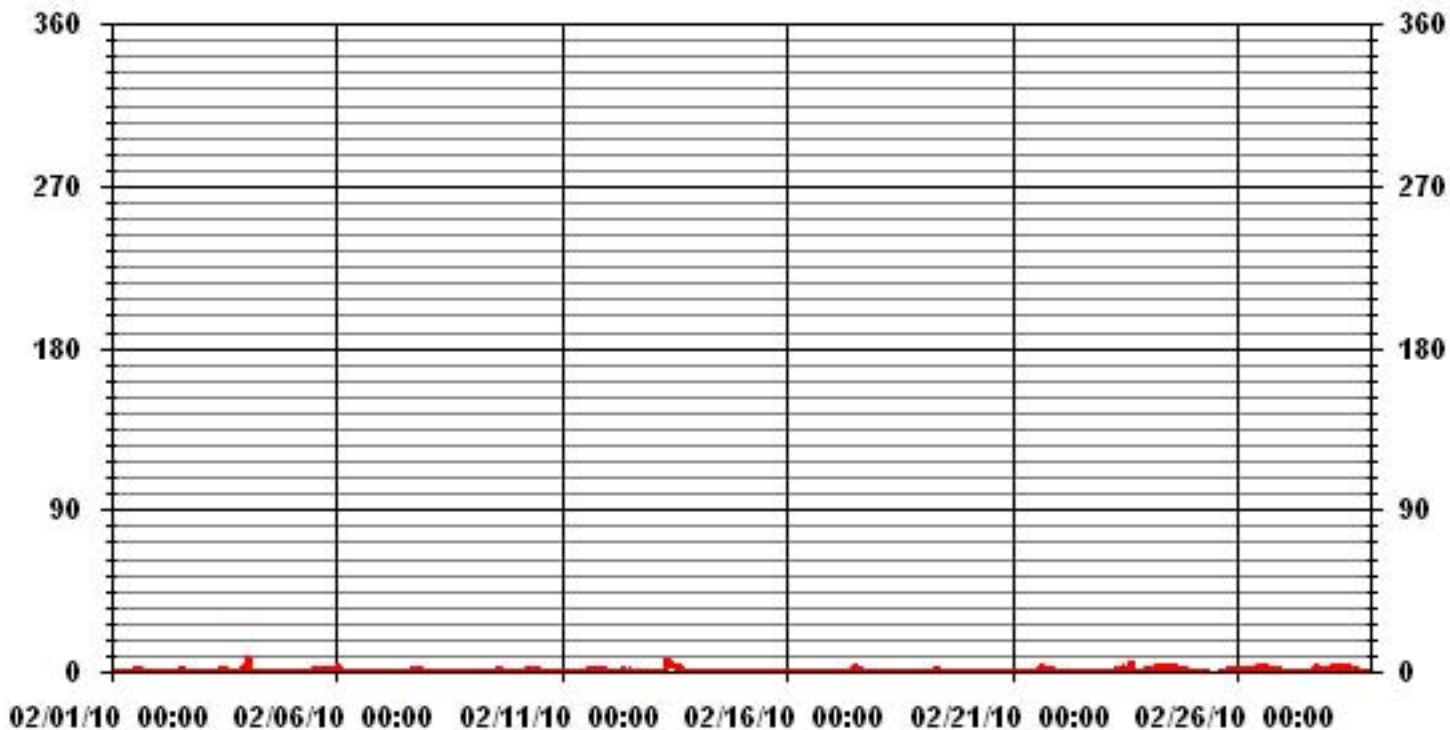
STATUS FLAG CODES

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:	180					
MAXIMUM INSTANTANEOUS VALUE:	7	PPB	@ HOUR(S)	0	ON DAY(S)	4
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	5	HRS				
STANDARD DEVIATION:	0.84					

01 Hour Averages



LICA31
 SO2_ / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 31
 Site Name : LICA31
 Parameter : SO2_
 Units : PPB

Wind Parameter : WDR
 Instrument Height : 10 Meters

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 20	2.83	.78	1.41	1.72	7.70	10.06	11.94	13.83	8.80	12.57	7.86	2.98	4.87	3.30	5.50	3.77	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	2.83	.78	1.41	1.72	7.70	10.06	11.94	13.83	8.80	12.57	7.86	2.98	4.87	3.30	5.50	3.77	

Calm : .00 %

Total # Operational Hours : 636

Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 20	18	5	9	11	49	64	76	88	56	80	50	19	31	21	35	24	636
< 60																	
< 110																	
< 170																	
< 340																	
>= 340																	
Totals	18	5	9	11	49	64	76	88	56	80	50	19	31	21	35	24	

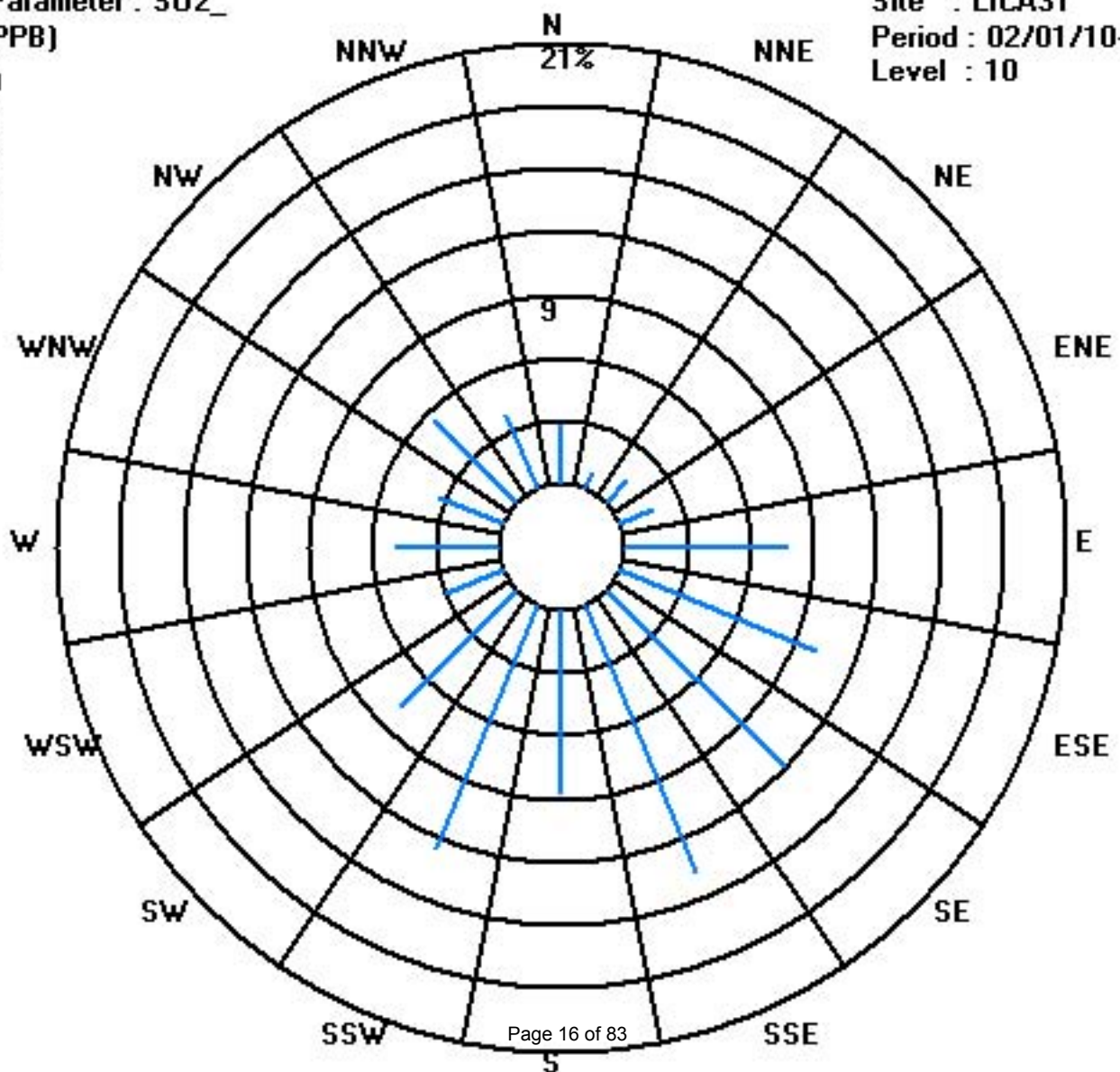
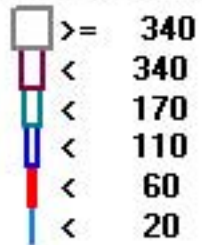
Calm : .00 %

Total # Operational Hours : 636

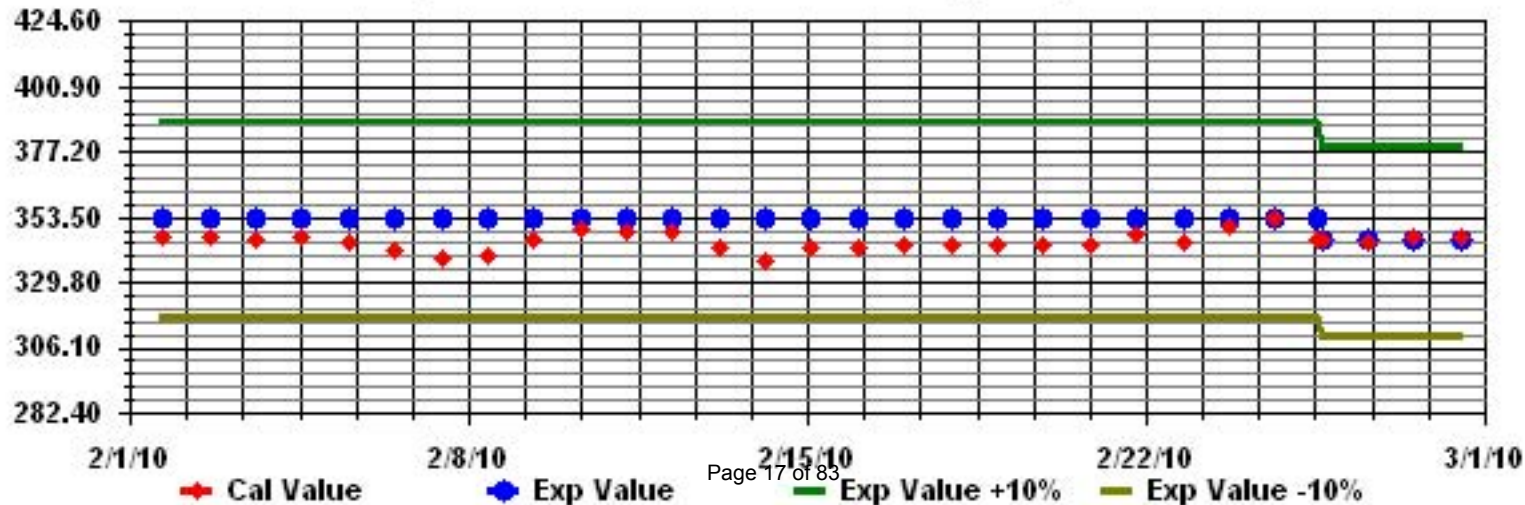
Class Limits (PPB)

Period : 02/01/10-02/28/10

Level : 10



Calibration Graph for Site: LICA31 Parameter: S02_ Sequence: S02 Phase: SPAll



Hydrogen Sulphide

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - ST. LINA

FEBRUARY 2010

HYDROGEN SULPHIDE (H₂S) hourly averages in ppb

MST		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	24:00	DAILY 24-HOUR	RDGS.
HOUR START	HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	
DAY	1	0	0	0	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
2	0	0	0	0	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
3	0	0	0	0	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
4	0	0	0	0	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
5	0	0	0	0	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
6	0	0	0	0	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	0	0	0	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	0	0	0	0	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
9	0	0	0	0	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
10	0	0	0	0	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
11	0	0	0	0	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
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
14	0	0	0	0	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
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	23
16	0	0	0	0	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
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	23
18	0	0	0	0	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
19	0	0	0	0	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
20	0	0	0	0	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
21	0	0	0	0	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
22	0	0	0	0	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
23	0	0	0	0	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
24	0	0	0	0	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
25	0	0	0	0	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
26	0	0	0	0	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
27	0	0	0	0	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
28	0	0	0	0	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
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	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	0.0		

STATUS FLAG CODES

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

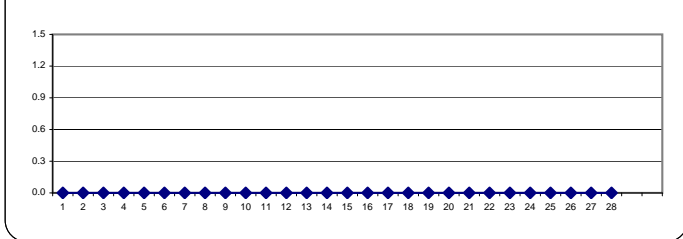
OBJECTIVE LIMIT:

ALBERTA ENVIRONMENT: 1-HR 10 PPB 24-HR 3 PPB

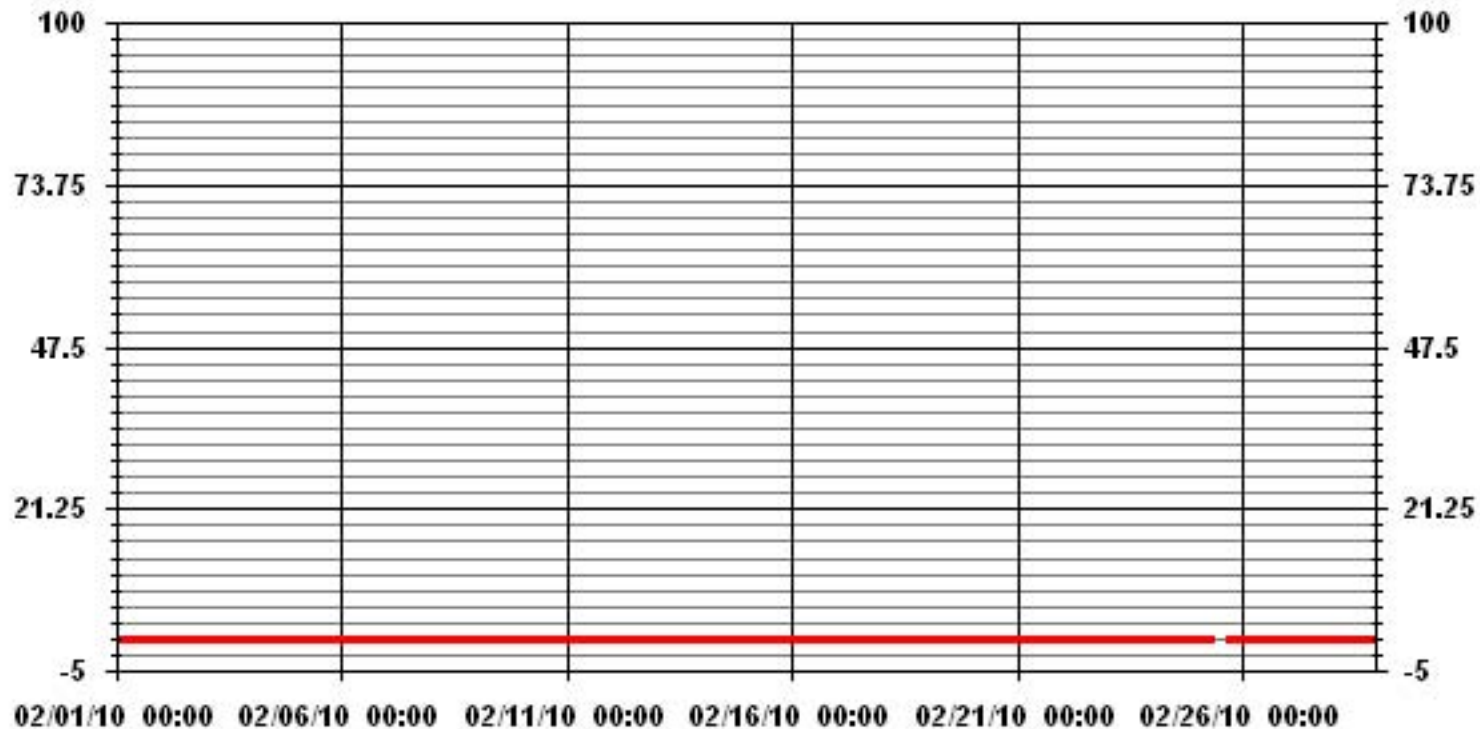
MONTHLY SUMMARY

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:	28 HRS
MONTHLY CALIBRATION TIME:	8 HRS
OPERATIONAL TIME:	670 HRS
AMD OPERATION UPTIME:	99.7 %
STANDARD DEVIATION:	0.00
MONTHLY AVERAGE:	0.00 PPB

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



— LICA31 H2S_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - ST. LINA

FEBRUARY 2010

HYDROGEN SULPHIDE MAX instantaneous maximum in ppb

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

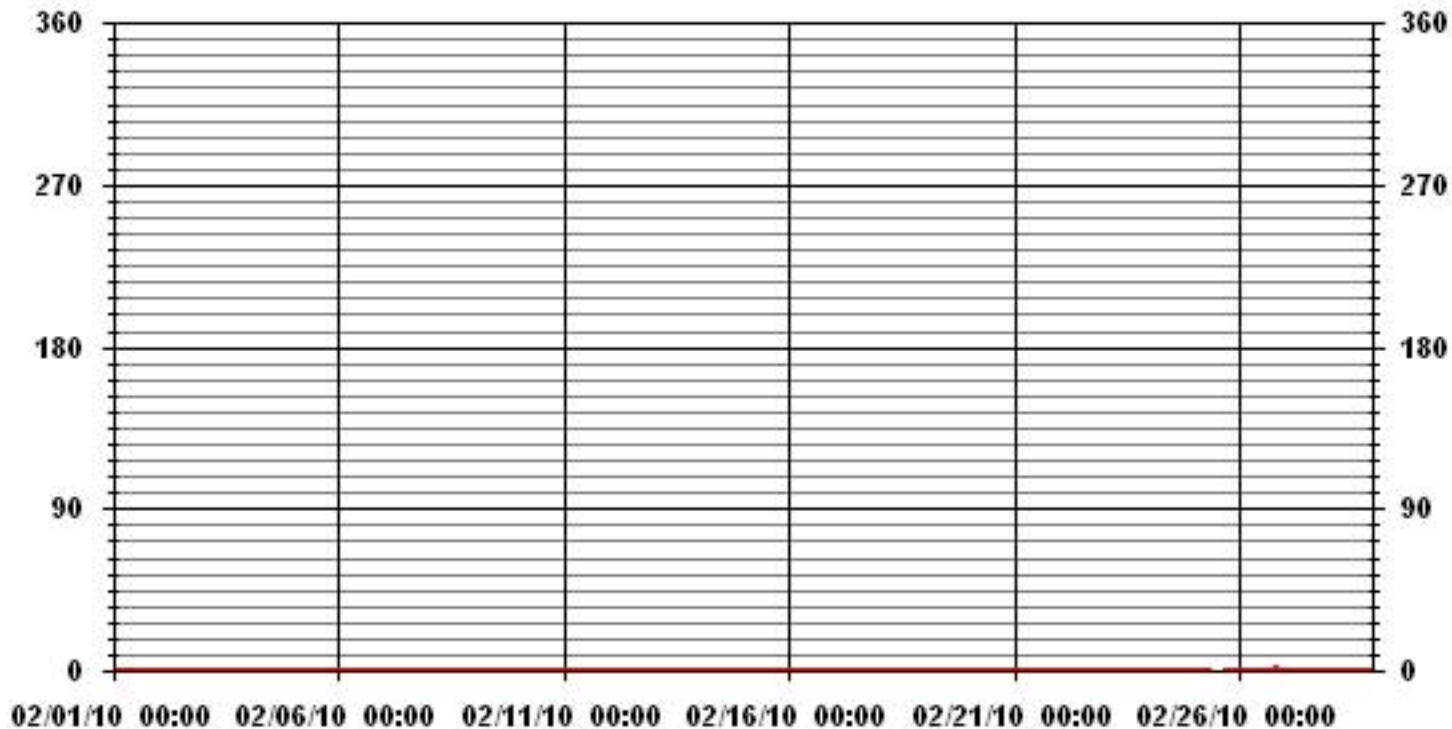
STATUS FLAG CODES

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

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	3					
MAXIMUM INSTANTANEOUS VALUE:	1	PPB	@ HOUR(S)	VAR	ON DAY(S)	26, 28
IZS CALIBRATION TIME:	28	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	8	HRS				
STANDARD DEVIATION:	0.07					

01 Hour Averages



— LICA31 H2S MAX PPB

LICA31
H2S_ / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 31
Site Name : LICA31
Parameter : H2S_
Units : PPB

Wind Parameter : WDR
Instrument Height : 10 Meters

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3	2.83	.78	1.41	1.73	7.72	10.09	11.98	13.88	8.51	12.61	7.88	2.99	4.88	3.31	5.52	3.78	100.00
< 10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 50	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 50	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.83	.78	1.41	1.73	7.72	10.09	11.98	13.88	8.51	12.61	7.88	2.99	4.88	3.31	5.52	3.78	

Calm : .00 %

Total # Operational Hours : 634

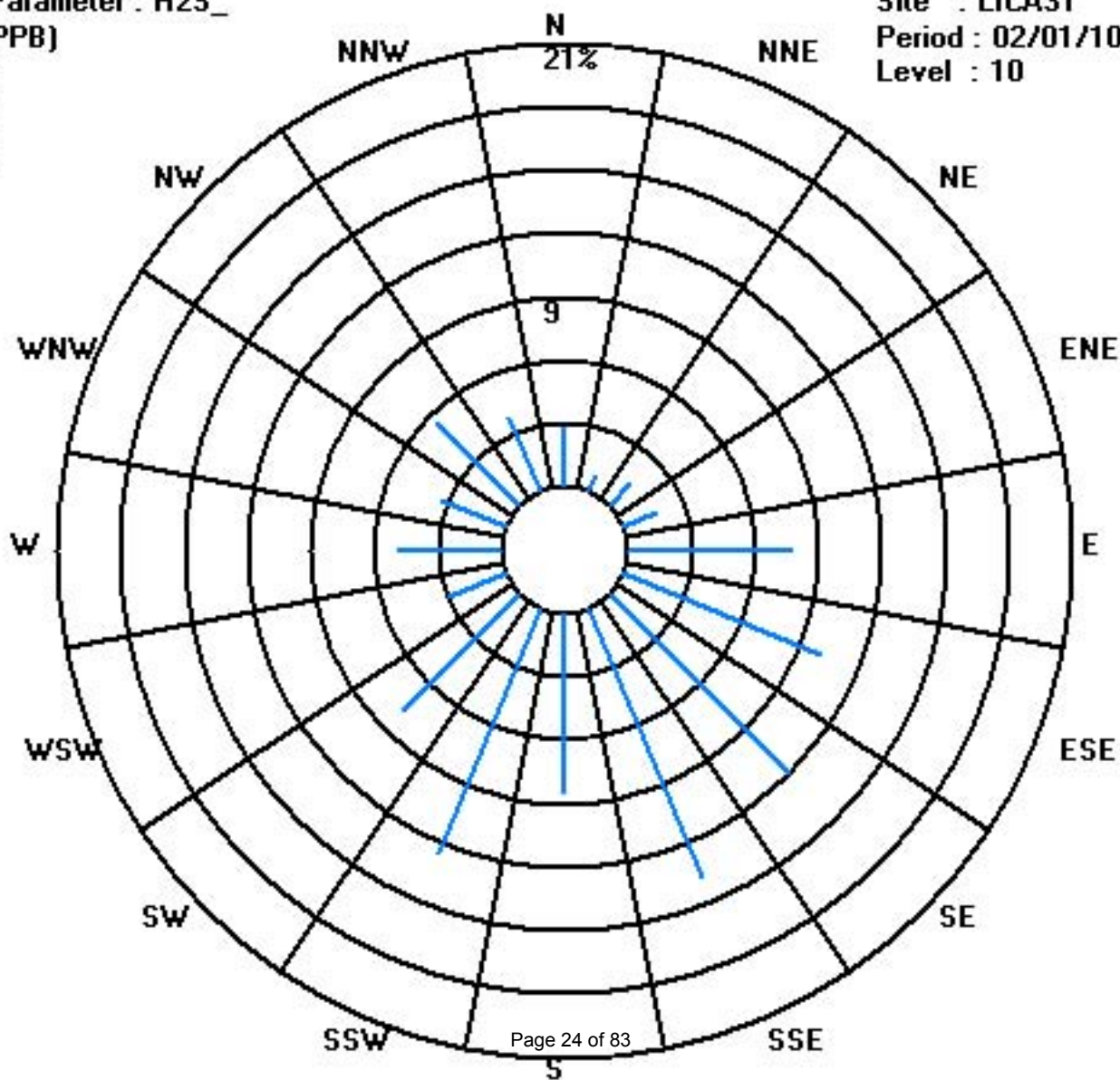
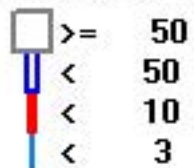
Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3	18	5	9	11	49	64	76	88	54	80	50	19	31	21	35	24	634
< 10																	
< 50																	
>= 50																	
Totals	18	5	9	11	49	64	76	88	54	80	50	19	31	21	35	24	

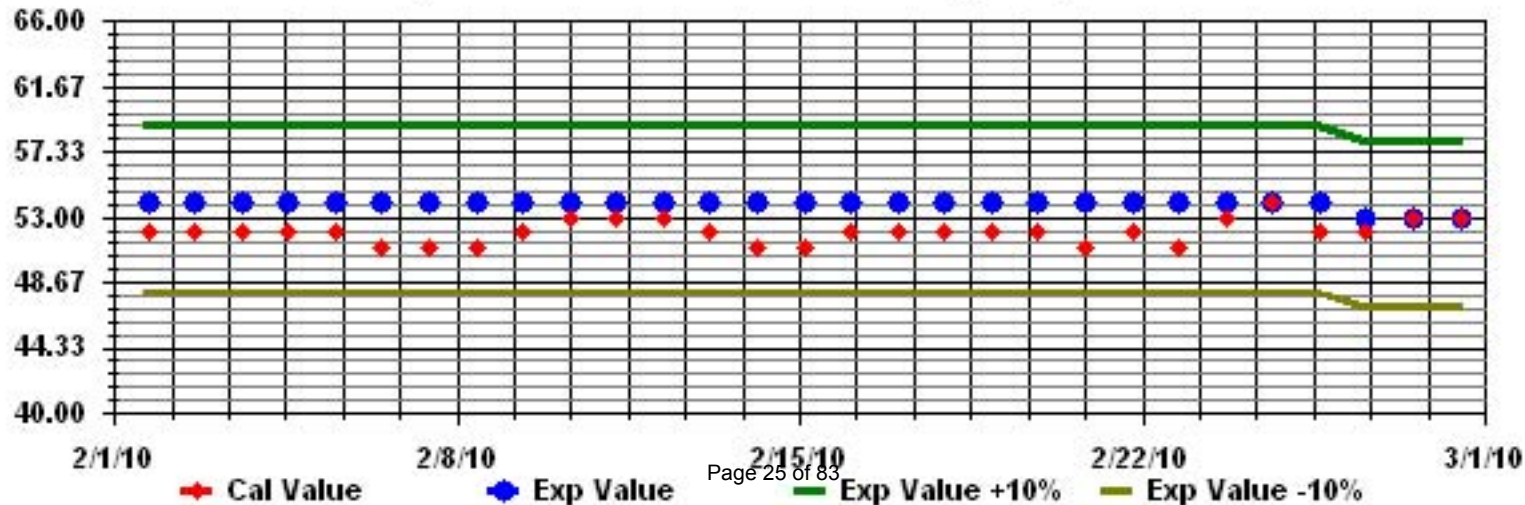
Calm : .00 %

Total # Operational Hours : 634

Class Limits (PPB)

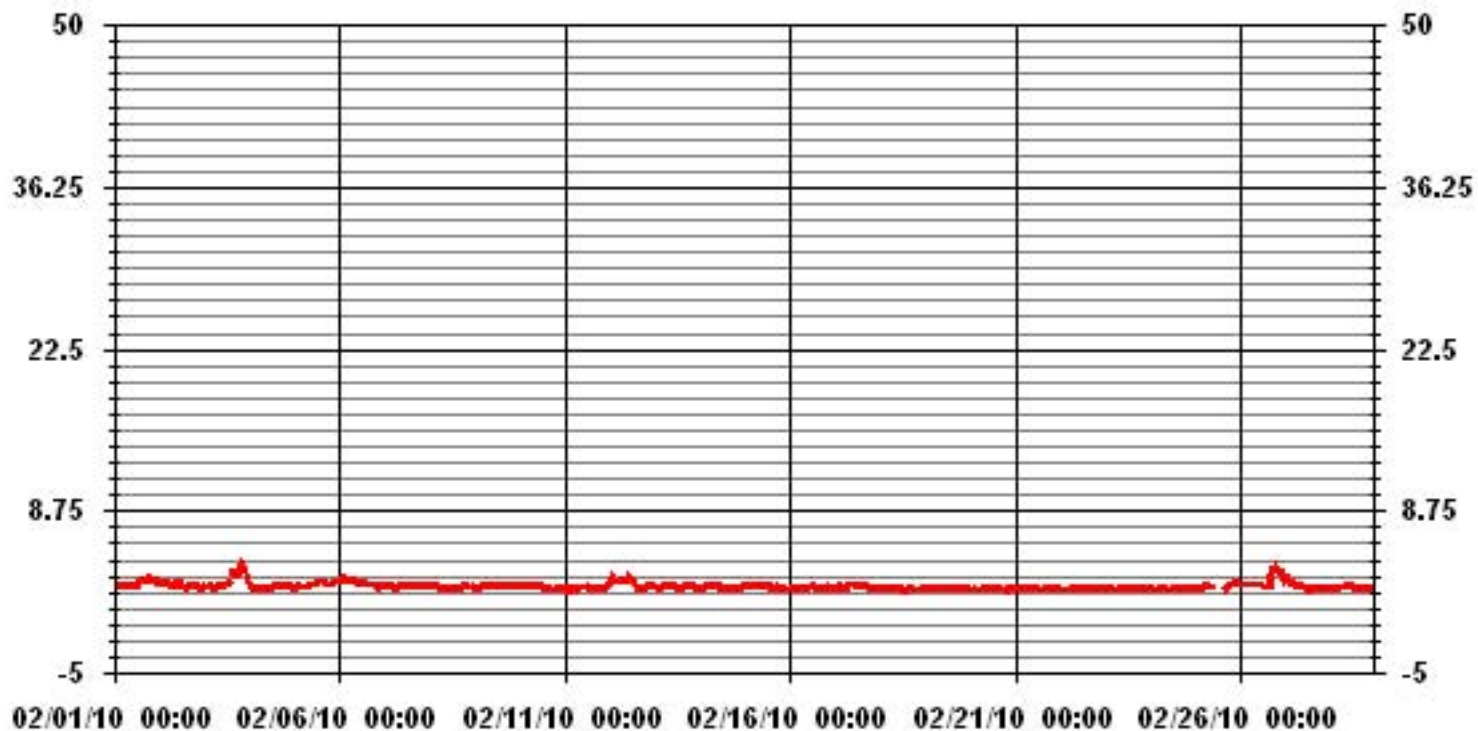


Calibration Graph for Site: LICA31 Parameter: H2S_ Sequence: H2S Phase: SPAll



Total Hydrocarbons

01 Hour Averages



— LICA31 THC PPM

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - ST. LINA

FEBRUARY 2010

TOTAL HYDROCARBONS MAX instantaneous maximum in ppr

MST		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		
HOURLY MAX	HOURLY AVG.	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		2.4	2.4	2.4	2.3	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.8	3	3	3.3	3.9	IZS	4.2	5.5	4.3	3.8	4	2.8	3	5.5	3.1	24	
2		2.8	2.8	2.9	2.9	3.3	2.7	2.7	C	3.2	2.7	3.5	C	C	2.4	2.4	IZS	2.4	2.4	2.4	2.3	2.4	2.3	2.3	2.5	3.5	2.7	24	
3		2.9	2.6	2.4	2.4	2.6	2.3	2.4	2.4	2.8	2.4	2.4	2.5	3.4	3.8	IZS	5	4.9	4.1	6	5.5	5.7	4	3.8	3.5	6	3.5	24	
4		2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	IZS	2.3	2.3	2.3	2.3	2.4	2.4	2.5	2.4	2.3	2.3	2.3	2.5	2.3	24
5		2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.6	2.6	2.9	IZS	2.8	2.8	2.8	2.9	2.7	2.6	2.6	2.7	2.8	2.7	3.2	3.2	2.6	24	
6		3.9	3.8	3.8	3.5	3.6	3.4	3.8	3.5	3.5	3.7	3.5	IZS	2.7	2.8	2.6	2.5	2.5	2.6	2.6	2.6	2.4	2.4	2.6	2.6	3.9	3.1	24	
7		2.6	2.5	2.5	2.4	2.3	2.3	2.3	2.5	2.5	2.6	IZS	2.5	2.6	2.5	2.4	2.4	2.5	2.5	2.5	2.4	2.4	2.4	2.3	2.3	2.6	2.4	24	
8		2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	IZS	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.3	2.4	2.3	24	
9		2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	IZS	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.4	2.5	2.3	24	
10		2.5	2.5	2.4	2.4	2.4	2.4	2.5	IZS	2.5	2.5	2.5	2.5	2.5	2.4	2.2	2.2	2.3	2.3	2.2	2.2	2.1	2.3	2.3	2.2	2.5	2.4	24	
11		2.1	2.2	2.1	2.1	2.1	2.3	IZS	2.1	2.4	2.4	2.4	2.4	2.3	2.3	2.2	2.2	2.3	2.2	2.3	2.3	2.3	3.6	2.8	3.6	2.3	24		
12		3.1	3.3	3.1	3.1	3	IZS	3.4	3.4	3.2	3.4	3.4	3.4	3.3	3.1	2.5	2.5	2.5	2.4	2.2	2.4	2.4	2.4	2.3	2.4	3.4	2.9	24	
13		2.4	2.3	2.2	2.3	IZS	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.4	2.3	24	
14		2.3	2.3	2.3	IZS	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	24	
15		2.3	2.3	IZS	2.4	2.5	N	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.5	2.3	23	
16		2.2	IZS	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.4	3.1	2.4	2.3	2.3	2.3	2.3	2.2	2.2	2.3	2.4	2.4	2.4	2.4	3.1	2.3	24	
17		IZS	2.5	2.6	2.6	2.5	N	2.4	2.6	2.7	2.6	2.6	2.6	2.5	2.4	2.3	2.4	2.3	2.4	2.3	2.2	2.3	2.2	2.3	IZS	2.7	2.4	23	
18		2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	IZS	2.1	2.2	24	
19		2.3	2.3	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	3.1	IZS	2.7	2.6	24		
20		2.3	2.3	3.1	3.1	2.2	3.2	3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.3	IZS	2.2	2.2	2.1	3.2	2.3	24	
21		2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.5	2.2	IZS	2.2	2.2	2.1	2.1	2.5	2.1	24	
22		2.1	2.1	2.1	2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.5	IZS	2.3	2.2	2.1	2.2	2.5	2.1	24	
23		2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	IZS	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.2	24
24		2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.3	IZS	2.1	2.1	2.2	2.3	2.2	2.4	2.3	2.4	2.2	24	
25		2.2	2.2	2.4	2.3	2.8	2.7	2.5	2.8	2.4	2.4	C	C	C	C	2.1	IZS	2.1	2.3	2.5	2.6	2.7	2.7	2.6	2.6	2.8	2.5	24	
26		2.6	2.6	2.6	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.6	2.4	IZS	2.9	4.3	5.3	4.6	4.2	4.1	3.6	4.3	3.2	5.3	3.1	24	
27		3.7	4.1	3.8	3.2	2.7	3.3	3.2	2.7	2.7	2.6	2.5	2.2	2.2	IZS	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.1	2.6	24	
28		2.2	2.2	2.2	2.2	2.3	2.8	4	3	2.4	2.7	2.3	2.3	IZS	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.2	4	2.4	24	
HOURLY MAX		4	4	4	4	4	3	4	4	4	4	4	4	3	3	4	3	5	5	5	6	6	6	4	4	4			
HOURLY AVG		2.5	2.5	2.5	2.4	2.4	2.5	2.5	2.4	2.5	2.5	2.5	2.4	2.4	2.4	2.3	2.5	2.5	2.6	2.6	2.6	2.6	2.5	2.5	2.5				

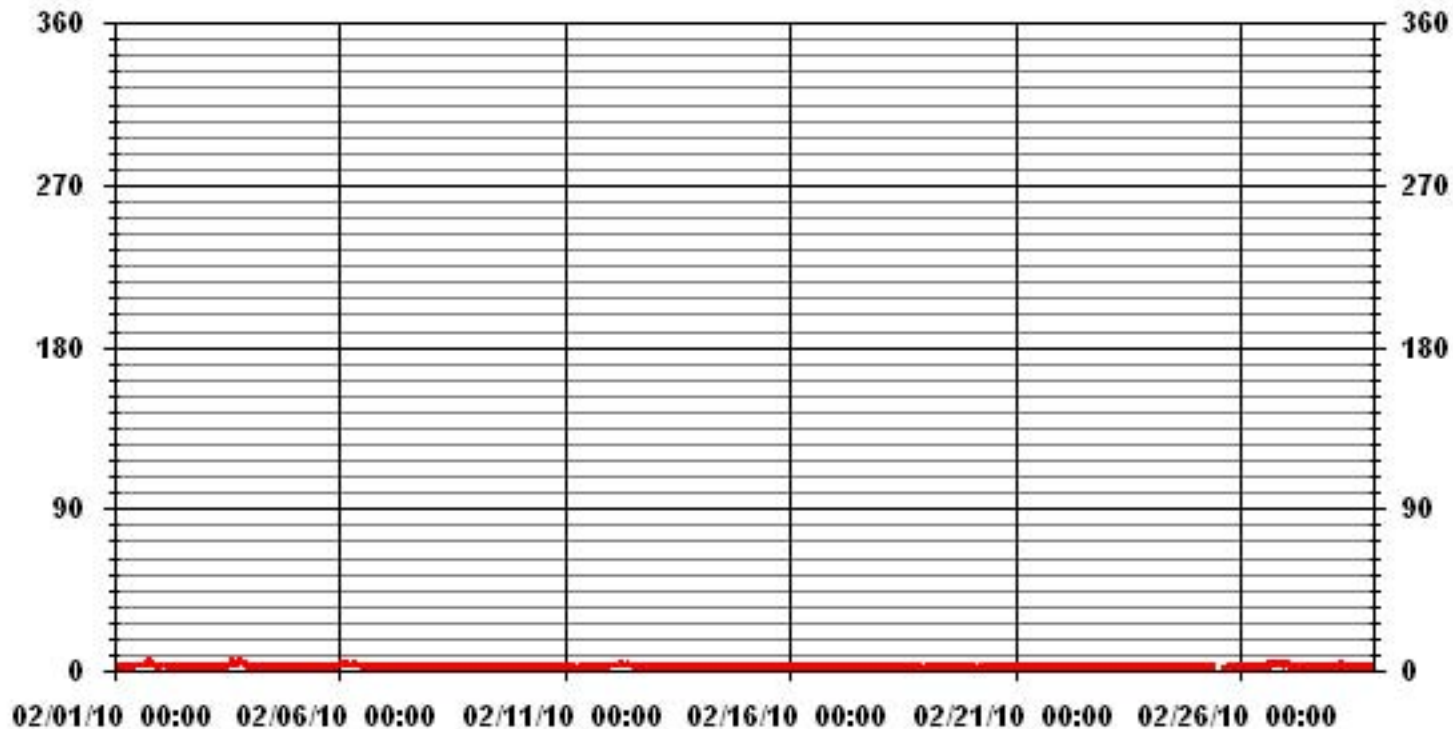
STATUS FLAG CODES

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:	634					
MAXIMUM INSTANTANEOUS VALUE:	6.0	PPM	@ HOUR(S)	18	ON DAY(S)	3
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	7	HRS				
STANDARD DEVIATION:	0.53					

01 Hour Averages



— LICA31 THCMAX PPM

LICA31
 THC / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 31
 Site Name : LICA31
 Parameter : THC
 Units : PPM

Wind Parameter : WDR
 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	2.83	.78	1.25	1.25	5.19	9.92	11.18	13.70	8.81	12.59	7.71	2.99	4.88	3.14	5.51	3.77	95.59
< 10.0	.00	.00	.15	.47	2.51	.15	.78	.15	.15	.00	.00	.00	.00	.00	.00	.00	4.40
< 50.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 50.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.83	.78	1.41	1.73	7.71	10.07	11.96	13.85	8.97	12.59	7.71	2.99	4.88	3.14	5.51	3.77	

Calm : .00 %

Total # Operational Hours : 635

Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3.0	18	5	8	8	33	63	71	87	56	80	49	19	31	20	35	24	607
< 10.0			1	3	16	1	5	1	1								28
< 50.0																	
>= 50.0																	
Totals	18	5	9	11	49	64	76	88	57	80	49	19	31	20	35	24	

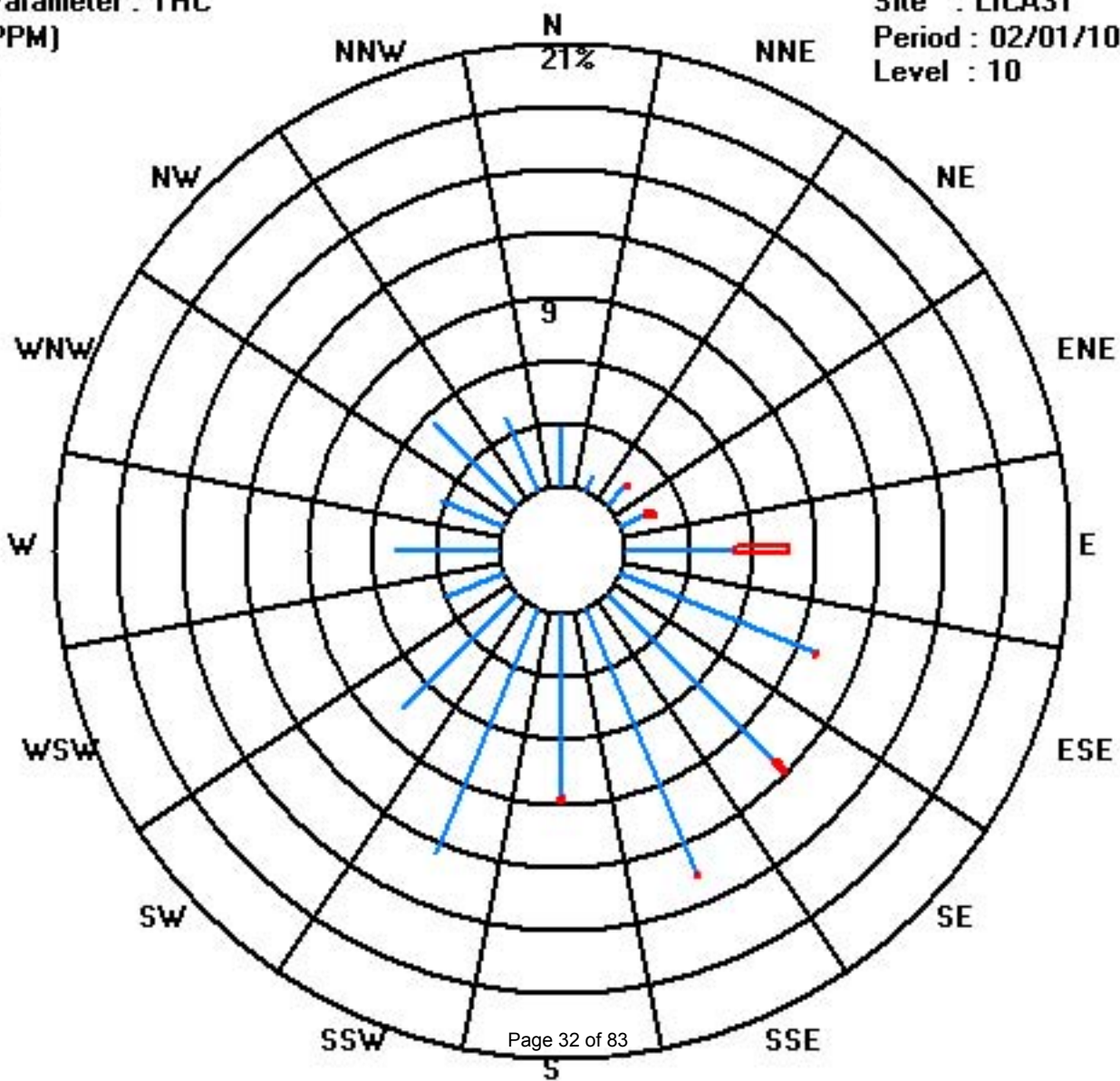
Calm : .00 %

Total # Operational Hours : 635

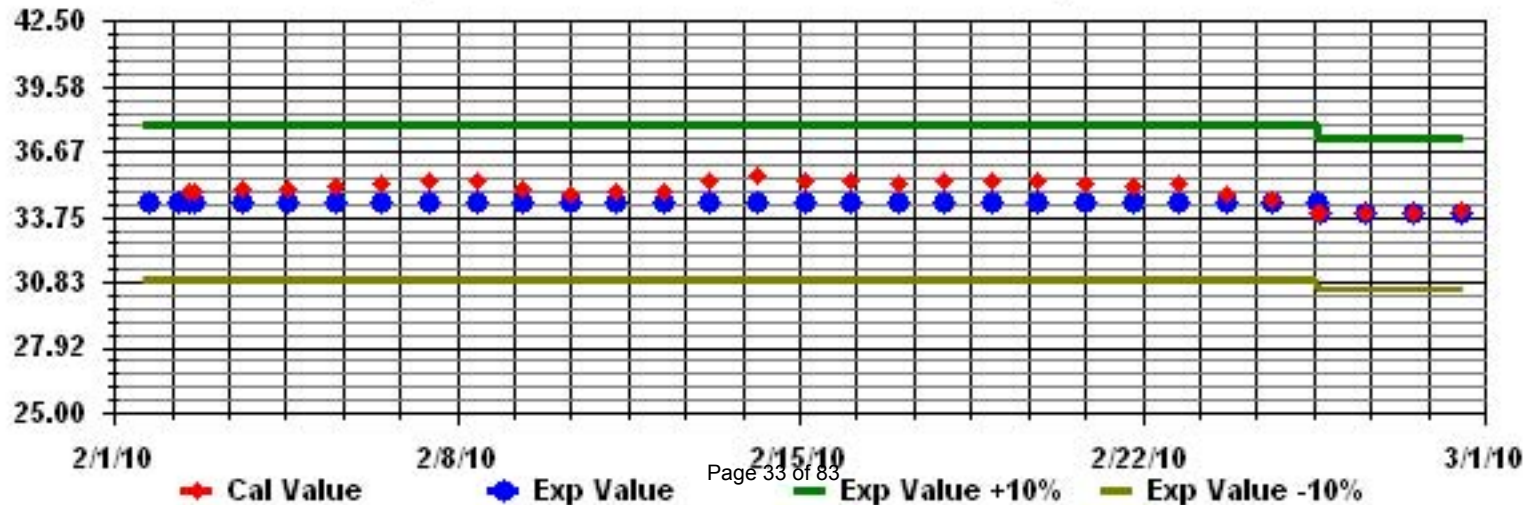
Class Limits (PPM)

Period : 02/01/10-02/28/10

Level : 10

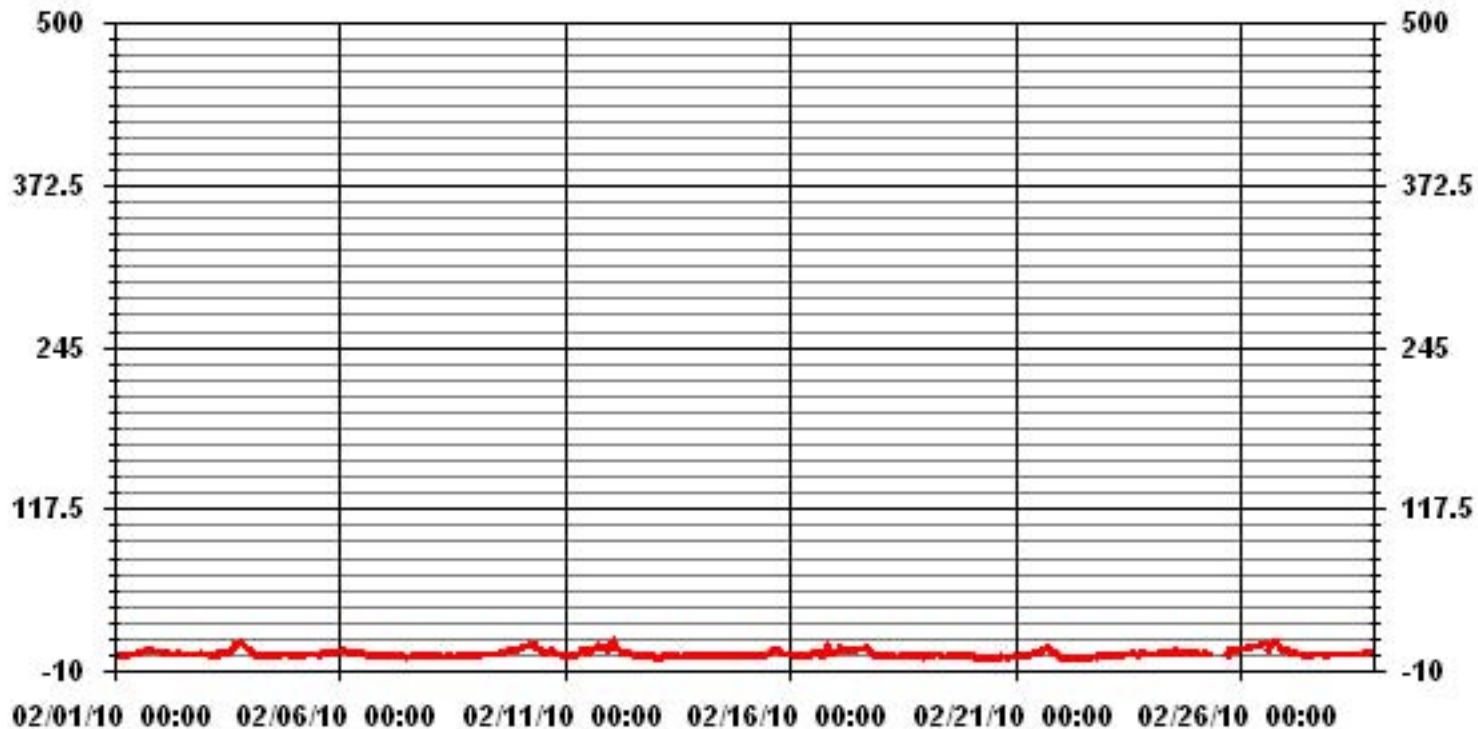


Calibration Graph for Site: LICA31 Parameter: THC Sequence: THC Phase: SPAll



Nitrogen Dioxide

01 Hour Averages



— LICA31 NO2_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - ST. LINA

FEBRUARY 2010

NITROGEN DIOXIDE MAX instantaneous maximum in ppb

MST

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	2	2	3	3	3	3	4	4	4	4	5	5	6	IZS	6	6	6	6	6	6	6	6	6	4.2	24
2	8	6	5	5	5	6	4	4	4	14	4	5	5	4	3	IZS	4	4	4	4	4	4	5	5	14	5.0	24	
3	4	4	4	3	3	3	4	4	5	5	4	5	5	6	IZS	10	10	11	12	13	13	12	11	10	13	7.0	24	
4	9	9	5	4	3	3	3	3	2	4	2	2	2	IZS	3	3	3	3	4	4	4	4	3	3	9	3.7	24	
5	3	3	3	3	3	3	4	3	3	3	3	3	IZS	4	4	5	5	6	6	5	5	5	5	5	6	4.0	24	
6	6	6	6	6	6	5	5	5	5	4	4	IZS	5	4	4	3	3	3	3	3	3	3	3	3	6	4.3	24	
7	3	3	2	2	2	2	2	2	2	3	IZS	2	2	2	2	2	3	3	3	3	2	2	2	2	3	2.3	24	
8	2	2	2	2	2	2	2	2	2	IZS	2	1	2	2	2	2	3	3	4	3	4	3	3	3	4	2.4	24	
9	3	3	3	3	3	3	3	4	IZS	3	4	3	4	4	5	5	7	6	7	7	7	7	7	12	7	12	4.9	24
10	7	9	10	10	10	11	12	IZS	25	11	8	8	8	6	5	6	6	20	5	4	4	4	4	3	25	8.5	24	
11	3	4	2	2	2	4	IZS	4	7	27	9	18	7	6	7	9	9	10	11	10	13	11	9	8	27	8.3	24	
12	9	16	17	10	9	IZS	5	5	5	5	4	4	4	4	2	2	2	2	2	2	2	2	1	1	17	5.0	24	
13	1	1	0	0	IZS	2	2	2	2	2	2	2	2	2	3	3	3	2	2	3	2	2	2	2	3	1.9	24	
14	2	2	2	IZS	2	2	2	2	2	2	2	2	2	2	3	3	3	2	2	2	2	2	2	2	3	2.1	24	
15	2	2	IZS	2	2	N	2	3	3	4	3	3	13	5	6	6	7	8	8	7	5	4	4	4	13	4.7	23	
16	4	IZS	3	3	3	3	3	2	2	3	3	4	4	5	4	6	5	5	4	9	10	9	7	6	10	4.7	24	
17	IZS	9	10	11	8	N	7	10	9	8	7	8	7	15	9	8	10	10	10	6	5	5	4	IZS	15	8.4	23	
18	3	3	2	2	2	2	2	2	3	3	2	2	2	2	2	3	2	2	2	2	2	2	2	IZS	3	3	2.3	24
19	3	4	2	2	2	3	3	3	4	3	2	2	1	1	1	1	1	3	2	2	2	2	IZS	2	2	4	2.2	24
20	1	2	2	1	1	1	1	1	1	1	1	1	1	7	1	6	1	2	2	2	IZS	2	2	2	7	1.8	24	
21	2	2	2	3	4	3	3	3	4	4	4	5	5	6	7	8	9	10	9	IZS	5	6	5	3	10	4.9	24	
22	2	1	1	1	0	0	0	1	0	0	0	0	0	0	0	3	5	IZS	3	4	4	4	3	4	5	1.4	24	
23	3	3	3	4	5	4	3	3	3	3	4	5	5	4	4	8	13	IZS	4	5	4	4	4	4	13	4.4	24	
24	4	4	5	3	4	5	5	10	5	5	4	5	6	9	8	5	IZS	8	7	6	7	7	6	7	10	5.9	24	
25	7	5	4	4	4	5	5	4	4	C	C	C	C	C	C	C	C	9	7	7	7	7	7	7	9	5.8	24	
26	8	8	8	8	9	9	10	9	10	10	10	13	13	12	IZS	8	12	13	14	15	14	11	10	7	15	10.5	24	
27	8	8	8	5	5	4	4	5	4	3	3	2	1	IZS	3	3	3	4	4	4	3	3	3	3	8	4.0	24	
28	4	3	3	4	4	4	4	4	4	4	4	4	IZS	3	3	4	4	4	4	5	5	5	4	5	6	6	4.1	24
HOURLY MAX	9	16	17	11	10	11	12	10	25	27	10	18	13	15	9	10	13	20	14	15	14	12	12	10				
HOURLY AVG	4.2	4.6	4.3	3.9	3.9	3.7	3.8	3.8	4.6	5.3	3.8	4.3	4.4	4.8	3.8	4.8	5.3	6.1	5.5	5.3	5.3	5.0	4.8	4.4				

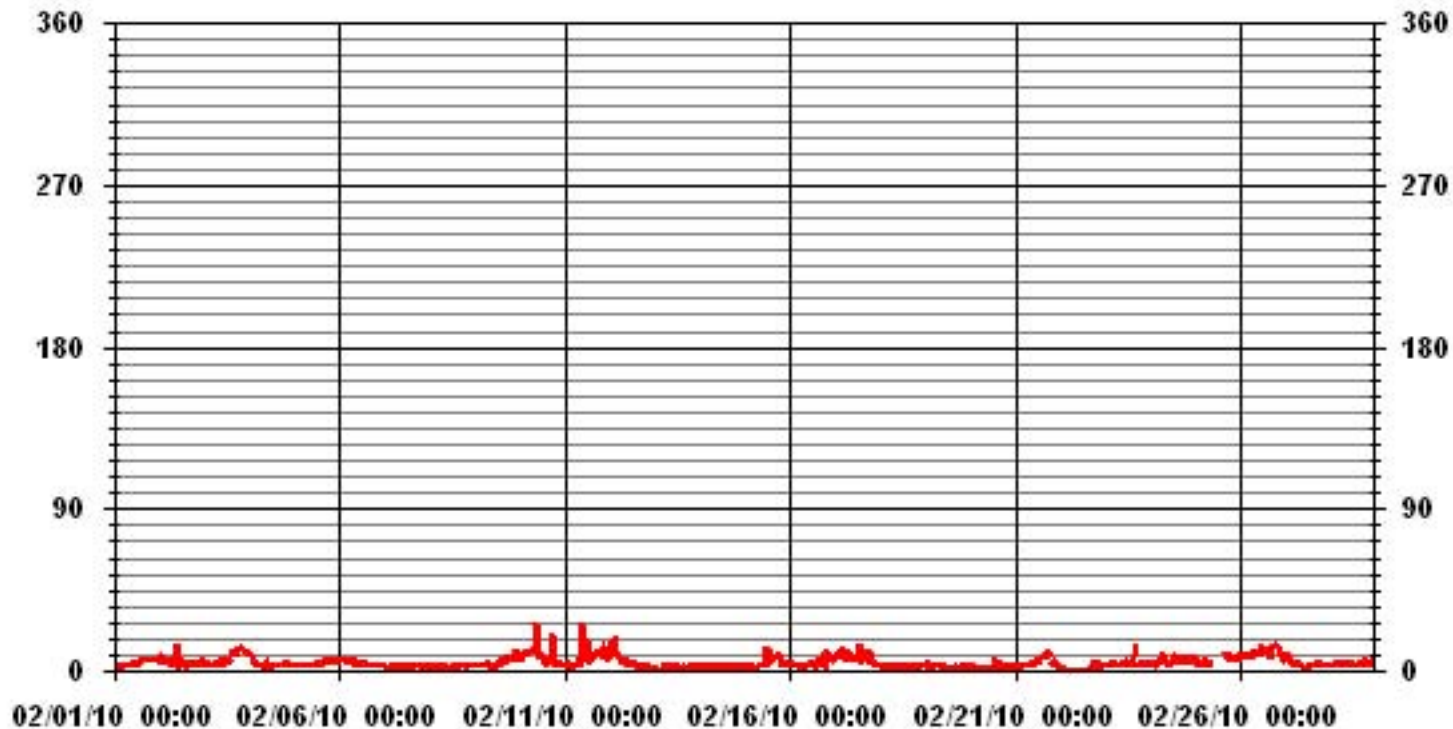
STATUS FLAG CODES

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:	621
MAXIMUM INSTANTANEOUS VALUE:	27 PPB @ HOUR(S) 9 ON DAY(S) 11
IZS CALIBRATION TIME:	28 HRS
MONTHLY CALIBRATION TIME:	8 HRS
OPERATIONAL TIME:	670 HRS
STANDARD DEVIATION	3.27

01 Hour Averages



— LICA31 NO2MAX PPB

LICA31
 NO2_ / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 31
 Site Name : LICA31
 Parameter : NO2_
 Units : PPB

Wind Parameter : WDR
 Instrument Height : 10 Meters

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	2.83	.78	1.41	1.73	7.72	10.09	11.98	13.88	8.51	12.61	7.88	2.99	4.88	3.31	5.52	3.78	100.00
< 110	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.83	.78	1.41	1.73	7.72	10.09	11.98	13.88	8.51	12.61	7.88	2.99	4.88	3.31	5.52	3.78	

Calm : .00 %

Total # Operational Hours : 634

Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	18	5	9	11	49	64	76	88	54	80	50	19	31	21	35	24	634
< 110																	
< 210																	
>= 210																	
Totals	18	5	9	11	49	64	76	88	54	80	50	19	31	21	35	24	

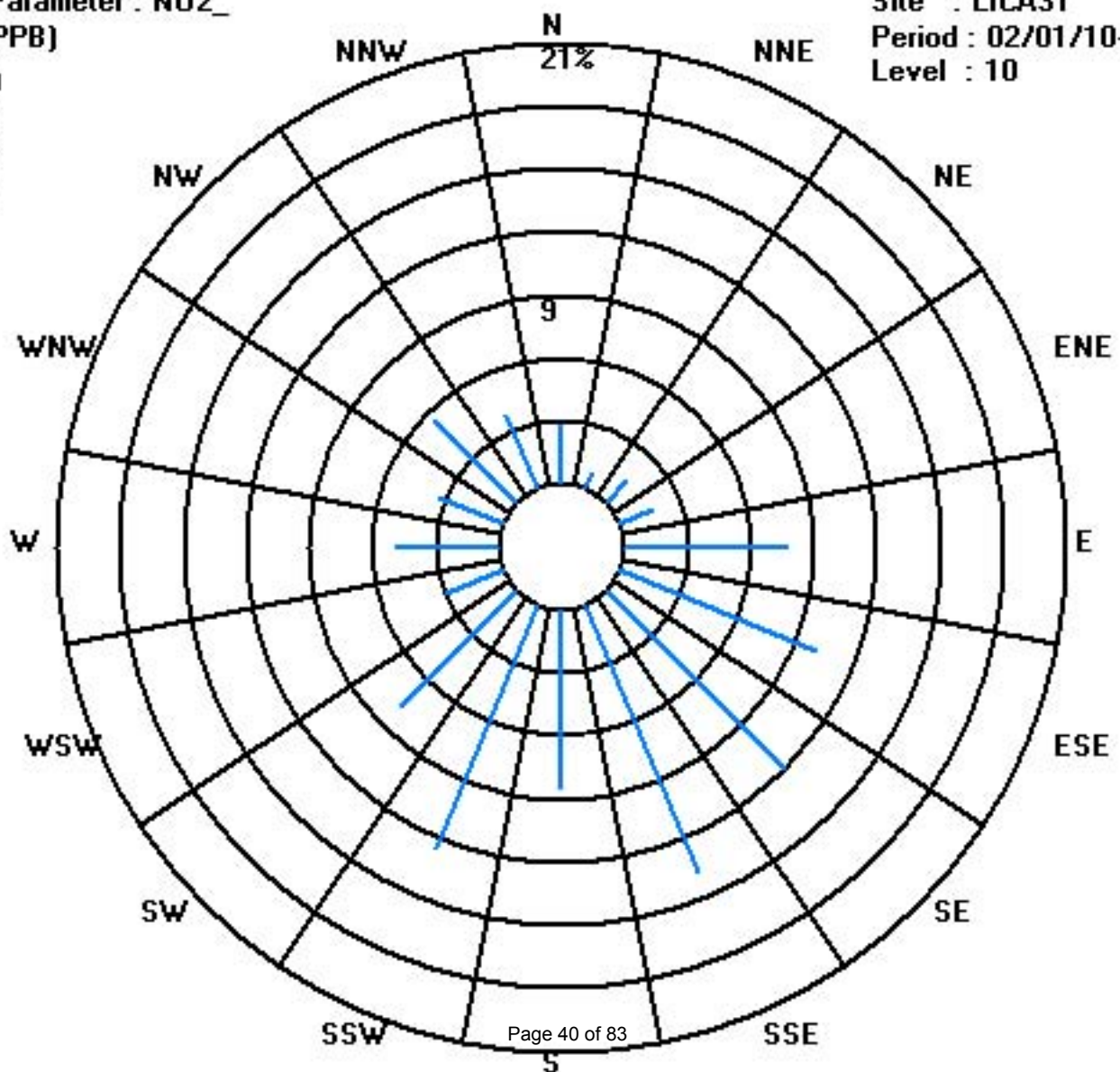
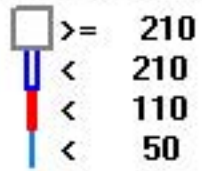
Calm : .00 %

Total # Operational Hours : 634

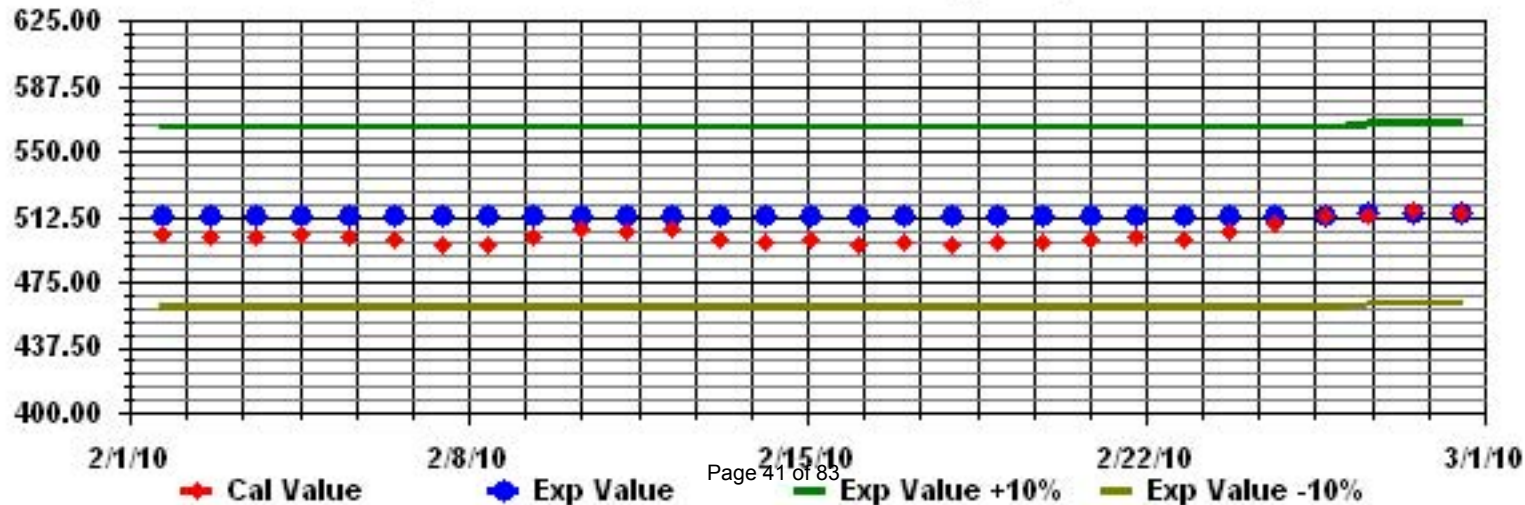
Class Limits (PPB)

Period : 02/01/10-02/28/10

Level : 10



Calibration Graph for Site: LICA31 Parameter: NO2_ Sequence: NO2 Phase: SPAN



Nitric Oxide

LAKELAND INDUSTRY & COMMUNICATY ASSOCIATION - ST. LINA

FEBRUARY 2010

NITRIC OXIDE hourly averages in ppb

MST		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			
DAY	HOURLY MAX	HOURLY AVG	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	MAX.	AVG.	RDGS.	
1	0	0.0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	IZS	0	0	0	0	0	0	0	1	0.2	24	
2	0	0.0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	IZS	0	0	0	0	0	0	0	1	0.2	24	
3	0	0.0	0	0	0	0	0	0	0	0	0	1	1	1	0	IZS	1	0	0	0	0	0	0	0	0	1	0.2	24	
4	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	0.0	24	
5	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	IZS	1	1	0	0	0	0	0	0	0	0	1	0.1	24	
6	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	IZS	1	0	0	0	0	0	0	0	0	0	1	0.0	24	
7	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	0.0	24	
8	0	0.0	0	0	0	0	0	0	0	0	IZS	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0.1	24	
9	0	0.0	0	0	0	0	0	0	0	IZS	1	1	1	1	1	2	1	1	0	0	0	0	0	0	0	2	0.4	24	
10	0	0.0	0	0	0	0	0	0	IZS	4	6	7	7	6	3	2	2	1	0	0	0	0	0	0	0	7	1.7	24	
11	0	0.0	0	0	0	0	0	IZS	0	0	4	5	5	3	3	3	2	1	0	0	0	0	0	0	0	5	1.1	24	
12	0	0.0	0	0	0	0	IZS	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0.2	24		
13	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	0.0	24	
14	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	0.0	24	
15	0	0.0	0	IZS	0	0	N	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0.3	23	
16	0	0.0	IZS	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0.2	24	
17	IZS	0.0	0	0	0	0	N	0	0	2	4	5	5	5	4	2	2	2	1	0	0	0	0	0	0	IZS	5	1.5	23
18	0	0.0	0	0	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	
19	0	0.0	0	0	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	
20	0	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	0.0	24	
21	0	0.0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	2	1	0	0	0	IZS	0	0	0	2	0.4	24	
22	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	0.0	24	
23	0	0.0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	IZS	0	0	0	0	0	1	0.1	24	
24	0	0.0	0	0	0	0	0	0	1	0	1	1	1	1	2	1	1	IZS	1	0	0	0	0	0	0	2	0.4	24	
25	0	0.0	0	0	0	0	0	0	0	1	C	C	C	C	C	C	C	C	0	0	0	0	0	0	0	1	0.1	24	
26	0	0.0	0	0	0	0	0	0	0	1	2	3	4	4	4	IZS	2	2	1	0	0	0	0	0	0	4	1.0	24	
27	0	0.0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24	
28	0	0.0	0	0	0	0	0	0	0	0	0	0	1	IZS	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24	
HOURLY MAX	0	0	0	0	0	0	0	0	1	4	6	7	7	6	4	3	2	2	1	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	0.3	0.8	1.2	1.3	1.2	1.0	0.6	0.6	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

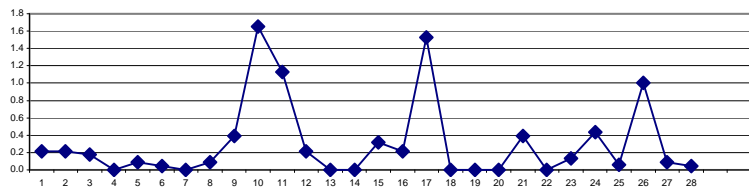
STATUS FLAG CODES

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

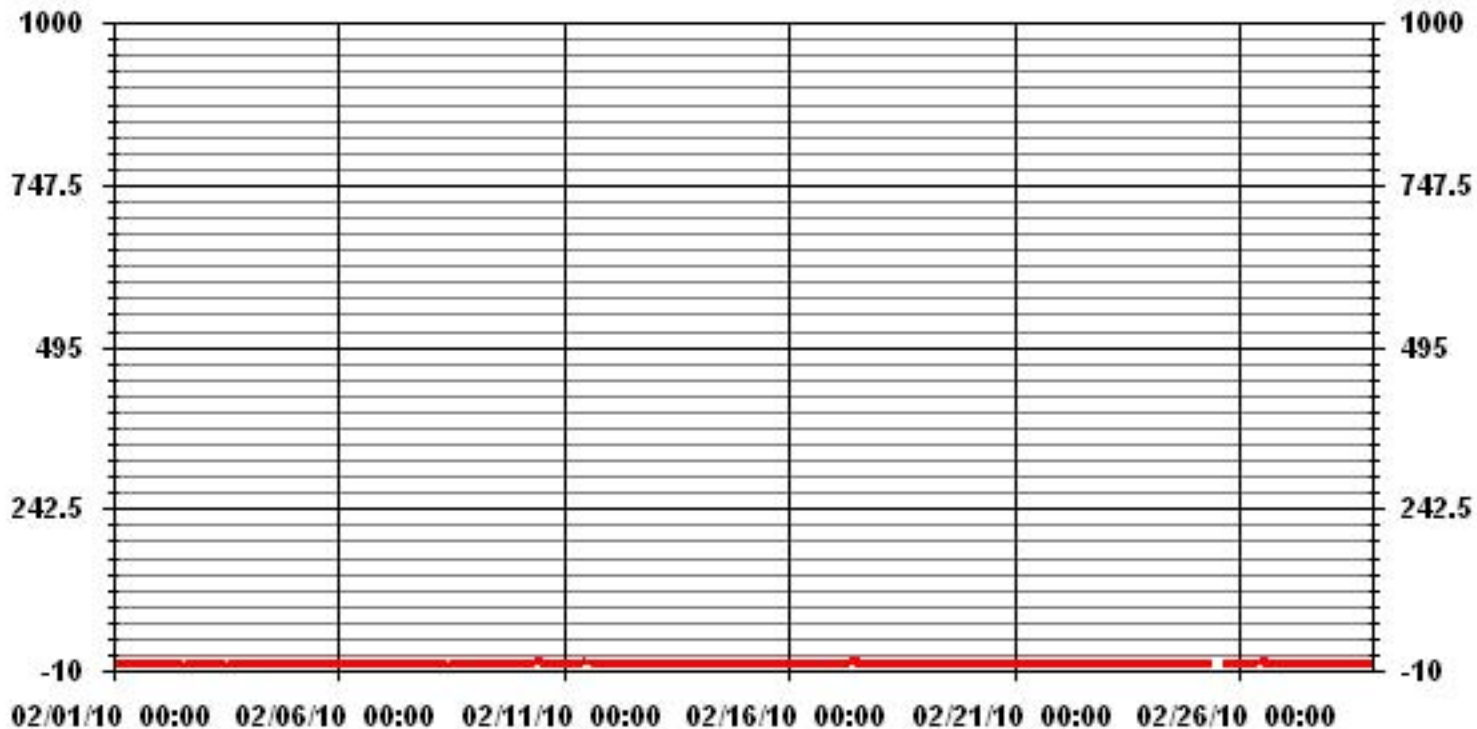
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	103					
MAXIMUM 1-HR AVERAGE:	7	PPB	@ HOUR(S)	10, 11	ON DAY(S)	10
MAXIMUM 24-HR AVERAGE:	1.7	PPB			ON DAY(S)	10
IZS CALIBRATION TIME:	28	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	8	HRS	AMD OPERATION UPTIME:	99.7	%	
STANDARD DEVIATION:	0.90		MONTHLY AVERAGE:	0.30	PPB	

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



— LICA31 NO_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - ST. LINA

FEBRUARY 2010

NITRIC OXIDE MAX instantaneous maximum in ppb

MST

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR		
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.	
DAY																												
1	0	0	0	0	0	0	0	0	0	1	1	1	1	2	2	1	IZS	1	1	1	1	0	1	0	2	0.6	24	
2	0	0	0	0	0	0	0	1	2	37	2	7	2	1	1	IZS	1	2	1	1	0	0	0	0	37	2.5	24	
3	0	0	0	0	0	0	0	0	0	1	1	2	2	1	IZS	2	1	1	1	1	1	0	1	1	2	0.7	24	
4	1	0	0	0	0	0	0	0	0	0	0	0	0	IZS	1	1	0	0	0	0	0	0	0	0	1	0.1	24	
5	0	0	0	0	0	0	0	0	0	0	1	1	IZS	1	1	1	1	0	1	1	0	0	0	0	1	0.3	24	
6	0	0	0	0	1	0	0	0	0	1	1	IZS	1	1	0	0	0	0	0	0	0	0	0	0	1	0.2	24	
7	0	0	0	0	0	0	0	0	0	0	IZS	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0.1	24	
8	0	0	0	0	0	0	1	0	0	IZS	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0.3	24	
9	0	0	0	0	0	0	1	0	IZS	2	3	2	2	3	2	2	2	1	2	2	1	1	15	1	15	1.8	24	
10	0	1	1	2	1	1	1	IZS	19	10	8	8	9	3	3	3	2	21	0	0	0	0	0	0	21	4.0	24	
11	0	0	0	0	0	1	IZS	1	1	42	7	28	5	4	3	4	3	1	1	0	4	0	0	0	42	4.6	24	
12	0	1	1	1	1	IZS	1	1	1	1	2	2	2	2	1	0	0	0	0	0	0	0	0	0	2	0.7	24	
13	0	0	0	0	IZS	1	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0.4	24	
14	0	0	0	IZS	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0.3	24	
15	0	0	IZS	1	0	N	0	1	1	1	1	2	12	2	10	2	2	1	0	1	1	0	0	12	1.7	23		
16	0	IZS	1	0	0	0	0	0	0	1	1	2	2	2	2	1	1	1	0	0	1	0	1	0	2	0.7	24	
17	IZS	1	0	0	0	N	1	2	4	13	6	8	6	19	3	4	9	2	1	0	1	0	0	IZS	19	3.8	23	
18	0	0	0	0	0	0	0	0	0	2	1	2	0	1	1	1	1	0	0	0	0	0	0	IZS	1	2	0.4	24
19	0	0	0	0	0	1	0	0	2	1	1	1	0	0	1	0	0	1	0	0	0	0	IZS	1	0	2	0.4	24
20	0	0	0	0	0	0	0	0	0	0	0	0	1	6	1	10	1	1	1	2	IZS	1	0	0	10	1.0	24	
21	0	0	0	0	0	0	0	0	1	1	2	2	2	3	3	2	2	1	0	IZS	1	1	0	0	3	0.9	24	
22	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	2	IZS	1	1	1	0	1	2	0.4	24	
23	1	0	0	0	0	1	0	0	1	1	3	2	3	1	1	1	14	IZS	1	1	1	0	0	0	14	1.4	24	
24	0	0	0	0	0	0	0	43	1	2	2	3	2	5	2	1	IZS	4	2	1	1	0	1	1	43	3.1	24	
25	0	0	0	0	0	0	0	0	1	C	C	C	C	C	C	C	C	4	0	0	0	1	1	1	4	0.5	24	
26	1	1	1	1	1	1	0	1	3	3	4	7	5	5	IZS	3	3	2	1	1	1	1	1	1	7	2.1	24	
27	1	1	1	1	1	1	0	1	1	1	1	1	1	IZS	1	1	1	1	0	0	0	0	0	0	1	0.7	24	
28	0	0	1	0	0	1	0	1	1	1	1	2	IZS	1	1	1	1	1	1	1	1	2	0	0	1	2	0.8	24
HOURLY MAX	1	1	1	2	1	1	1	43	19	42	8	28	12	19	10	10	14	21	2	2	4	1	15	1				
HOURLY AVG	0.1	0.2	0.2	0.2	0.2	0.3	0.2	1.9	1.5	4.8	2.0	3.3	2.6	2.7	1.7	1.7	1.9	1.8	0.5	0.5	0.6	0.2	0.8	0.3				

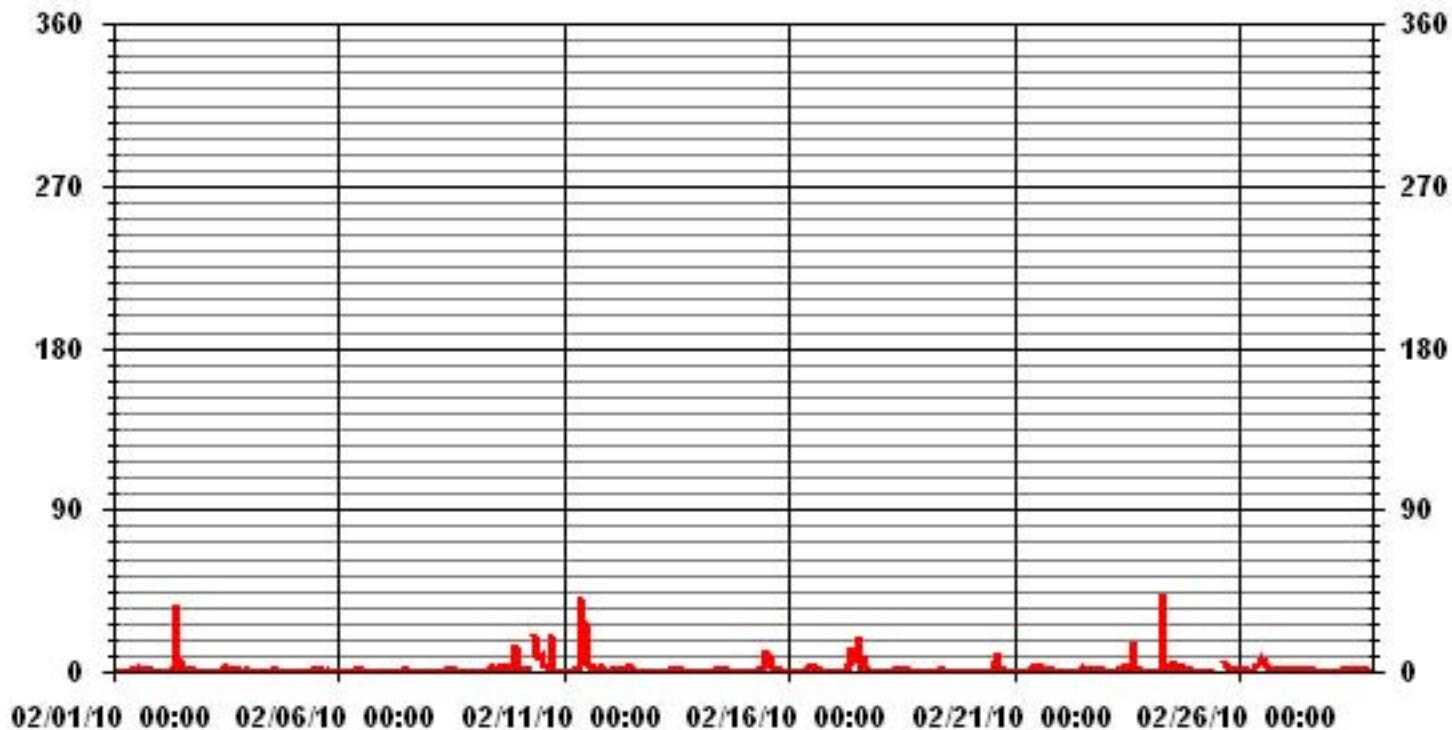
STATUS FLAG CODES

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:	312					
MAXIMUM INSTANTANEOUS VALUE:	43	PPB	@ HOUR(S)	7	ON DAY(S)	24
IZS CALIBRATION TIME:	28	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	8	HRS				
STANDARD DEVIATION	3.64					

01 Hour Averages



LICA31
 NO_ / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 31
 Site Name : LICA31
 Parameter : NO_
 Units : PPB

Wind Parameter : WDR
 Instrument Height : 10 Meters

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	2.83	.78	1.41	1.73	7.72	10.09	11.98	13.88	8.51	12.61	7.88	2.99	4.88	3.31	5.52	3.78	100.00
< 110	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.83	.78	1.41	1.73	7.72	10.09	11.98	13.88	8.51	12.61	7.88	2.99	4.88	3.31	5.52	3.78	

Calm : .00 %

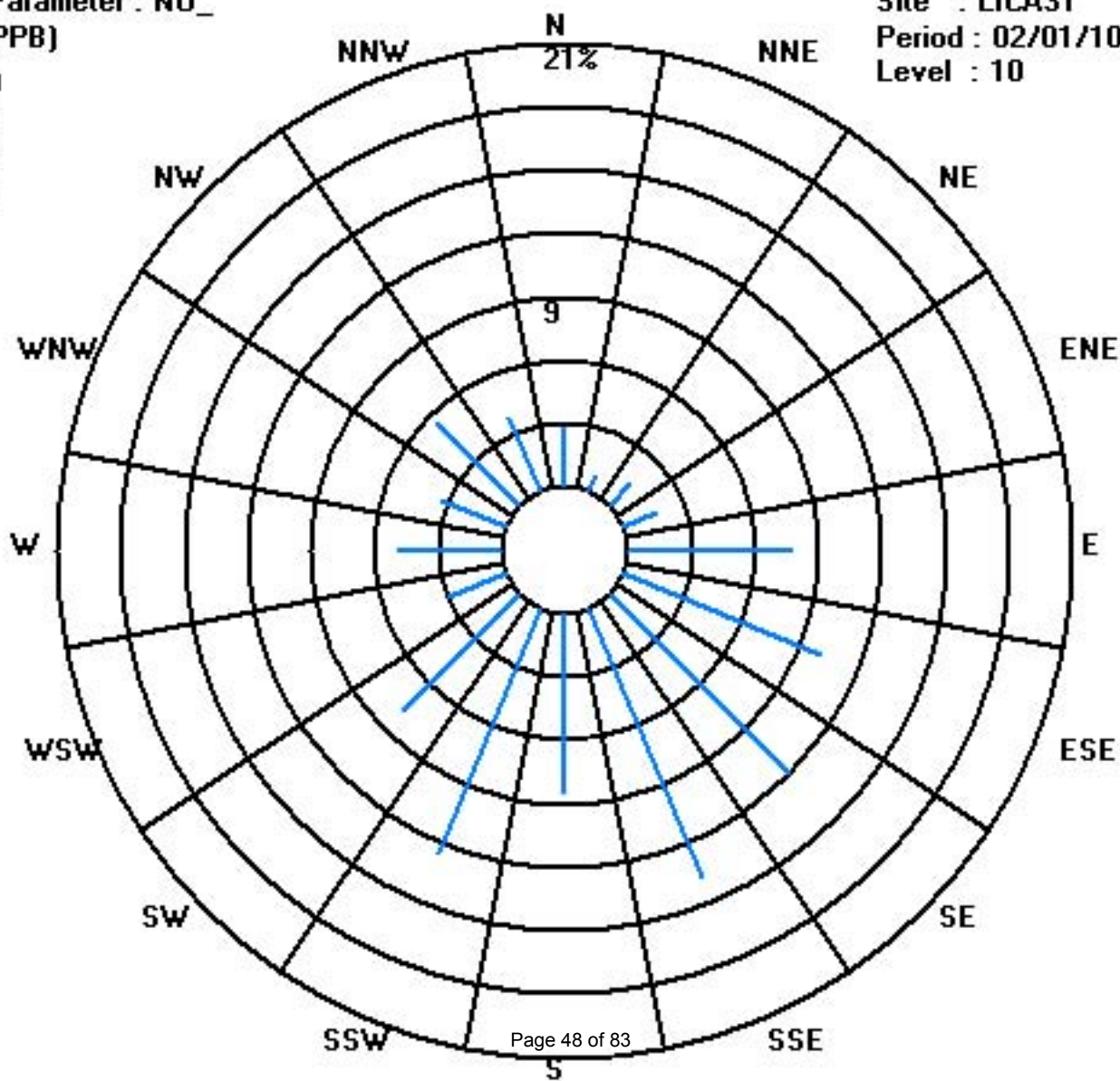
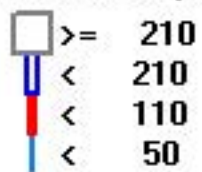
Total # Operational Hours : 634

Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	18	5	9	11	49	64	76	88	54	80	50	19	31	21	35	24	634
< 110																	
< 210																	
>= 210																	
Totals	18	5	9	11	49	64	76	88	54	80	50	19	31	21	35	24	

Calm : .00 %

Total # Operational Hours : 634



Oxides of Nitrogen

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - ST. LINA

FEBRUARY 2010

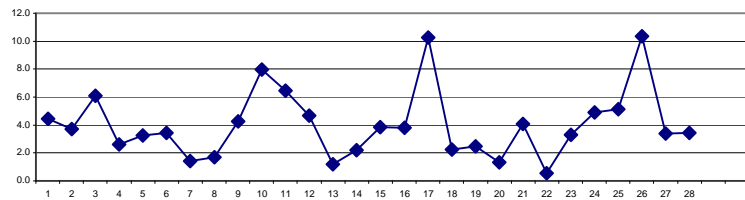
OXIDES OF NITROGEN hourly averages in ppb

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	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	2	3	3	3	3	4	4	5	5	5	6	7	7	IZS	6	6	6	6	5	5	5	5	7	4.4	24
2	5	5	4	4	4	4	3	3	3	4	4	5	4	4	3	IZS	3	4	3	3	3	3	4	3	5	3.7	24	
3	3	3	3	3	2	1	2	4	4	4	4	5	5	5	IZS	9	10	10	11	12	12	11	10	7	12	6.1	24	
4	7	7	3	3	2	2	2	2	1	2	2	1	2	IZS	2	2	2	2	3	3	3	3	2	2	7	2.6	24	
5	2	2	2	2	2	2	3	2	3	3	3	3	IZS	4	4	4	5	5	4	4	4	4	4	4	5	3.3	24	
6	5	5	5	5	5	5	4	4	4	4	4	IZS	5	4	3	2	2	2	2	2	2	1	2	2	5	3.4	24	
7	2	2	1	1	1	1	1	1	1	2	IZS	1	2	1	2	2	2	2	2	2	1	1	1	1	2	1.4	24	
8	1	1	1	1	1	1	1	1	1	IZS	1	2	2	2	2	2	2	2	3	3	3	2	2	2	3	1.7	24	
9	2	2	2	2	2	3	3	3	IZS	3	4	4	4	5	6	5	5	5	6	6	6	6	7	7	7	4.3	24	
10	7	7	9	9	9	10	11	IZS	15	14	14	14	13	8	6	6	7	6	4	3	3	3	3	2	15	8.0	24	
11	2	2	1	0	0	1	IZS	3	5	9	11	11	9	8	9	10	9	8	9	8	10	9	8	7	11	6.5	24	
12	8	11	13	9	8	IZS	5	5	5	5	6	6	5	4	2	2	2	2	1	2	2	2	1	1	13	4.7	24	
13	1	1	0	1	IZS	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	2	1.2	24	
14	1	1	1	IZS	2	2	2	2	2	2	3	3	3	3	3	3	3	3	2	2	2	2	2	3	2.2	24		
15	2	2	IZS	2	2	N	1	2	2	3	3	4	5	5	7	7	6	7	7	5	4	3	3	7	3.9	23		
16	3	IZS	3	2	2	2	2	1	2	2	3	4	5	5	4	4	4	4	3	5	9	7	6	5	9	3.8	24	
17	IZS	8	11	11	8	N	8	10	12	13	13	14	14	14	11	11	12	12	10	6	6	6	5	IZS	14	10.2	23	
18	3	3	3	2	2	2	2	2	2	3	2	3	2	2	2	2	3	2	2	2	2	2	IZS	2	3	2.3	24	
19	3	4	2	2	2	3	3	4	4	3	3	2	2	2	2	1	2	2	2	2	3	IZS	2	2	4	2.5	24	
20	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	IZS	1	2	1	2	1.3	24	
21	1	1	1	2	2	2	2	2	3	3	4	5	6	6	8	8	8	9	7	IZS	4	5	3	2	9	4.1	24	
22	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	IZS	1	2	3	2	3	3	3	0.6	24	
23	2	2	2	3	3	2	2	2	3	3	4	4	6	3	4	5	5	IZS	3	4	4	4	3	3	6	3.3	24	
24	3	3	3	3	3	4	4	5	4	5	4	5	5	8	7	5	IZS	6	5	5	6	7	6	7	8	4.9	24	
25	6	5	4	4	4	5	5	4	5	C	C	C	C	C	C	C	C	C	4	6	6	6	6	6	6	6	5.1	24
26	7	7	7	8	8	8	9	9	10	11	12	15	16	15	IZS	9	11	13	13	14	12	10	8	6	16	10.3	24	
27	6	7	6	5	4	4	4	4	3	3	2	1	1	IZS	3	3	3	3	4	3	3	2	2	2	7	3.4	24	
28	3	3	3	3	3	3	3	3	3	3	4	4	IZS	3	3	3	4	3	4	4	4	4	4	5	5	3.4	24	
HOURLY MAX	8	11	13	11	9	10	11	10	15	14	14	15	16	15	11	11	12	13	13	14	12	11	10	7				
HOURLY AVG	3.3	3.6	3.5	3.3	3.1	2.9	3.2	3.1	3.8	4.2	4.5	4.7	4.9	4.8	4.1	4.5	4.6	4.7	4.7	4.3	4.6	4.2	3.9	3.4				

STATUS FLAG CODES

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

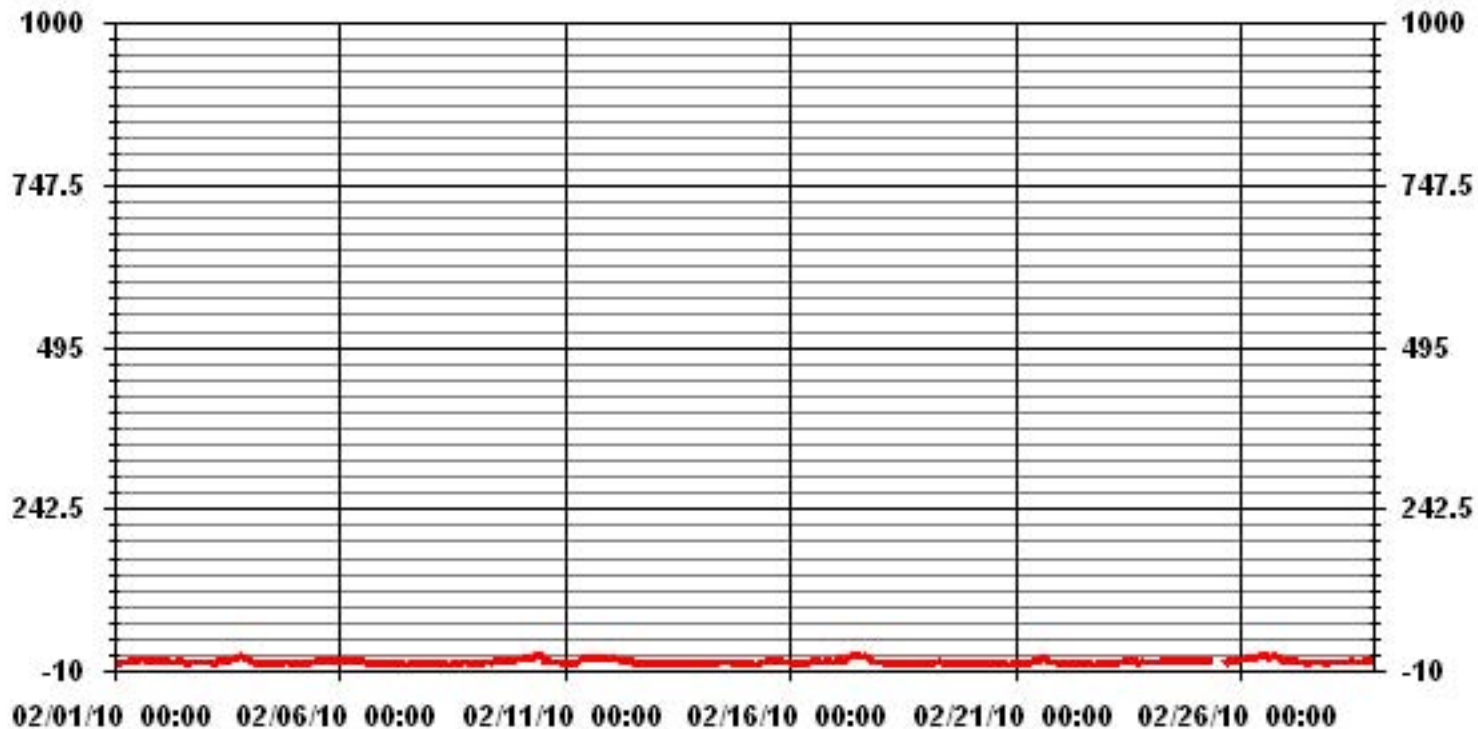
24 HOUR AVERAGES FOR FEBRUARY 2010



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	615
MAXIMUM 1-HR AVERAGE:	16 PPB @ HOUR(S) 12 ON DAY(S) 26
MAXIMUM 24-HR AVERAGE:	10.3 PPB ON DAY(S) 26
IZS CALIBRATION TIME:	28 HRS
MONTHLY CALIBRATION TIME:	8 HRS
STANDARD DEVIATION	3.06
OPERATIONAL TIME:	670 HRS
AMD OPERATION UPTIME	99.7 %
MONTHLY AVERAGE	3.99 PPB

01 Hour Averages



— LICA31 NOX_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - ST. LINA

FEBRUARY 2010

OXIDES OF NITROGEN MAX instantaneous maximum in ppb

MST		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 START	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	3	3	3	3	3	3	4	5	5	5	5	6	8	8	8	IZS	6	6	6	6	6	6	6	6	8	5.1	24
2		8	5	5	5	5	5	4	5	5	46	5	12	6	5	4	IZS	4	5	4	4	4	3	5	4	46	6.9	24	
3		3	3	3	3	3	2	3	4	4	5	5	6	6	6	IZS	10	11	11	12	13	13	12	11	9	13	6.9	24	
4		8	8	4	3	3	2	2	2	2	3	2	2	2	IZS	4	4	3	3	4	4	3	3	3	3	8	3.3	24	
5		2	2	3	3	3	3	3	3	3	3	3	3	3	IZS	5	5	5	5	6	6	5	5	5	5	5	6	4.0	24
6		5	6	6	6	6	5	5	5	5	4	4	IZS	6	5	4	3	3	3	3	3	2	2	3	2	6	4.2	24	
7		2	2	2	2	2	1	1	2	2	2	IZS	3	2	2	2	2	2	2	3	2	2	2	2	2	3	2.0	24	
8		1	1	1	1	1	1	2	2	2	IZS	2	2	3	3	3	2	3	3	3	3	3	3	3	3	3	2.2	24	
9		3	3	2	3	3	3	3	3	IZS	4	6	5	5	6	7	6	8	7	8	8	7	7	24	7	24	6.0	24	
10		7	9	10	11	11	11	12	IZS	38	18	15	15	17	9	7	7	8	38	5	4	4	4	3	3	38	11.6	24	
11		2	4	2	1	1	5	IZS	4	7	65	15	38	11	9	10	12	11	11	10	10	17	10	9	8	65	11.8	24	
12		9	17	17	10	9	IZS	6	6	6	6	7	6	6	6	3	2	3	2	2	2	2	2	2	2	17	5.8	24	
13		2	1	1	1	IZS	2	1	1	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	1	3	1.8	24	
14		1	1	2	IZS	3	3	3	3	3	3	3	3	3	3	4	4	4	3	3	3	3	3	3	3	4	2.9	24	
15		3	3	IZS	2	2	N	2	3	4	4	4	4	23	6	15	8	8	8	8	7	5	3	3	4	23	5.9	23	
16		4	IZS	3	3	3	3	3	2	2	3	4	6	7	6	5	6	6	6	4	9	9	8	8	6	9	5.0	24	
17		IZS	11	12	13	10	N	9	13	14	22	15	17	15	32	14	13	21	14	12	8	7	7	6	IZS	32	13.6	23	
18		4	3	3	3	3	2	2	3	3	5	4	4	3	3	3	4	4	3	3	3	3	3	2	IZS	4	5	3.2	24
19		3	4	3	3	3	4	4	4	6	4	4	3	2	2	2	2	4	3	3	3	3	3	3	2	6	3.2	24	
20		2	3	2	2	2	2	2	1	1	1	2	2	2	13	3	14	2	3	3	5	IZS	2	2	2	14	3.2	24	
21		2	2	2	2	3	3	3	3	5	4	6	7	7	8	9	10	10	10	9	IZS	5	6	4	2	10	5.3	24	
22		1	1	1	0	0	0	0	1	0	0	0	0	2	0	0	0	3	7	IZS	3	4	4	3	4	7	1.5	24	
23		3	3	2	4	5	4	3	3	3	6	6	6	8	5	4	9	26	IZS	4	5	5	5	4	4	26	5.4	24	
24		4	4	5	3	4	5	5	51	6	6	5	7	7	14	10	6	IZS	12	10	8	8	8	8	8	51	8.9	24	
25		8	6	5	5	5	6	5	5	6	C	C	C	C	C	C	C	C	C	14	7	7	7	7	7	14	6.7	24	
26		9	9	8	8	9	9	10	10	12	12	14	19	17	17	IZS	11	14	14	14	14	15	14	11	10	7	19	11.9	24
27		8	9	7	5	5	4	4	5	4	4	3	3	2	IZS	3	3	3	4	4	4	4	3	3	3	9	4.2	24	
28		3	3	3	4	4	4	4	4	4	4	5	6	IZS	4	4	4	5	4	5	5	5	6	4	5	7	7	4.4	24
HOURLY MAX		9	17	17	13	11	11	12	51	38	65	15	38	23	32	15	14	26	38	14	15	17	12	24	9				
HOURLY AVG		4.1	4.7	4.3	4.0	4.1	3.7	3.9	5.6	5.7	9.2	5.6	7.2	6.8	7.2	5.4	6.0	6.9	7.6	5.8	5.6	5.6	5.0	5.4	4.4				

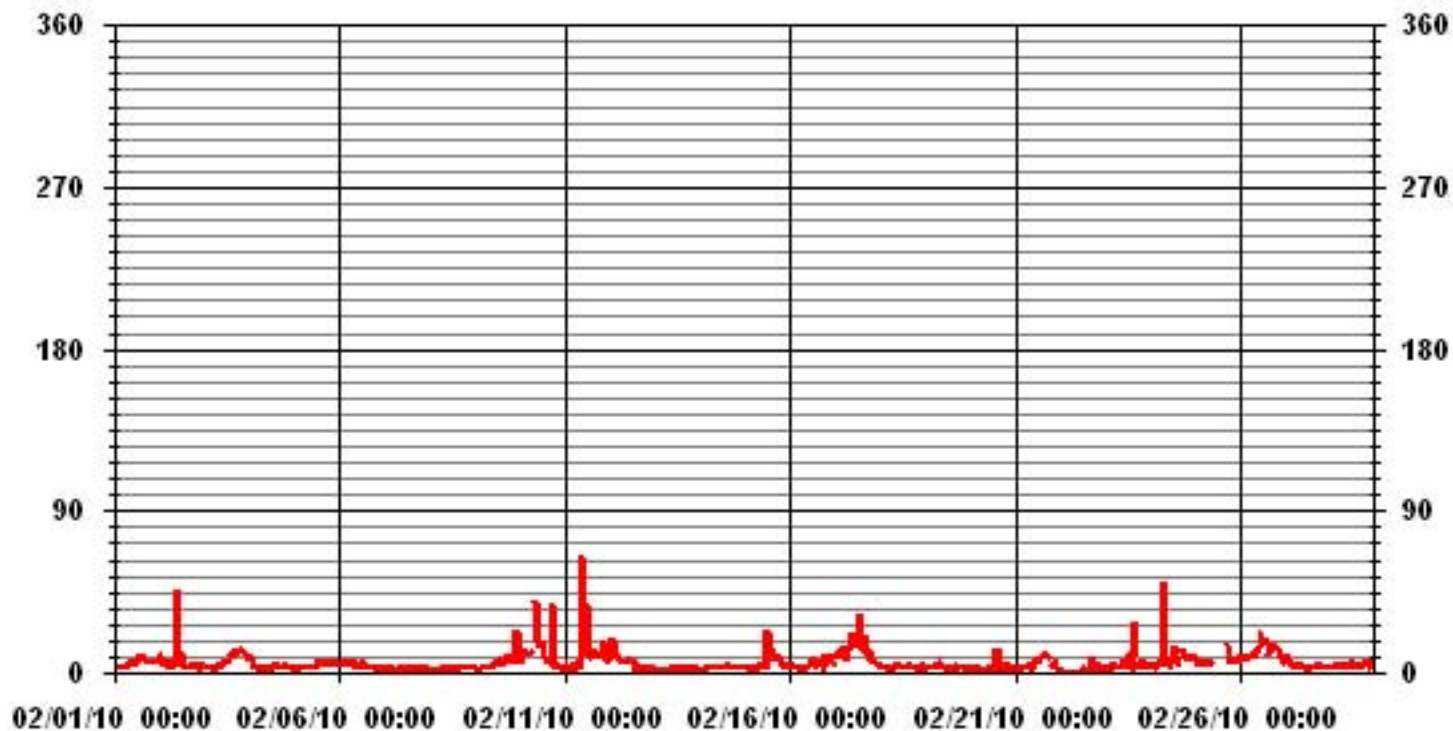
STATUS FLAG CODES

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:	623					
MAXIMUM INSTANTANEOUS VALUE:	65	PPB	@ HOUR(S)	9	ON DAY(S)	11
IZS CALIBRATION TIME:	28	HRS	OPERATIONAL TIME:	670 HRS		
MONTHLY CALIBRATION TIME:	8	HRS				
STANDARD DEVIATION	5.69					

01 Hour Averages



LICA31
 NOX_ / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 31
 Site Name : LICA31
 Parameter : NOX_
 Units : PPB

Wind Parameter : WDR
 Instrument Height : 10 Meters

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	2.83	.78	1.41	1.73	7.72	10.09	11.98	13.88	8.51	12.61	7.88	2.99	4.88	3.31	5.52	3.78	100.00
< 110	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.83	.78	1.41	1.73	7.72	10.09	11.98	13.88	8.51	12.61	7.88	2.99	4.88	3.31	5.52	3.78	

Calm : .00 %

Total # Operational Hours : 634

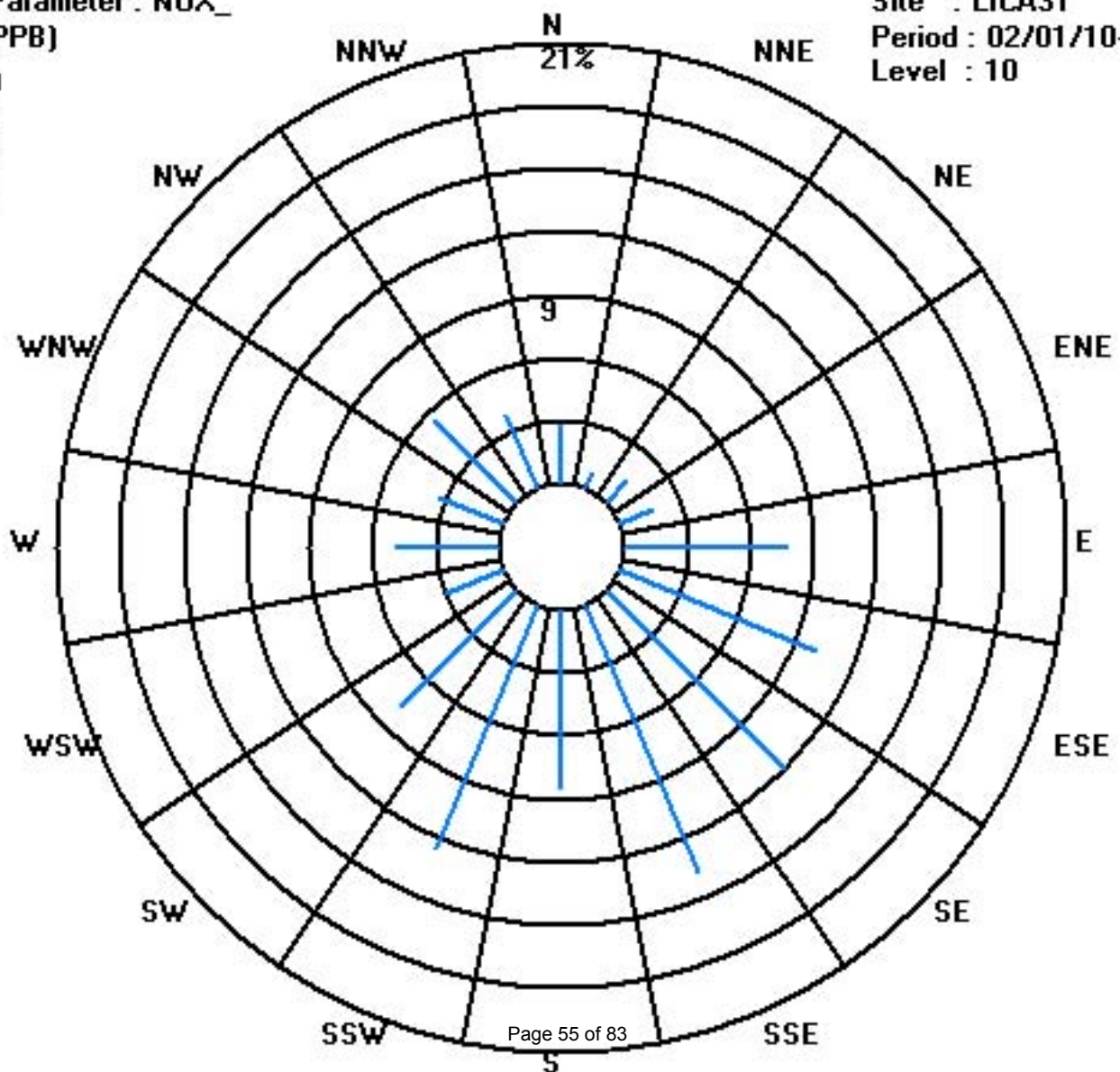
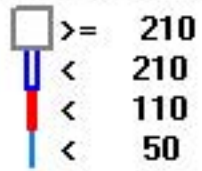
Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	18	5	9	11	49	64	76	88	54	80	50	19	31	21	35	24	634
< 110																	
< 210																	
>= 210																	
Totals	18	5	9	11	49	64	76	88	54	80	50	19	31	21	35	24	

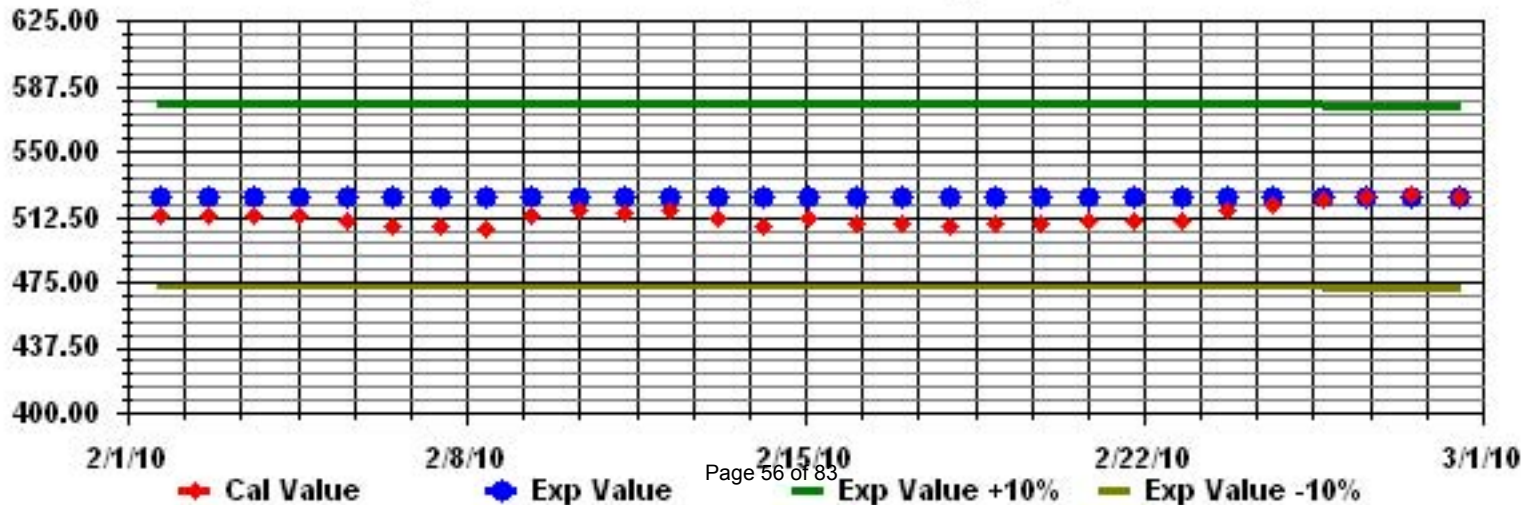
Calm : .00 %

Total # Operational Hours : 634

Class Limits (PPB)



Calibration Graph for Site: LICA31 Parameter: NOX_ Sequence: NO2 Phase: SPAN



Vector Wind Speed

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION -ST. LINA

FEBRUARY 2010

WIND SPEED hourly averages (km/hr)

MST

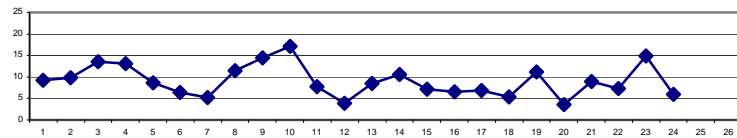
HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR		
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.	
DAY																												
1	10.5	11.9	10.2	10.5	8	8.6	7.8	7.3	7.3	7.6	7.1	4.6	3.9	5.1	4.8	3.6	3.8	3.4	1.4	3.6	2.4	3	4.1	5.4	11.9	5.2	24	
2	2.1	3.7	3.7	4.2	5.5	5.1	5.1	2.7	3.8	3	1.5	4.2	6.1	7.4	6.5	5.7	3.2	4.1	5.7	6.2	5.6	4.5	2.7	2.6	7.4	2.7	24	
3	4.6	5.4	6.1	5.6	5.3	6.1	9.2	9	6.5	6.1	6.8	9.9	5.6	6.5	6.5	6.5	6.5	5.7	4.3	4.7	4	5.6	6.2	8.4	9.9	5.4	24	
4	11.1	10.2	8.8	8	12.3	10.9	10.5	11.2	12	10.6	11	10.5	11.4	9.7	8.2	8.2	7.2	6.3	6.8	7.2	8.1	7.2	7.3	7	12.3	9	24	
5	7.6	7.9	7.6	7.8	7.3	8.2	9	8.5	6.8	8.3	9.2	8.3	10.2	10.3	11.7	10.9	7.6	10.2	10.6	12.4	12.2	12.6	14.3	12.6	14.3	9.3	24	
6	10.6	10.9	11.4	10.4	9.9	9.4	6.8	8.5	8.9	6.6	7.6	10.5	10.1	8.2	10.8	10.5	9.5	13.3	12.2	12.2	10.4	9.7	10.3	11.6	13.3	9.8	24	
7	12.3	11.6	13.9	12.2	12	12.7	13.4	12.8	13.3	14.2	13.9	15.4	15.9	15.1	12.8	13.3	14.3	15.8	16.7	14.5	15	15.1	14.7	16.2	16.7	13.6	24	
8	16.6	17.8	15.8	15.1	13.1	15.1	12	14.3	13.2	12.6	13.7	14.1	14.7	13.8	13.7	14.2	12.4	11.2	10.4	10.8	9.3	10.5	10.5	11.9	17.8	13.1	24	
9	12	11.1	9.3	9	8.9	8.7	8.2	7.8	6.4	7.4	7.2	8.1	8	7.2	8.2	9.5	8.8	9.9	10.1	10.2	10.8	10	10.8	9.4	12	8.7	24	
10	9.3	8.4	8.4	9	8.8	9	7.7	7.9	7.7	8.1	8.2	6.8	5.4	5.5	4.6	5.4	5.1	6	6.1	6.6	6.4	8.4	9.3	10.2	10.2	6.4	24	
11	10.8	11.5	11.3	11	10.3	10.1	9.8	8.4	4.9	6.9	7.6	6.7	5.8	6	5.6	5.2	6.1	8.9	10.1	9.8	8.7	7.5	7.2	8.4	11.5	5.2	24	
12	11.1	11.3	11.6	9.9	11.3	9.8	8.5	9.6	12.2	12.3	12.2	11.7	10.1	12.1	13.3	14.1	12	12.7	13.2	14.9	12.6	13.5	15.5	13.9	15.5	11.5	24	
13	13.6	14.3	15.3	11.1	12	12.1	13	12.2	12.2	13	14.7	16.1	18.4	14.6	14.6	14.2	15.4	13.4	16.4	15.7	17.7	18.1	19.2	17	19.2	14.4	24	
14	17.8	17.4	17.8	16.6	17.7	16.2	15.8	16.3	16.7	17.1	19.3	20.4	20.2	19.4	17.8	16.3	15.9	15.9	15	16.6	19.3	19.7	16.7	12.3	20.4	17.1	24	
15	11.1	10.4	9.6	10.2	10.8	N	10.5	10	8.7	7.9	11.4	12.1	9.4	7.8	5.9	5.5	7.1	7	9.4	11.6	9.8	10.2	10.1	9.2	12.1	7.7	23	
16	9.2	10	7.5	8.2	5.5	6.1	4	5.1	4.6	2.7	1.6	2.3	2.6	5.4	5.9	5.3	3.6	1.7	3.3	6.1	9.2	8.9	7.3	7.3	10	3.8	24	
17	6.5	6.3	8.1	10.4	10.7	N	10	8.2	9.1	9.7	9.2	9.2	9.1	8	8.1	10.9	9	7	7.5	10.5	12.7	15.1	13.5	13.8	15.1	8.5	23	
18	13.1	14.2	15.5	15	13.9	12.5	10.5	10	8.6	8.4	6.7	6.8	10.2	12.9	10.9	9.2	9.7	8.9	12	11.9	12	12	10.9	8.2	15.5	10.5	24	
19	9.8	10.9	13.9	11.4	12.7	12.2	13.2	13.4	10.5	9.4	9.2	7.1	8	8.4	7.2	7.2	9.4	8.4	9.5	6.5	8.4	8.4	7.2	7.5	13.9	7.1	24	
20	5.2	2.4	3.2	3.3	2.1	1.8	3.6	4.1	4.7	5.3	7.4	8.8	9.8	8.8	10.4	10.2	10.3	11.7	9.6	11.7	11	13.9	16.6	16.8	14.6	16.8	6.5	24
21	14.4	15.7	14.2	10.5	13.4	16	18.2	20.5	15.5	15.9	13.8	15	10	8.8	9.3	8.8	3.9	9.2	13.9	15.2	14.3	13.8	13.7	12.4	20.5	6.9	24	
22	9.7	10.8	12.4	9.7	10.4	8.7	7.3	6.7	8.6	9.4	10.6	7.4	5.4	7.2	5.7	6.3	3.8	4.7	2.9	1.9	3.6	4.1	5.8	6	12.4	5.3	24	
23	5.4	6.3	7.5	7.8	8.8	10.6	9.8	9.2	8.5	10.7	10.1	13.3	13.4	14.3	15.2	13.3	16.2	13.9	12.6	12.1	12.8	14.5	13	11.8	16.2	11.2	24	
24	11.4	10.3	10.4	9.8	10.1	7.8	7.3	6.7	8.8	9.6	8.3	7.9	4.7	4.1	5.6	6	6.8	6.6	6.6	8.1	8.4	9.6	8.9	8.6	11.4	3.6	24	
25	9.1	7.9	8.4	7.5	10.9	13.4	11.6	7.6	11.2	12	12.7	13.2	15.4	15.8	16.2	14.8	13.1	10.8	12	11.8	13.8	12.6	13.1	11	16.2	8.9	24	
26	11.3	11.1	11.8	11.1	9.8	10.7	10.5	10.5	11.4	10	6.5	4.1	4.7	6.5	7.9	7.9	6.8	10	12.6	10.4	9.7	9.1	10.5	13.5	13.5	7.3	24	
27	12.4	12.6	14.9	15.3	16.6	12.2	11	15.3	14.3	13.8	18.4	19	16.8	16.4	17.7	15.6	14.5	15	15.6	17.9	18.7	16.7	16.5	14.6	19	14.9	24	
28	12.9	11.5	12.4	9.9	9.4	5.4	4.3	7	4.8	2.4	4.9	3.6	3.4	7.2	7.1	8.4	9	8.8	9.4	10	10.5	10.5	10.5	9.5	12.9	6	24	
HOURLY MAX	17.8	17.8	17.8	16.6	17.7	16.2	18.2	20.5	16.7	17.1	19.3	20.4	20.2	19.4	17.8	16.3	16.2	15.9	16.7	17.9	19.3	19.7	19.2	17.0				
HOURLY AVG	10.4	10.5	10.8	10.0	10.3	10.0	9.6	9.7	9.3	9.3	9.7	9.9	9.6	9.8	9.7	9.5	9.0	9.2	9.9	10.4	10.7	11.0	11.0	10.5				

STATUS FLAG CODES

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

LAST CALIBRATION: February 3, 2009

24 HOUR AVERAGES FOR FEBRUARY 2010



MONTHLY SUMMARY

MAXIMUM 1-HR AVERAGE:	20.5	KPH	@ HOUR(S)	7	ON DAY(S)	21
MAXIMUM 24-HR AVERAGE:	17.1	KPH			ON DAY(S)	14
CALMS (≤ 0 KPH)	0.00	%	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME	99.7	%	
STANDARD DEVIATION	3.85		MONTHLY AVERAGE	9.99	KPH	

01 Hour Averages



— LICA31 WSP KPH

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - ST. LINA

FEBRUARY 2010

VECTOR WIND SPEED MAX instantaneous maximum in km/hr

MST		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 START	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		22.2	22.7	20.1	18.6	15.8	17.7	15.3	13.7	15.1	14.3	13.6	12.7	15.5	14.7	15.3	33.1	32.2	34.4	88	29.4	17.5	4.1	5.4	7.9	88	
2		12.3	29.6	29.2	41.1	20.3	20.5	18.4	66.8	74.4	16	9.7	10.6	14.9	18.8	17.5	17.1	32.2	17.9	7.5	14.8	20.1	6.3	40.2	29.6	74.4	
3		20.3	15.6	12.1	11	12.7	12.3	17.3	16.2	16.4	17.5	14.2	23	16.2	14.5	15.8	14.9	14.4	14.5	17.7	13.6	12.3	13	15.3	17.7	23	
4		22.9	20.9	16.4	15.8	26.8	21	21.8	23.3	23.3	22.9	26.6	19.7	21.2	19.7	16.6	18.4	15.3	9.9	11.7	11.2	15.6	13.2	15.8	13.2	26.8	
5		16	16.4	15.8	14.6	15.8	15.5	18.1	18.9	14.3	18.8	17.9	18.5	19.2	20.1	22	20.7	15.1	17.7	20.5	22.9	27	22.7	26.1	24.2	27	
6		22.2	20.1	20.5	19.4	18.5	16.9	12.5	14.6	14.6	11	16.4	17.9	21.2	19.4	23.7	20.3	18.6	25.5	23.8	22.7	21.4	19.7	22.2	22.7	25.5	
7		23.1	27.6	26.6	24	24.8	22.7	27.2	26.3	27.2	25.5	26.6	33.3	30.9	26.3	27.7	25.8	26.4	32.2	31.1	32.6	29.8	29.4	28.5	37.4	37.4	
8		34.6	34.8	28.1	28.8	24.2	31.9	23.1	24.6	26.4	22.7	29	27.7	26.5	26.4	33.1	29.8	23.3	21	20.1	19.9	18.1	23.5	17.7	23.7	34.8	
9		24.9	20.3	18.2	20.3	17.3	15.1	17.1	15.6	13.8	14.2	17.3	17.3	16.4	16	19.4	20.5	16.9	20.1	23.1	17.7	19.7	18.1	15.6	13.4	24.9	
10		13.4	12.3	10.4	12.1	12.1	13.2	11	11.1	10.6	11.4	11.2	9.9	18.1	14.9	13.2	13.4	12.1	11.2	15.1	15.1	14.7	20.7	18.8	19.9	20.7	
11		24.8	21.8	22.5	27	19	18.4	18.8	16.2	15.8	11.2	10.4	10.5	12.5	12.7	9.7	12.7	13.3	20.5	18.8	17.9	18.1	15.9	17.1	16.2	27	
12		18.1	18.1	18.2	22.5	23.1	21.8	19.4	20.7	23.3	23.8	23.1	24.2	20.1	27.6	26.9	26.8	23.3	24.2	25.9	28.5	26.3	25.7	29.2	29.6	29.6	
13		30	32.2	33.7	21.2	23.3	22	22	25.4	22.7	24.4	28.3	32.9	32.9	28.1	24.9	26.8	28.3	24.4	32.6	32.4	30.5	31.8	34.4	31.1	34.4	
14		37.6	33.1	33.5	30.7	34.4	29.8	29.4	30.3	35	31.4	35.2	42.4	40.6	36.5	34.6	35.2	32.8	30.7	32.4	29.4	39.6	33.1	30	22.3	42.4	
15		19.7	18.4	17.2	21.2	23.3	N	17.7	16.6	13	11.9	16.6	18.6	14.9	11.2	9.3	9.4	10.8	10.3	14.5	15.3	24.2	18.1	14.2	17.3	24.2	
16		16.6	18.4	14.9	13.4	13.8	14.2	17.7	18.8	13.4	12.5	9.5	12.1	10.8	11.6	10	8	6.3	3	5.8	9.2	11.6	16	14	11.9	18.8	
17		10.6	14.7	14.9	20.7	18.6	N	16	16.4	16.9	18.4	14	11.4	11.6	12.5	25	22.7	14.5	14.5	14.9	21.6	25.9	26.6	25.5	26.8	26.8	
18		25.5	28.1	27.6	25.7	25.5	23.1	19.4	20.3	17.5	18.4	14.9	13.2	22.8	25.5	25.9	25	20.9	16.2	21.5	27	27.9	26.6	25.3	21.2	28.1	
19		17.9	24.2	25.1	21.6	20.3	19.9	22.2	23.8	25.9	23.8	23.5	21.4	24	23.1	21.8	20.1	24.2	21	27.4	16.6	17.7	16	15.5	13.8	27.4	
20		15.6	12.3	15.3	32.9	12.5	70.7	15.5	10.6	11	14.2	15.3	20.3	17.5	20.7	18.1	17.3	16.6	13.6	20.7	16.9	21.3	26.4	25.7	25.7	70.7	
21		25.9	25.7	27	21.2	26.8	30.7	31.8	37.4	30	29.6	24.6	28.1	17.7	16.2	16.2	14.7	12.5	21.4	31.8	36.2	31.1	34.4	37.4	32.2	37.4	
22		26.1	27.9	30.5	23.5	26.8	25.1	20.1	20.3	22.5	22.2	24.8	21.8	16.6	21.2	18.4	19	17.9	18.2	12.7	11.1	15.1	13.4	15.1	14.5	30.5	
23		10.8	14.9	16.2	14	18.2	19.9	19.7	18.6	16.9	24.2	23.6	26.6	28.5	30.5	33.1	35.2	33.1	30.3	27.2	25.9	24.6	31.1	28.5	25.3	35.2	
24		24.6	23.8	19.2	20.7	20.7	14.5	14.3	15.1	17.1	18.1	14.5	14.5	8.2	13.6	13.2	17.1	16.8	18.4	16.8	14.9	14.7	16.4	15.8	17.5	24.6	
25		21.4	16.2	14	16.2	16.2	20.5	21.2	16.6	24.6	28.3	25.7	32.8	35.2	33.9	33.5	25.7	22.7	20.1	21.2	27.2	28.7	21.6	24.8	19.3	35.2	
26		22.7	17.5	20.7	20.1	13.6	19.2	17.9	14.5	19.1	16	16.2	8.8	9.1	14.5	15.5	14.7	14.2	17.1	21.6	18.4	16.8	16.6	22.2	23.3	23.3	
27		24.8	27	28.3	36.7	27.2	24.2	20.3	30.7	28.5	32.2	33.3	34.6	36.3	32.2	36.7	32.8	37.2	28.9	32.8	33.9	34.1	32.2	30.2	28.3	37.2	
28		26.8	23.7	26.6	22.5	17.1	11.9	12.9	15.3	14.2	14.2	10.8	14.7	10.6	14.5	13.4	13.7	15.3	14	15.8	16.4	15.5	14.2	14.5	14.9	26.8	
PEAK		37.6	34.8	33.7	41.1	34.4	70.7	31.8	66.8	74.4	32.2	35.2	42.4	40.6	36.5	36.7	35.2	37.2	34.4	88.0	36.2	39.6	34.4	40.2	37.4		

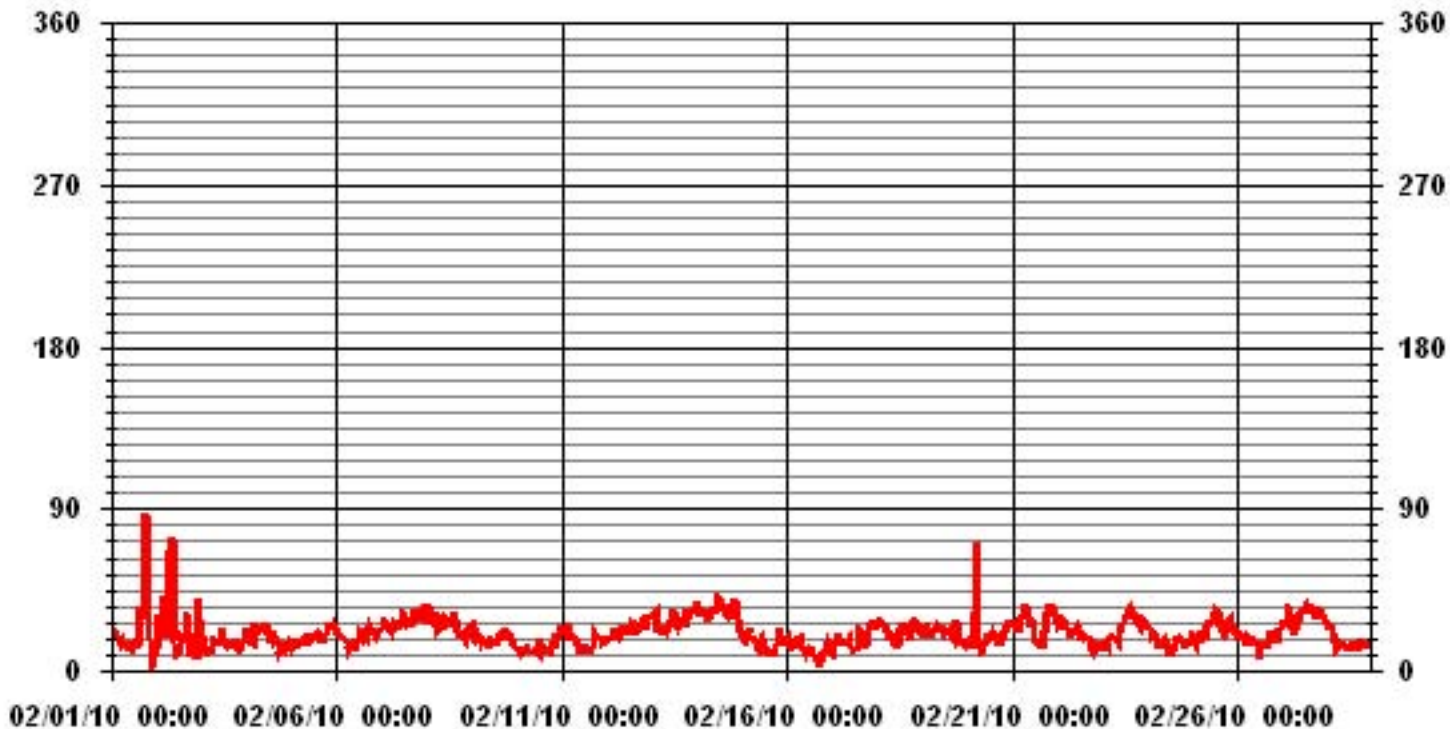
STATUS FLAG CODES

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

MAXIMUM INSTANTANEOUS READING	88	KPH	@ HOUR(S)	18
			ON DAY(S)	1

01 Hour Averages



— LICA31 WSMAX KPH

LICA31
WSP / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 31
Site Name : LICA31
Parameter : WSP
Units : KPH

Wind Parameter : WDR
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	.14	.44	.89	.59	1.19	1.49	1.19	.74	.14	1.64	1.79	.89	1.19	.89	.74	1.04	15.07
< 12.0	2.08	.29	.44	1.04	3.88	3.58	4.77	5.37	7.31	8.20	4.62	1.94	3.88	1.49	3.28	1.94	54.17
< 20.0	.59	.00	.00	.14	2.68	4.92	5.52	7.61	1.94	2.38	1.19	.00	.00	1.04	1.49	.74	30.29
< 29.0	.00	.00	.00	.00	.00	.00	.29	.00	.00	.00	.14	.00	.00	.00	.00	.00	.44
< 39.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 39.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.83	.74	1.34	1.79	7.76	10.00	11.79	13.73	9.40	12.23	7.76	2.83	5.07	3.43	5.52	3.73	

Calm : .00 %

Total # Operational Hours : 670

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	3	6	4	8	10	8	5	1	11	12	6	8	6	5	7	101
< 12.0	14	2	3	7	26	24	32	36	49	55	31	13	26	10	22	13	363
< 20.0	4			1	18	33	37	51	13	16	8			7	10	5	203
< 29.0							2				1						3
< 39.0																	
>= 39.0																	
Totals	19	5	9	12	52	67	79	92	63	82	52	19	34	23	37	25	

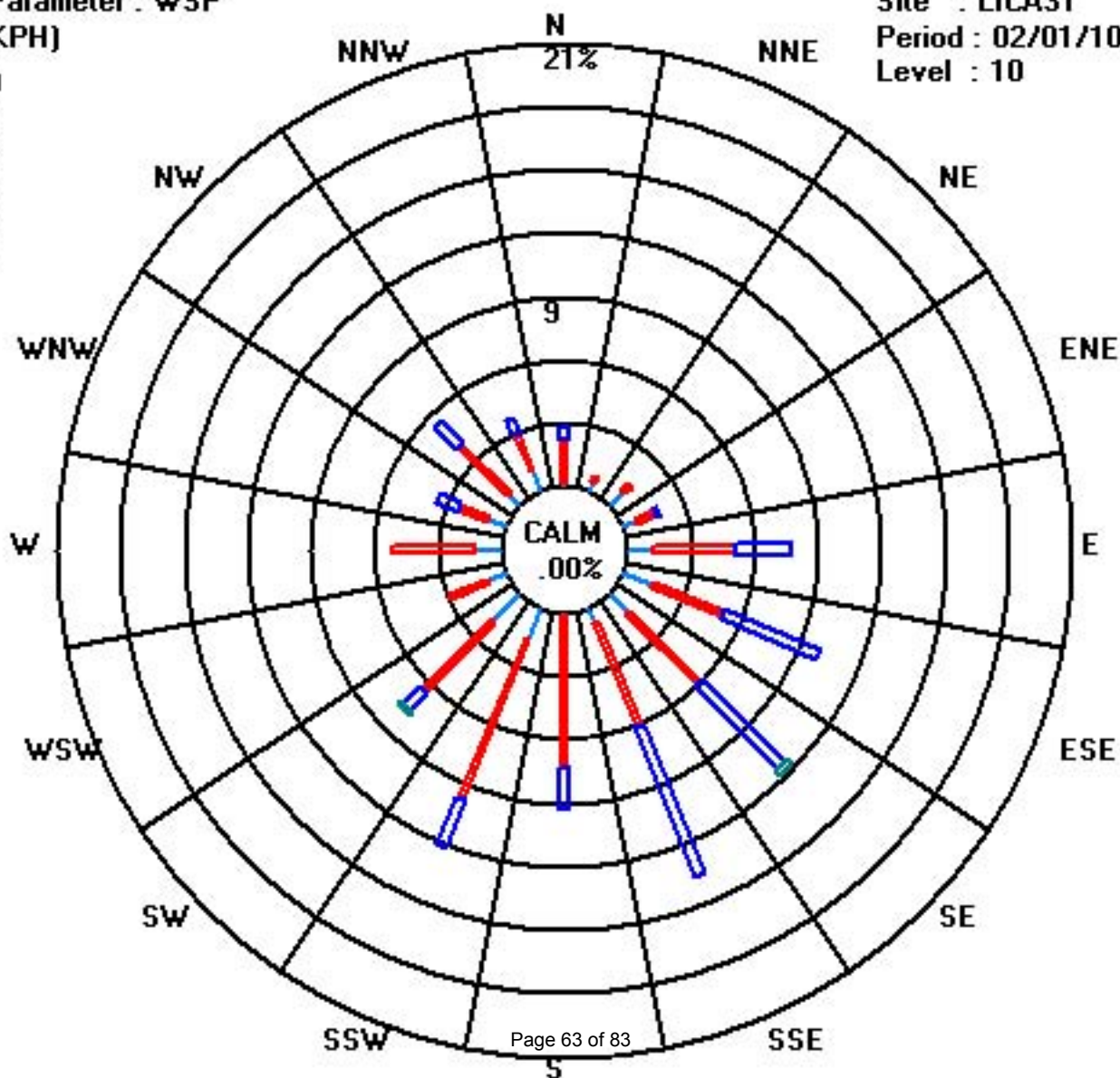
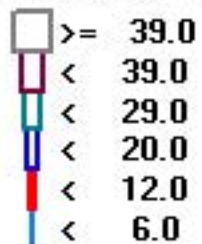
Calm : .00 %

Total # Operational Hours : 670

Class Limits (KPH)

Period : 02/01/10-02/28/10

Level : 10



Vector Wind Direction

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION -ST. LINA

FEBRUARY 2010

WIND DIRECTION hourly averages in degrees

MST

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.	QUADRANT	RDGS.			
DAY																														
1	134	138	136	138	137	133	143	132	137	148	145	143	108	107	82	82	107	73	151	71	59	55	41	43	122	ESE	24			
2	250	258	310	280	334	348	345	300	297	268	236	228	231	267	278	261	276	254	238	262	15	43	84	129	283	W	24			
3	106	159	143	140	115	136	161	157	149	153	148	164	153	101	81	104	97	100	88	86	101	144	173	181	134	SE	24			
4	182	173	170	172	167	171	168	161	162	167	163	167	165	170	195	185	171	142	151	156	164	176	159	150	167	SSE	24			
5	151	163	154	136	145	123	133	139	130	134	135	128	111	121	128	121	109	115	117	113	115	110	110	99	124	ESE	24			
6	95	101	90	90	94	98	102	87	86	85	90	96	101	115	119	120	113	106	113	106	113	109	119	120	103	ESE	24			
7	117	127	134	131	123	111	119	117	122	131	137	147	128	132	134	126	125	131	134	144	151	153	155	162	133	SE	24			
8	159	165	160	159	158	158	151	157	155	156	157	151	150	150	149	151	153	151	152	142	149	156	156	164	154	SSE	24			
9	165	165	161	166	173	178	180	179	194	188	192	182	194	196	182	185	195	191	190	198	193	200	208	207	185	S	24			
10	211	216	217	214	213	212	214	211	217	243	231	225	264	306	287	267	260	309	280	278	273	247	253	273	241	WSW	24			
11	274	268	281	280	276	273	274	274	268	219	213	208	208	200	202	196	185	185	183	176	172	159	115	107	225	SW	24			
12	76	67	56	70	72	74	85	84	89	92	91	93	95	107	109	101	93	98	114	107	116	108	111	127	94	E	24			
13	136	133	128	120	130	117	131	134	140	150	148	151	152	146	143	142	149	147	146	150	151	160	161	156	143	SE	24			
14	159	152	153	154	148	156	150	139	135	150	138	142	146	144	143	133	138	146	144	150	159	161	156	152	147	SE	24			
15	152	150	145	174	177	N	206	204	210	205	218	224	216	212	215	210	215	202	221	250	256	263	264	258	211	SSW	23			
16	265	272	278	300	295	268	320	17	3	15	52	108	193	221	227	220	228	241	222	209	238	268	292	296	268	W	24			
17	298	269	237	270	288	N	283	262	232	238	238	222	223	233	268	250	244	256	290	292	296	300	300	302	268	W	23			
18	305	300	297	299	304	305	317	325	313	313	308	311	323	307	322	337	324	315	324	332	346	348	351	334	317	NW	24			
19	303	303	306	312	314	315	317	325	344	357	356	357	5	356	351	342	326	331	2	88	87	86	75	55	342	NNW	24			
20	46	75	98	112	126	107	112	128	142	166	209	207	222	232	227	219	225	218	200	215	218	214	218	218	207	SSW	24			
21	217	217	216	208	204	205	212	216	211	205	202	209	202	203	215	221	282	321	339	345	349	353	0	351	233	SW	24			
22	344	343	347	335	355	357	21	343	334	342	353	349	333	351	345	3	346	345	311	288	193	198	192	199	342	NNW	24			
23	203	189	182	186	180	192	204	191	180	190	198	201	202	199	188	188	199	190	196	196	192	188	183	192	192	S	24			
24	182	174	177	182	175	178	178	215	213	212	223	217	217	244	305	318	324	338	324	325	317	324	320	321	239	WSW	24			
25	13	38	71	96	105	100	106	143	181	174	177	179	180	180	181	167	173	157	168	178	178	197	192	197	161	SSE	24			
26	188	187	197	193	207	193	183	191	197	199	210	197	203	178	152	149	126	95	101	131	134	136	98	98	163	SSE	24			
27	91	91	93	91	103	95	81	78	91	100	99	103	118	118	121	118	119	122	117	119	126	124	121	123	108	ESE	24			
28	125	119	128	128	141	127	109	104	183	155	217	230	225	215	221	213	200	199	195	202	210	213	209	205	178	S	24			
HOURLY AVG	344	343	347	335	355	357	345	343	344	357	356	357	333	356	351	342	346	345	339	345	349	353	351	351						

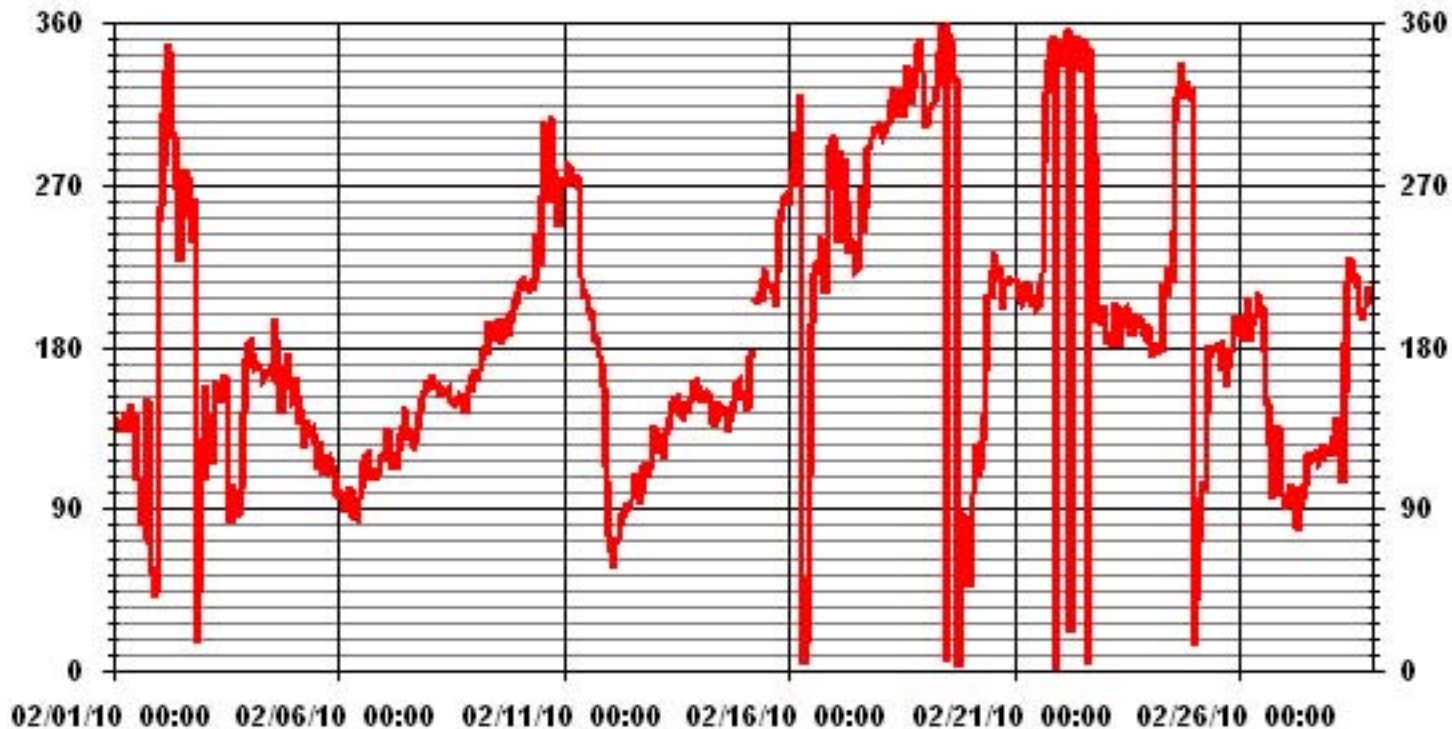
STATUS FLAG CODES

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

LAST CALIBRATION:	February 3, 2009
DECLINATION :	19 DEGREES FROM MAGNETIC NORTH

MONTHLY CALIBRATION TIME:	0 HRS	OPERATIONAL TIME:	670 HRS
STANDARD DEVIATION	77.73	AMD OPERATION UPTIME	99.7 %
		MONTHLY AVERAGE	162 DEG

01 Hour Averages



— LICA31 WDR DEG

Standard Deviation Wind Direction

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - ST.LINA

FEBRUARY 2010

STANDARD DEVIATION WIND DIRECTION (STDWDIR) hourly averages in degrees

MST		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 START	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		12	11	11	11	12	12	11	12	12	13	12	23	27	16	14	25	18	17	48	12	22	7	7	6
2		29	15	14	34	11	21	16	27	14	19	46	10	10	18	21	16	15	15	6	7	14	7	15	27
3		20	24	16	15	13	16	9	10	19	16	14	11	30	14	12	12	10	10	12	13	10	11	11	12
4		13	13	13	13	12	13	13	11	12	13	12	14	12	12	16	13	12	8	8	7	11	12	12	13
5		14	12	16	13	15	13	12	15	14	16	15	17	14	16	13	12	9	9	10	11	12	10	9	9
6		9	9	9	10	11	11	11	10	10	11	11	11	12	14	14	14	12	11	12	12	12	12	12	12
7		12	12	13	13	12	12	13	12	13	12	13	14	12	12	14	13	12	11	12	12	12	12	13	11
8		11	11	10	10	10	10	11	10	12	13	12	11	12	13	13	12	11	10	10	10	10	10	9	9
9		9	9	12	11	10	10	10	11	11	11	14	14	15	15	16	13	10	9	9	8	10	8	6	6
10		5	5	2	4	4	5	4	5	3	10	6	6	16	21	24	16	12	9	9	10	9	5	3	8
11		9	7	10	10	9	9	8	13	30	8	5	6	13	11	9	15	14	8	6	4	6	10	12	9
12		8	9	8	11	11	12	13	12	11	11	11	13	15	14	15	13	12	11	14	12	13	12	12	14
13		14	13	12	11	11	9	10	10	11	13	13	13	11	13	13	13	11	11	11	11	10	9	8	9
14		8	11	11	11	11	11	10	12	12	12	11	12	12	12	13	12	11	11	12	11	9	9	9	10
15		10	10	10	9	9	N	7	8	6	6	5	4	5	6	9	10	7	7	4	4	4	4	5	3
16		5	7	7	9	14	10	15	12	12	13	37	31	23	9	5	6	9	6	7	4	3	7	8	8
17		9	9	9	6	8	N	8	8	6	5	5	4	5	8	15	7	6	7	9	11	10	11	11	11
18		11	11	10	10	11	10	9	10	11	11	16	15	15	13	15	17	13	10	10	11	14	14	14	12
19		8	8	10	10	8	9	9	10	15	19	17	22	21	19	24	21	14	14	16	18	10	10	12	12
20		17	40	27	18	49	26	19	20	22	23	24	16	16	13	14	11	6	6	8	6	6	7	8	9
21		9	8	8	11	11	11	9	8	9	10	11	11	12	12	10	9	17	12	13	17	16	16	15	16
22		19	15	16	15	17	20	15	17	16	18	18	20	34	23	26	17	20	21	14	31	18	13	8	5
23		5	7	7	9	10	11	11	12	13	14	13	13	12	13	14	14	13	13	13	12	13	13	14	13
24		14	14	13	15	14	12	15	18	12	11	14	9	11	24	21	18	16	15	11	9	8	8	9	9
25		7	6	7	5	6	4	8	11	10	12	11	12	13	12	13	12	11	9	10	10	9	10	10	9
26		9	8	10	7	6	5	8	6	7	8	11	16	20	18	16	14	14	7	8	11	10	10	8	8
27		7	9	7	8	8	10	10	9	9	9	10	10	13	14	13	13	14	11	11	12	12	11	11	12
28		12	13	12	12	11	12	9	9	23	35	18	33	38	16	12	10	10	8	8	7	5	4	4	6

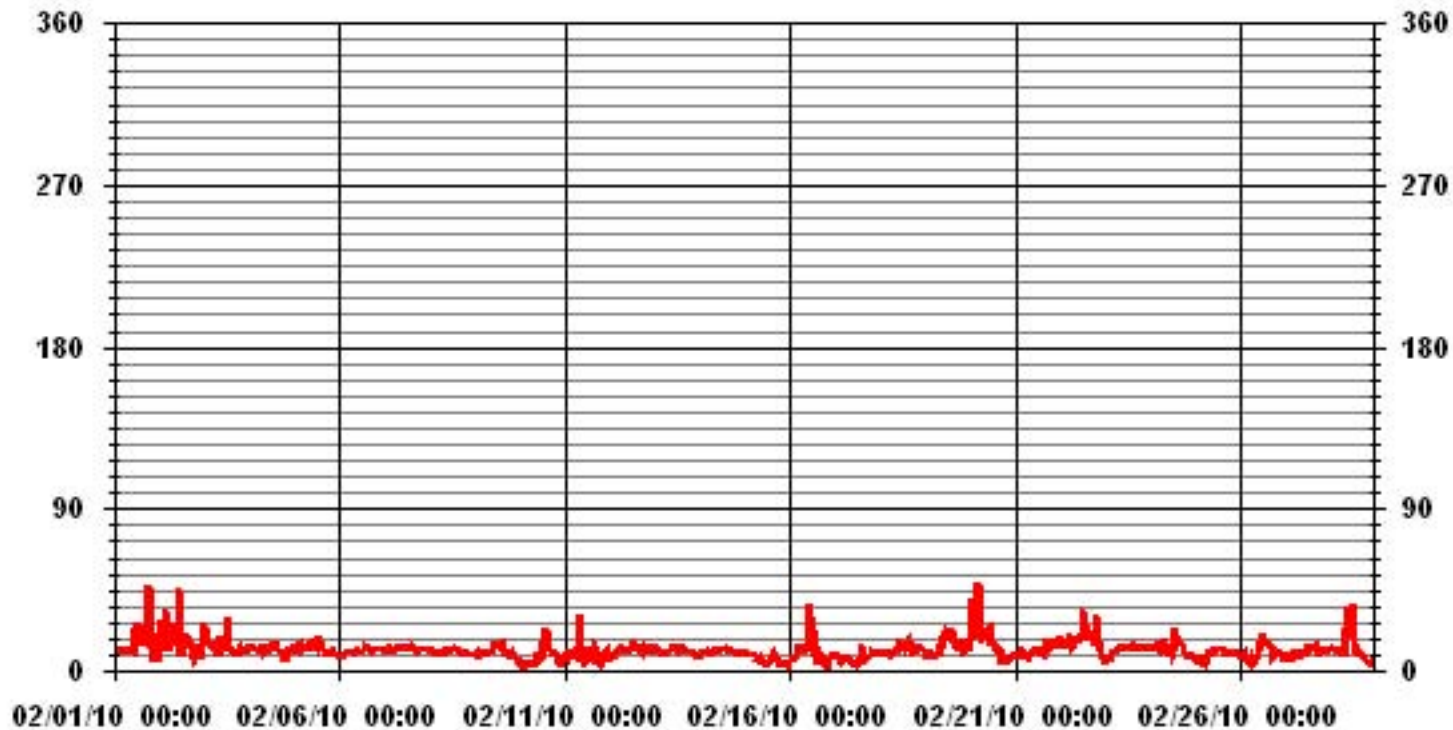
STATUS FLAG CODES

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

LAST CALIBRATION: February 3, 2009

CALIBRATION TIME: 0 HRS OPERATIONAL TIME: 670 HRS

01 Hour Averages



Calibration Reports

Sulphur Dioxide

SO₂ Calibration Report

Station Information

Calibration Date	February 25, 2010	Previous Calibration	January 21, 2010
Company	LAKELAND INDUSTRY & COMMUNITY ASSOCIATION		
Plant / Location	ST. LINA		
Start Time (MST)	9:41	End Time (MST)	13:52
Reason:	Monthly Calibration		
Barometric Pressure	698 mmHg	Station Temperature	23 Deg C
Cal Gas	52.2 ppm	Cal Gas Expiry date	12/19/2010
DAS Output Voltage	0 - 1 Volts		

Equipment Information

Analyzer Make / Model:	API 100E	S/N :	468	Method:	Fluorescent
Converter Make / Model:	-	S/N :	-		
Calibrator Make / Model:	Enviroics 2000	S/N :	1991	Method:	Dilution
DAS Make / Model:	ESC 8832	S/N :	AO717		
Flow Meter:	Enviroics 2000	S/N :	1991		

Analyzer Settings

Before Calibration		After Calibration	
Concentration Range	0 - 1000 ppb		
Sample Flow / Box Temp	555 ccm 30.6 Deg C	554 ccm 31.7 Deg C	
HVPS / Lamp Setting	556 2564	529 2567	
PMT / RxCell Temp	7.8 Deg C 501 Deg C	7.9 Deg C 50 Deg C	
Converter / IZS Temp	NA Deg C 40 Deg C	NA Deg C 40 Deg C	
Offset / Slope	58.4 1.113	58 1.103	

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
3005	0	0	0	N/A
3005	0	0	0	N/A
2965	43.7	758	764	0.9924
2965	43.7	758	757	1.0016
2984	23.3	404	401	1.0086
3000	11.7	203	200	1.0139
3010	0	0	1	N/A
Sum of Least Squares				1.0037
New Correction Factor				1.0016

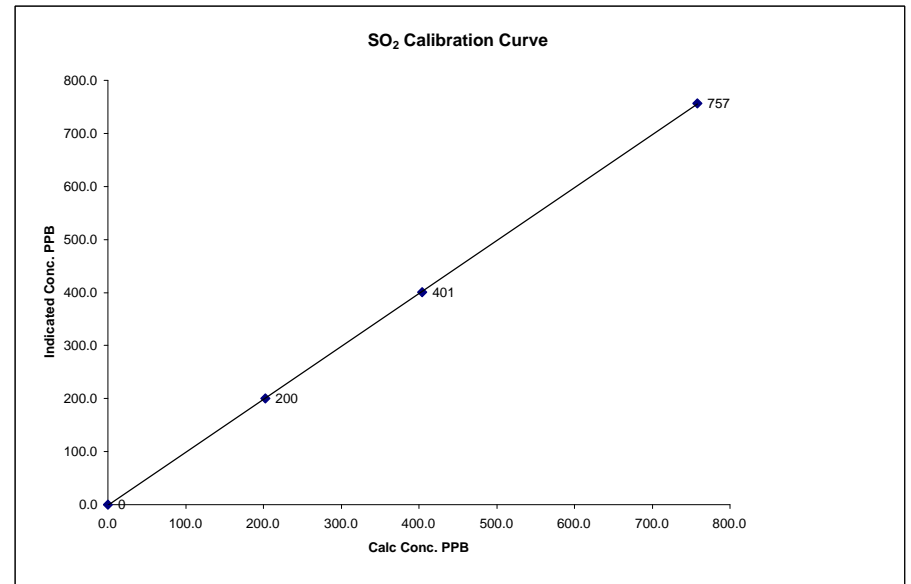
	Before Calibration	After Calibration
Auto Zero	0.1	-0.2
Auto Span	353	345
Sample Lines Connected		YES
Percent Change from Previous Calibration		0.7%

Calibration Performed by: Shea Beaton

SO₂ Calibration Curve

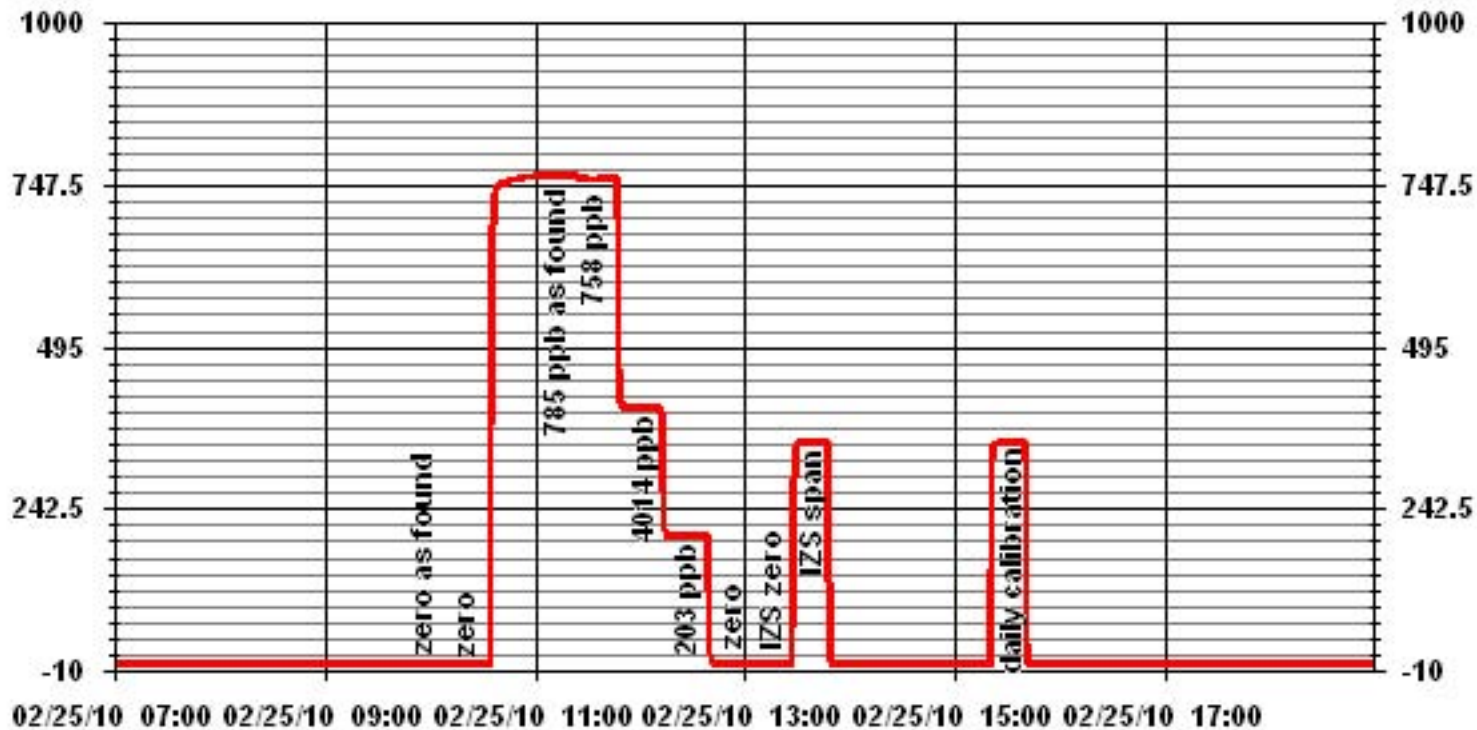
Calibration Date	February 25, 2010
Company	LAKELAND INDUSTRY & COMMUNITY ASSOCIATION
Plant / Location	ST. LINA
Start Time (MST)	9:41
End Time (MST)	13:52

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope	(≥ 0.995) (0.85 to 1.15)	0.999978
0	0	n/a	Intercept	(± 3% F.S.)	-1.500169
203	200	1.0139			
404	401	1.0086			
758	757	1.0016			



Notes: As Found zero was zero on the DAS, but -0.2 on the analyzer, adjusted the zero.

01 Minute Averages



Hydrogen Sulphide

H₂S Calibration Report

Station Information

Calibration Date	February 25, 2010	Previous Calibration	January 20, 2010
Company	LAKELAND INDUSTRY & COMMUNITY ASSOCIATION		
Plant / Location	ST.LINA		
Start Time (MST)	9:41	End Time (MST)	16:20
Reason:	Monthly Calibration		
Barometric Pressure	698 mmHg	Station Temperature	23 Deg C
Cal Gas	10.8 ppm	Cal Gas Expiry date	06/22/2010
DAS Output Voltage	0 - 1 Volts		

Equipment Information

Analyzer Make / Model:	API 101E	S/N :	510	Method:	Fluorescent
Converter Make / Model:	Internal	S/N :	N/A		
Calibrator Make / Model:	API 700	S/N :	831	Method:	Dilution
DAS Make / Model:	ESC 8832	S/N :	AO717		
Flow Meter:	API 700	S/N :	831		

Analyzer Settings

		Before Calibration		After Calibration	
Concentration Range		0 - 100		ppb	
Sample Flow / Box Temp	541 ccm	36 Deg C	540	34.7	Deg C
HVPS / Lamp Setting	534	2329	534	2348	
PMT / RxCell Temp	8.5 Deg C	50 Deg C	8.4	50	Deg C
Converter / IZS Temp	314.6 Deg C	45 Deg C	315.3	45	Deg C
Offset / Slope	53.7	0.961	55.3	0.912	

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
4995	0	0	0	N/A
4960	37	80	81	0.9873
4995	0	0	0	N/A
4960	37	80	80	0.9996
4975	20.8	45	45	0.9992
4986	11.6	25	25	1.0027
4997	0	0	0	N/A
Sum of Least Squares				0.9997
New Correction Factor				0.9996

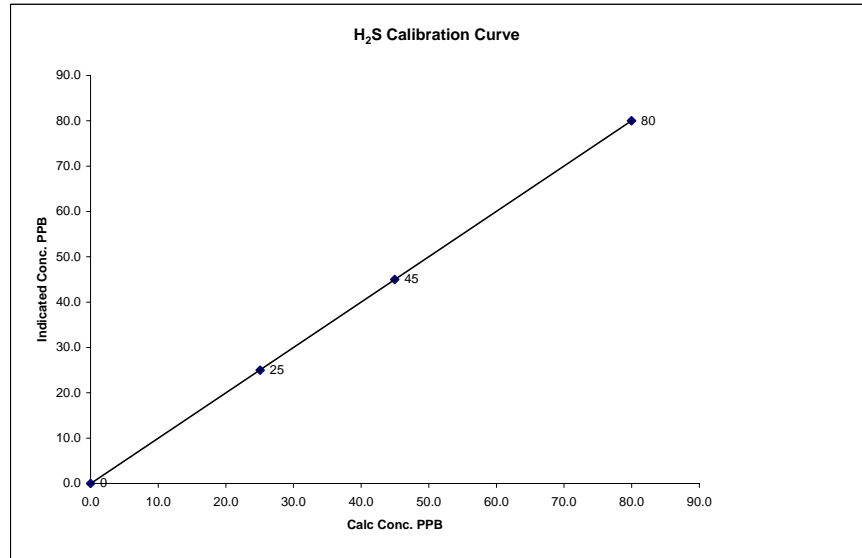
		Before Calibration	After Calibration
Auto Zero		0.7	0.3
Auto Span		55.0	53.0
Sample Lines Connected			YES
Percent Change from Previous Calibration			1.2%

Calibration Performed by: Shea Beaton

H₂S Calibration Curve

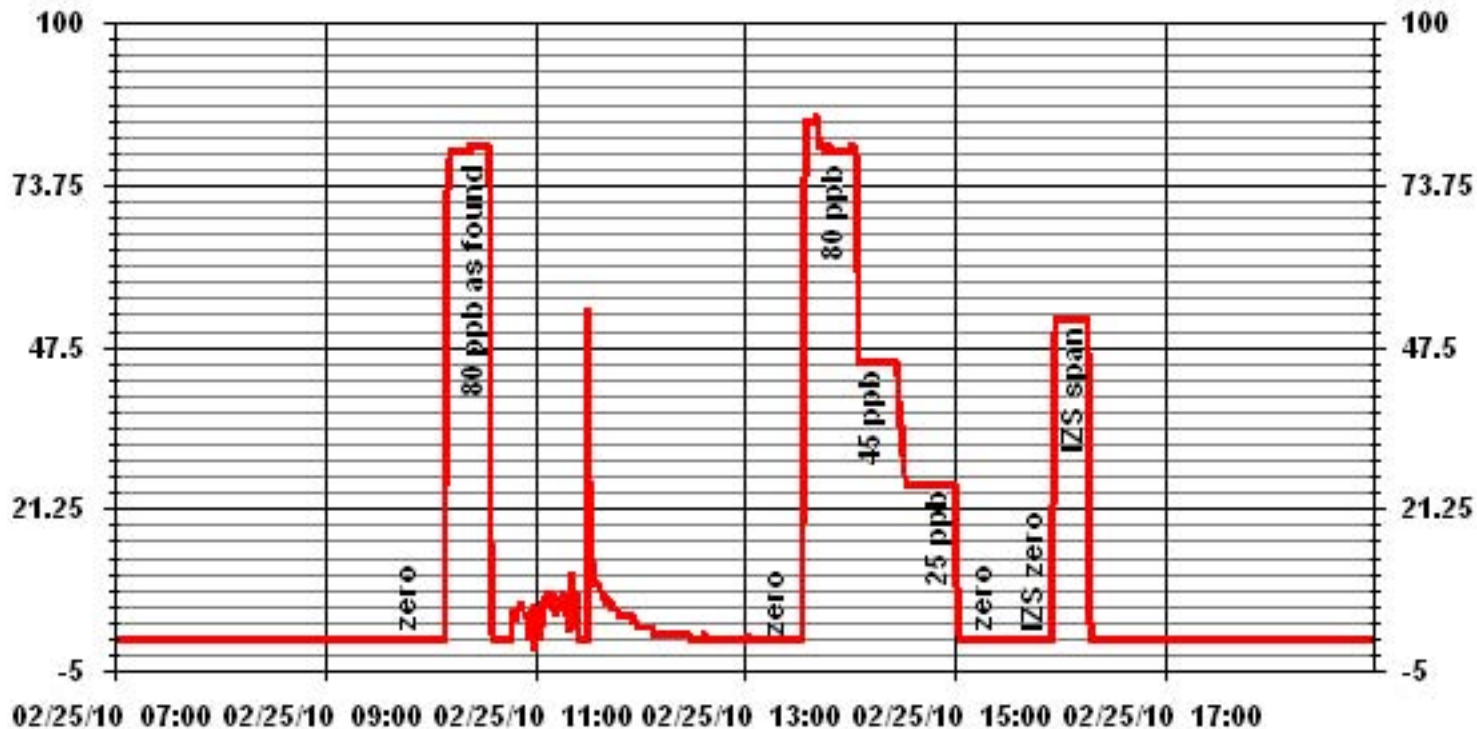
Calibration Date	February 25, 2010		
Company	LAKELAND INDUSTRY & COMMUNITY ASSOCIATION		
Plant / Location	ST.LINA		
Start Time (MST)	9:41	End Time (MST)	16:20

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope	(≥ 0.995) (0.85 to 1.15)	0.999999
0	0	n/a	Intercept	(± 3% F.S.)	-0.027432
25	25	1.0027			
45	45	0.9992			
80	80	0.9996			



Notes: Upon arrival the analyzer had a "UV Lamp Warning" - lamp ratio 105%, cleared warning did not return. Did lamp Cal and replaced the box fan following the A/F points. Dilution cal restarted at 13:08.

01 Minute Averages



Total Hydrocarbons

THC Calibration Report

Station Information			
Calibration Date:	February 25, 2010	Previous Calibration	January 20, 2010
Company:	LAKELAND INDUSTRY & COMMUNITY ASSOCIATION		
Plant / Location:	ST. LINA		
:	(MST) 10:40	End Time	(MST) 13:52
Reason:	Monthly Calibration		
Barometric Pressure:	698 mmHg	Station Temperature:	22 Deg C
Calibrator:	API 700	S/N:	831
Cal Gas Concentration:	207 Prop/ 602 Meth	ppm	Cal Gas Expiry Date: August 21, 2011
DAS make & Model:	ESC 8832	S/N :	AO717
Output Voltage Range:	0 - 10	VDC	

Analyzer Information

Make / Model	TECO 51C	S/N :	77021-384	Method	Flame Ionization
--------------	----------	-------	-----------	--------	------------------

Analyzer Settings

	Before Calibration		After Calibration	
Concentration Range	0 -50	ppm	0 - 50	ppm
Sample Pressure	6.9	psi	6.9	psi
Hydrogen Pressure	8.5	psi	8.5	psi
Air Pressure	20	psi	20	psi

Calibration Data

Dilution Flow	Source Gas Flow	Calculated Concentration	Indicated Concentration	Correction Factor
2001	0.0	0.0	0.0	N/A
2001	70.0	39.6	41.3	0.9586
2001	70.0	39.6	40.0	0.9897
2001	35.0	20.1	19.9	1.0118
2000	20.0	11.6	11.5	1.0084
2001	0	0.0	0.0	N/A
Correction Factor:				0.9897

Previous Calibration Correction Factor:	0.9914
Current Correction Factor Before Span Adjust:	0.9586
Percent Change:	3.42%

IZS Calibration Data

	Before Calibration	After Calibration
Auto Zero	-0.1	0.0
Auto Span	34.6	33.9
Sample Lines Connected		YES

Cylinder Pressures

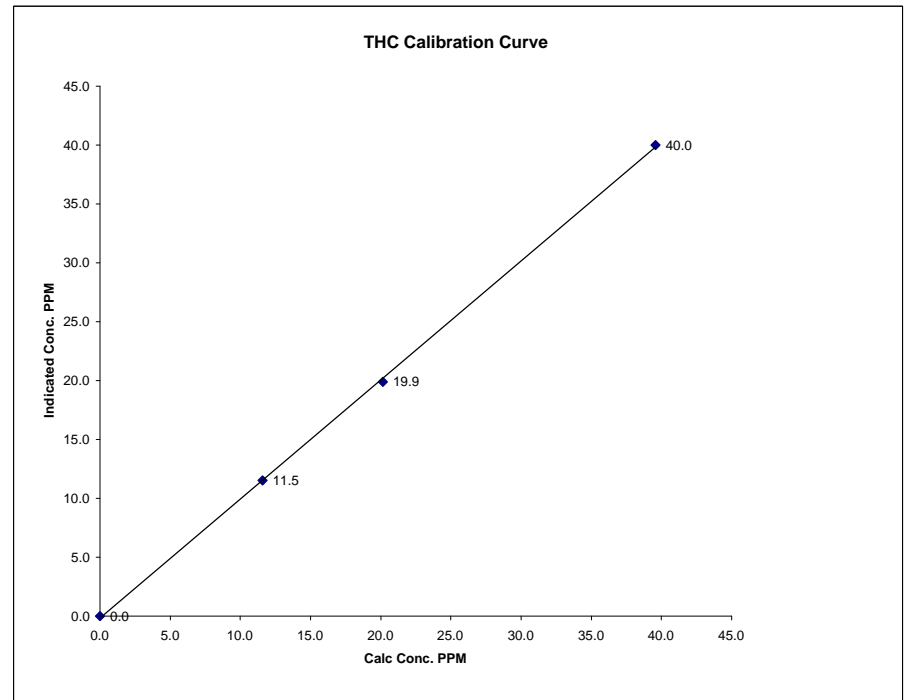
Span	1500	psi	
Hydrogen	1400	psi	
Zero Air	N/A	psi	Unlimited API 701

Calibration Performed by: Shea Beaton

THC Calibration Curve

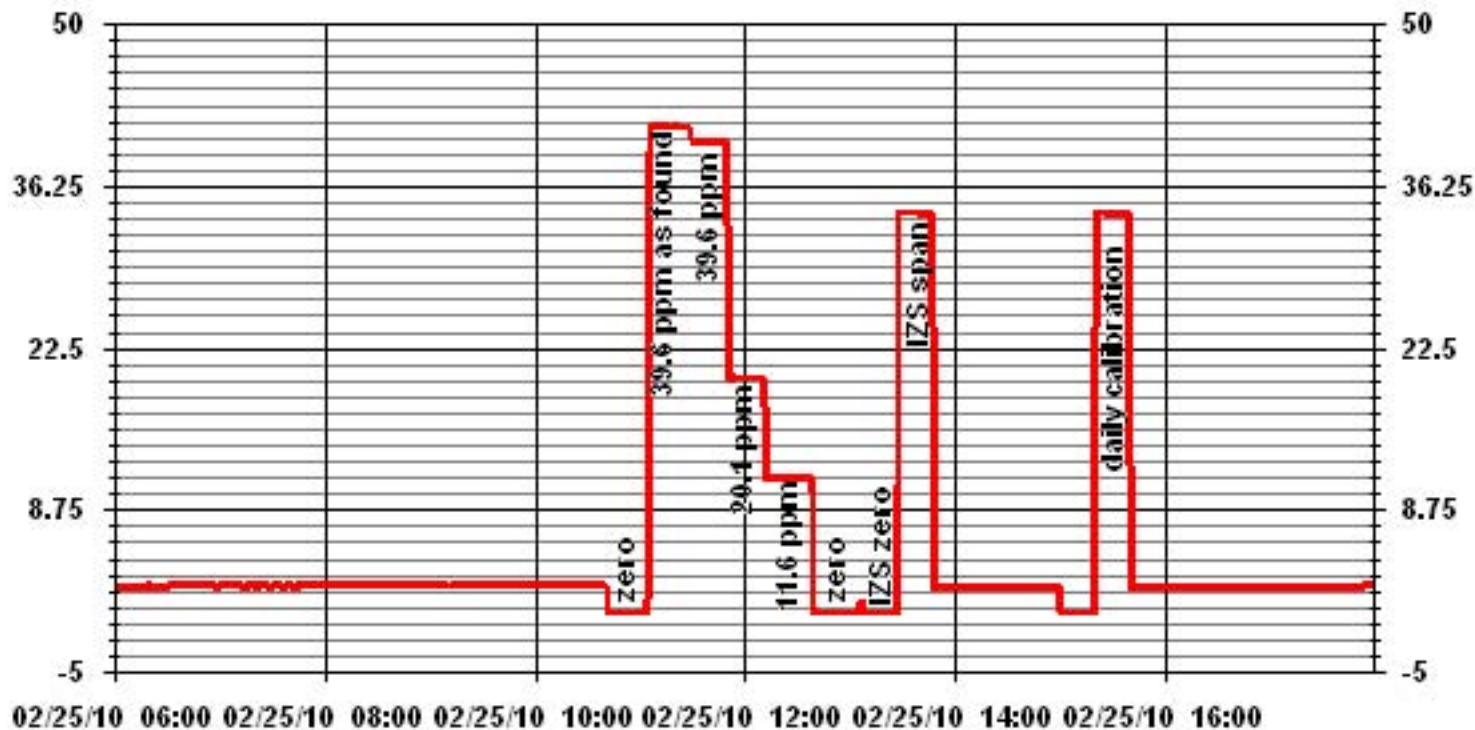
Calibration Date	February 25, 2010		
Company	LAKELAND INDUSTRY & COMMUNITY ASSOCIATION		
Plant / Location	ST. LINA		
Start Time (MST)	10:40	End Time (MST)	13:52

Calculated Conc. ppm	Indicated Response ppm	Correction Factor	Correlation Coefficient (≥ 0.995)	Slope (0.85 to 1.15)	Intercept (± 3% F.S.)
0.0	0.0		0.999842	1.010794	-0.172285
11.6	11.5	1.0084			
20.1	19.9	1.0118			
39.6	40.0	0.9897			



Notes: Flame temp 172.

01 Minute Averages



Nitrogen Dioxide

NOx - NO- NO₂ Calibration Report
Station Information

Calibration Date	February 25, 2010	Previous Calibration	January 21, 2010
Company	LICA	Plant/Location	ST. LINA
Start Time (MST)	9:40	End Time (MST)	16:51
Reason:	Monthly Calibration		
Barometric Pressure	698 mmHg	Station Temperature	23.0 Deg C
Cal Gas Concentration	NOx 51.8 ppm	NO	51.6 ppm
DAS Output Voltage	0 - 1 Volts	Cal Gas Expiry date	12/19/2010

Equipment Information

Analyzer Make / Model:	API 200E	S/N :	592	Method:	Chemiluminescent
Calibrator Make / Model:	EnviroNics 2000	S/N:	1991		
DAS Make / Model:	ESC 8832	S/N :	AO717		
Flow Meter:	EnviroNics 2000	S/N :	1991		

Analyzer Settings

Before Calibration				After Calibration			
Concentration Range	0 - 1000 ppb						
Sample Flow/Conv. Temp	473 ccm	318.3 Deg C		473 ccm	315.3 Deg C		
Ozone Flow / Vacuum HVPS	73 ccm	3.9 *Hg-A		73 ccm	3.9 *Hg-A		
	646 Volts			646 Volts			
Rx/ Temp / PMT Temp	50 Deg C	6.9 Deg C		50 Deg C	6.9 Deg C		
Box Temp / IZS Temp	30 Deg C	45.3 Deg C		30.7 Deg C	45 Deg C		
Offset	0.2 NOx	-1.3 NO		1.1 NOx	0.5 NO		
Slope	1.019 NOx	1.012 NO		1.053 NOx	1.044 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	
3005	0	N/A	0	0	1	1	0	N/A	N/A	
3005	0	N/A	0	0	0	0	0	N/A	N/A	
2965	43.7	N/A	752	749	728	726	2	1.0335	1.0323	
2965	43.7	N/A	752	749	753	750	3	0.9992	0.9993	
2984	23.3	N/A	401	400	398	396	2	1.0084	1.0096	
3000	11.7	N/A	201	200	199	197	2	1.0112	1.0176	
3010	0	N/A	0	0	0	1	0	N/A	N/A	
Converter Efficiency										
2967	43.7	N/A	752	749	752	749	3	N/A		
2967	43.7	600	752	749	749	200	549	99%		
2967	43.7	300	752	749	751	473	279	100%		
2967	43.7	200	752	749	752	566	186	100%		
2967	43.7	N/A	752	749	752	750	2	N/A		
Correction Factor										
3004	0	N/A	0	0	1	1	0	N/A	N/A	
Linearity OK? Yes No										
Flows Checked on-site? Yes No										
								Sum of Least Squares	1.0017	1.0024
								New Correction Factor	0.9992	0.9993
								Average Converter Efficiency	100%	

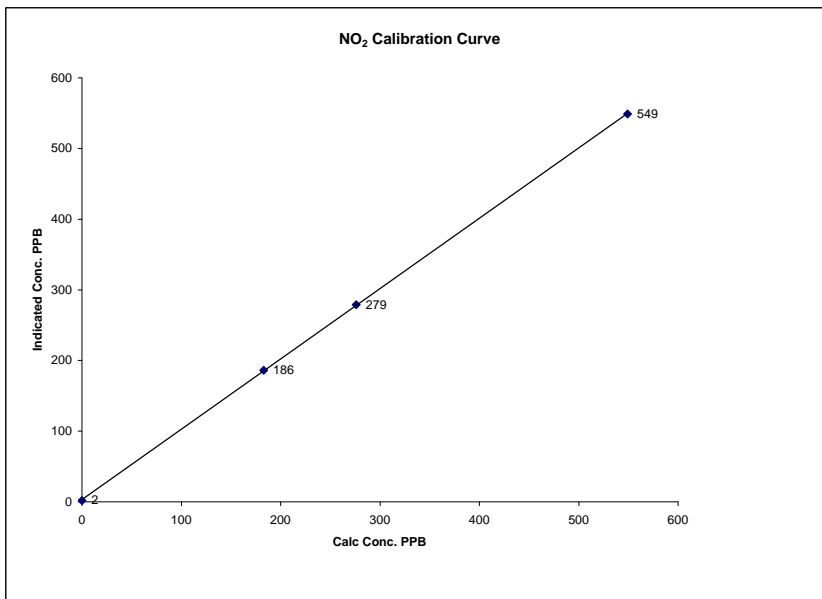
Before Calibration				After Calibration			
Auto Zero	2.0 NOx	1.2 NO2		0.3 NOx	0.4 NO2		
Auto Span	520 NOx	509 NO2		524 NOx	515 NO2		
Sample Lines Connected YES							
Percent Change from Previous Calibration							
				NOx	-3.2%	NO	-3.0%

Calibration Performed by: Shea Beaton

NO₂ Calibration Curve

Calibration Date	February 25, 2010
Company	LICA
Plant / Location	ST. LINA
Start Time (MST)	9:40
End Time (MST)	16:51

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope Intercept	(≥ 0.995) (0.85 to 1.15) (± 3% F.S.)
0	2	N/A		0.999978
183	186	0.9839		0.995931
276	279	0.9892		3.025330
549	549	1.0000		

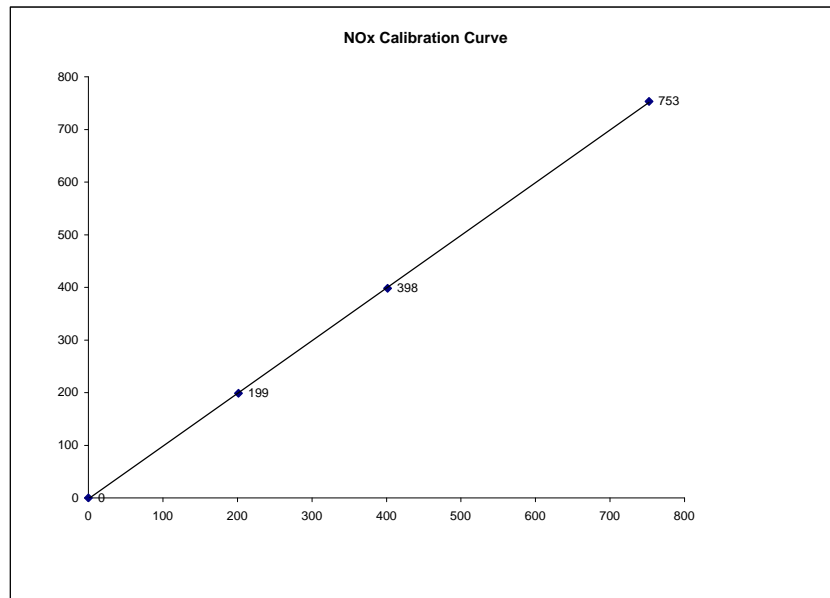


Notes:

NOx Calibration Curve

Calibration Date	February 25, 2010	
Company	LICA	
Plant / Location	ST. LINA	
Start Time (MST)	9:40	End Time (MST) 16:51

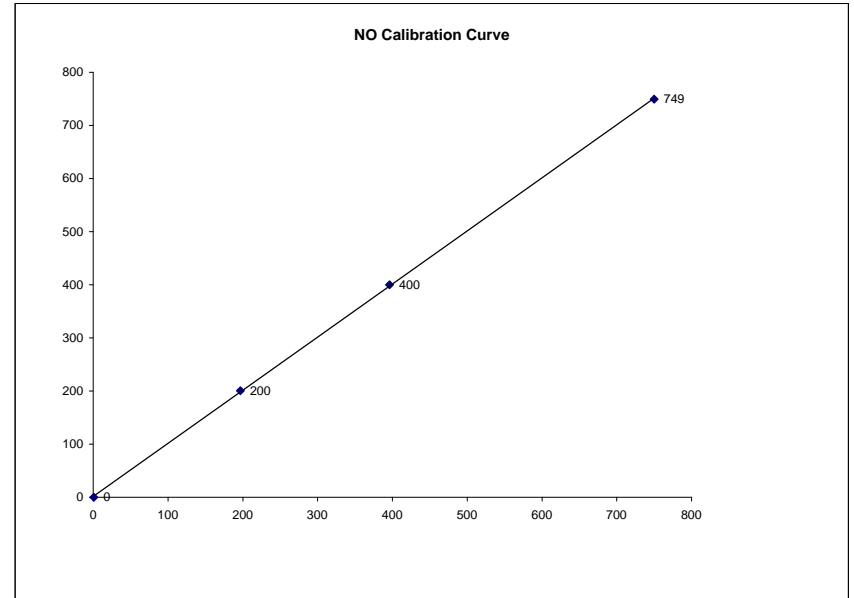
Calculated Conc. (ppb)	Indicated Response (ppb)	Correction Factor	Correlation Coefficient (Slope Intercept)	(≥ 0.995) (0.85 to 1.15) ($\pm 3\%$ F.S.)	0.999968 1.001161 -1.629215
0	0	N/A			
201	199	1.0112			
401	398	1.0084			
752	753	0.9992			



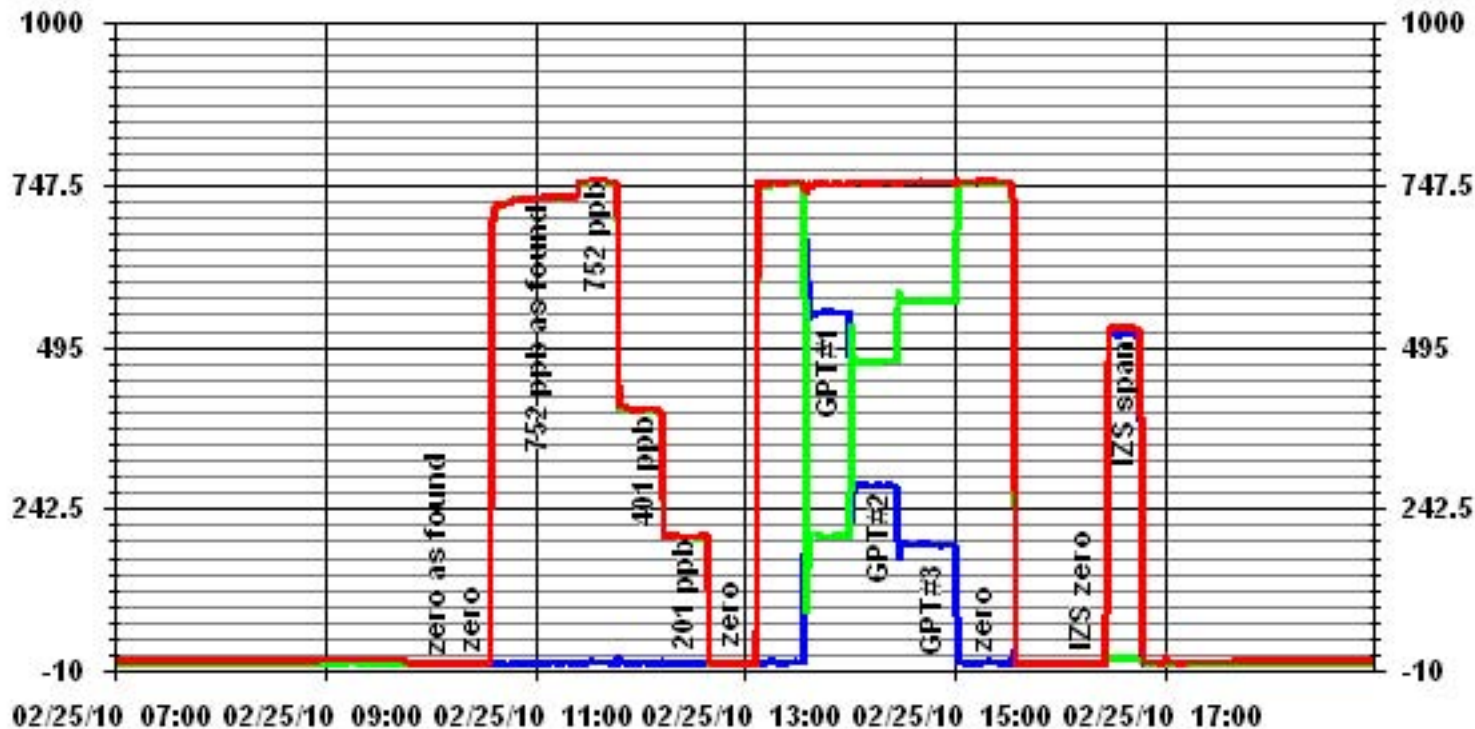
NO Calibration Curve

Calibration Date	February 25, 2010	
Company	LICA	
Plant / Location	ST. LINA	
Start Time (MST)	9:40	End Time (MST) 16:51

Calculated Conc. (ppb)	Indicated Response (ppb)	Correction Factor	Correlation Coefficient (Slope Intercept)	(≥ 0.995) (0.85 to 1.15) ($\pm 3\%$ F.S.)	0.999937 1.000391 -1.560057
0	1	N/A			
200	197	1.0176			
400	396	1.0096			
749	750	0.9993			



01 Minute Averages



Lakeland Industry & Community Association

Portable / Devon Wellsite 13-16-62-5 W4M Monitoring Site

Ambient Air Monitoring Data Report

For

February 2010

Prepared By:



Driven by Service and Science

March 29, 2010

Lakeland Industry & Community Association Portable / Devon Wellsite 13-16-62-5 W4M Ambient Air Monitoring

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Introduction

The following Ambient Air Monitoring report was prepared for:

Mr. Mike Bisaga
Lakeland Industry & Community Association
Box 8237
5107W – 50 Street
Bonnyville, Alberta
T9N 2J5

Monitoring Location: Portable / Devon Wellsite 13-16-62-5 W4M
Data Period: February 2010

The monthly ambient data report:

- Prepared by Lily Lin
- Reviewed by Craig Snider

The 6-days analytical report for VOCs and PAHs:
Authorized by Petro Oh

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*.

MONTHLY CONTINUOUS DATA SUMMARY

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE

Continuous Ambient Monitoring – February 2010

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION PORTABEL / DEVON WELLSITE 13-16-62-5 W4M SITE						MAXIMUM VALUES							OPERATIONAL TIME (PERCENT)
						OBJECTIVES				EXCEEDENCES		MONTHLY AVERAGE	
PARAMETER	1-HR	24-HR	1-HR	24-HR	READING	DAY	HOUR	WIND SPEED (KPH)	WIND DIRECTION (DEGREES)	READING	DAY		
SO ₂ (PPB)	172	57	0	0	0.21	8	27	15	24.8	108(ESE)	1.0	28	99.9
H ₂ S (PPB)	10	3	-	-	0.02	1	VAR	VAR	VAR	VAR	0.3	2	99.9
THC (PPM)	-	-	-	-	2.54	10.4	16	22	5.9	224(SW)	3.8	26	99.9
NO ₂ (PPB)	212	106	0	0	5.06	29	2	7	1.3	227(SW)	13.0	15	99.9
NO (PPB)	-	-	-	-	0.74	18	2	8	3	234(SW)	4.9	11	99.9
NO _x (PPB)	-	-	-	-	5.92	44	2	8	3	234(SW)	18.3	11	99.9
O ₃ (PPB)	82	-	0	-	28.93	47	27, 28	VAR	VAR	VAR	42.9	28	99.9
PM 2.5 (UG/M ³)	-	30	-	0	4.94	24.3	10	21	2.1	223(SW)	12.7	10	99.7
VECTOR WS (KPH)	-	-	-	-	6.91	24.8	27	15	-	108(ESE)	14.2	27	99.9
VECTOR WD (DEGREES)	-	-	-	-	136(SE)	-	-	-	-	-	-	-	99.9

VAR-VARIOUS

Volatile Organics Data Summary

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE

Xontech Model 910A – February 02, 2010

Maximum reading (ug/m3)	Volatile Organic
<32.0	Hexachlorobutadiene

Xontech Model 910A – February 08, 2010

Maximum reading (ug/m3)	Volatile Organic
<32.0	Hexachlorobutadiene

Xontech Model 910A – February 14, 2010

Maximum reading (ug/m3)	Volatile Organic
<32.0	Hexachlorobutadiene

Xontech Model 910A – February 20, 2010

Maximum reading (ug/m3)	Volatile Organic
<32.0	Hexachlorobutadiene

Xontech Model 910A – February 26, 2010

Maximum reading (ug/m3)	Volatile Organic
<32.0	Hexachlorobutadiene

Polycyclic Aromatic Hydrocarbons (PAHs) Data Summary

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

PUF cartridge – January 26, 2010

Maximum reading (ng/m3)	Semi-Volatile Organic
<6.055	3-Methylcholanthrene

PUF cartridge – February 01, 2010

Maximum reading (ng/m3)	Semi-Volatile Organic
<6.055	3-Methylcholanthrene

PUF cartridge – February 07, 2010

Maximum reading (ng/m3)	Semi-Volatile Organic
<6.055	3-Methylcholanthrene

PUF cartridge – February 13, 2010

Maximum reading (ng/m3)	Semi-Volatile Organic
<6.055	3-Methylcholanthrene

PUF cartridge – February 19, 2010

Maximum reading (ng/m3)	Semi-Volatile Organic
<6.055	3-Methylcholanthrene

PUF cartridge – February 25, 2010

Maximum reading (ng/m3)	Semi-Volatile Organic
NA	NA

Note: No data was collected due to a lab issue with the PUF cartridge.

General Monthly Summary

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 – PORTABLE

Sulphur Dioxide (PPB)

- Analyzer make / model – API 100E, S/N: 467

No operational issues observed during the month. The inlet filter was changed before the monthly calibration was started. One hour of data is missing on February 15th. Data was corrected using daily zero information.

Hydrogen Sulphide (PPB)

- Analyzer make / model –API 101E, S/N: 509
- Converter - Internal

No operational issues observed during the month. The inlet filter was changed before the monthly calibration was started. One hour of data is missing on February 15th. Data was corrected using daily zero information.

Nitrogen Dioxide (PPB)

- Analyzer make / model – API 200E, S/N: 593

No operational issues observed during the month. The inlet filter was changed before the monthly calibration was started. One hour of data is missing on February 15th. Data was corrected using daily zero information.

Ozone (PPB)

- Analyzer make / model – API 700, S/N: 446

No operational issues observed during the month. The inlet filter was changed before the monthly calibration was started. One hour of data is missing on February 15th. A fault was noticed on the analyzer for “ORIFICE FLOW WARNING” upon arrival on February 16th. Cleared the fault, all test function appeared normal; analyzer is functioning normally. One hour of ozone maximum was offscale for 1 minute on Feb 26th. The data was invalidated.

General Monthly Summary

AQM STATION – LICA – PORTABLE

THC (PPM)

- Analyzer make / model – TECO 51C, S/N: 04366-09739

No operational issues observed during the month. The inlet filter was changed before the monthly calibration was started. One hour of data is missing on February 15th. Data was corrected using daily zero information.

Particulate Matter 2.5 (ug/m³)

- Analyzer make / model –TEOM1400A, S/N: 140AB2207400101

No operational issues observed during the month. A Teom audit with a Bios flow meter was performed on February 5th. Flows audited high, performed a flow cal. During flow cal, almost no changes to flow system were required. Re-measured flows; flows were still high at the Teom inlet- possible flow meter issue. A flow check on the Teom using a Chinook FTS was performed on February 12th; the flows measured well within the tolerance. Suspect issues with the Bios flow meter during the cold weather applications. The flow audit done on February 5th should be disregarded. One hour of data is missing on February 15th. Data was corrected using Alberta air quality guideline for PM2.5 analyzer. If the data was between 0 to –3, the data was corrected to 0. If the data was below –3, the data was invalidated. One hourly PM2.5 data was invalidated as the value was below –3.0 ug/m³.

Vector Wind Speed (KPH) & Vector Wind Direction (DEG)

- System make / model – RM Young 5103VK, S/N: 41334

No operational issues observed during the month. The wind system is reported as vector wind speed and vector wind direction. One hour of data is missing on February 15th.

General Monthly Summary

AQM STATION – LICA – PORTABLE

Datalogger

- System make / model - ESC 8832, S/N: AO717
- 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

The trailer is located at N54°22'04.4", W110°42'14.6", Elevation 560m asl.

A calibration on the H2 sensor was performed on February 2nd. The sensor reading at zero was -11, adjusted to zero. At span the expected reading was 732 ppm, the observed reading was 685 ppm, adjusted the span to 732ppm.

Air Quality Index (AQI)

The AQI data was adjusted to reflect regular monthly and daily calibrations, maintenance, and downtime. All AQI values recorded in February 2010 were within Good range. The highest hourly concentration of O3 was 47 ppb and an AQI value of 23 during various hours on February 27th and 28th. The highest hourly concentration of PM2.5 was 24.3 UG/M3 on February 10th, hour of 21; the AQI value during this hour was invalidated as a daily calibration was performed during the same time causing not enough readings to be compared.

General Monthly Summary

AQM STATION – LICA – PORTABLE

Volatile Organics (VOCs)

The volatile organics were sampled from February 2nd to February 26th. The sampler was programmed to run for 24 hours, and, every 6 days per sample cycle.

The values for the VOCs in this report were reported as ug/m3.

Polycyclic Aromatic Hydrocarbons (PAHs)

The PAHs were sampled from February 2nd to February 26th. The sampler was programmed to run for 24 hours, and, every 6 days per sample cycle.

The values for the PAHs in this report were reported as ng/m3.

No data for February 25th was collected due to a lab issue with the PUF cartridge.

Continuous Monitoring

Monthly Summaries, Graphs & Wind Roses

Air Quality Index

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010
AIR QUALITY INDEX (AQI)

MST		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
DAY	MAX	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	
1	20	19	19	18	18	18	17	-	17	17	17	17	17	17	17	16	16	15	15	15	14	13	12	10	20	
2	9	9	7	5	4	4	-	2	6	5	7	9	11	12	13	14	12	12	12	10	9	8	8	8	14	
3	8	9	9	9	6	-	9	8	10	-	-	-	-	-	-	-	-	-	-	-	-	9	10	11	11	14
4	13	18	18	17	-	17	17	17	18	18	18	18	18	18	18	18	18	18	18	18	17	16	16	15	14	18
5	14	17	18	-	16	16	16	16	16	16	17	18	19	19	19	18	18	17	17	17	16	16	18	16	16	19
6	16	15	-	15	15	16	16	16	16	16	16	17	18	19	20	19	19	19	19	18	17	17	18	18	17	20
7	17	-	18	18	17	17	17	16	18	18	18	17	17	17	16	17	16	17	16	15	15	15	15	15	16	18
8	-	17	17	15	15	17	17	18	18	18	18	18	19	18	19	18	16	17	17	17	17	17	16	-	19	
9	16	16	15	15	15	15	14	14	15	15	15	16	16	16	16	15	14	13	12	12	12	12	-	11	16	
10	12	11	11	11	11	10	9	10	10	11	11	13	13	13	12	11	10	10	8	9	14	-	18	14	20	
11	19	19	14	12	7	9	15	12	12	12	7	9	9	11	12	13	12	9	9	-	7	7	9	19	19	
12	11	13	11	12	11	13	14	15	15	-	-	15	15	15	15	15	15	15	16	-	16	16	16	16	16	
13	16	17	18	18	16	16	15	14	14	13	15	16	16	16	18	19	19	19	18	-	18	16	16	17	19	
14	16	16	16	17	17	16	15	14	16	17	17	18	19	20	20	20	20	-	20	20	20	20	20	19	20	
15	19	18	18	18	17	-	15	14	13	16	16	17	17	17	18	17	-	14	12	10	8	8	7	6	19	
16	6	5	6	6	7	8	4	7	7	8	9	11	13	14	14	-	14	11	9	7	7	7	11	14	14	
17	14	16	16	10	10	8	9	8	9	12	14	15	17	17	-	20	19	17	17	16	15	14	13	11	20	
18	10	11	9	10	10	11	11	12	13	14	-	17	-	18	18	18	17	16	16	16	16	13	12	13	18	
19	12	10	11	12	12	11	11	14	15	17	18	18	-	18	18	18	17	16	17	16	17	16	17	18	18	
20	19	18	18	18	19	19	19	19	19	19	19	-	19	19	19	19	19	19	18	15	16	17	18	19	19	
21	19	19	19	19	18	19	18	19	19	19	-	19	19	19	19	19	18	16	14	13	13	13	16	18	19	
22	17	17	17	17	17	17	17	17	17	-	17	18	18	19	20	20	20	19	16	15	15	11	11	12	20	
23	12	9	7	7	7	9	5	7	-	10	13	16	16	16	16	17	17	17	17	17	17	18	19	18	19	
24	18	18	18	19	19	19	19	-	18	18	18	18	18	18	18	18	17	15	14	11	10	11	10	10	19	
25	9	8	9	6	11	11	-	8	9	10	12	14	16	17	19	19	19	17	17	15	15	15	15	14	19	
26	12	12	11	10	9	-	10	7	9	11	13	14	16	16	16	16	15	14	13	13	14	14	15	15	16	
27	19	21	21	20	-	20	20	21	21	21	21	22	22	24	23	22	23	22	21	21	21	21	21	22	24	
28	23	23	22	-	22	22	21	21	20	21	21	22	22	23	24	24	24	23	22	22	20	20	19	18	24	
PEAK	23	23	22	20	22	22	21	21	21	21	21	22	22	24	24	24	24	23	22	21	21	21	22	23		

STATUS FLAG CODES NA - NOT APPLICABLE

AQI CLASS	OZONE (O ₃)					PARTICULATE MATTER 2.5 (PM _{2.5})					NITROGEN DIOXIDE (NO ₂)					SULPHUR DIOXIDE (SO ₂)					FREQUENCY	
	HRS	%	MAX AQI	HR	DAY	HRS	%	MAX AQI	HR	DAY	HRS	%	MAX AQI	HR	DAY	HRS	%	MAX AQI	HR	DAY	HRS	%
VERY POOR (101-255)	0	0.0%	-	-	-	0	0.0%	-	-	-	0	0.0%	-	-	-	0	0.0%	-	-	-	0	0.0%
POOR (51-100)	0	0.0%	-	-	-	0	0.0%	-	-	-	0	0.0%	-	-	-	0	0.0%	-	-	-	0	0.0%
FAIR (26-50)	0	0.0%	-	-	-	0	0.0%	-	-	-	0	0.0%	-	-	-	0	0.0%	-	-	-	0	0.0%
GOOD (1-25)	570	84.8%	23	VAR	27,28	58	8.6%	19	0,1	11	0	0.0%	-	-	-	0	0.0%	-	-	-	628	93.5%
OVERALL	570	84.8%	-	-	-	58	8.6%	-	-	-	0	0.0%	-	-	-	0	0.0%	-	-	-	628	93.5%
UNAVAILABLE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	6.5%

VAR: VARIOUS

Sulphur Dioxide

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010

SULPHUR DIOXIDE (SO₂) hourly averages in ppb

MST

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

STATUS FLAG CODES

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

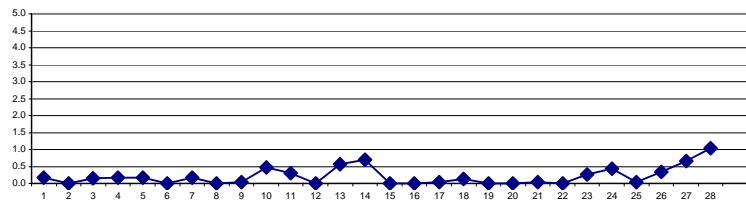
OBJECTIVE LIMIT:

ALBERTA ENVIRONMENT:	1-HR	172	PPB	24-HR	57	PPB
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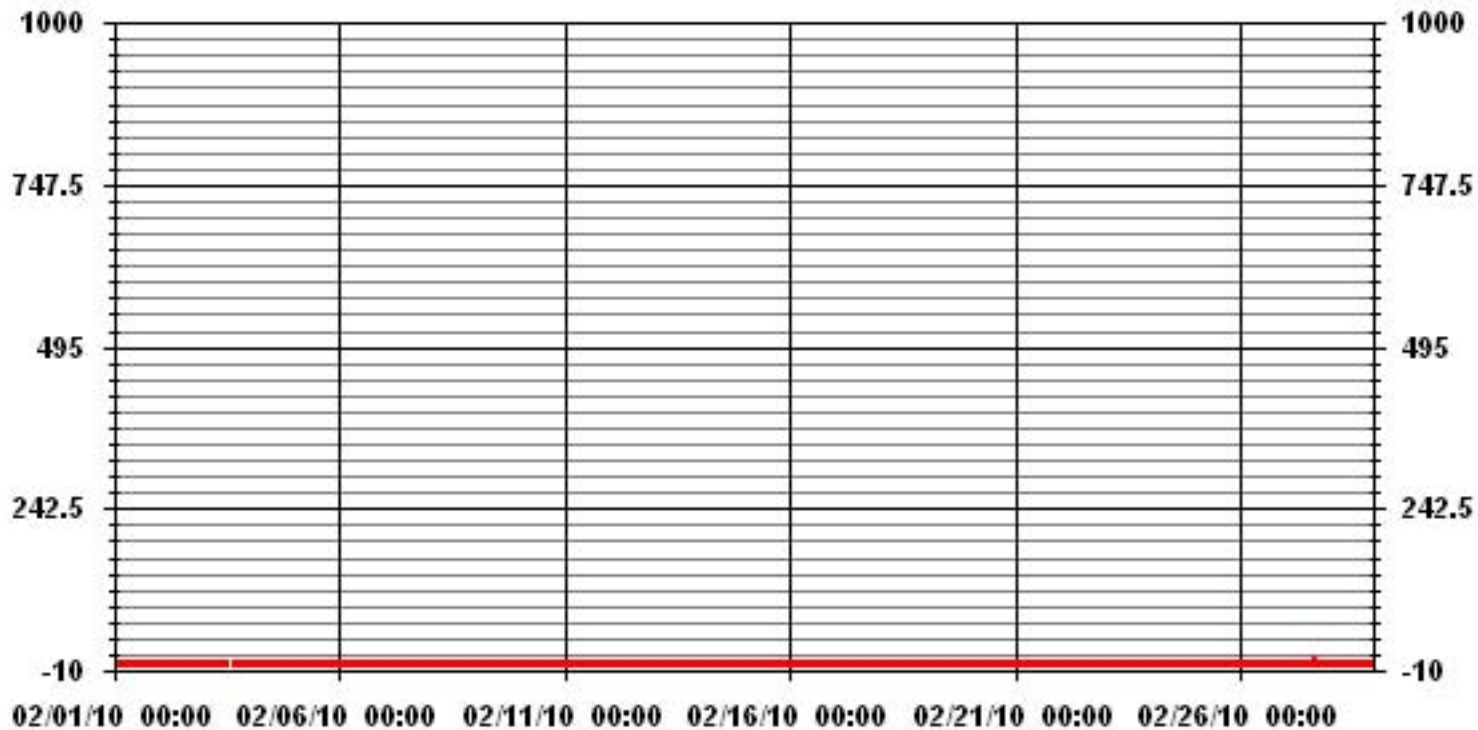
MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0		
NUMBER OF 24-HR EXCEEDENCES:	0		
NUMBER OF NON-ZERO READINGS:	113		
MAXIMUM 1-HR AVERAGE:	8 PPB @ HOUR(S) 15 ON DAY(S) 27		
MAXIMUM 24-HR AVERAGE:	1.0 PPB ON DAY(S) 28		
IZS CALIBRATION TIME:	29 HRS	OPERATIONAL TIME:	671 HRS
MONTHLY CALIBRATION TIME:	4 HRS	AMD OPERATION UPTIME:	99.9 %
STANDARD DEVIATION:	0.56	MONTHLY AVERAGE:	0.21 PPB

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



— LICA33 SO2_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION -PORTABLE SITE

FEBRUARY 2010

SULPHUR DIOXIDE MAX instantaneous maximum in ppt

MST		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 START	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	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	0.7	24		
2		1	1	1	1	1	1	1	IZS	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.0	24		
3		1	1	1	1	1	1	IZS	1	1	1	1	1	C	C	C	C	1	1	2	2	2	1	1	1	2	1.2	24			
4		1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	2	1.2	24		
5		1	1	1	1	IZS	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	1.0	24		
6		1	1	1	IZS	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0.5	24			
7		0	IZS	0	1	1	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	0.9	24		
8		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	IZS	1	1.0	24	
9		1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.0	24		
10		1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	IZS	1	1	2	1.4	24
11		1	1	1	1	1	1	1	1	1	1	1	2	3	3	2	1	1	1	1	1	1	1	1	1	1	3	1.3	24		
12		1	1	1	1	1	1	1	1	1	1	M	1	1	1	1	1	1	1	1	1	IZS	0	1	0	0	1	0.9	23		
13		0	0	0	0	0	0	0	0	0	0	1	2	4	5	3	1	1	1	1	IZS	2	2	2	2	2	2	5	1.2	24	
14		1	2	1	2	2	1	2	3	1	1	1	2	2	2	2	2	2	IZS	1	0	1	1	1	1	1	3	1.5	24		
15		1	1	1	0	0	N	0	0	0	0	0	1	1	1	1	1	IZS	1	1	1	1	0	0	0	0	1	0.5	23		
16		1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	0	0	0	1	1	0.8	24		
17		1	0	1	1	0	0	0	1	0	0	1	2	2	2	IZS	1	1	1	1	1	1	0	1	0	1	2	0.7	24		
18		1	1	1	1	0	0	0	0	0	1	1	1	0	IZS	1	1	2	2	2	2	2	1	1	1	1	2	0.9	24		
19		1	1	1	1	1	1	1	1	1	1	1	0	IZS	0	0	1	1	1	1	1	1	1	0	0	1	0.8	24			
20		0	1	0	0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0.1	24		
21		0	1	0	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	2	2	1	1	2	1.0	24		
22		1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	0	0	1	0	1	1	0.9	24		
23		1	0	0	1	1	1	1	1	1	1	1	IZS	1	1	2	2	1	1	1	1	3	3	2	2	1	1	3	1.3	24	
24		1	1	1	1	1	1	1	1	IZS	1	1	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	2	1.4	24	
25		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	2	1.0	24	
26		1	1	1	1	1	IZS	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	2	1.5	24		
27		1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	13	8	1	1	1	1	2	3	3	13	2.0	24			
28		2	2	3	IZS	2	3	3	2	2	2	3	3	3	3	2	2	2	2	1	1	1	1	1	1	1	3	2.0	24		
HOURLY MAX		2	2	3	2	2	3	3	3	2	2	3	3	4	5	3	13	8	2	3	3	2	2	3	3						
HOURLY AVG		0.9	0.9	0.9	0.9	0.8	0.8	0.8	1.0	0.9	0.9	1.0	1.3	1.4	1.5	1.3	1.7	1.4	1.1	1.1	1.1	1.1	1.1	0.9	0.9						

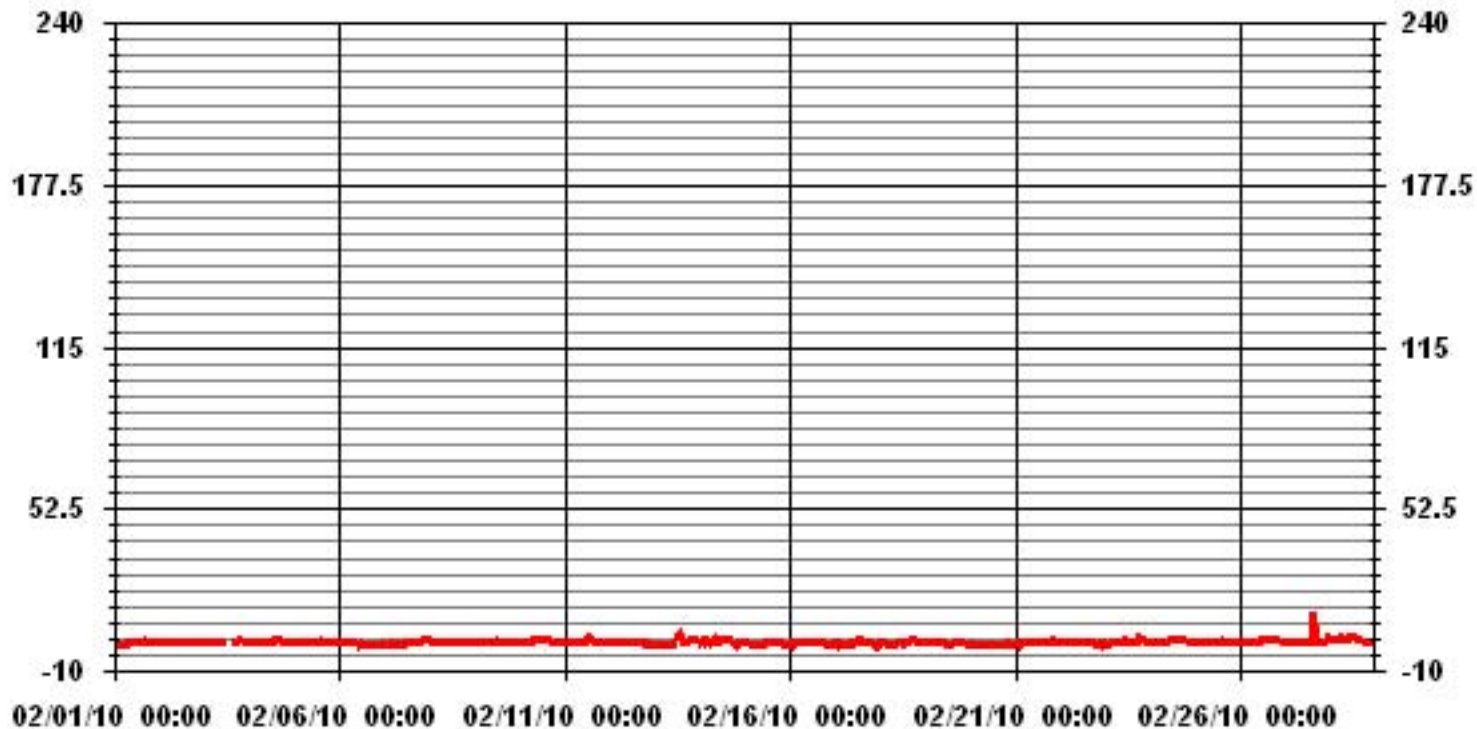
STATUS FLAG CODES

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

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	536					
MAXIMUM INSTANTANEOUS VALUE:	13	PPB	@ HOUR(S)	15	ON DAY(S)	27
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	5	HRS				
STANDARD DEVIATION:	0.85					

01 Hour Averages



LICA33
 SO2_ / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 33
 Site Name : LICA33
 Parameter : SO2_
 Units : PPB

Wind Parameter : WDR
 Instrument Height : 10 Meters

Limit	Direction																Freq
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
< 20	2.19	.94	.94	3.13	12.53	13.94	15.83	9.87	7.05	4.38	11.12	3.44	4.85	4.85	2.03	2.82	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	2.19	.94	.94	3.13	12.53	13.94	15.83	9.87	7.05	4.38	11.12	3.44	4.85	4.85	2.03	2.82	

Calm : .00 %

Total # Operational Hours : 638

Distribution By Samples

Limit	Direction																Freq
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
< 20	14	6	6	20	80	89	101	63	45	28	71	22	31	31	13	18	638
< 60																	
< 110																	
< 170																	
< 340																	
>= 340																	
Totals	14	6	6	20	80	89	101	63	45	28	71	22	31	31	13	18	

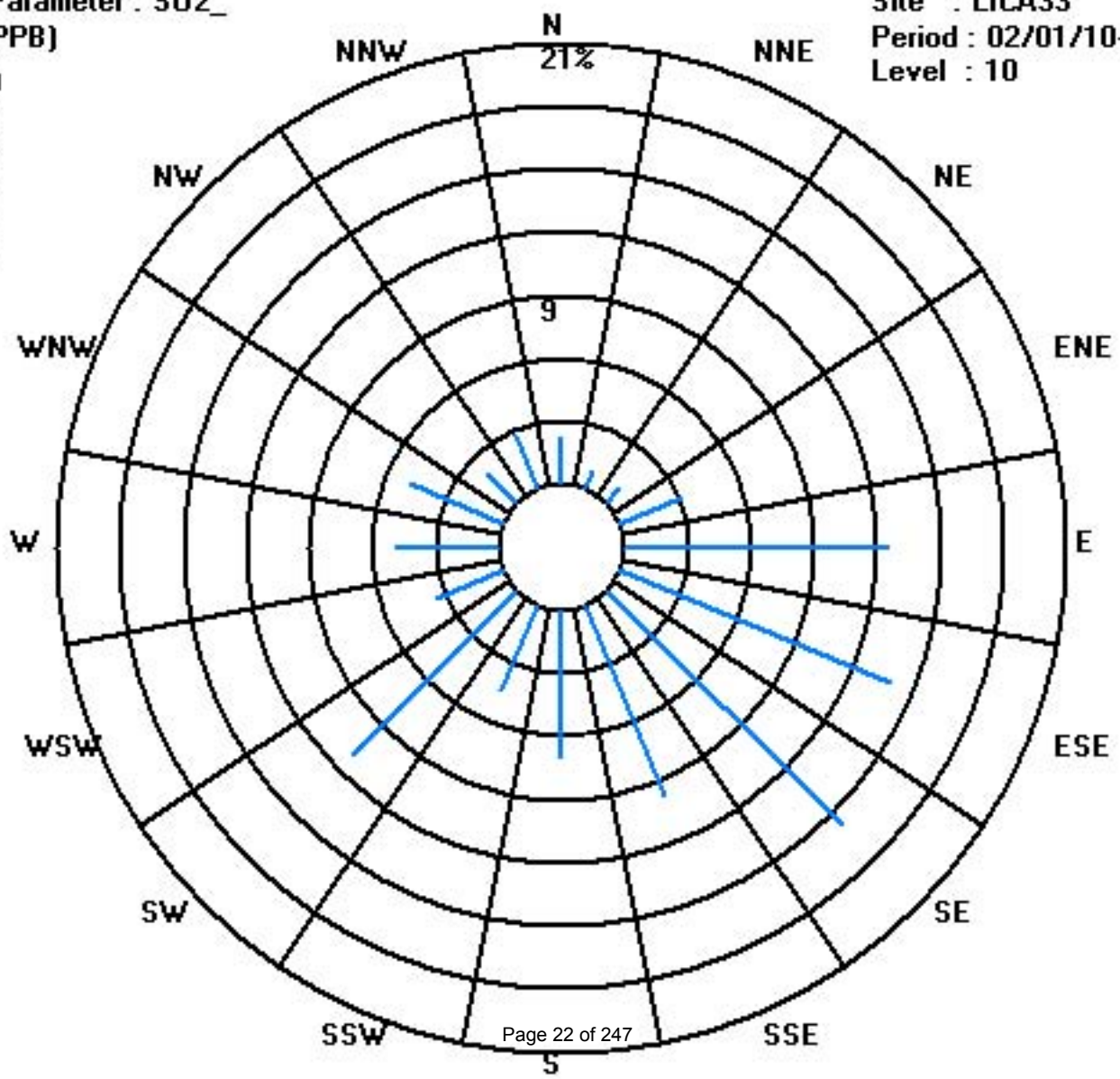
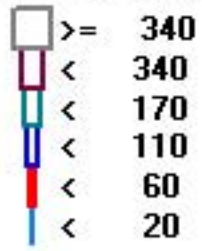
Calm : .00 %

Total # Operational Hours : 638

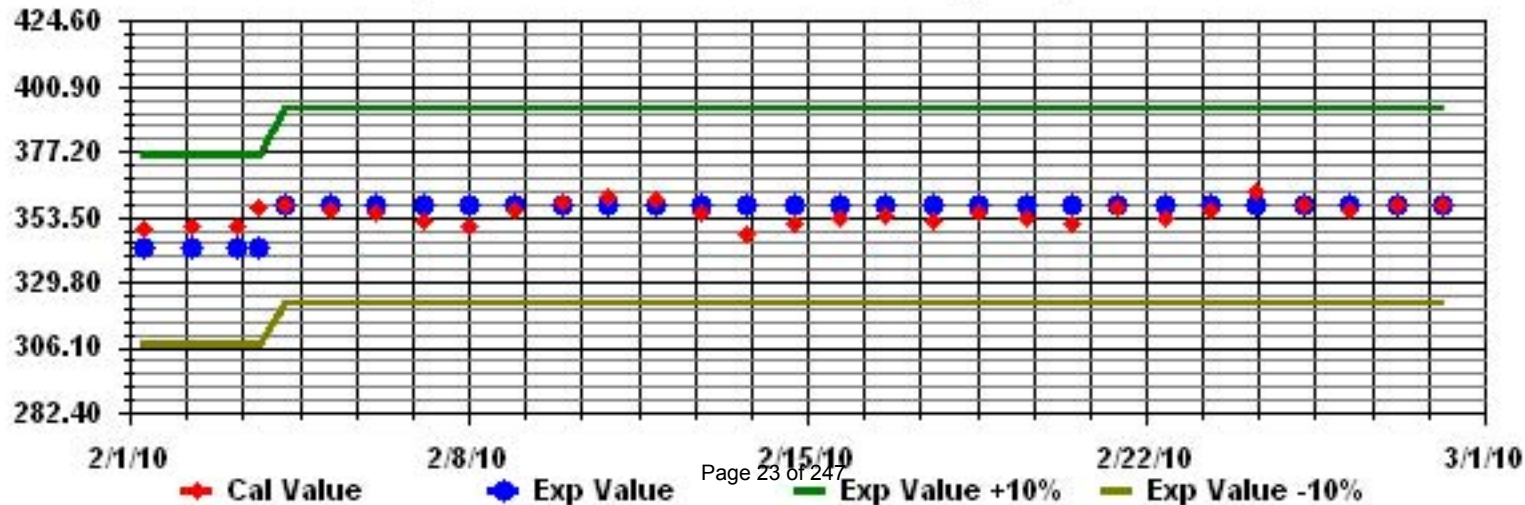
Class Limits (PPB)

Period : 02/01/10-02/28/10

Level : 10

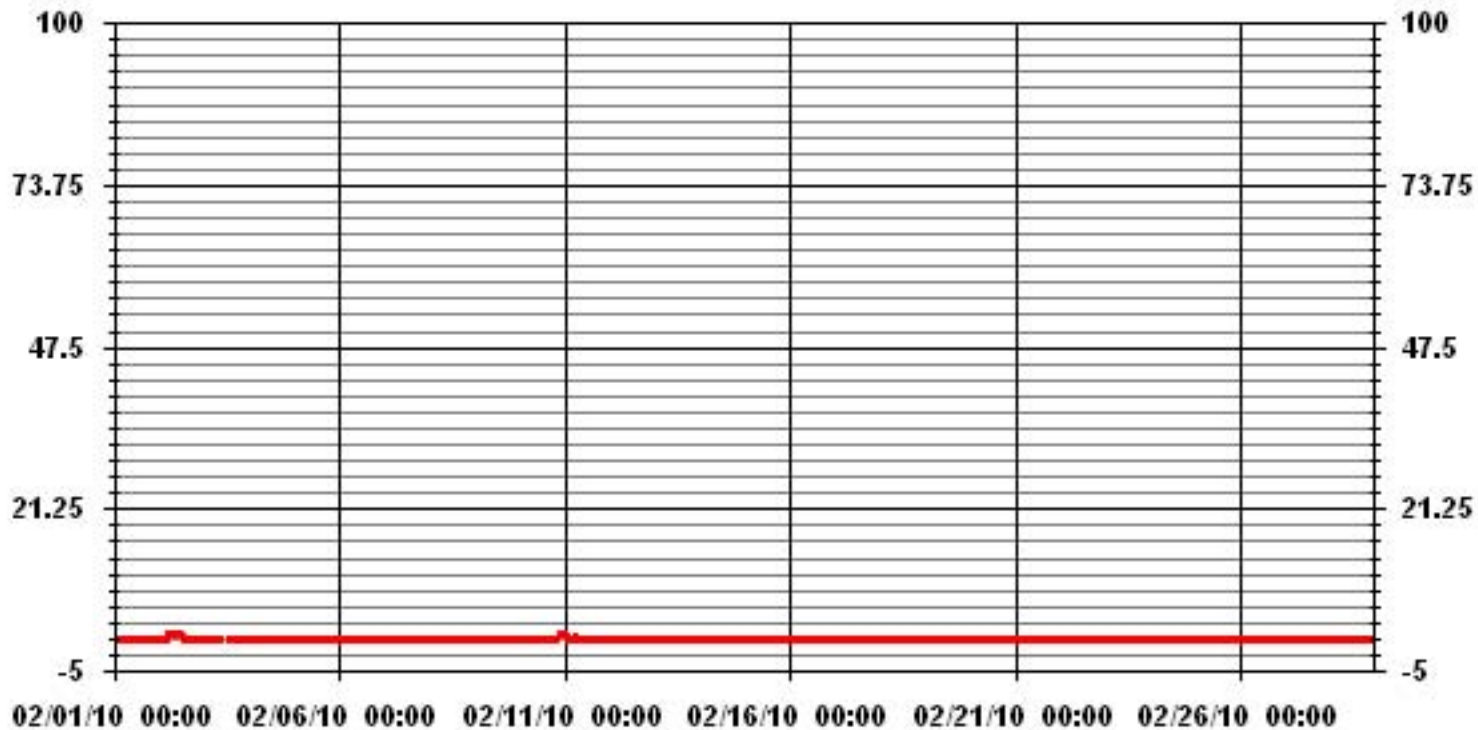


Calibration Graph for Site: LICA33 Parameter: S02_ Sequence: S02 Phase: SPAll



Hydrogen Sulphide

01 Hour Averages



— LICA33 H2S_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010

HYDROGEN SULPHIDE MAX instantaneous maximum in ppb

MST

DAY	HOUR START																								DAILY 24-HOUR			
	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	0:00	MAX.	AVG.	RDGS.
1	0	0	0	0	0	0	0	IZS	0	0	1	0	1	0	1	0	1	1	1	0	0	0	1	1	1	1	0.3	24
2	1	1	1	1	1	1	IZS	3	1	1	1	1	1	1	0	1	1	1	0	1	0	1	1	3	1.0	24		
3	1	1	1	1	1	IZS	1	1	1	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	1	0.4	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	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	0	IZS	0	0.0	24	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	IZS	1	1	1	0.2	24	
11	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	IZS	0	0	0	1	0.5	24	
12	0	0	0	0	0	0	0	0	0	0	M	0	0	0	0	0	0	0	0	0	IZS	0	0	0	0	0.0	23	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	0	0.0	24	
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	N	0	0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0.0	23	
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	0	IZS	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	1	1	1	1	0	0	1	0.2	24	
25	0	0	0	0	0	0	IZS	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24	
26	0	0	0	0	0	IZS	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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	
HOURLY MAX	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1			
HOURLY AVG	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1				

STATUS FLAG CODES

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

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	58					
MAXIMUM INSTANTANEOUS VALUE:	3	PPB	@ HOUR(S)	7	ON DAY(S)	2
	VAR - VARIOUS					
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	4	HRS				
STANDARD DEVIATION:	0.31					

LICA33
H2S_ / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 33
Site Name : LICA33
Parameter : H2S_
Units : PPB

Wind Parameter : WDR
Instrument Height : 10 Meters

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3	2.19	.94	.94	3.13	12.53	13.94	16.14	9.56	7.05	4.38	11.12	3.44	4.85	4.85	2.03	2.82	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	2.19	.94	.94	3.13	12.53	13.94	16.14	9.56	7.05	4.38	11.12	3.44	4.85	4.85	2.03	2.82	

Calm : .00 %

Total # Operational Hours : 638

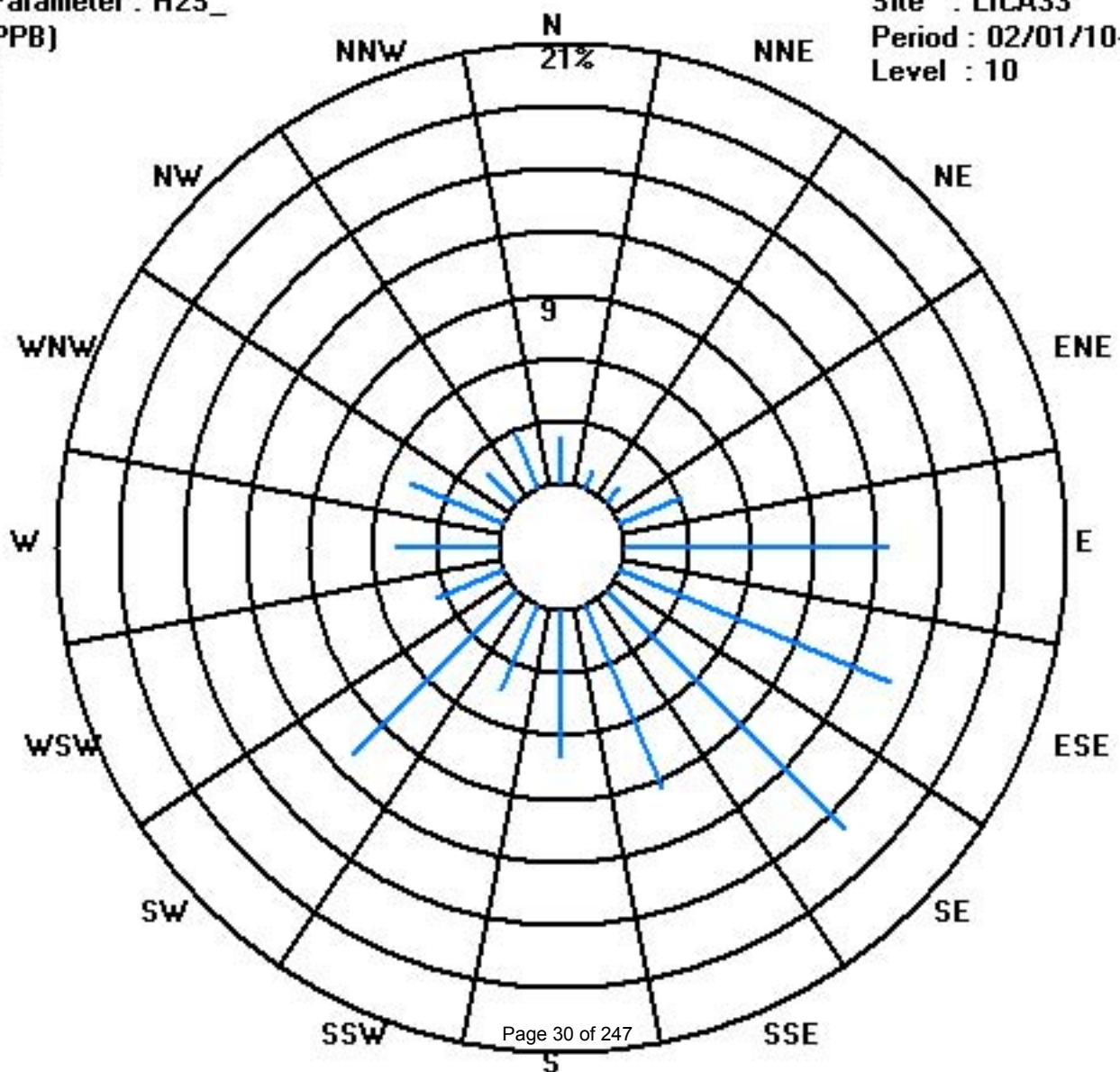
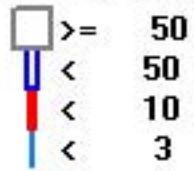
Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3	14	6	6	20	80	89	103	61	45	28	71	22	31	31	13	18	638
< 10																	
< 50																	
>= 50																	
Totals	14	6	6	20	80	89	103	61	45	28	71	22	31	31	13	18	

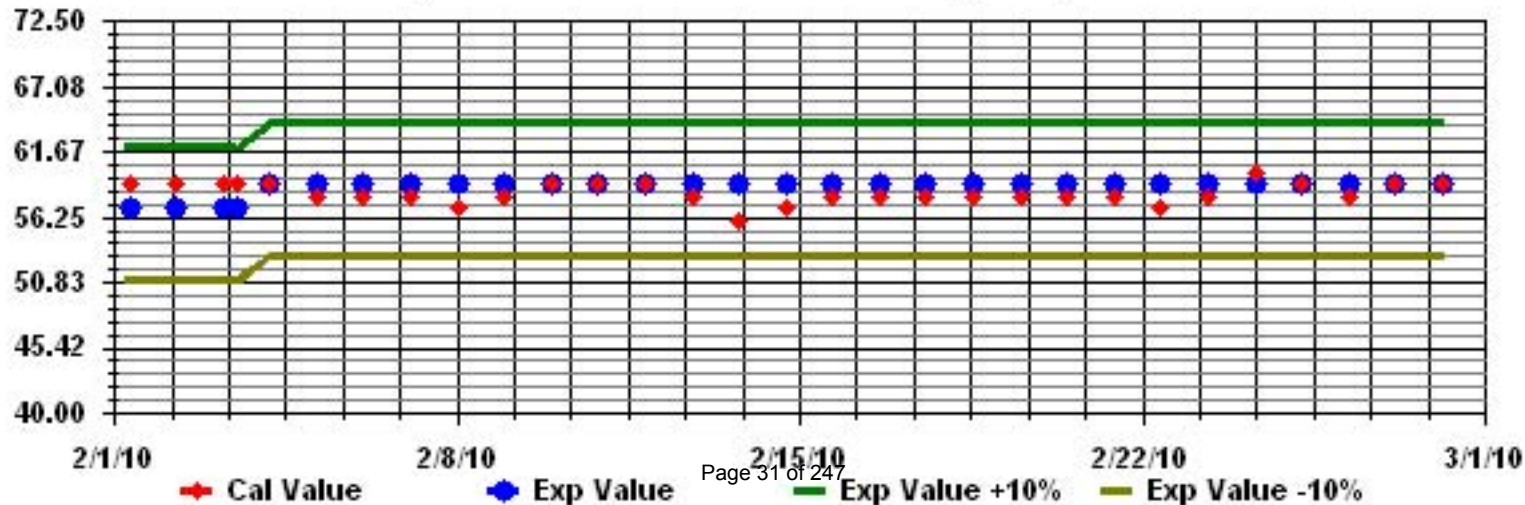
Calm : .00 %

Total # Operational Hours : 638

Class Limits (PPB)



Calibration Graph for Site: LICA33 Parameter: H2S_ Sequence: H2S Phase: SPAll



Particulate Matter 2.5

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE
FEBRUARY 2010

PARTICULATE MATTER 2.5 (PM2.5) hourly averages in ug/m³

MST	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 MAX.	24-HOUR AVG.	RDGS.
DAY	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			
1	0.1	1.4	2	1.4	1.2	1.7	1.8	2.3	2.1	2.1	2.3	2.6	2	1.6	3.3	3.2	2.4	3.3	2.8	2.4	2.5	4.2	2.4	3.2	4.2	2.3	24
2	2.4	3.4	3.7	2.4	4.3	4.2	5.2	2.8	6.6	5.9	5.6	5.1	9.9	7.8	3.8	4.2	3.9	5.2	4.4	4.8	4.1	4.6	5.8	5.5	9.9	4.8	24
3	6.8	7.6	6.9	6.5	6.9	4.4	6	5.6	3.9	4.6	3.4	3.9	6.4	9.7	7.3	7.3	10	13.2	10.6	9.4	9.3	9.3	9.5	7.8	13.2	7.3	24
4	9	10.6	7.5	5.5	4.7	3.2	3.8	3.6	3.9	5.6	6.1	5.2	5.3	6.8	8	8.4	7.5	7.6	7.9	8.3	7.1	8.7	10.4	7.2	10.6	6.7	24
5	6.7	6.3	6.9	8	8.3	8.8	8.9	8.2	8.7	9	C	C	C	C	12.1	12.8	12.3	11.6	10.2	7.8	9.3	8.4	11.9	10.4	12.8	9.3	24
6	6.4	8.8	8.8	7.1	6.7	7.6	11.4	11.5	12.9	14.9	14.6	9.5	4.7	3.1	4.1	4.4	7.2	12.5	14.2	15	11.2	7.6	7.7	9.2	15.0	9.2	24
7	10.6	11.6	6.6	6.8	6.7	7.4	8.8	8.7	4.5	3.6	3.7	5	3.5	3.9	4.1	3.9	3.2	3.1	2.7	3	3.2	2.7	2.4	2.6	11.6	5.1	24
8	3	2.6	1.9	1.3	1.9	1.8	2.7	2.6	2.4	1.7	1.1	1.9	2	1.9	2.3	1.7	1.8	1.4	1.7	1.3	2.2	1.8	2	1.4	3.0	1.9	24
9	1.9	1.9	2	3.4	3.1	3.8	4.3	5.1	5.7	3.3	2.2	2.8	3.2	3.1	3.3	2.9	3.8	3.6	2.5	3.3	3.9	4.8	5	4.8	5.7	3.5	24
10	5.5	6.4	6.7	8.1	13.2	9.7	10	12.3	12.1	12.8	13.1	15.7	15.9	14.8	13.3	13.4	11.7	11.5	9.6	10.6	16.4	24.3	21	17	24.3	12.7	24
11	23	23	16.9	14.9	8.6	11.1	18.4	14.7	14	14.5	6.7	3.2	3.9	3.7	2.4	2.4	2.7	2.8	2.7	1.9	3.7	3	2.6	2.1	23.0	8.5	24
12	1.2	0.9	1.2	2.5	3.8	3.7	3.4	1.9	2.3	C	C	3.3	3.5	3	3.2	3.6	3.5	3	2.7	2.9	2.6	3.2	3.2	2.7	3.8	2.8	24
13	2.3	2.7	2.3	0.2	1.7	1.8	0.7	2.6	4.4	4	4.1	3.8	4.7	5.5	4.1	3.8	2.8	3.1	2.7	2.4	2.2	3.3	3.7	0.5	5.5	2.9	24
14	0.4	0.9	0.8	0.5	0.6	1.3	1.6	0.2	2.7	3.4	2.2	0.7	1.4	0.7	0.1	0.5	0.4	0.7	0.9	1.3	1.5	1.7	1.7	1.9	3.4	1.2	24
15	2.5	2.8	2.2	1.9	1.7	N	2.5	4.2	9	4.2	4.8	3.8	2.8	3.1	4.3	4.3	4.8	4.1	3.6	5	3.9	3.8	4.3	5.4	9.0	3.9	23
16	6.7	6.3	6.7	5.3	4.6	9.6	4.9	7.8	8.8	8	8.4	3.7	3.9	3.1	5.9	4.7	2.6	3.7	2.6	3.4	5.2	4.8	13.5	16.3	16.3	6.3	24
17	16.2	19.5	18.7	12.5	11.9	9.4	6.9	6	8.2	13.2	7.3	4.8	4.4	6.3	7.7	2.5	0.8	2.1	2.4	3.2	4.6	4.2	4.3	4.3	19.5	7.6	24
18	5	4.8	2.1	6.7	3.6	3.1	1.3	1.7	2.6	5.4	2.2	N	0	0	0	0	0	0.3	0.8	0.9	0	1	1.3	0.8	6.7	1.9	23
19	0.8	0.7	1.1	0.1	0	0.4	1.8	2.8	1.7	0.4	0.2	0.1	0.2	0	0	1.1	0.6	-0.1	0.4	0.9	0.3	0.2	0.6	0	2.8	0.6	24
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0	1.1	1.6	2.1	2.1	0.3	24
21	1.5	2	2.1	1.9	2.3	1.6	1.8	3.6	3.3	3	4.5	3.2	4.7	4.4	5.3	5.9	5.9	5.8	7.8	7.6	8.1	5.3	2.6	1.8	8.1	4.0	24
22	1	1	0.6	0	0.2	0	0	1	1.4	1.2	1.1	0	0.2	0	0	0	0.6	0	1.5	1.1	1.3	2.5	1	2.1	2.5	0.7	24
23	1.7	2.3	1.3	0.9	1.3	0.1	1.3	3.8	2.8	4.5	5.4	4	5.4	6.8	7.8	7.5	8.3	7.8	10.7	9.3	8.7	7.8	7.3	6.1	10.7	5.1	24
24	5.1	6.1	5.3	6.2	6.1	7.3	7.4	5.7	4.6	7.3	7.3	6	6.4	6.5	8.2	8.3	8.9	10.3	12.3	12.7	11.8	12.7	12.2	11.8	12.7	8.2	24
25	10.6	9.3	10.8	5.4	12.7	13.4	8.5	9.8	10.2	9.8	4.9	9.1	7.1	8.5	8.8	6.4	6.8	6.3	6.4	6.2	6.6	8.3	9.3	9.4	13.4	8.5	24
26	8.5	9.7	6.5	6.3	9.2	3	5.6	5.2	10.4	10.8	5.8	7.3	4.4	7.5	7.1	7.3	7.1	7.1	5.6	5.6	6.3	4.9	5.8	4.5	10.8	6.7	24
27	2.3	1.7	3.5	1.5	2.2	1.8	1.6	1.9	2.2	2.3	2	1.9	2.5	0	0	0.7	1.1	1.4	2.1	1.4	2.6	2.3	1.9	2	3.5	1.8	24
28	3.2	3.1	2.6	3.6	4	4.5	4.5	3.9	4.7	5.7	5.4	6.1	5.1	5.9	6.8	6.2	4.4	6	5.1	5.4	5.7	4.2	6	5.6	6.8	4.9	24
HOURLY MAX	23	23	19	15	13	13	18	15	14	15	15	16	16	15	13	13	12	13	14	15	16	24	21	17			
HOURLY AVG	5.2	5.6	4.9	4.3	4.7	4.6	4.8	5.0	5.6	6.0	4.8	4.3	4.2	4.4	4.8	4.6	4.5	4.9	4.9	4.9	5.2	5.4	5.8	5.3			

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

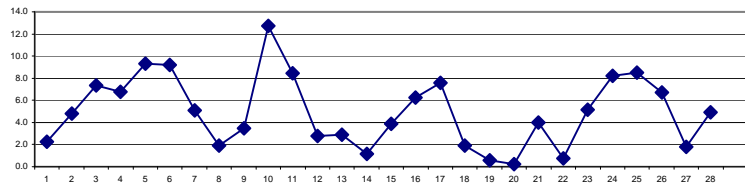
OBJECTIVE LIMIT:

ALBERTA ENVIRONMENT:	1-HR	-	PPB	24-HR	30	PPB
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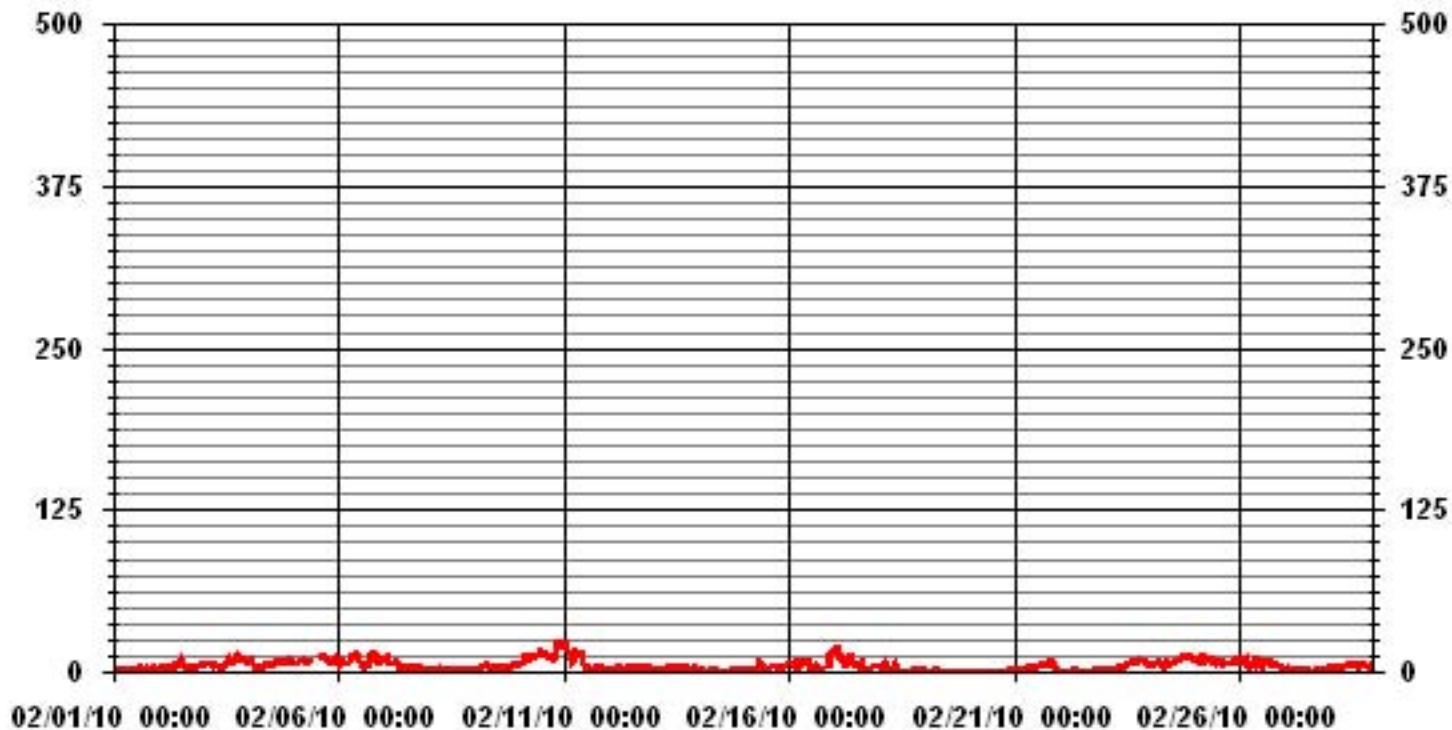
MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	-	PROPOSED CANADA WIDE GUIDELINE
NUMBER OF 24-HR EXCEEDENCES:	0	
NUMBER OF NON-ZERO READINGS:	623	
MAXIMUM 1-HR AVERAGE:	24.3 UG/M ³	@ HOUR(S) 21 ON DAY(S) 10
MAXIMUM 24-HR AVERAGE:	12.7 UG/M ³	ON DAY(S) 10
IZS CALIBRATION TIME:	0 HRS	OPERATIONAL TIME: 670 HRS
MONTHLY CALIBRATION TIME:	6 HRS	AMD OPERATION UPTIME 99.7 %
STANDARD DEVIATION	4.04	MONTHLY AVERAGE 4.94 UG/M ³

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



— LICA33 PM2 UG/M3

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010

PARTICULATE MATTER 2.5 MAX instantaneous maximum in ug/m³

MST	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		
DAY	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.	
1	1.4	3.8	4.1	3.2	3	3.1	3	3.4	3.2	3.3	3.6	5.2	4.7	3.5	4.7	6.1	4.7	5.8	4.6	3.8	4.1	9.3	6.4	6.3	9.3	4.3	24	
2	4.4	4.8	5.7	6	9	7.4	8.3	5.1	9.1	9.1	7.6	7.8	12.8	11.1	5.5	5.5	5.4	6.9	6.1	6.3	6.1	6.1	8.4	6.9	12.8	7.1	24	
3	10.2	9.7	8.7	8.1	8.4	8.4	7.8	7.4	6.8	8	5	5.7	10.6	11.7	10.1	10.2	12.7	14.9	12.7	11.5	11.5	11.6	11.2	9.4	14.9	9.7	24	
4	11	12.4	11.2	6.7	6.3	5.2	5.7	4.9	5.2	8	7.6	6.9	7.1	9.5	9.5	10	9	9.5	9.5	10.4	9	11.7	14.1	9.6	14.1	8.8	24	
5	9.5	8.1	8.3	10	9.7	10.6	11.6	9.9	10.4	10.5	C	C	C	14.3	14.5	13.7	13.4	12	9.2	13.4	14.8	16.3	14.9	16.3	14.9	16.3	11.8	24
6	8.1	11.8	11.1	8.5	8.1	9.6	13.8	13.3	15.2	16.8	16.9	12.3	6.9	5.1	6	6.6	10	14.6	15.5	16.3	15.5	9.4	9.5	11.2	16.9	0.0	24	
7	12.3	13.9	13.9	8.7	8.2	9	10.2	10.4	7	5.1	5.8	6.9	5	5.6	5.7	6	4.5	6.3	5.5	5.2	5.8	5.7	4	4.9	13.9	7.3	24	
8	5.5	4.3	4.1	3.6	4	4.6	4.6	4.7	3.9	4.6	3.3	4	3.3	4.1	4.6	3.5	3.4	4.3	3.9	3.9	4.1	3.3	4.1	3.3	5.5	4.0	24	
9	5	3.8	4.8	5.6	5.2	5.7	6.5	6.7	8.3	6.5	5.4	5.1	4.7	4.7	5.2	5	5.5	6.2	4.9	5.7	5.2	6.9	6.8	6.5	8.3	5.7	24	
10	7.1	8.8	9.1	10.4	20.1	12.3	12.4	16.2	15.7	15.7	17.8	19.6	19	17.5	15.8	15.6	14.9	15.5	12.5	12.6	26.8	29.8	30.4	26.8	30.4	16.8	24	
11	33	38.4	22.5	21.9	11.8	19.5	26.6	19.5	16.5	17.7	13.7	5.7	13.4	5.7	4.6	4.4	5	5.7	4.9	4.1	6.5	6	5.5	3.5	38.4	13.2	24	
12	3.5	2.5	3.2	5.8	6.4	5.3	5.6	3.8	4.1	C	C	5.2	5.5	5.3	5.6	5	5.6	4.9	4.7	4.1	4.2	4.6	4.6	4.4	6.4	4.7	24	
13	4.5	4.1	4.1	3.6	3.6	3.3	4.3	4.1	7.1	6.6	6.7	7.2	7.1	5.8	5.5	4.3	5.8	5.7	5.2	6	5.7	9.2	4	9.2	5.4	24		
14	3.5	3.3	4.2	2.4	3.5	3.1	3.9	2.2	5.8	9.4	5.5	2.6	3	3.2	2.8	3.1	3	3	3.3	3	4.1	4.1	4.1	3.3	9.4	3.7	24	
15	4.7	4.9	4.4	4.7	4.7	N	4.4	10.9	14	6.2	7.3	5.1	4.4	5.3	6.2	5.7	7.3	5.5	6.8	8.4	6.4	5.1	6.8	7.7	14	6.4	23	
16	9.2	10.5	8.8	11.1	8.9	13.3	8.1	13.6	13.2	12.4	11.3	10.1	10.6	10.8	11.1	10.7	6.7	7.1	6.2	6.2	9.7	10.4	19.9	22.8	22.8	10.9	24	
17	20.7	24.6	22	17.3	13.8	13.3	8.3	8.3	10.9	26.6	13.3	7.9	6	8	10.6	10	2.3	4	5.4	7	8.1	5.5	7.2	6.3	26.6	11.1	24	
18	7.2	7.3	7.7	10.5	5.2	4.5	3.1	3.2	6.4	7.4	7.2	0	0.3	1.8	1.3	0.6	1.6	1.7	1.9	2.5	1.3	2.9	3	1.9	10.5	3.8	24	
19	4.4	2.2	2.8	2.9	1.6	2.4	3.5	4.4	3.2	2.9	2.2	2	2.5	1.5	1.3	2.8	2.3	1.8	2.2	2.8	2.4	1.8	2.2	1.2	4.4	2.5	24	
20	1	1.2	1.9	1	1.2	1.6	1.2	1.3	1	1.1	0.9	1.2	1.6	2.5	1.4	2.3	1.8	1.9	2.2	3.6	3.9	3.8	3.9	4.7	4.7	2.0	24	
21	3.4	4.5	3.5	4.5	4.5	3.6	4.4	5.1	5.8	4.9	7.2	8.7	7.3	8.7	7.8	7.8	8.3	8.7	9.9	9.5	11.1	7.8	5.6	4.6	11.1	6.6	24	
22	2.5	2.6	2.3	1.8	2	1.7	1.7	2.9	4	3.1	2.5	1.4	2	1.3	3.1	2.4	2.9	1.6	3.4	2.4	4.1	5.1	3.4	4	5.1	2.7	24	
23	4.7	5.7	3.9	3	2.9	2.2	3.4	5.6	4.5	8	8.2	6.3	7.3	8.6	10.1	11.6	10.1	10.2	14.1	11	10.6	9.7	9.7	8.2	14.1	7.5	24	
24	7.5	8.2	7.3	8.1	9.4	9.1	9.1	8.4	6.8	10.2	9.8	8.4	8.1	9	10.1	10.8	10.7	13.7	14.4	15	15.3	17.5	14	14.4	17.5	10.6	24	
25	13.4	12.6	13.4	9.4	17.4	17.5	13	12.9	15	18.9	9.1	17.2	9.6	10.4	10.5	8.9	8.4	8.4	9.6	11	10.1	11.5	12.1	12.2	18.9	12.2	24	
26	11.8	12	10	9	15.6	8.6	9	15	15	18.8	10.3	10.7	10	10.6	9.1	10	9.8	9.2	8.6	9	9.7	7.5	10.4	6.8	18.8	10.7	24	
27	4.6	6.2	5.2	4.5	4.9	5.3	4.7	4	4.3	3.7	3.6	3.5	4.7	3.5	1.9	4.8	4.8	5	4.3	4.1	4.9	4.7	4.4	4.6	6.2	4.4	24	
28	5.1	6.4	4.1	6	6.6	6.9	6.1	5.2	8.1	7.5	7.3	7.9	7.5	8.9	10	8.4	6.3	7.3	7.1	7.7	9.4	8.2	8.5	8.9	10	7.3	24	
HOURLY MAX	33	38	23	22	20	20	27	20	17	27	18	20	19	18	16	16	15	16	16	16	27	30	30	27				
HOURLY AVG	7.8	8.5	7.6	7.1	7.4	7.3	7.3	7.6	8.2	9.4	7.7	6.8	6.9	6.9	7.0	7.1	6.6	7.2	7.2	7.2	8.2	8.2	8.8	8.0				

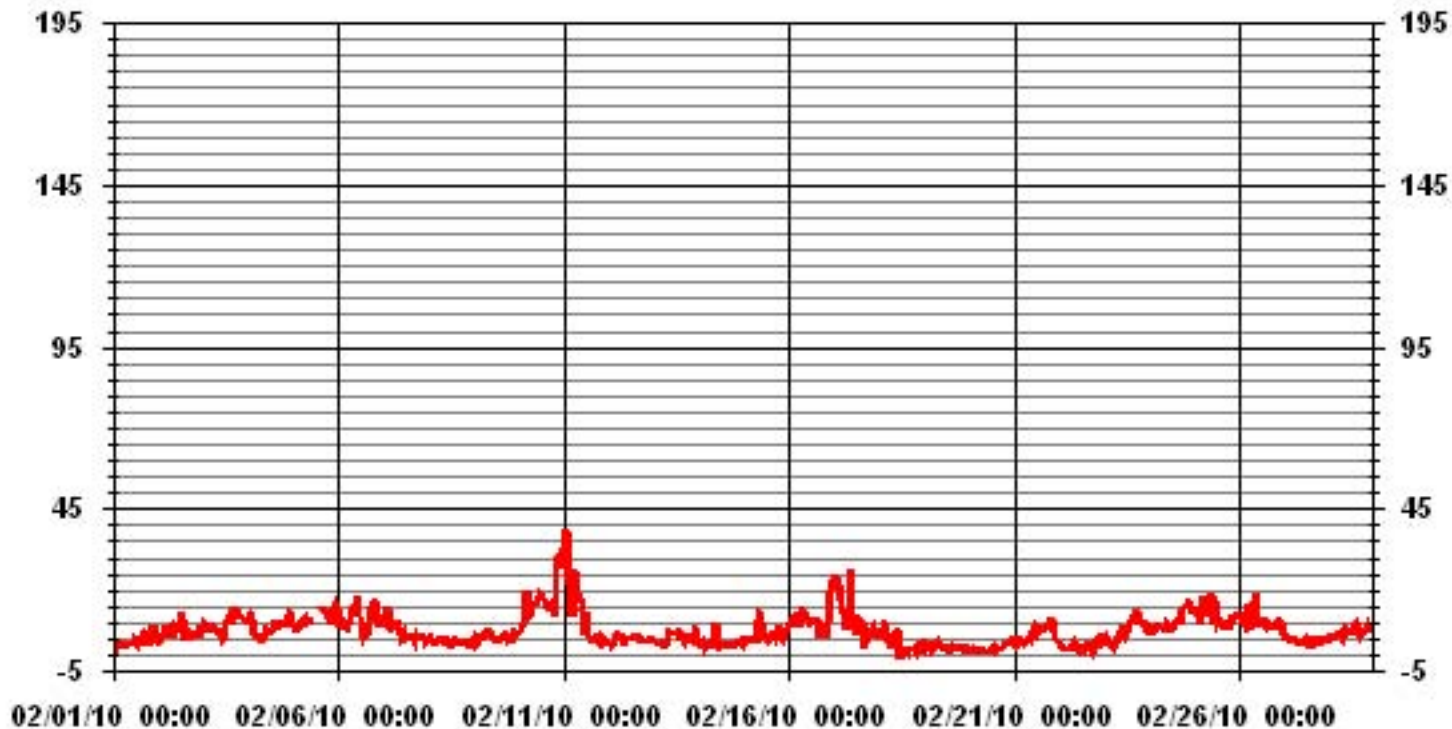
STATUS FLAG CODES

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

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	664
MAXIMUM INSTANTANEOUS VALUE:	38.4 UG/M ³ @ HOUR(S) 1 ON DAY(S) 11
IZS CALIBRATION TIME:	0 HRS
MONTHLY CALIBRATION TIME:	6 HRS
STANDARD DEVIATION:	4.93
OPERATIONAL TIME:	671 HRS

01 Hour Averages



— LICA33 PM2MAX UG/M3

LICA33
PM2 / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 33
Site Name : LICA33
Parameter : PM2
Units : UG/M3

Wind Parameter : WDR
Instrument Height : 10 Meters

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 30.0	2.25	1.05	1.05	3.15	12.33	13.68	16.09	10.22	6.91	4.66	11.12	3.30	4.81	4.66	1.95	2.70	100.00
< 60.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 80.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 120.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 240.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 240.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.25	1.05	1.05	3.15	12.33	13.68	16.09	10.22	6.91	4.66	11.12	3.30	4.81	4.66	1.95	2.70	

Calm : .00 %

Total # Operational Hours : 665

Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 30.0	15	7	7	21	82	91	107	68	46	31	74	22	32	31	13	18	665
< 60.0																	
< 80.0																	
< 120.0																	
< 240.0																	
>= 240.0																	
Totals	15	7	7	21	82	91	107	68	46	31	74	22	32	31	13	18	

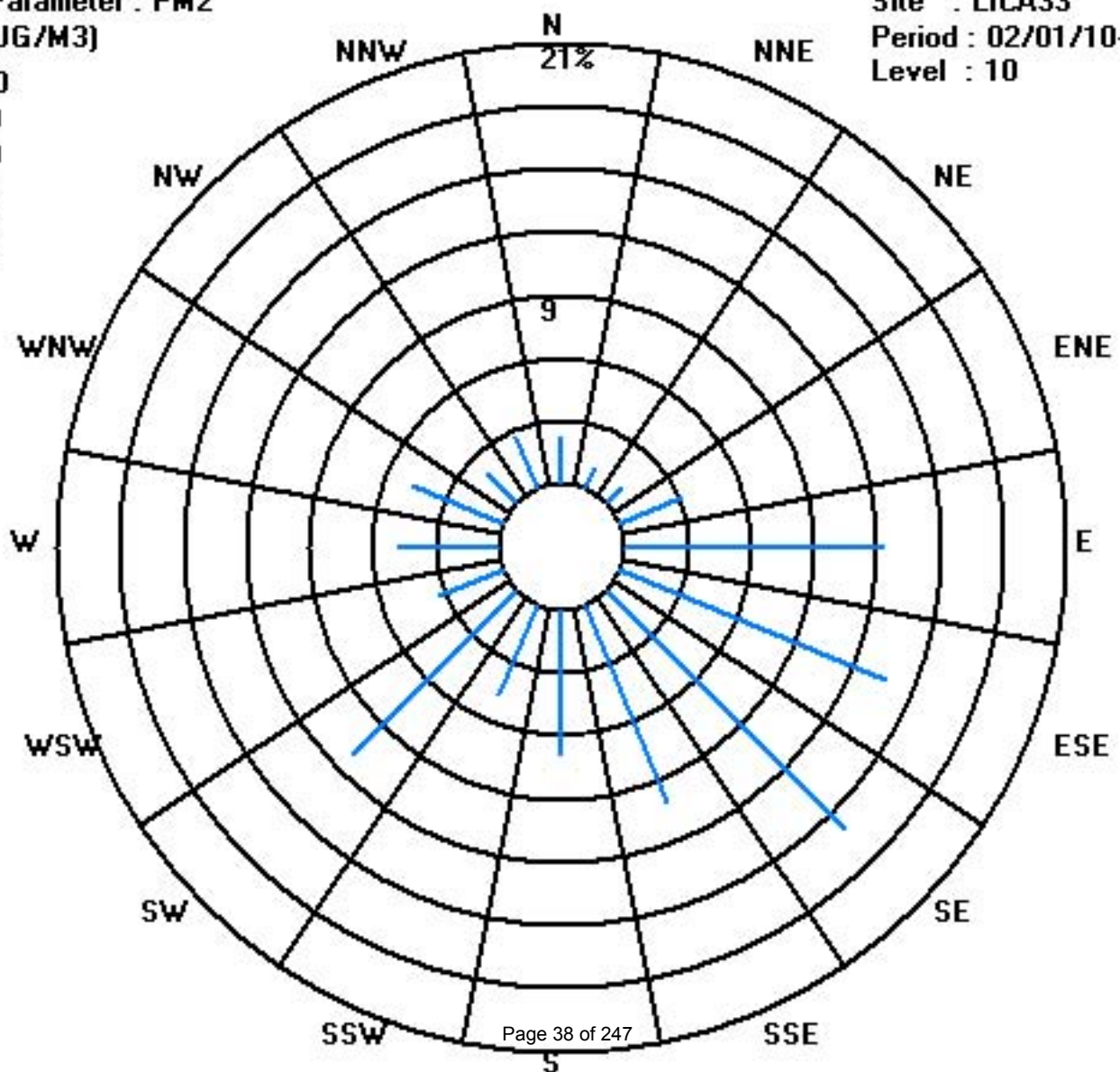
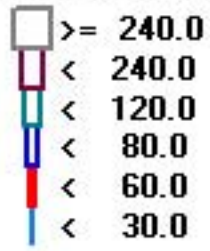
Calm : .00 %

Total # Operational Hours : 665

Class Limits (UG/M3)

Period : 02/01/10-02/28/10

Level : 10



Nitrogen Dioxide

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010

NITROGEN DIOXIDE hourly averages in ppb

MST		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 START	HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.	
DAY																													
1		0	1	1	1	1	1	2	IZS	2	2	2	2	2	3	3	4	4	4	4	4	6	6	8	8	8	2.8	24	
2		8	7	11	14	17	22	IZS	29	25	17	13	11	9	7	5	4	7	7	5	7	8	8	8	8	29	11.2	24	
3		7	6	5	5	11	IZS	6	7	7	C	C	C	C	C	C	C	4	5	7	8	9	7	7	7	11	6.8	24	
4		5	3	2	2	IZS	1	1	1	1	1	2	2	2	2	2	3	3	3	3	5	5	5	6	7	7	2.9	24	
5		6	3	3	IZS	3	4	3	3	3	2	2	2	2	3	3	3	3	4	4	4	4	3	3	3	6	3.1	24	
6		3	3	IZS	4	4	3	3	3	3	3	2	2	1	1	1	1	1	2	1	1	2	2	1	1	4	2.1	24	
7		1	IZS	1	1	2	2	2	2	1	1	1	1	1	1	1	2	1	2	2	2	2	2	3	2	3	1.6	24	
8		IZS	2	2	4	4	2	3	2	2	1	2	2	2	2	2	3	5	4	4	3	3	4	IZS	5	2.7	24		
9		3	3	3	4	4	4	4	5	4	4	4	3	3	4	4	4	6	8	9	8	9	8	IZS	9	5.1	24		
10		7	8	8	7	8	9	11	12	12	10	10	9	8	8	8	11	14	18	17	17	17	IZS	19	19	11.6	24		
11		17	18	22	22	22	20	19	17	12	10	9	9	8	6	6	8	12	11	10	IZS	12	11	8	22	13.0	24		
12		4	3	5	5	5	4	4	2	2	1	1	1	1	1	1	1	1	1	1	IZS	1	1	0	1	5	2.1	24	
13		1	1	1	1	1	2	3	4	4	7	4	2	2	2	1	1	2	4	IZS	2	3	4	3	3	7	2.5	24	
14		3	3	3	2	2	3	5	5	3	2	1	2	1	1	1	1	IZS	1	1	1	1	1	1	1	5	2.0	24	
15		1	2	2	2	2	N	3	3	4	6	6	4	3	3	3	5	IZS	8	9	13	14	14	13	15	15	6.1	23	
16		14	16	16	11	10	13	23	17	11	12	12	11	9	7	9	IZS	6	13	15	14	12	14	11	8	23	12.3	24	
17		7	7	7	7	6	10	9	12	10	7	6	6	5	4	IZS	3	4	3	3	3	4	4	5	6	12	6.0	24	
18		7	5	6	6	5	5	6	7	5	4	3	2	1	IZS	2	2	3	4	6	6	6	10	11	9	11	5.3	24	
19		10	11	10	8	8	8	9	6	4	3	2	2	IZS	0	0	1	2	3	3	2	2	1	1	1	11	4.2	24	
20		0	0	1	0	0	0	0	0	0	0	0	IZS	0	0	0	1	0	2	6	5	3	2	1	6	0.9	24		
21		1	1	1	1	2	1	2	2	1	1	IZS	2	2	3	3	3	4	6	8	11	11	9	4	2	11	3.5	24	
22		2	2	2	2	2	1	1	2	2	IZS	1	1	1	1	0	1	1	1	5	6	4	7	6	5	7	2.4	24	
23		5	6	7	8	9	5	5	5	IZS	8	7	4	4	4	4	4	4	4	5	4	4	3	2	2	9	4.9	24	
24		2	2	2	2	2	2	2	IZS	2	3	3	3	3	3	3	4	5	11	13	17	18	15	12	11	18	6.1	24	
25		11	10	9	8	8	10	IZS	15	10	7	6	5	4	5	6	4	4	4	6	5	6	6	6	7	15	7.0	24	
26		8	9	8	9	7	IZS	7	7	8	8	7	6	6	7	8	10	12	12	13	11	10	10	9	8	13	8.7	24	
27		5	4	3	4	IZS	3	2	2	1	1	1	2	1	1	1	3	2	1	1	2	1	1	2	1	5	2.0	24	
28		1	1	1	IZS	2	2	3	3	5	4	4	3	3	3	3	3	3	4	5	4	4	4	4	4	5	3.2	24	
HOURLY MAX		17	18	22	22	22	23	29	25	17	13	11	9	8	9	11	14	18	17	17	18	15	19	19					
HOURLY AVG		5.1	5.1	5.3	5.4	5.7	5.5	5.3	6.7	5.3	4.8	4.3	3.8	3.3	3.2	3.1	3.2	4.0	5.5	6.0	6.6	6.3	6.0	5.9	5.8				

STATUS FLAG CODES

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

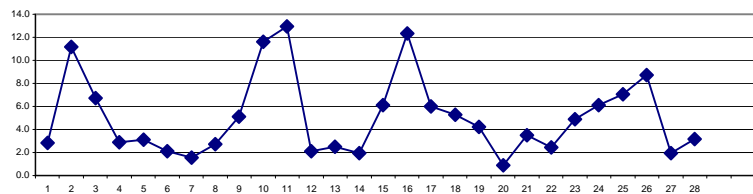
OBJECTIVE LIMIT:

ALBERTA ENVIRONMENT:	1-HR	212	PPB	24-HR	106	PPB
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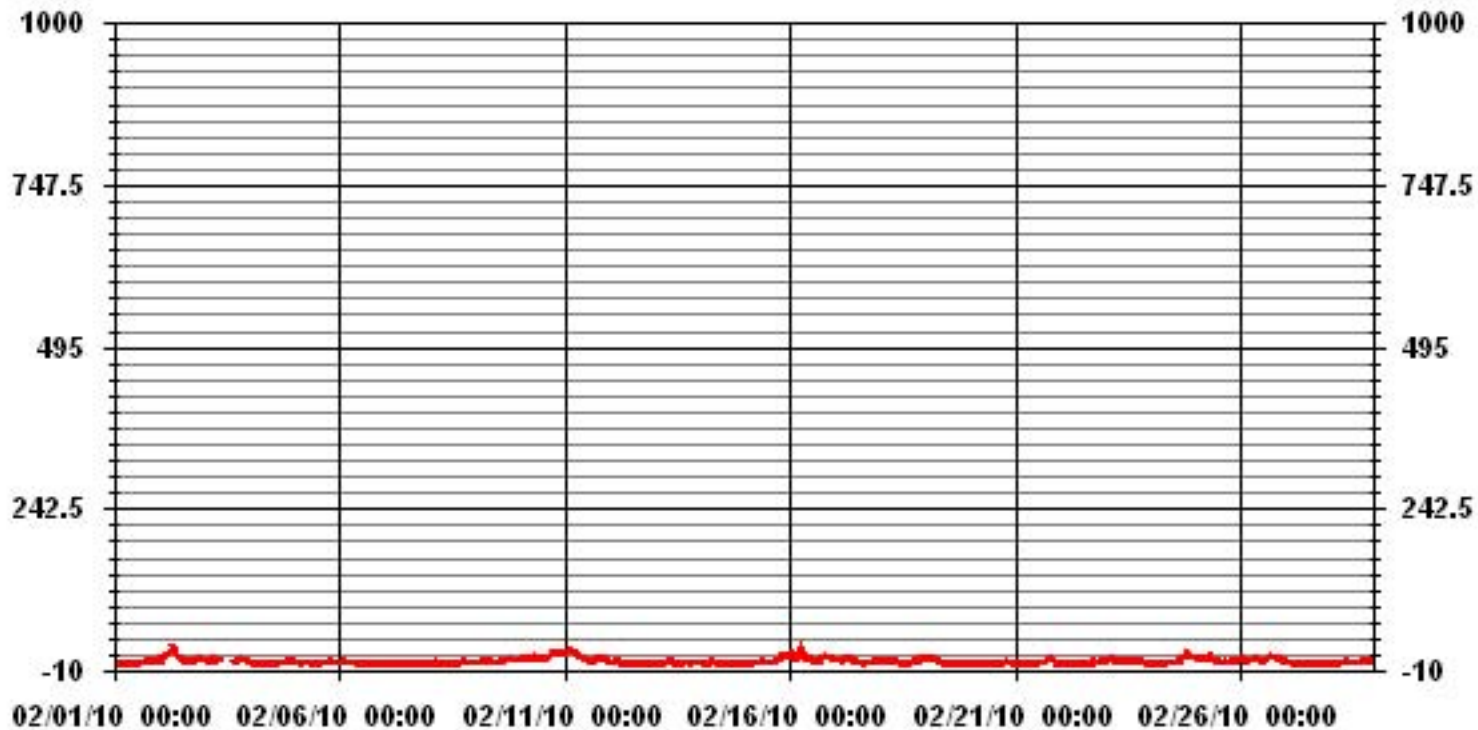
MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0					
NUMBER OF 24-HR EXCEEDENCES:	0					
NUMBER OF NON-ZERO READINGS:	615					
MAXIMUM 1-HR AVERAGE:	29	PPB	@ HOUR(S)	7	ON DAY(S)	2
MAXIMUM 24-HR AVERAGE:	13.0	PPB			ON DAY(S)	15
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	671	HRS	
MONTHLY CALIBRATION TIME:	7	HRS	AMD OPERATION UPTIME:	99.9	%	
STANDARD DEVIATION:	4.47		MONTHLY AVERAGE:	5.06	PPB	

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



— LICA33 NO2_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010

NITROGEN DIOXIDE MAX instantaneous maximum in ppb

MST

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	2	2	2	3	IZS	3	3	3	3	3	3	4	4	5	5	5	5	6	9	10	15	15	4.3	24	
2	10	9	13	20	21	27	IZS	69	27	31	15	12	11	10	6	6	12	11	6	9	9	9	9	9	69	15.7	24	
3	9	9	6	7	17	IZS	10	9	8	C	C	C	C	C	C	C	7	8	9	10	9	8	8	8	17	8.9	24	
4	7	3	3	2	IZS	2	2	2	2	2	3	2	2	2	3	3	3	4	5	6	6	7	7	8	8	3.7	24	
5	8	6	3	IZS	4	4	4	4	4	3	3	3	3	3	3	4	4	4	4	5	6	4	4	4	8	4.0	24	
6	4	4	IZS	7	5	4	4	4	4	5	3	2	2	2	2	2	2	3	2	2	3	3	2	2	7	3.2	24	
7	2	IZS	2	2	3	2	3	3	2	2	2	1	1	1	2	3	3	3	3	3	2	3	3	2	3	2.3	24	
8	IZS	3	3	6	6	4	4	2	2	2	2	2	3	2	3	3	5	6	5	4	4	4	5	IZS	6	3.6	24	
9	3	4	4	7	5	5	5	6	6	5	5	8	4	5	5	6	7	11	11	9	10	9	IZS	10	11	6.5	24	
10	8	10	10	8	9	10	14	16	16	11	12	10	9	9	9	13	17	22	19	20	21	IZS	21	21	22	13.7	24	
11	21	21	24	23	24	22	2	23	15	13	11	10	11	9	7	7	10	13	13	16	IZS	15	15	9	24	14.5	24	
12	7	4	7	6	6	5	5	3	2	2	M	2	2	2	2	2	2	2	2	2	IZS	1	1	1	2	7	3.1	23
13	1	2	1	1	3	3	5	5	10	11	5	3	3	3	2	2	2	6	IZS	3	4	5	5	3	11	3.8	24	
14	4	4	4	3	3	5	8	8	5	2	2	2	2	2	2	2	2	IZS	2	2	2	2	2	2	8	3.1	24	
15	2	3	2	3	3	N	7	3	5	7	7	5	4	4	4	6	IZS	9	12	30	19	16	16	17	30	8.4	23	
16	18	19	22	15	18	20	27	23	16	14	12	14	19	11	34	IZS	7	20	22	19	14	19	14	9	34	17.7	24	
17	8	8	8	8	7	12	11	16	12	11	7	13	7	5	IZS	27	70	4	4	4	5	5	6	8	70	11.6	24	
18	10	6	8	8	6	6	7	7	6	5	4	7	2	IZS	12	3	4	5	7	9	8	12	14	13	14	7.3	24	
19	11	13	11	11	9	9	13	7	5	5	3	2	IZS	2	1	2	2	4	4	3	4	2	2	2	13	5.5	24	
20	1	2	1	1	1	0	0	1	1	1	1	IZS	1	1	1	1	2	1	4	8	6	4	3	2	8	1.9	24	
21	1	1	1	2	2	2	3	2	2	2	IZS	2	3	3	3	4	5	10	10	12	16	12	7	3	16	4.7	24	
22	3	3	3	3	3	2	2	3	4	IZS	2	1	1	1	1	1	2	3	10	9	8	9	9	6	10	3.9	24	
23	7	10	10	12	12	7	6	7	IZS	10	9	5	4	4	5	5	5	5	6	5	4	4	3	3	12	6.4	24	
24	3	3	3	3	3	3	3	IZS	3	8	7	3	3	3	4	5	9	14	16	21	23	19	13	13	23	8.0	24	
25	13	11	10	9	10	14	IZS	23	14	9	8	6	5	6	7	5	4	5	8	6	7	7	7	8	23	8.8	24	
26	9	10	9	11	9	IZS	8	9	9	14	10	7	7	7	8	12	15	13	15	12	11	12	11	10	15	10.3	24	
27	8	5	4	5	IZS	4	3	3	2	2	2	3	2	1	1	6	4	2	2	3	1	3	3	2	8	3.1	24	
28	1	1	2	IZS	3	3	4	4	7	6	5	5	4	4	4	4	5	6	6	6	5	5	5	4	7	4.3	24	
HOURLY MAX	21	21	24	23	24	27	27	69	27	31	15	14	19	11	34	27	70	22	22	30	23	19	21	21				
HOURLY AVG	6.7	6.5	6.5	7.1	7.5	7.1	6.3	10.1	7.1	7.2	5.7	5.1	4.5	4.0	5.2	5.3	8.0	7.3	7.8	8.9	8.0	7.7	7.6	7.2				

STATUS FLAG CODES

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

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	631					
MAXIMUM INSTANTANEOUS VALUE:	70	PPB	@ HOUR(S)	16	ON DAY(S)	17
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	8	HRS				
STANDARD DEVIATION:	6.55					

01 Hour Averages



— LICA33 HO2MAX PPB

LICA33
 NO2_ / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 33
 Site Name : LICA33
 Parameter : NO2_
 Units : PPB

Wind Parameter : WDR
 Instrument Height : 10 Meters

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	2.20	.94	.94	3.14	12.59	14.01	15.90	9.44	7.08	4.40	11.18	3.46	4.88	4.88	2.04	2.83	100.00
< 110	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.20	.94	.94	3.14	12.59	14.01	15.90	9.44	7.08	4.40	11.18	3.46	4.88	4.88	2.04	2.83	

Calm : .00 %

Total # Operational Hours : 635

Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	14	6	6	20	80	89	101	60	45	28	71	22	31	31	13	18	635
< 110																	
< 210																	
>= 210																	
Totals	14	6	6	20	80	89	101	60	45	28	71	22	31	31	13	18	

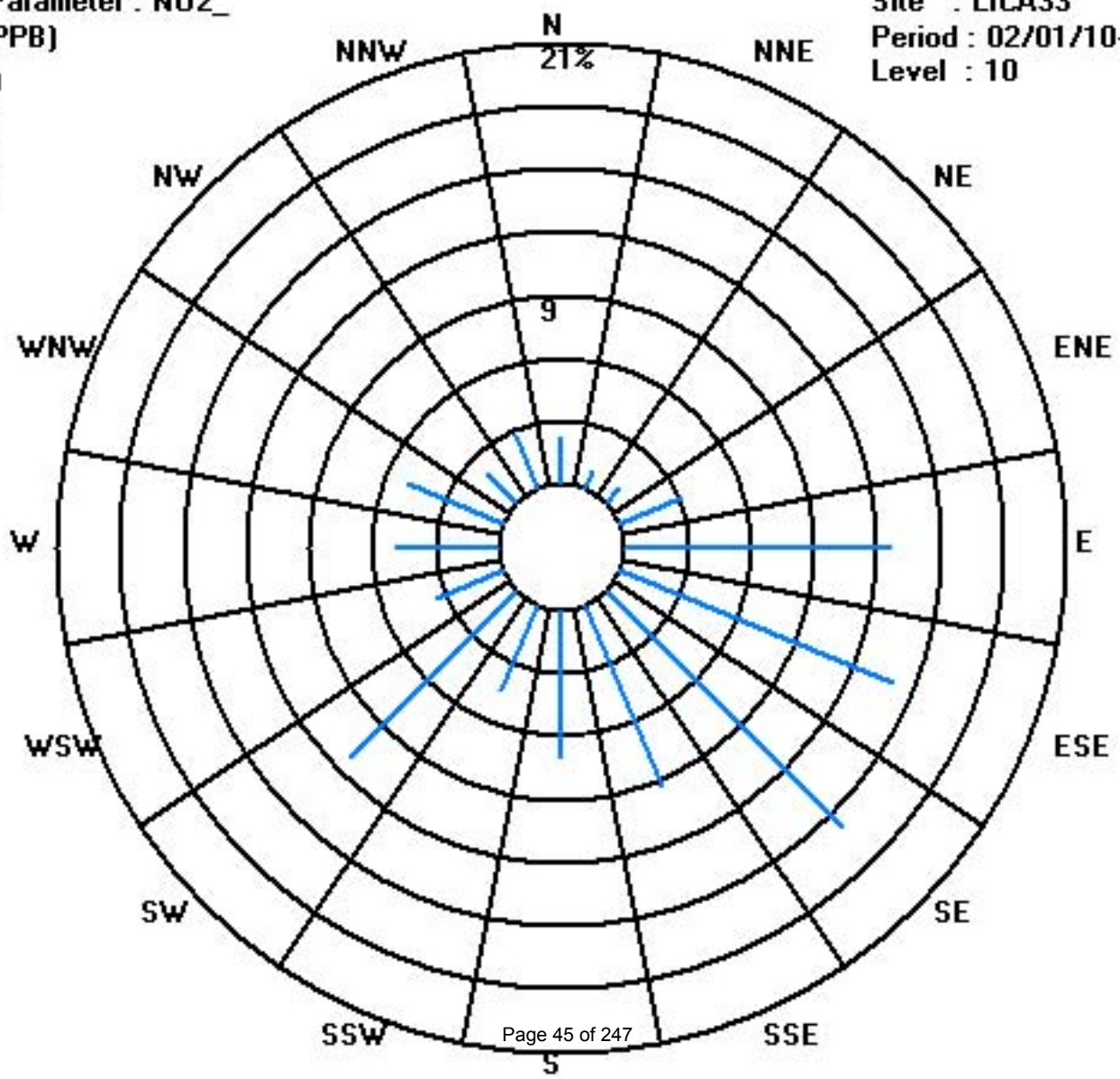
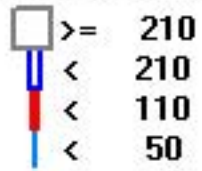
Calm : .00 %

Total # Operational Hours : 635

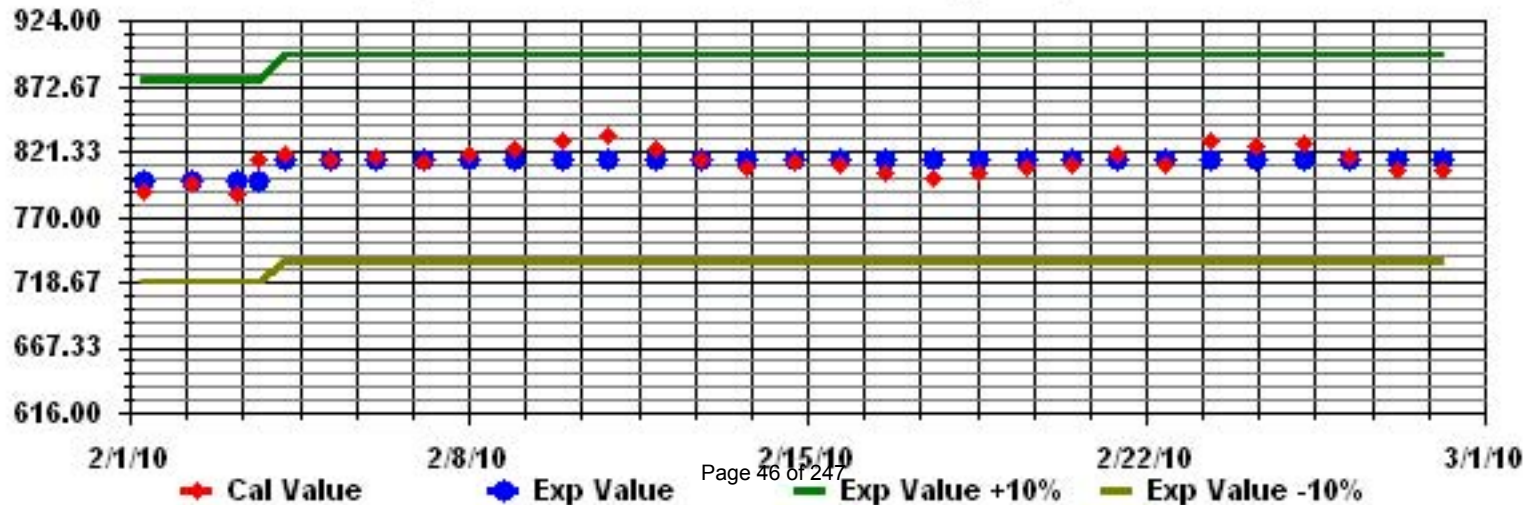
Class Limits (PPB)

Period : 02/01/10-02/28/10

Level : 10



Calibration Graph for Site: LICA33 Parameter: NO2_ Sequence: NO2 Phase: SPAN



Nitric Oxide

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010

NITRIC OXIDE hourly averages in ppb

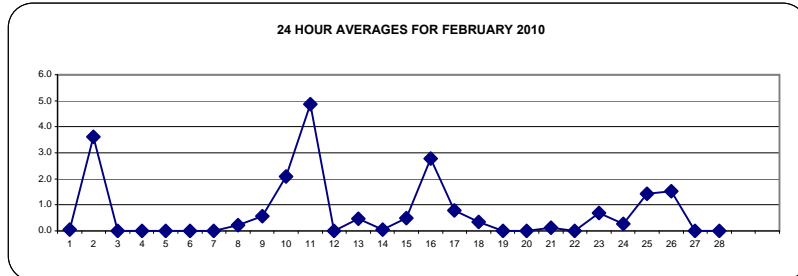
MST		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY 24-HOUR			
DAY	HOURLY MAX	HOURLY AVG	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	MAX.	AVG.	RDGS.	
1	0	0.0	0	0	0	0	0	0	0	IZS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.0	24	
2	0	0.0	0	0	0	0	3	IZS	15	18	13	12	10	6	3	1	1	1	0	0	0	0	0	0	0	18	3.6	24	
3	0	0.0	0	0	0	0	IZS	0	0	0	C	C	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0.0	24	
4	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	0.0	24	
5	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	0.0	24	
6	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	0.0	24	
7	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	0.0	24	
8	IZS	0.0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	IZS	1	0.2	24
9	0	0.0	0	0	0	0	0	0	0	0	1	2	2	2	2	2	1	1	0	0	0	0	0	0	IZS	0	2	0.6	24
10	0	0.0	0	0	0	0	0	0	0	2	4	6	6	6	5	6	6	4	1	0	0	0	IZS	1	1	6	2.1	24	
11	1	2	9	6	4	3	5	3	8	15	13	12	11	9	5	3	2	0	0	0	0	IZS	1	0	0	15	4.9	24	
12	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	0.0	24	
13	0	0.0	0	0	0	0	0	0	0	1	3	3	2	1	1	0	0	0	0	0	IZS	0	0	0	0	0	3	0.5	24
14	0	0.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	IZS	0	0	0	0	0	0	0	1	0.0	24
15	0	0.0	0	0	0	0	N	0	0	0	2	2	2	1	1	1	1	IZS	0	0	1	0	0	0	0	0	2	0.5	23
16	0	0.0	0	0	0	0	0	5	2	5	10	11	10	7	4	5	IZS	1	2	1	1	0	0	0	0	0	11	2.8	24
17	0	0.0	0	0	0	0	0	0	1	2	3	3	3	2	2	IZS	1	1	0	0	0	0	0	0	0	0	3	0.8	24
18	0	0.0	0	0	0	0	0	0	0	1	2	2	1	1	IZS	1	0	0	0	0	0	0	0	0	0	0	2	0.3	24
19	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	0	0.0	24
20	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	0	0.0	24
21	0	0.0	0	0	0	0	0	0	0	0	0	0	IZS	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0.1	24
22	0	0.0	0	0	0	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
23	0	0.0	0	0	0	0	0	0	0	0	IZS	5	4	2	2	1	1	0	0	0	0	0	0	0	0	0	5	0.7	24
24	0	0.0	0	0	0	0	0	0	0	IZS	0	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	1	0.3	24
25	0	0.0	0	0	0	0	0	0	IZS	3	5	6	5	4	3	3	3	1	0	0	0	0	0	0	0	0	6	1.4	24
26	0	0.0	0	0	0	0	0	IZS	0	1	3	6	5	4	3	3	3	3	1	0	0	0	0	0	0	0	6	1.5	24
27	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	0	0.0	24
28	0	0.0	0	0	0	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
HOURLY MAX	1	2	9	6	4	3	5	15	18	15	13	12	11	9	6	6	4	2	1	1	0	1	1	1	1	1			
HOURLY AVG	0.0	0.1	0.3	0.2	0.2	0.2	0.4	1.0	1.7	2.7	2.7	2.3	1.8	1.4	1.2	0.7	0.5	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0			

STATUS FLAG CODES

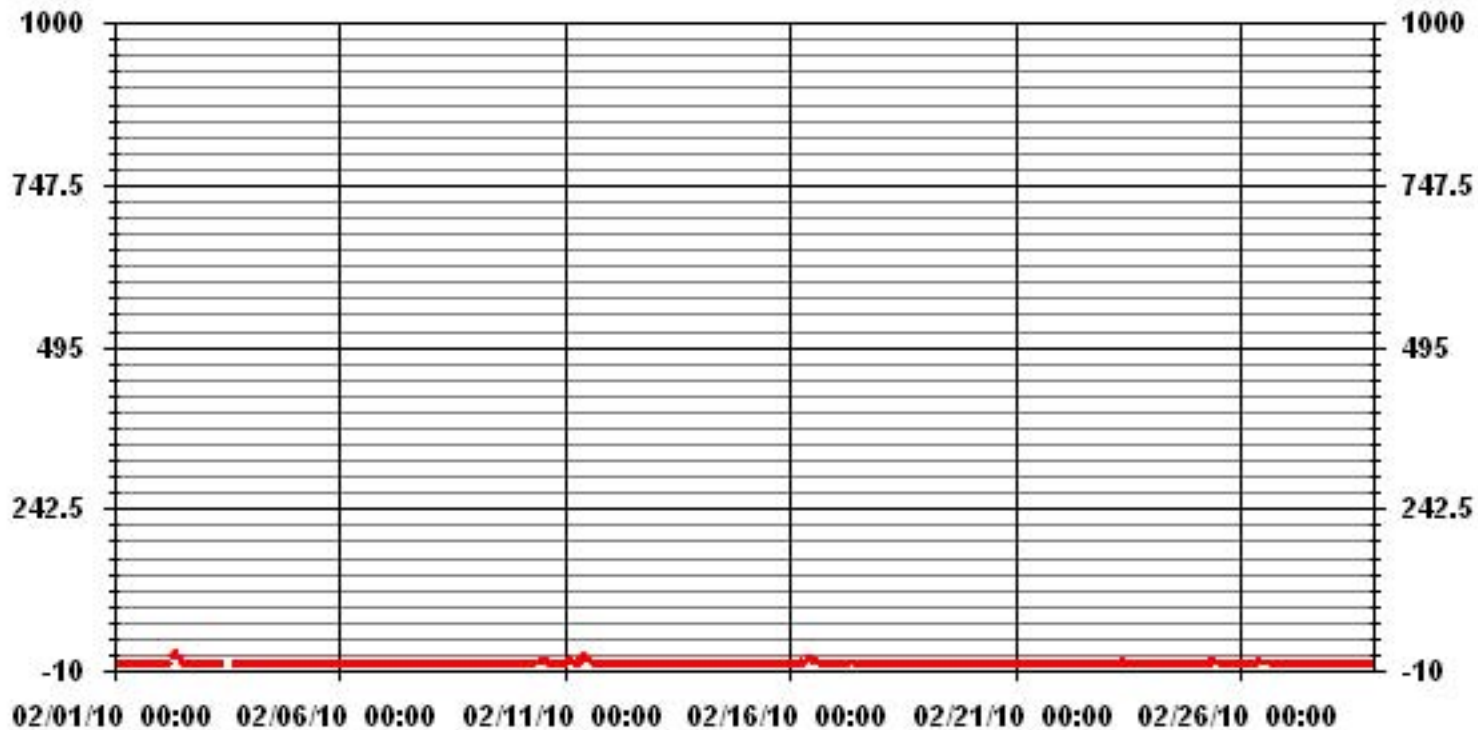
S - OUT OF SERVICE	IZS - IZS - DAILY ZERO/SPAN CHECK
N - INVALID DATA	M - MAINTENANCE
D - INSTRUMENT DRIFT	P - POWER FAILURE
C - CALIBRATION	NA - NOT APPLICABLE

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	134					
MAXIMUM 1-HR AVERAGE:	18	PPB	@ HOUR(S)	8	ON DAY(S)	2
MAXIMUM 24-HR AVERAGE:	4.9	PPB			ON DAY(S)	11
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	671	HRS	
MONTHLY CALIBRATION TIME:	7	HRS	AMD OPERATION UPTIME:	99.9	%	
STANDARD DEVIATION:	2.13		MONTHLY AVERAGE:	0.74	PPB	



01 Hour Averages



— LICA33 NO_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010

NITRIC OXIDE MAX instantaneous maximum in ppb

MST

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	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	0.4	24
2	0	0	0	1	1	6	IZS	110	26	31	13	11	8	6	2	3	2	1	0	1	0	0	0	0	110	9.7	24
3	0	0	0	0	0	IZS	0	0	1	C	C	C	C	C	C	C	0	0	0	0	0	0	0	0	1	0.1	24
4	0	0	0	0	IZS	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0.1	24
5	0	0	0	IZS	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0.3	24
6	0	0	IZS	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
7	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0.1	24
8	IZS	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	IZS	1	0.4	24
9	0	0	0	0	0	0	0	0	1	1	3	5	2	3	3	2	2	0	1	0	0	0	IZS	1	5	1.0	24
10	0	0	0	0	0	0	0	2	3	7	8	7	7	7	6	7	6	3	1	2	1	IZS	2	2	8	3.1	24
11	1	3	13	12	8	4	7	6	16	25	17	14	13	11	6	5	2	1	0	1	IZS	2	1	1	25	7.3	24
12	1	0	0	0	0	0	0	0	0	0	M	0	0	0	0	0	0	0	0	IZS	0	0	0	0	1	0.0	23
13	0	0	0	0	0	0	0	0	4	5	4	2	2	1	0	0	0	0	IZS	0	0	0	0	0	5	0.8	24
14	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	IZS	0	0	0	0	0	0	1	0.3	24
15	0	0	0	0	0	N	1	0	1	2	3	2	1	1	1	2	IZS	2	1	23	0	0	0	0	23	1.8	23
16	0	1	1	1	0	1	8	6	7	11	12	14	15	6	27	IZS	2	13	26	5	1	1	1	0	27	6.9	24
17	0	0	0	0	0	0	2	4	3	10	4	8	4	4	IZS	4	43	1	0	0	0	0	0	0	43	3.8	24
18	0	0	0	0	0	0	0	1	2	3	3	2	1	IZS	13	1	1	0	0	0	0	0	0	0	13	1.2	24
19	0	0	0	0	0	0	1	0	1	1	1	1	IZS	1	0	0	0	0	0	0	0	0	0	0	1	0.3	24
20	0	0	0	0	0	0	0	0	0	0	0	IZS	1	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
21	0	0	0	0	0	0	0	0	0	1	IZS	1	2	1	1	1	1	1	0	0	0	0	0	0	2	0.4	24
22	0	0	0	0	0	0	0	0	0	IZS	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0.2	24
23	0	2	0	0	0	0	0	1	IZS	6	5	3	2	2	2	1	1	0	0	0	0	0	0	0	6	1.1	24
24	0	0	0	0	0	0	0	IZS	1	14	3	1	1	1	1	1	1	1	1	1	1	1	1	0	14	1.3	24
25	0	0	0	0	0	0	IZS	29	7	8	6	5	4	4	4	2	1	1	0	0	0	0	0	29	3.1	24	
26	0	0	0	0	0	IZS	1	3	4	16	9	4	4	4	3	4	5	2	2	1	0	0	0	16	2.7	24	
27	0	0	0	0	IZS	1	0	0	0	0	1	1	1	0	0	1	1	0	0	0	0	0	0	1	0.3	24	
28	0	0	0	IZS	0	0	0	0	1	1	1	1	1	1	0	0	1	1	0	0	0	0	0	1	0.3	24	
HOURLY MAX	1	3	13	12	8	6	8	110	26	31	17	14	15	11	27	7	43	13	26	23	1	2	2	2			
HOURLY AVG	0.1	0.2	0.5	0.5	0.3	0.5	0.8	6.2	3.0	5.6	3.9	3.4	2.9	2.3	2.8	1.5	2.8	1.0	1.2	1.3	0.1	0.1	0.1	0.2			

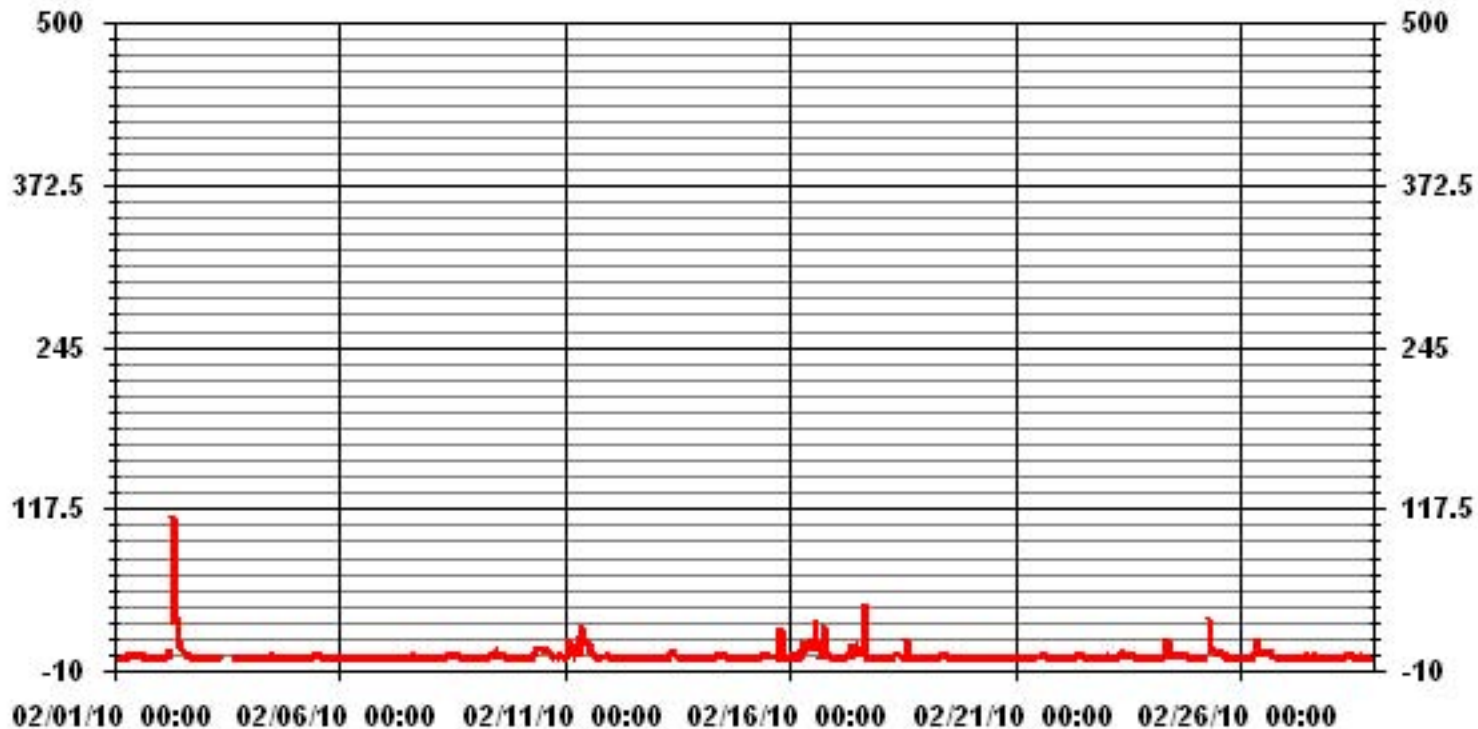
STATUS FLAG CODES

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

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	243					
MAXIMUM INSTANTANEOUS VALUE:	110	PPB	@ HOUR(S)	7	ON DAY(S)	2
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	670	HRS	
MONTHLY CALIBRATION TIME:	8	HRS				
STANDARD DEVIATION:	5.95					

01 Hour Averages



LICA33
 NO_ / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 33
 Site Name : LICA33
 Parameter : NO_
 Units : PPB

Wind Parameter : WDR
 Instrument Height : 10 Meters

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	2.20	.94	.94	3.14	12.59	14.01	15.90	9.44	7.08	4.40	11.18	3.46	4.88	4.88	2.04	2.83	100.00
< 110	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.20	.94	.94	3.14	12.59	14.01	15.90	9.44	7.08	4.40	11.18	3.46	4.88	4.88	2.04	2.83	

Calm : .00 %

Total # Operational Hours : 635

Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	14	6	6	20	80	89	101	60	45	28	71	22	31	31	13	18	635
< 110																	
< 210																	
>= 210																	
Totals	14	6	6	20	80	89	101	60	45	28	71	22	31	31	13	18	

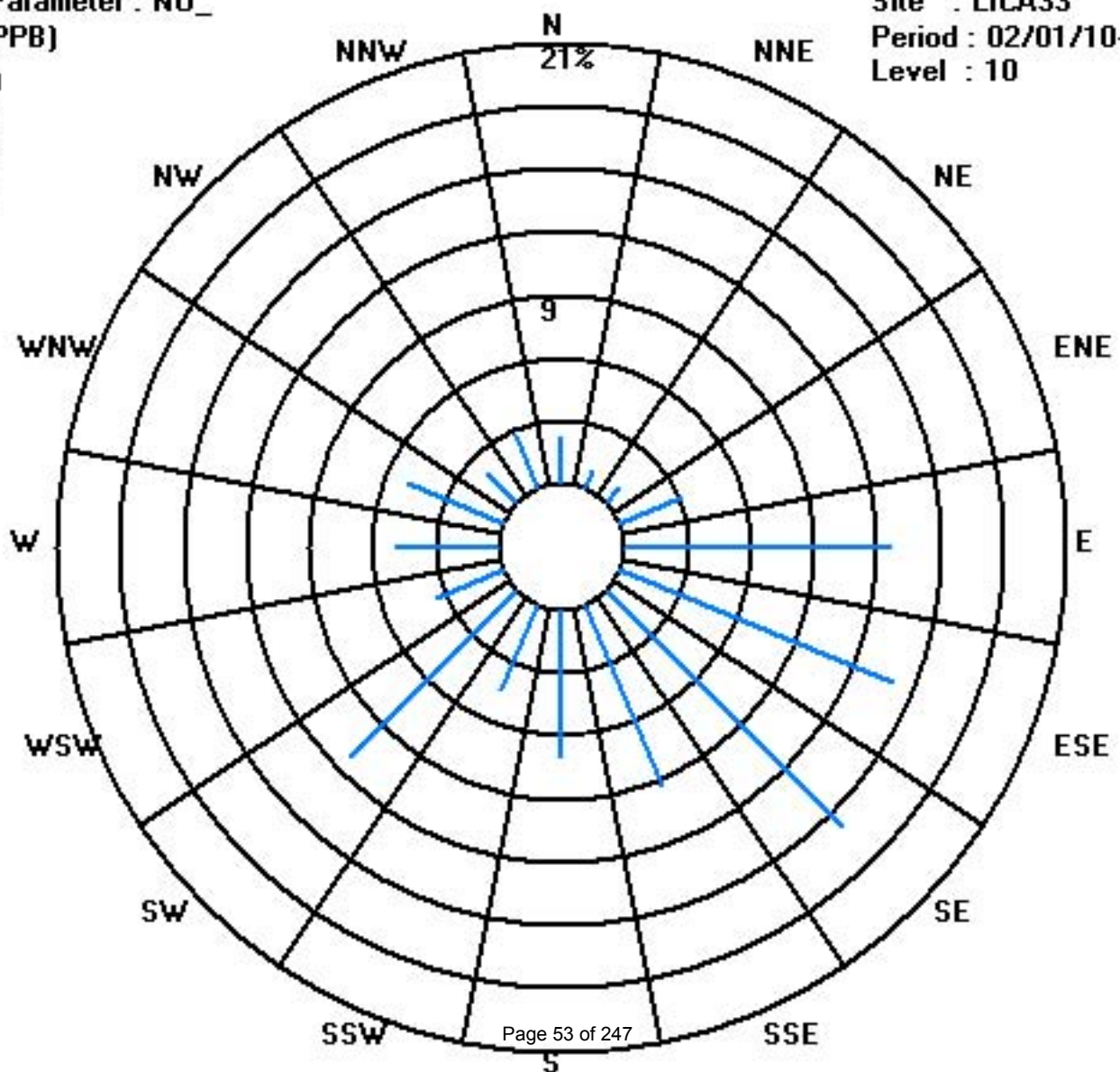
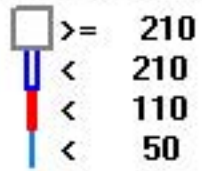
Calm : .00 %

Total # Operational Hours : 635

Class Limits (PPB)

Period : 02/01/10-02/28/10

Level : 10



Oxides of Nitrogen

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010

OXIDES OF NITROGEN hourly averages in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY 24-HOUR			
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.	
DAY																												
1	0	0	1	1	1	1	2	IZS	2	3	3	3	3	4	4	4	4	4	4	4	4	6	6	8	8	3.1	24	
2	8	7	11	14	18	26	IZS	44	44	30	25	21	16	11	6	6	8	7	5	7	8	8	8	8	44	15.0	24	
3	7	6	5	5	11	IZS	6	8	7	C	C	C	C	C	C	C	5	5	8	8	9	8	7	7	11	7.0	24	
4	5	2	2	2	IZS	1	1	1	1	1	2	2	2	2	2	2	3	3	3	4	5	5	6	7	7	2.8	24	
5	6	3	3	IZS	3	4	3	3	3	3	2	3	3	3	3	3	3	3	4	4	4	4	2	3	3	6	3.2	24
6	3	3	IZS	4	4	3	3	3	3	4	2	2	1	1	1	1	1	2	1	1	2	2	1	1	4	2.1	24	
7	1	IZS	1	1	2	2	2	2	1	1	1	1	1	1	2	1	2	2	2	1	2	2	1	2	1	2	1.4	24
8	IZS	2	2	4	4	2	3	2	2	2	2	3	3	3	3	3	4	5	4	4	3	3	4	IZS	5	3.0	24	
9	3	3	3	4	4	4	4	5	5	5	6	5	5	6	6	6	7	9	9	9	9	9	8	IZS	9	9	5.8	24
10	7	8	8	7	8	9	11	12	14	15	16	15	14	14	15	17	19	20	17	18	17	IZS	20	20	20	14.0	24	
11	18	20	32	29	26	23	24	21	21	26	23	22	21	17	12	9	10	12	11	11	IZS	13	12	8	32	18.3	24	
12	4	2	4	5	5	4	4	2	2	2	2	1	1	1	1	1	1	1	1	IZS	1	0	0	1	5	2.0	24	
13	0	1	0	0	1	2	2	4	5	11	7	4	4	3	1	1	2	3	IZS	2	2	4	3	3	11	2.8	24	
14	3	3	3	2	2	3	4	5	3	2	2	3	1	1	1	1	1	IZS	1	1	1	1	1	1	5	2.0	24	
15	1	2	1	2	2	N	3	2	4	7	8	6	5	5	5	6	IZS	9	9	14	14	14	13	15	15	6.7	23	
16	15	16	16	11	11	13	28	20	16	23	23	21	16	12	14	IZS	7	15	16	15	12	15	11	8	28	15.4	24	
17	7	7	7	7	6	10	9	13	13	11	9	10	8	7	IZS	5	5	3	3	3	4	4	5	6	13	7.0	24	
18	7	5	6	6	5	5	6	7	6	6	5	3	2	IZS	4	3	3	4	6	6	6	10	11	9	11	5.7	24	
19	10	12	10	8	8	8	9	6	4	3	3	2	IZS	1	1	1	2	3	3	1	2	1	1	0	12	4.3	24	
20	0	0	0	0	0	0	0	0	0	0	0	0	IZS	0	0	0	1	0	2	5	5	3	2	1	5	0.8	24	
21	1	0	0	1	1	1	1	1	1	2	IZS	3	3	3	4	4	4	4	6	8	11	11	9	4	2	11	3.5	24
22	1	1	2	2	2	1	1	2	2	IZS	2	1	1	1	1	1	1	1	5	6	4	7	7	5	7	2.5	24	
23	5	6	7	8	9	5	5	5	IZS	13	11	6	5	5	5	4	4	5	4	3	3	2	2	13	5.5	24		
24	2	2	2	2	2	2	2	IZS	3	4	4	3	3	3	4	5	6	12	13	18	19	15	12	11	19	6.5	24	
25	12	10	9	8	9	10	IZS	20	16	14	12	10	9	10	10	7	5	5	7	6	7	7	7	8	20	9.5	24	
26	9	10	9	10	8	IZS	7	8	12	15	13	11	10	10	11	13	15	13	13	11	10	10	9	8	15	10.7	24	
27	5	4	3	4	IZS	3	2	2	1	1	2	2	2	1	1	4	2	1	1	2	0	1	1	1	5	2.0	24	
28	0	1	1	IZS	2	3	3	6	4	5	4	4	4	3	3	3	3	4	4	4	4	4	4	3	6	3.2	24	
HOURLY MAX	18	20	32	29	26	26	28	44	44	30	25	22	21	17	15	17	19	20	17	18	19	15	20	20				
HOURLY AVG	5.2	5.0	5.5	5.7	5.9	5.8	5.6	7.7	7.3	8.0	7.3	6.4	5.5	4.9	4.6	4.3	4.7	5.8	6.1	6.7	6.2	6.1	6.0	5.8				

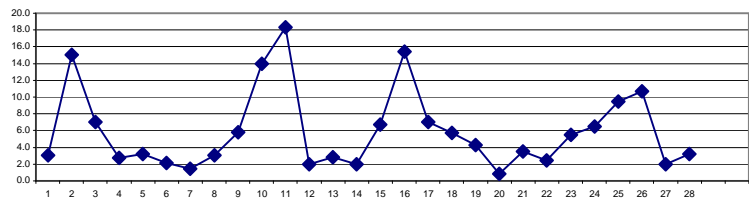
STATUS FLAG CODES

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

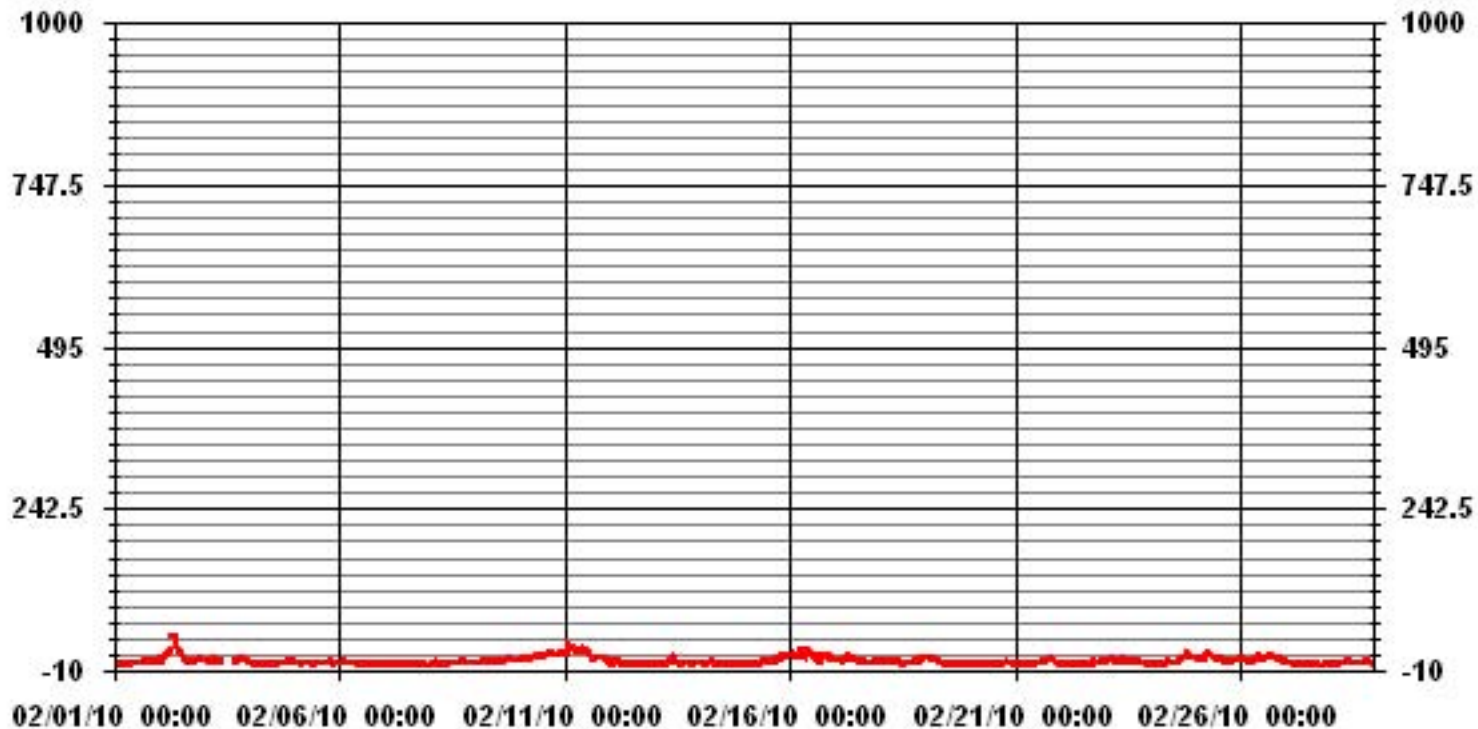
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	607					
MAXIMUM 1-HR AVERAGE:	44	PPB	@ HOUR(S)	8	ON DAY(S)	2
MAXIMUM 24-HR AVERAGE:	18.3	PPB			ON DAY(S)	11
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	671	HRS	
MONTHLY CALIBRATION TIME:	7	HRS	AMD OPERATION UPTIME	99.9	%	
STANDARD DEVIATION	5.92		MONTHLY AVERAGE	5.92	PPB	

24 HOUR AVERAGES FOR FEBRUARY 2010



01 Hour Averages



— LICA33 NOX_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010

OXIDES OF NITROGEN MAX instantaneous maximum in ppb

MST

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	2	2	IZS	3	3	3	4	3	4	4	4	5	5	5	4	6	9	10	16	16	4.2	24
2	10	10	14	20	21	33	IZS	168	51	58	27	23	18	16	8	9	14	12	6	9	9	9	9	9	168	24.5	24
3	9	9	6	7	18	IZS	10	9	8	C	C	C	C	C	C	6	9	9	10	9	8	8	8	8	18	9.0	24
4	7	3	3	2	IZS	2	2	2	2	2	3	3	3	2	3	3	3	4	4	6	6	7	7	8	8	3.8	24
5	8	6	3	IZS	4	4	4	4	3	3	3	3	3	3	4	4	4	4	4	5	6	4	4	4	8	4.1	24
6	4	3	IZS	7	4	4	4	4	5	6	3	2	2	2	2	2	2	3	2	2	3	3	2	2	7	3.2	24
7	2	IZS	2	2	3	2	3	3	2	2	2	1	2	2	2	4	4	3	3	2	2	2	3	2	4	2.4	24
8	IZS	3	3	6	6	4	4	2	2	3	3	3	4	3	4	4	5	6	5	4	4	4	5	IZS	6	4.0	24
9	4	4	4	7	5	5	5	6	6	6	9	13	6	7	7	7	8	11	12	9	10	10	IZS	11	13	7.5	24
10	8	10	10	8	9	10	14	18	17	18	19	17	16	16	15	19	21	24	20	22	22	IZS	22	22	24	16.4	24
11	23	24	36	35	30	25	29	29	30	38	29	24	22	20	13	11	12	14	13	17	IZS	16	16	9	38	22.4	24
12	7	4	7	6	5	5	3	2	2	M	2	2	2	2	1	2	1	1	IZS	1	1	1	1	2	7	3.0	23
13	1	2	1	1	2	3	5	5	14	16	9	5	4	4	2	2	2	6	IZS	3	3	5	5	3	16	4.5	24
14	3	4	3	3	3	4	8	8	6	3	4	4	3	2	2	2	2	IZS	2	2	2	2	1	1	8	3.2	24
15	2	2	2	3	2	N	8	3	7	10	10	7	5	5	5	7	IZS	10	12	53	20	16	16	17	53	10.1	23
16	19	19	22	15	18	20	33	29	22	26	25	27	34	17	62	IZS	8	34	48	23	15	20	14	10	62	24.3	24
17	8	8	8	8	7	12	12	20	15	22	11	20	11	8	IZS	30	113	4	4	4	5	5	6	8	113	15.2	24
18	10	6	8	8	6	6	7	8	7	8	8	9	2	IZS	25	4	5	5	7	9	8	12	14	13	25	8.5	24
19	11	13	12	11	9	9	14	7	5	6	4	3	IZS	2	1	2	3	4	4	3	4	2	2	2	14	5.8	24
20	0	2	1	0	0	0	0	0	0	1	1	IZS	1	1	1	1	2	1	4	7	6	4	3	2	7	1.7	24
21	1	1	1	1	2	2	2	2	2	3	IZS	3	5	4	4	5	5	11	10	12	17	12	7	2	17	5.0	24
22	3	3	3	2	3	2	2	3	4	IZS	2	2	2	2	1	1	2	3	10	9	8	8	9	6	10	3.9	24
23	7	13	10	13	12	7	6	6	IZS	15	14	8	6	6	6	6	5	5	6	5	4	4	3	3	15	7.4	24
24	3	3	3	2	2	3	3	IZS	4	20	11	4	4	4	5	6	10	15	16	22	23	19	13	14	23	9.1	24
25	13	11	11	10	11	14	IZS	51	22	17	15	12	10	11	12	8	6	6	10	7	8	8	8	9	51	12.6	24
26	10	11	10	12	10	IZS	8	12	13	31	19	12	11	11	12	16	20	14	16	12	12	12	11	10	31	13.3	24
27	8	4	4	5	IZS	5	3	2	2	2	3	3	2	1	1	7	5	2	2	3	1	3	2	1	8	3.1	24
28	1	2	2	IZS	3	3	4	4	8	6	6	6	5	5	4	4	5	7	6	6	5	5	5	4	8	4.6	24
HOURLY MAX	23	24	36	35	30	33	33	168	51	58	29	27	34	20	62	30	113	34	48	53	23	20	22	22			
HOURLY AVG	6.8	6.7	7.0	7.5	7.6	7.4	7.6	15.7	9.7	12.6	9.7	8.5	7.2	6.2	8.0	6.5	10.5	8.1	8.9	10.0	8.1	7.8	7.6	7.3			

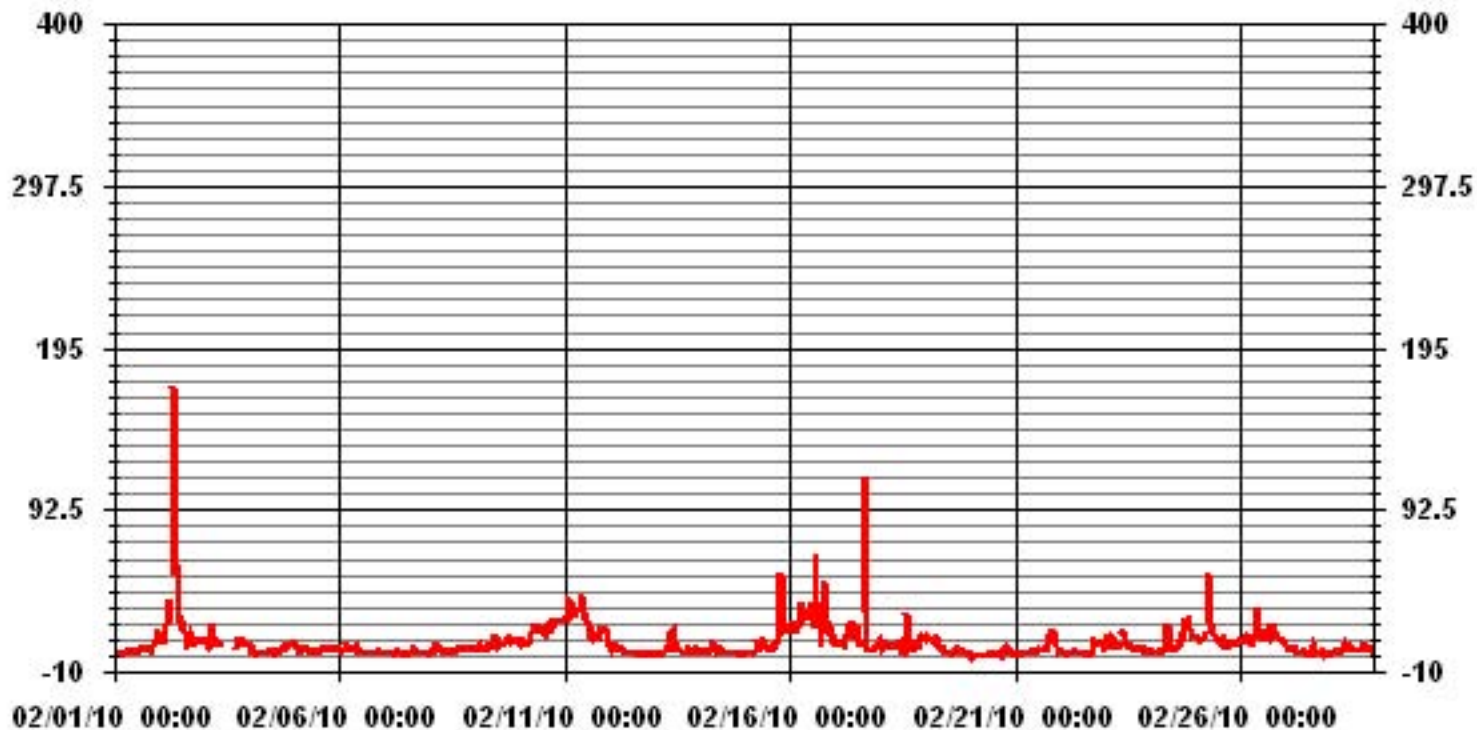
STATUS FLAG CODES

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

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	626				
MAXIMUM INSTANTANEOUS VALUE:	168	PPB	@ HOUR(S)	7	ON DAY(S) 2
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	670	HRS
MONTHLY CALIBRATION TIME:	8	HRS			
STANDARD DEVIATION:	11.15				

01 Hour Averages



— LICA33 NOXMAX PPB

LICA33
 NOX_ / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 33
 Site Name : LICA33
 Parameter : NOX_
 Units : PPB

Wind Parameter : WDR
 Instrument Height : 10 Meters

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	2.20	.94	.94	3.14	12.59	14.01	15.90	9.44	7.08	4.40	11.18	3.46	4.88	4.88	2.04	2.83	100.00
< 110	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.20	.94	.94	3.14	12.59	14.01	15.90	9.44	7.08	4.40	11.18	3.46	4.88	4.88	2.04	2.83	

Calm : .00 %

Total # Operational Hours : 635

Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	14	6	6	20	80	89	101	60	45	28	71	22	31	31	13	18	635
< 110																	
< 210																	
>= 210																	
Totals	14	6	6	20	80	89	101	60	45	28	71	22	31	31	13	18	

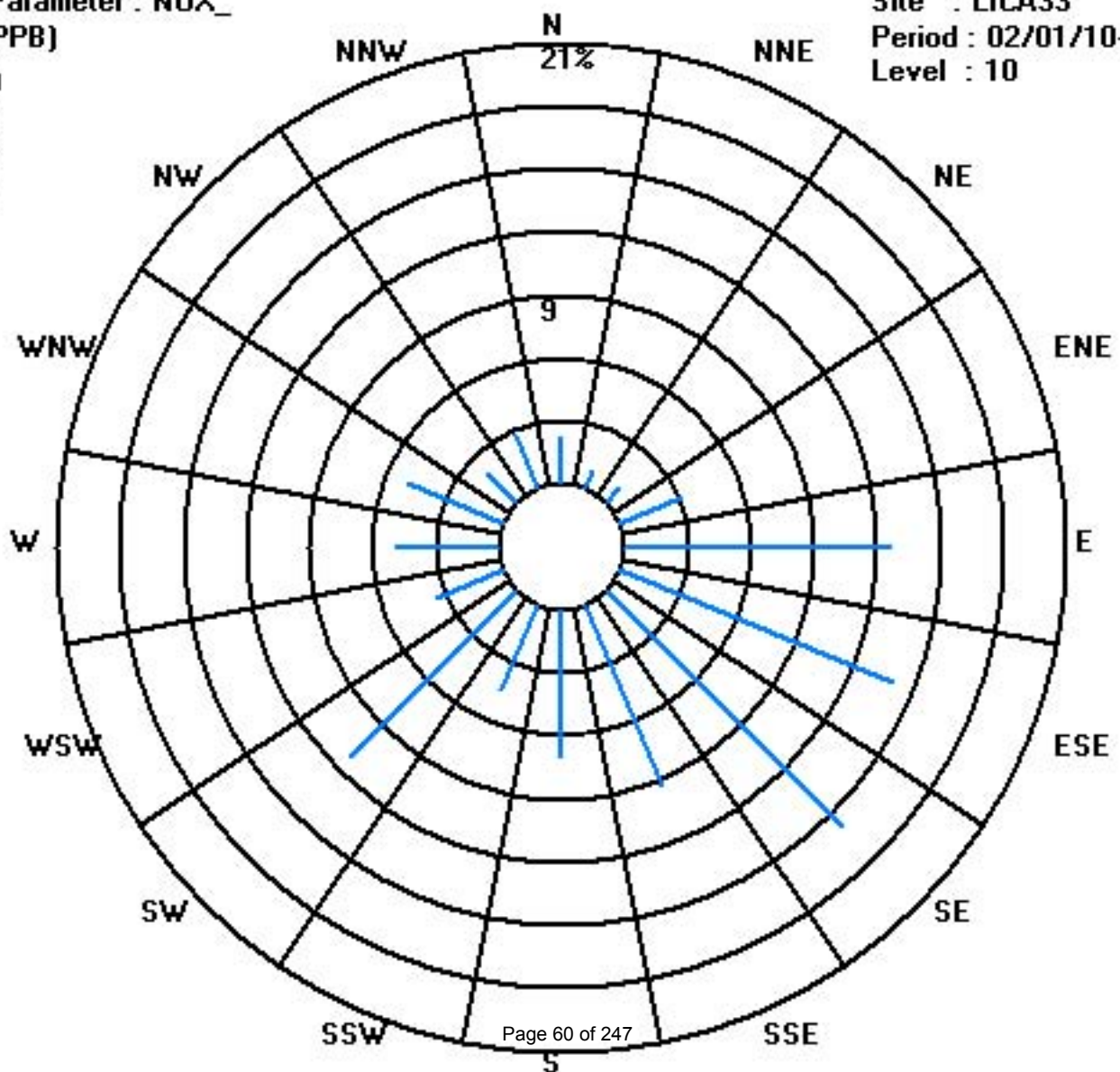
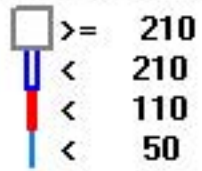
Calm : .00 %

Total # Operational Hours : 635

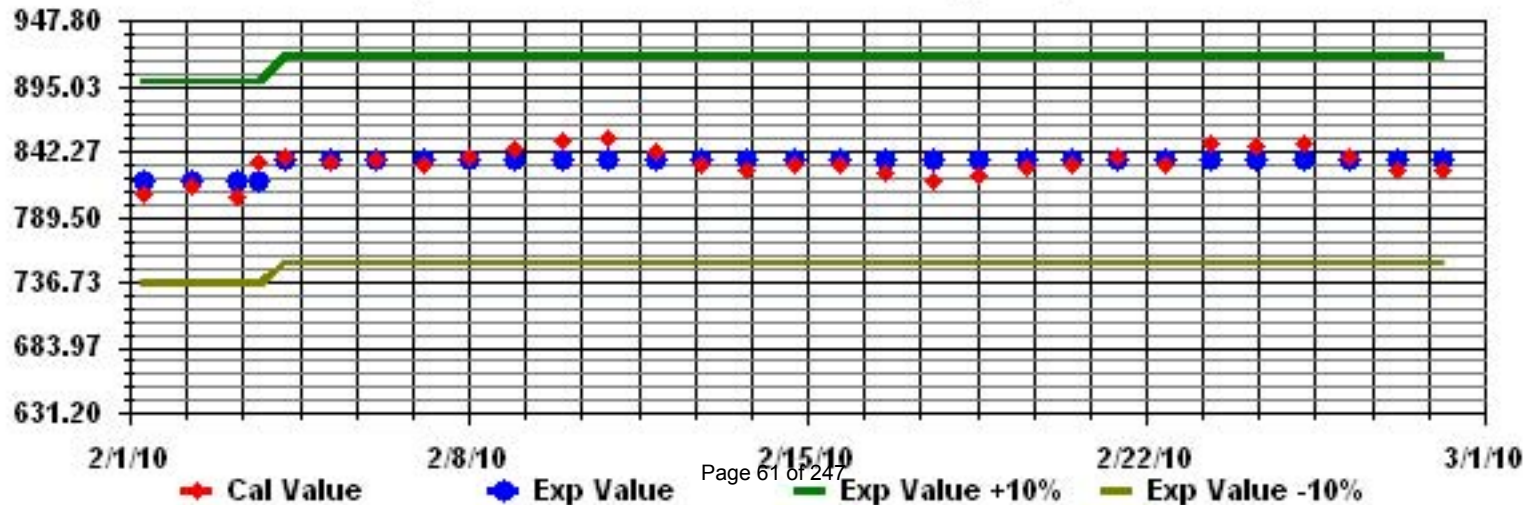
Class Limits (PPB)

Period : 02/01/10-02/28/10

Level : 10



Calibration Graph for Site: LICA33 Parameter: NOX_ Sequence: NO2 Phase: SPAN



Ozone

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010

OZONE (O₃) hourly averages in ppb

MST

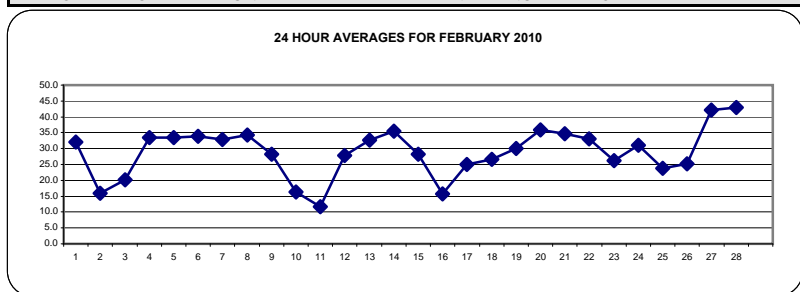
HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR		
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.	
DAY																												
1	39	38	37	36	36	35	34	IZS	33	33	33	33	33	33	32	31	30	30	30	28	25	24	19	39	32.0	24		
2	17	17	14	10	7	3	IZS	0	3	10	14	18	22	24	26	27	24	24	24	19	17	16	16	15	27	16.0	24	
3	15	17	18	17	11	IZS	17	16	19	23	26	26	27	25	27	C	C	C	C	C	18	19	21	22	27	20.2	24	
4	26	35	35	34	IZS	34	34	34	35	35	35	35	35	36	36	36	35	35	34	32	31	29	29	28	36	33.4	24	
5	27	34	35	IZS	32	31	31	32	32	33	33	35	37	38	37	36	35	33	33	33	32	35	32	32	38	33.4	24	
6	31	30	IZS	30	30	31	31	31	31	31	33	35	38	39	38	38	37	35	34	34	35	36	35	34	39	33.8	24	
7	34	IZS	36	35	34	34	33	32	35	36	36	34	33	33	33	32	34	32	31	30	30	29	29	31	36	32.9	24	
8	IZS	33	33	30	30	33	34	35	35	36	36	36	36	37	36	37	36	32	34	34	34	33	32	IZS	37	34.2	24	
9	31	31	30	29	30	29	28	28	29	30	30	31	32	31	31	30	28	25	23	24	23	24	IZS	22	32	28.2	24	
10	24	22	22	22	21	20	17	15	16	18	18	20	20	20	21	20	16	11	11	9	6	IZS	3	2	24	16.3	24	
11	2	2	1	2	1	1	1	1	6	10	14	17	18	21	24	26	24	18	17	18	IZS	13	14	18	26	11.7	24	
12	22	25	22	23	22	25	28	29	29	29	29	29	29	29	29	29	29	29	31	IZS	31	31	31	31	31	31	27.9	24
13	32	34	35	35	32	31	30	28	28	26	29	31	32	35	38	38	38	35	IZS	35	32	31	33	33	38	32.7	24	
14	31	31	32	34	34	31	29	28	32	34	34	35	38	39	39	40	40	IZS	40	40	40	39	39	38	40	35.5	24	
15	37	36	36	35	33	N	30	27	26	31	32	33	34	34	35	33	IZS	27	24	20	16	15	14	11	37	28.1	23	
16	10	8	8	12	14	8	1	4	11	15	18	22	26	28	28	IZS	28	22	17	14	14	14	16	22	28	15.7	24	
17	20	16	15	15	13	16	18	16	18	23	27	30	33	34	IZS	39	38	34	34	32	29	28	25	22	39	25.0	24	
18	20	21	18	19	20	22	21	21	24	25	28	31	33	IZS	35	36	35	33	31	32	32	25	24	25	36	26.6	24	
19	23	20	21	24	23	22	22	27	30	34	35	36	IZS	35	35	35	34	33	32	33	32	34	34	35	36	30.0	24	
20	37	36	35	36	37	37	37	37	37	37	37	IZS	37	37	37	37	37	37	35	30	31	33	35	37	37	35.9	24	
21	38	38	38	37	36	37	36	37	38	37	IZS	37	37	38	38	38	36	32	28	26	25	25	32	35	38	34.7	24	
22	34	34	34	34	33	34	34	33	34	IZS	34	36	36	38	39	40	39	37	32	30	29	22	22	23	40	33.1	24	
23	23	17	14	13	13	17	10	13	IZS	20	26	32	32	32	32	33	33	33	33	34	34	35	37	36	37	26.2	24	
24	36	36	36	37	38	38	37	IZS	35	35	35	35	36	36	36	36	34	29	28	21	17	16	14	15	38	31.1	24	
25	14	14	12	12	11	10	IZS	8	16	18	20	24	27	31	33	37	38	37	33	34	30	30	29	27	38	23.7	24	
26	24	24	22	20	17	IZS	19	14	18	21	25	28	31	32	32	31	29	27	26	26	27	27	30	30	32	25.2	24	
27	37	41	41	39	IZS	39	40	41	42	42	42	43	44	47	46	43	45	44	42	41	41	41	44	45	47	42.2	24	
28	46	45	44	IZS	44	43	42	41	39	41	42	44	44	46	47	47	47	46	44	43	40	39	37	35	47	42.9	24	
HOURLY MAX	46	45	44	39	44	43	42	41	42	42	42	44	44	47	47	47	47	46	44	43	41	41	44	45				
HOURLY AVG	27.0	27.2	26.8	25.8	25.1	26.4	26.7	24.2	27.1	28.3	29.7	31.3	32.6	33.6	34.1	34.8	33.8	31.2	30.0	29.0	27.9	27.6	27.1	26.8				

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

OBJECTIVE LIMIT:

ALBERTA ENVIRONMENT: 1-HR 82 PPB



MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0				
NUMBER OF NON-ZERO READINGS:	636				
MAXIMUM 1-HR AVERAGE:	47	PPB	@ HOUR(S)	VAR	ON DAY(S) 27, 28
MAXIMUM 24-HR AVERAGE:	42.9	PPB			ON DAY(S) 28
					VAR-VARIOUS
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	671	HRS
MONTHLY CALIBRATION TIME:	5	HRS	AMD OPERATION UPTIME	99.9	%
STANDARD DEVIATION	9.37		MONTHLY AVERAGE	28.93	PPB

01 Hour Averages



— LICA33_03_ PPB

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010

OZONE MAX instantaneous maximum in ppb

MST

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	39	39	38	37	36	36	35	IZS	34	33	33	34	34	34	33	33	32	31	31	31	30	28	26	24	39	33.1	24	
2	20	19	16	14	11	12	IZS	1	6	13	16	20	24	26	28	28	28	27	26	22	19	18	17	17	28	18.6	24	
3	18	20	19	18	16	IZS	19	19	21	25	27	27	29	28	28	C	C	C	C	19	21	24	24	24	29	22.3	24	
4	33	36	36	36	IZS	35	35	35	36	36	36	36	36	37	37	36	36	36	35	33	33	31	31	31	37	34.9	24	
5	30	36	35	IZS	33	32	32	33	33	33	34	37	38	38	38	37	37	35	34	34	34	37	34	34	38	34.7	24	
6	33	31	IZS	32	31	32	32	32	32	33	34	36	39	40	39	39	38	36	35	35	36	37	36	35	40	34.9	24	
7	35	IZS	38	36	35	34	34	33	36	37	38	36	33	33	33	34	34	32	31	31	31	31	31	31	38	33.9	24	
8	IZS	34	33	32	33	34	36	36	36	37	36	37	37	37	37	38	37	35	36	35	35	34	33	IZS	38	35.4	24	
9	33	32	31	31	31	30	30	29	30	30	31	32	33	32	31	31	30	27	25	25	24	24	IZS	24	33	29.4	24	
10	24	24	23	23	22	21	19	17	17	19	19	21	21	21	21	21	19	14	12	11	9	IZS	5	4	24	17.7	24	
11	6	5	2	4	2	3	4	3	8	12	17	18	20	25	26	27	27	21	20	21	IZS	16	17	19	27	14.0	24	
12	24	25	24	25	24	28	29	30	30	30	M	30	29	29	29	30	30	31	32	IZS	32	32	32	32	32	32	29.0	23
13	35	35	36	36	33	33	33	30	31	29	30	32	33	38	39	39	39	38	IZS	36	35	33	36	35	39	34.5	24	
14	33	33	33	34	36	33	32	31	34	35	35	38	39	40	41	41	41	IZS	41	41	40	40	40	39	41	37.0	24	
15	38	38	37	36	34	N	34	31	30	33	33	35	34	35	35	35	IZS	28	28	22	21	18	17	16	38	30.4	23	
16	12	10	12	16	18	11	11	9	14	17	21	25	28	30	31	IZS	31	27	21	17	21	20	24	26	31	19.7	24	
17	25	23	18	19	19	19	19	18	20	26	29	31	34	35	IZS	41	41	36	35	33	32	29	26	24	41	27.5	24	
18	22	22	20	21	21	22	23	22	26	26	30	32	34	IZS	36	37	36	34	33	36	35	27	28	28	37	28.3	24	
19	25	24	22	26	24	24	25	29	33	35	36	37	IZS	36	36	37	35	34	34	34	35	35	35	36	37	31.6	24	
20	38	38	37	38	38	38	38	38	38	38	38	IZS	38	38	38	38	38	38	38	38	33	35	34	38	38	38	37.4	24
21	38	39	38	38	37	38	38	38	38	38	IZS	38	38	39	39	39	38	36	29	28	29	29	35	36	39	36.2	24	
22	35	35	35	34	34	35	35	35	36	IZS	35	37	38	40	40	41	40	39	36	32	33	28	28	28	41	35.2	24	
23	29	21	18	15	21	23	17	18	IZS	22	30	33	33	33	33	35	34	34	36	37	35	38	38	37	38	29.1	24	
24	37	37	37	38	38	38	38	IZS	36	36	36	36	36	37	37	37	36	33	31	24	21	23	19	23	38	33.2	24	
25	18	17	16	16	14	11	IZS	12	19	20	23	27	29	32	36	38	38	38	36	36	32	33	31	31	38	26.2	24	
26	26	26	26	23	21	IZS	22	19	22	25	29	N	33	33	33	33	31	29	29	27	30	30	34	34	34	28.0	23	
27	40	42	43	40	IZS	41	41	42	43	43	43	44	47	48	47	46	46	48	43	42	42	43	45	47	48	43.7	24	
28	47	46	45	IZS	44	44	43	43	41	43	43	45	33	47	48	48	48	48	47	45	44	44	41	40	48	44.2	24	
HOURLY MAX	47	46	45	40	44	44	43	43	43	43	43	45	47	48	48	48	48	48	47	45	44	44	45	47				
HOURLY AVG	29.4	29.1	28.4	27.6	27.2	28.3	29.0	26.3	28.9	29.8	31.2	32.8	33.3	34.9	35.1	36.1	35.4	33.3	32.1	30.8	30.4	30.1	29.7	29.4				

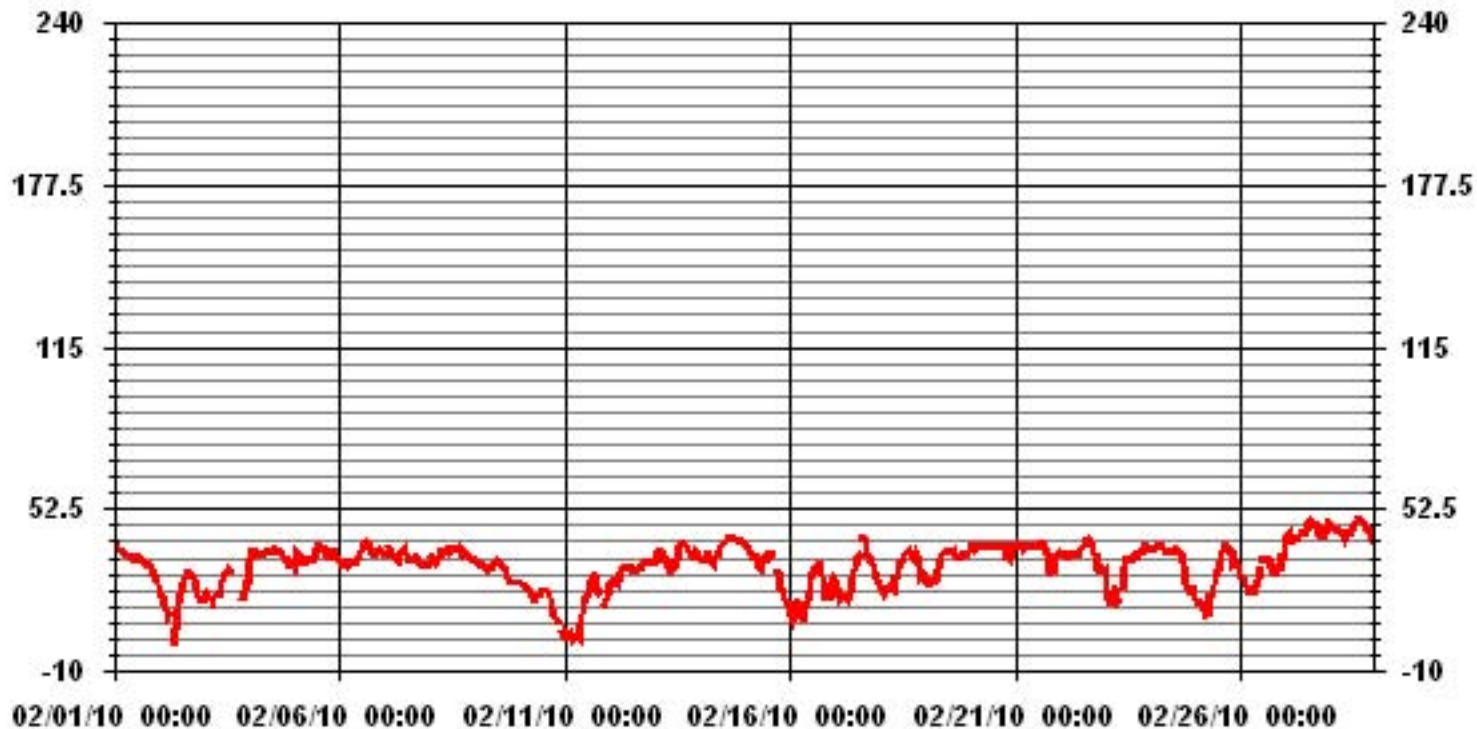
STATUS FLAG CODES

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

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	635				
MAXIMUM INSTANTANEOUS VALUE:	48	PPB	@ HOUR(S)	NAR	ON DAY(S) 27, 28
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	669	HRS
MONTHLY CALIBRATION TIME:	5	HRS			
STANDARD DEVIATION:	8.74				

01 Hour Averages



— LICA33 O3MAX PPB

LICA33
 O3_ / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 33
 Site Name : LICA33
 Parameter : O3_
 Units : PPB

Wind Parameter : WDR
 Instrument Height : 10 Meters

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	2.19	.94	.94	3.13	12.55	13.65	15.85	10.04	7.06	4.39	11.14	3.45	4.86	4.86	2.04	2.82	100.00
< 110	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.19	.94	.94	3.13	12.55	13.65	15.85	10.04	7.06	4.39	11.14	3.45	4.86	4.86	2.04	2.82	

Calm : .00 %

Total # Operational Hours : 637

Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	14	6	6	20	80	87	101	64	45	28	71	22	31	31	13	18	637
< 110																	
< 210																	
>= 210																	
Totals	14	6	6	20	80	87	101	64	45	28	71	22	31	31	13	18	

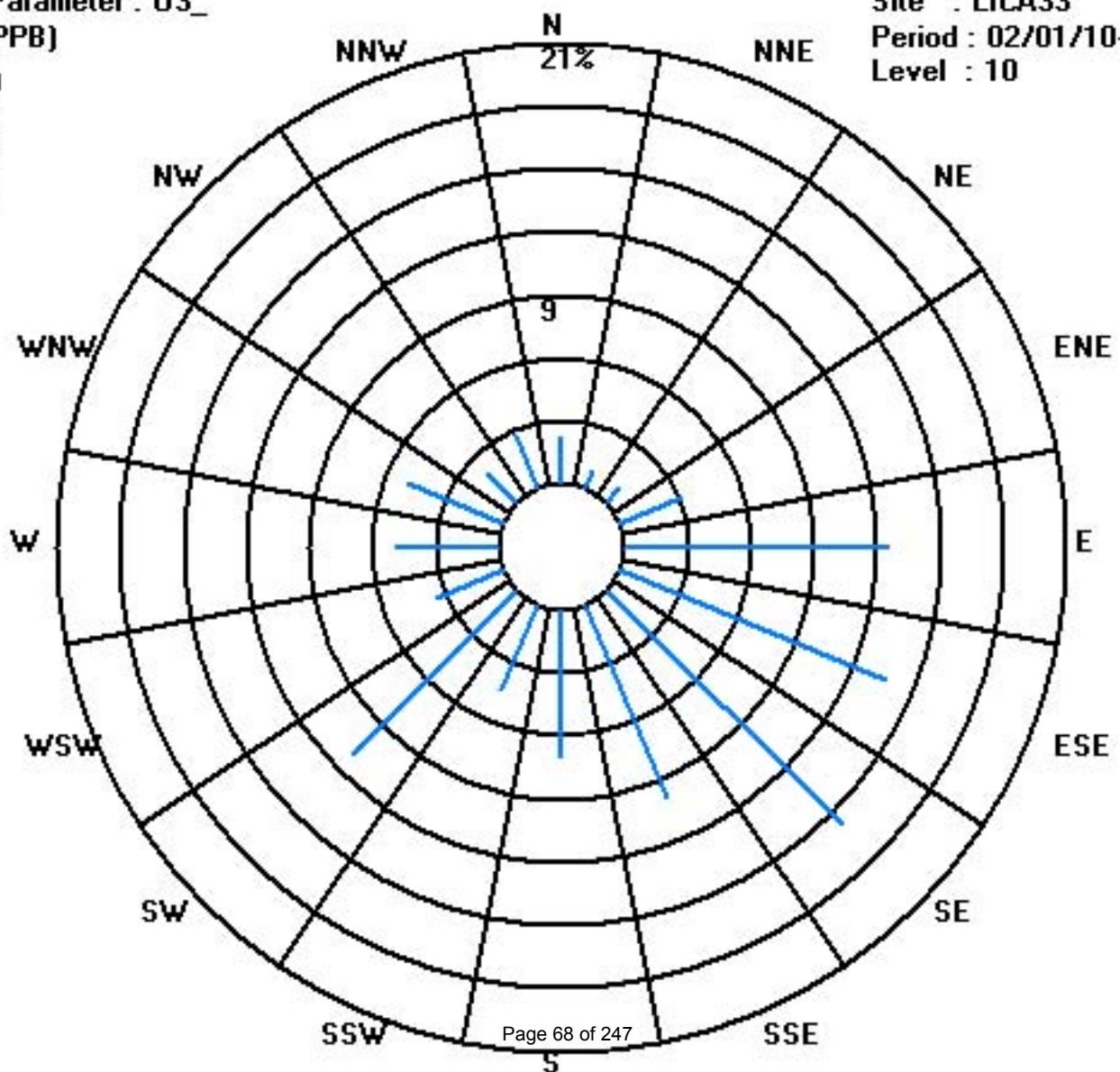
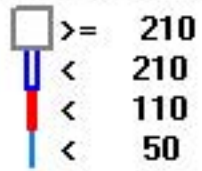
Calm : .00 %

Total # Operational Hours : 637

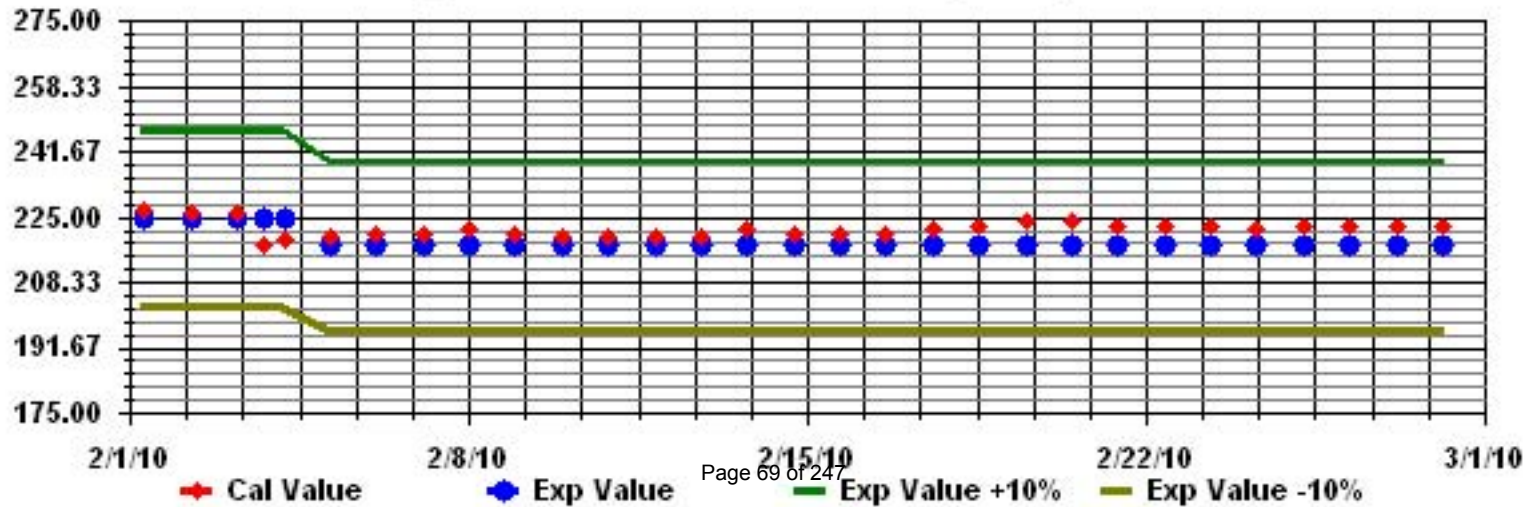
Class Limits (PPB)

Period : 02/01/10-02/28/10

Level : 10



Calibration Graph for Site: LICA33 Parameter: 03_ Sequence: 03 Phase: SPAN



Total Hydrocarbons

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010

TOTAL HYDROCARBONS (THC) hourly averages in ppm

MST		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 MAX	24-HOUR AVG	RDGS.	
HOUR START	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		1.9	2	2.1	2.1	2.1	2.1	2.2	IZS	2.2	2.3	2.4	2.4	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.7	2.8	3	3.0	2.3	24	
2		3	2.9	3.2	3.8	4.3	4.4	IZS	4.4	4.3	3.7	3.7	3.2	2.8	2.6	2.4	2.3	2.3	2.3	2.2	2.3	2.6	2.9	2.5	2.5	4.4	3.1	24	
3		2.5	2.3	2.3	2.3	2.3	IZS	2.5	2.9	2.6	2.3	2.3	2.4	2.5	2.9	2.6	C	C	C	3.2	3.4	3.6	3	3.1	3.1	3.6	2.7	24	
4		2.7	2.1	2.1	2.1	IZS	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.8	2.8	2.2	24	
5		3.1	2.3	2.3	IZS	2.5	2.4	2.4	2.3	2.2	2.3	2.4	2.5	2.4	2.5	2.5	2.5	2.4	2.5	2.5	2.6	2.2	2.3	2.3	3.1	2.4	2.4	24	
6		2.2	2.2	IZS	2.3	2.4	2.3	2.3	2.2	2.2	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.4	2.2	24	
7		2.1	IZS	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.3	2.4	2.4	2.2	2.4	24	
8		IZS	2.4	2.5	2.7	2.8	2.5	2.5	2.4	2.4	2.3	2.3	2.4	2.4	2.4	2.3	2.3	2.3	2.4	2.4	2.3	2.3	2.3	2.3	IZS	2.8	2.4	24	
9		2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.7	2.6	2.7	2.7	2.6	2.5	2.6	2.6	2.6	2.6	2.6	2.7	2.9	2.9	3	IZS	2.8	3.0	2.6	24	
10		2.7	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.5	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.5	2.8	2.6	IZS	2.5	2.6	2.8	2.5	24		
11		2.7	3.4	5.2	4.7	4.4	4.2	4.1	3.9	4.1	4.8	3.7	3	2.7	2.6	2.3	2.2	2.4	2.5	2.7	2.9	IZS	2.8	2.4	2.2	5.2	3.3	24	
12		2.1	2.1	2.2	2.4	2.5	2.3	2.3	2.2	2.1	2.1	2	2	2	2	2	2	2	2	2	IZS	1.9	2	2	2.1	2.5	2.1	24	
13		2	2	2.1	2.1	2.3	2.6	2.3	2.5	2.5	2.5	2.3	2.3	2.3	2.3	2.2	2.2	2.3	2.3	IZS	2.3	2.3	2.5	2.4	2.4	2.6	2.3	24	
14		2.7	2.6	2.7	2.4	2.4	2.5	2.7	2.8	2.4	2.3	2.3	2.3	2.2	2.2	2.1	2.1	2.1	IZS	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.8	2.3	24
15		2.2	2.2	2.4	2.4	2.4	N	2.5	2.6	2.6	2.6	2.7	2.6	2.5	2.5	2.4	2.4	IZS	2.6	2.8	2.8	2.8	2.8	2.9	2.8	2.9	2.6	23	
16		3.1	3.3	3.3	3	3	3.3	4.8	4	3.4	3.7	3.4	2.7	2.3	2.2	2.2	IZS	2.1	2.2	2.9	2.8	4.8	3.6	10.4	5.3	10.4	3.6	24	
17		5.6	4.8	4.8	4.8	4.6	2.7	2.4	2.4	2.5	2.3	2.3	2.2	2.2	2.2	IZS	2	2	2.1	2.1	2.1	2.2	2.3	2.5	2.5	5.6	2.9	24	
18		2.4	2.4	2.4	2.6	2.7	2.9	2.6	2.6	2.5	2.3	2.3	2.3	2.2	2.2	IZS	2.1	2	2.1	2.2	2.2	2.3	2.2	2.6	2.7	2.6	2.9	24	
19		3	3.2	3.3	3.3	3.2	3.1	2.7	2.4	2.1	2	2	2	IZS	2	2	2	2	2	2.2	2.2	2	2.1	2.1	2	3.3	2.4	24	
20		2	2	2.1	2	2	2	2	2	2	2	2	2	IZS	2	2	2.1	2.1	2	2.1	2	2.1	2	2	2	2.1	2.0	24	
21		2	2	2	2	2	2	2	2	2	2	2	IZS	1.9	2	2	2	2	2.1	2.1	2.6	2.7	2.3	2	2	2.7	2.1	24	
22		2	2	2	1.9	2	2	2	2.1	2	IZS	2	2	2	2	2	2	2	2	2.7	3.1	3.1	2.9	3.3	2.8	3.3	2.3	24	
23		2.6	3.2	3.8	5.5	5.5	3.6	5	3.3	IZS	4.1	3.4	2.6	2.7	2.7	2.6	2.5	2.5	2.4	2.2	2	2	2	2	2	5.5	3.1	24	
24		2	2	2	2.1	2.1	2.1	IZS	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.3	2.2	2.1	2.1	2.1	2.3	2.4	2.6	2.8	2.8	2.2	24	
25		2.8	2.9	3.9	3	3.1	3.2	IZS	5.3	3.6	3.6	3.3	3.4	2.9	2.7	2.6	2.4	2.3	2.3	2.6	3.3	3	3	3.4	3.6	5.3	3.1	24	
26		3.7	4	4	4.3	4.1	IZS	4.6	4.1	4.1	4.7	4.4	3.9	3.5	4	4	3.8	3.4	3.3	3.2	3	3.1	3.2	3.3	3.1	4.7	3.8	24	
27		2.8	2.3	2.2	2.2	IZS	2.1	2.2	2.1	2	2	2	2	2.1	1.9	1.8	1.8	1.8	2.1	2	2	1.9	1.9	2	2	2.8	2.1	24	
28		2	2	2	IZS	2	2	2.1	2.1	2.1	2.2	2.3	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.2	2.1	2.9	2.3	2.2	2.8	2.9	2.2	24	
HOURLY MAX		5.6	4.8	5.2	5.5	5.5	4.4	5.0	5.3	4.3	4.8	4.4	3.9	3.5	4.0	4.0	3.8	3.4	3.3	3.2	3.4	4.8	3.6	10.4	5.3				
HOURLY AVG		2.6	2.6	2.8	2.8	2.9	2.6	2.7	2.8	2.6	2.7	2.6	2.4	2.4	2.4	2.3	2.3	2.2	2.3	2.4	2.5	2.6	2.5	2.8	2.6				

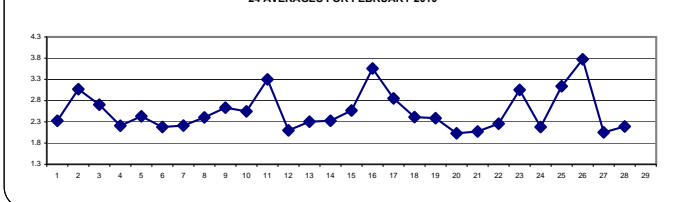
STATUS FLAG CODES

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

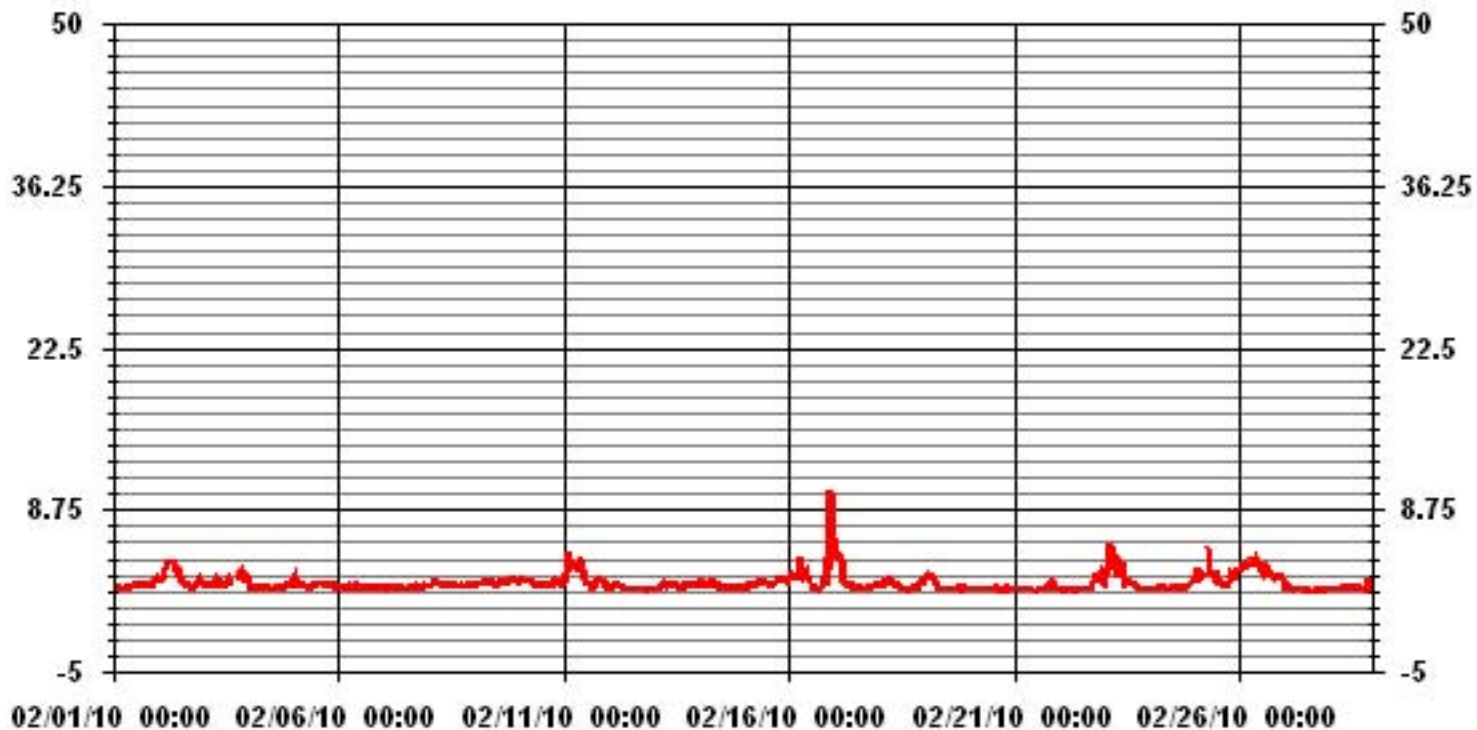
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	639					
MAXIMUM 1-HR AVERAGE:	10.4	PPM	@ HOUR(S)	22	ON DAY(S)	16
MAXIMUM 24-HR AVERAGE:	3.8	PPM			ON DAY(S)	26
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	671	HRS	
MONTHLY CALIBRATION TIME:	3	HRS	AMD OPERATION UPTIME:	99.9	%	
STANDARD DEVIATION:	0.72		MONTHLY AVERAGE:	2.54	PPM	

24 AVERAGES FOR FEBRUARY 2010



01 Hour Averages



— LICA33 THC PPM

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010

TOTAL HYDROCARBONS MAX instantaneous maximum in ppm

MST																									DAILY	24-HOUR			
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	23:00	0:00	MAX.	AVG.	RDGS.
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	2	2.1	2.1	2.1	2.2	2.2	2.3	IZS	2.3	2.4	2.5	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.4	2.4	5	4.7	3.8	5	2.6	24			
2	3.1	3.2	3.6	4.9	4.8	4.9	IZS	4.7	4.7	4.2	4	3.6	3	2.8	2.6	2.4	2.4	2.4	2.3	2.6	2.7	3	2.8	2.5	4.9	3.4	24		
3	2.5	2.5	2.3	2.5	2.5	IZS	2.7	3.2	3.1	2.4	2.4	2.4	2.7	3.1	3	C	C	C	C	3.6	3.8	3.2	3.3	3.3	3.8	2.9	24		
4	3.3	2.2	2.1	2.3	IZS	2.2	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.2	2.2	2.1	2.2	2.2	2.3	2.4	2.4	2.4	4.3	4.3	2.3	24			
5	4.7	3	2.4	IZS	2.5	2.4	2.4	2.4	2.3	2.3	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.5	2.5	2.6	2.9	2.4	2.5	2.5	4.7	2.6	24		
6	2.3	2.3	IZS	2.4	2.5	2.4	2.3	2.3	2.6	2.5	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2.3	2.2	2.2	2.1	2.1	2.6	2.3	24		
7	2.2	IZS	2.2	2.3	2.3	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.1	2.2	2.2	2.3	2.2	2.3	2.3	2.3	2.3	2.4	2.4	2.6	2.6	2.3	24		
8	IZS	2.5	2.6	3.2	3	2.6	2.8	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.4	2.4	IZS	3.2	2.5	24		
9	2.4	2.5	2.6	2.6	2.5	2.6	2.6	2.7	2.8	2.8	2.8	2.6	2.6	2.6	2.6	2.7	2.7	2.7	2.8	2.9	3	3.1	IZS	2.9	3.1	2.7	24		
10	2.8	2.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.6	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.7	4	2.7	IZS	2.9	2.7	4	2.7	24		
11	2.8	4.7	5.9	5.7	5	4.5	2.5	4.2	7.2	8.3	4.3	3.3	2.8	2.7	2.5	2.4	2.5	2.8	2.9	4.1	IZS	3.8	2.5	2.3	8.3	3.9	24		
12	2.2	2.3	2.3	2.6	2.7	2.4	2.3	2.2	2.2	2.2	M	2	2.1	2	2	2	2	2	2	IZS	2	2	2	2.2	2.7	2.2	23		
13	2.1	2.1	2.1	2.1	3.1	2.9	2.5	2.7	2.7	2.6	2.5	2.3	2.4	2.4	2.2	2.5	2.4	2.4	IZS	2.3	2.4	2.9	2.5	2.6	3.1	2.5	24		
14	3	2.9	2.8	2.5	2.6	2.9	4.1	3.5	2.7	2.4	2.5	2.4	2.3	2.2	2.2	2.3	2.1	IZS	2.1	2.1	2.2	2.2	2.2	2.2	4.1	2.5	24		
15	2.2	2.3	2.6	2.6	2.5	N	2.5	3.6	3.1	2.8	2.8	2.7	2.6	2.6	2.5	2.5	IZS	2.8	2.9	2.9	2.9	2.8	2.9	2.9	3.6	2.7	23		
16	3.5	3.9	3.9	3.1	4.2	4.1	5.4	5	4.1	4.4	4	3.2	2.4	M	M	IZS	2.2	2.3	7.5	8	24.4	26.5	54.1	54.1	54.1	11.0	22		
17	47.9	24	32.4	28.8	44.7	5.7	2.5	2.4	10.1	2.4	2.3	3	2.2	2.6	IZS	2.1	2.1	2.8	2.1	2.2	2.2	2.5	2.6	2.6	47.9	10.1	24		
18	2.5	2.4	2.5	2.7	2.8	3.1	2.8	2.8	2.6	2.6	2.4	2.4	2.2	IZS	2.1	2.1	2.2	2.8	2.3	2.5	2.3	2.7	2.8	3	3.1	2.5	24		
19	3.1	3.5	3.6	3.6	3.5	3.4	3.4	2.9	2.3	2.1	2.2	2.1	IZS	2.1	2.2	2	2.1	2.2	2.4	2.4	2.2	2.2	2.2	2.1	3.6	2.6	24		
20	2.4	2.8	2.2	2.1	2.1	2	2	2.1	2	2	2.1	IZS	2.1	2.1	2.1	2.1	4.1	2	2.2	2.1	2.4	2.1	2	4.1	2.2	24			
21	2	2	2	2	2	2	2	2	2	2	IZS	2	2	2	2	3.5	2.1	2.9	2.2	3.1	3.2	2.9	2.2	2.1	3.5	2.3	24		
22	2.1	2.1	2.2	2	2.1	2.1	2.2	2.2	2.2	IZS	2	2	2	2.2	2	2	2	2.2	43.3	12.1	3.8	10.6	54.1	9.7	54.1	7.4	24		
23	3.1	10.9	23.5	28.6	20.4	9.1	16.6	4.8	IZS	4.6	4.1	2.9	2.8	2.7	2.7	2.5	2.5	2.5	2.5	2	2	2	2	2	28.6	6.8	24		
24	2	2	2	2.1	2.1	2.2	2.2	IZS	2.1	2.1	2.2	2.2	2.2	2.2	2.1	7.7	2.3	2.2	2.2	2.9	2.9	4.7	15.8	9.6	15.8	3.5	24		
25	5.1	4.3	19.4	12.6	6.1	8.8	IZS	28.6	4.1	10.7	8.8	8.9	7.2	2.8	2.7	2.6	2.4	2.5	2.7	13.7	7.4	4.2	33.6	13.7	33.6	9.3	24		
26	10.1	17.1	14.2	11.2	16.1	IZS	19.2	4.4	4.5	11.5	5	7.2	4.4	11.9	13.1	18.6	3.6	5.7	3.5	4	8	4.4	4.6	7.5	19.2	9.1	24		
27	7.2	2.9	2.4	2.4	IZS	2.3	2.4	2.2	2.1	2.1	2.4	2.8	4.6	1.9	1.9	1.9	1.9	3.6	2.8	2.2	2	2	2	7.2	2.6	24			
28	2	2	2	IZS	2	2	2.1	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.2	32.2	2.9	2.5	24.1	32.2	4.5	24		
HOURLY MAX	48	24	32	29	45	9	19	29	10	12	9	9	7	12	13	19	4	6	43	14	32	27	54	54					
HOURLY AVG	4.8	4.3	5.6	5.5	5.7	3.4	3.8	4.0	3.2	3.5	3.0	2.9	2.7	2.7	2.7	3.2	2.4	2.6	4.2	3.6	4.9	4.1	8.1	6.4					

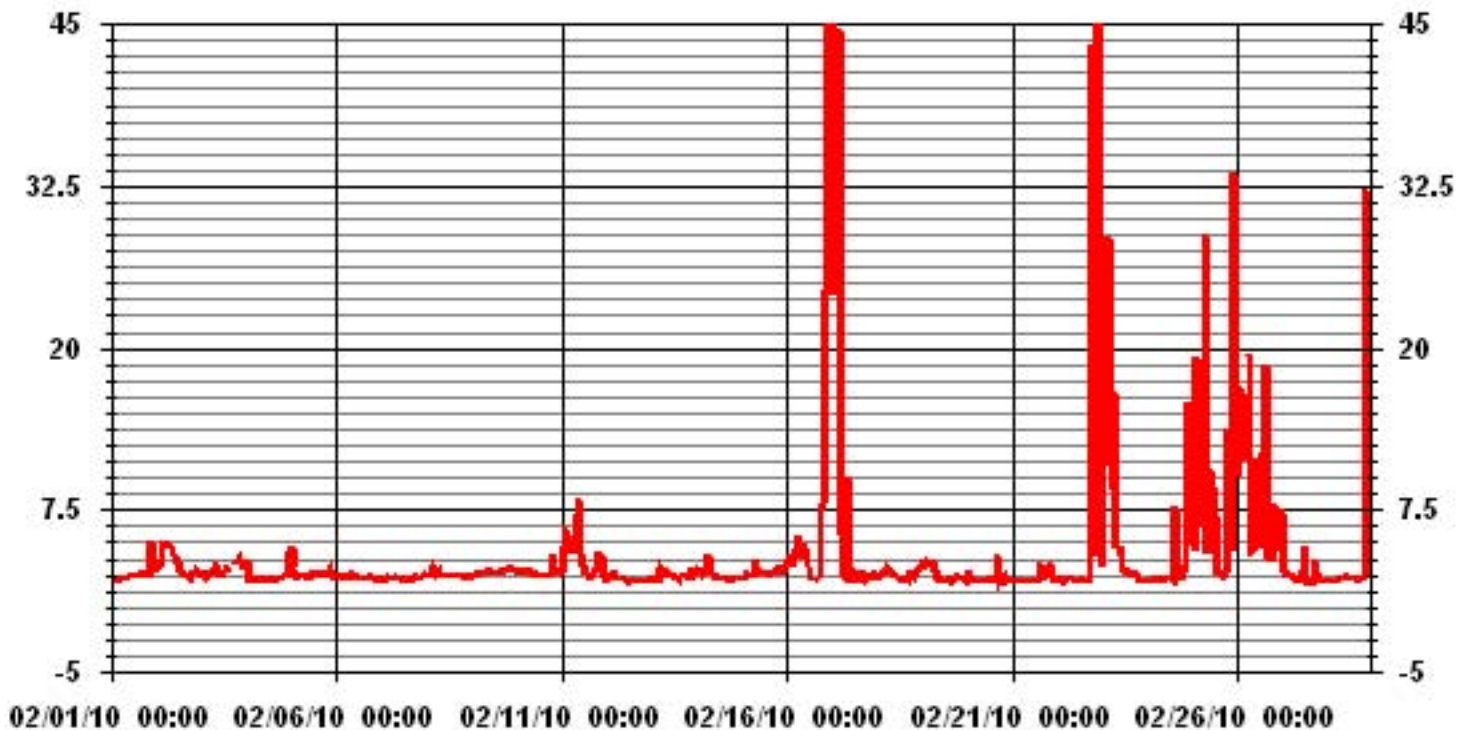
STATUS FLAG CODES

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

MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	635				
MAXIMUM INSTANTANEOUS VALUE:	54.1	PPB	@ HOUR(S)	22, 23	ON DAY(S) 16
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	668	HRS
MONTHLY CALIBRATION TIME:	4	HRS			
STANDARD DEVIATION:	6.05				

01 Hour Averages



— LICA33 THCMAX PPM

LICA33
 THC / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 33
 Site Name : LICA33
 Parameter : THC
 Units : PPM

Wind Parameter : WDR
 Instrument Height : 10 Meters

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3.0	1.72	.78	.62	1.87	10.79	10.95	13.92	9.54	6.88	4.22	8.92	3.12	3.91	2.97	1.09	2.19	83.56
< 10.0	.46	.15	.31	1.25	1.72	2.81	2.03	.46	.15	.15	2.03	.31	.93	1.87	.93	.62	16.27
< 50.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15	.00	.00	.00	.00	.00	.15
>= 50.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.19	.93	.93	3.12	12.51	13.77	15.96	10.01	7.04	4.38	11.11	3.44	4.85	4.85	2.03	2.81	

Calm : .00 %

Total # Operational Hours : 639

Distribution By Samples

	Direction																
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3.0	11	5	4	12	69	70	89	61	44	27	57	20	25	19	7	14	534
< 10.0	3	1	2	8	11	18	13	3	1	1	13	2	6	12	6	4	104
< 50.0											1						1
>= 50.0																	
Totals	14	6	6	20	80	88	102	64	45	28	71	22	31	31	13	18	

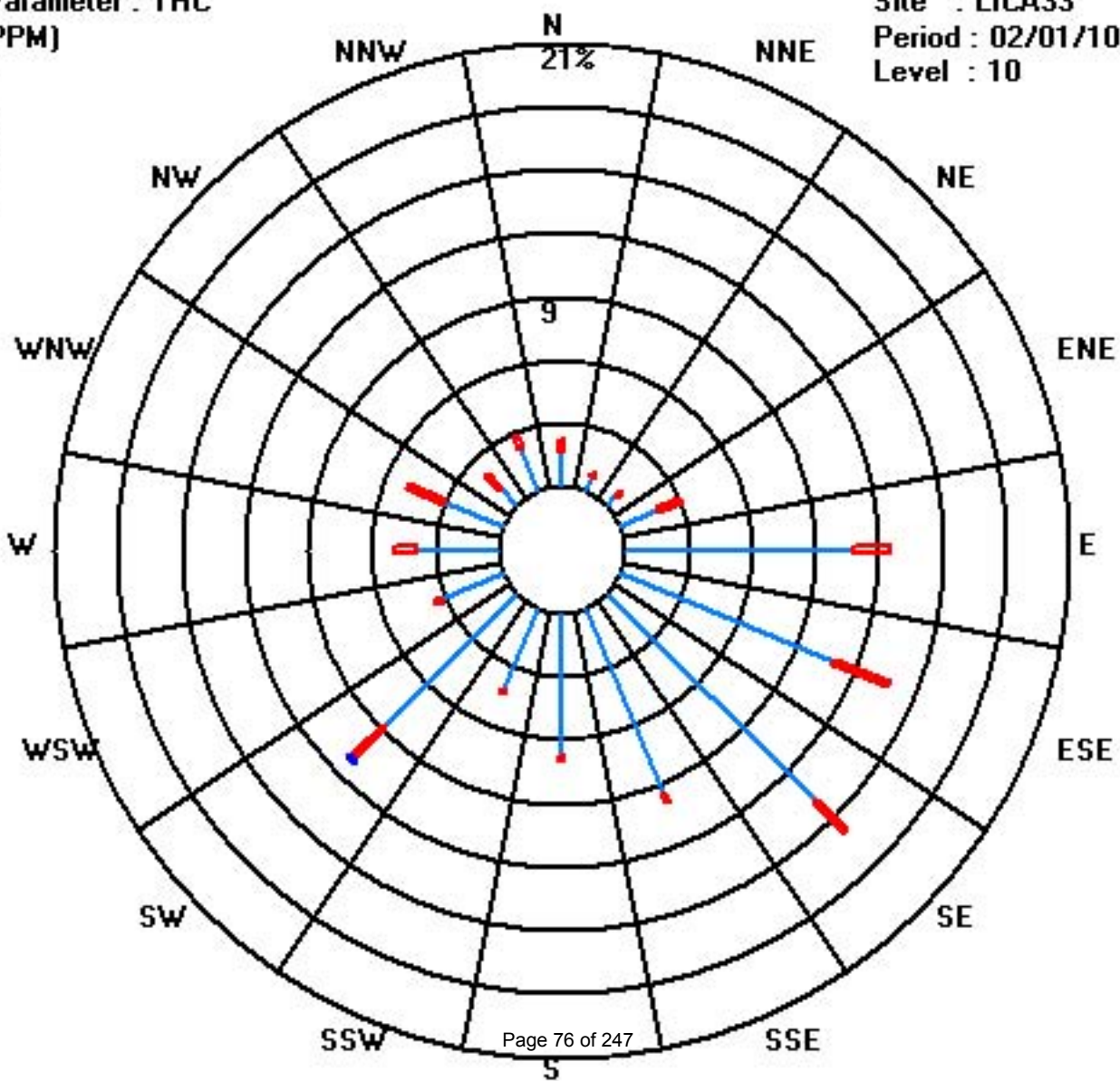
Calm : .00 %

Total # Operational Hours : 639

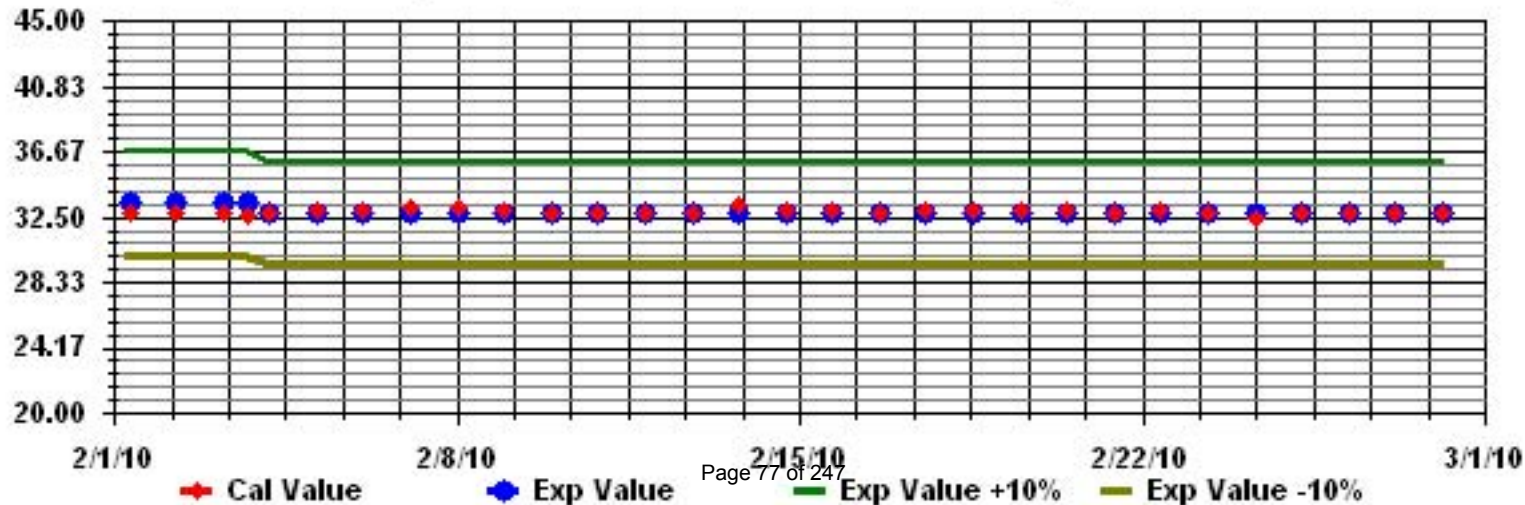
Class Limits (PPM)

Period : 02/01/10-02/28/10

Level : 10



Calibration Graph for Site: LICA33 Parameter: THC Sequence: THC Phase: SPAll



Vector Wind Speed

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010

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

MST		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	23:00	DAILY	24-HOUR	
HOURLY MAX	HOURLY AVG	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		12.4	13.3	11.7	11.1	10.4	10.2	10	9.2	10.2	10.2	9.3	8.1	6	8.7	4.8	3.7	3.3	2.1	2.5	4.7	2.9	2.4	3	2.3	13.3	5.9	24	
2		2.6	2.2	3.2	2.4	1.7	0.9	1.9	1.3	3	2.6	0.3	1.8	3.1	4.2	4.9	6.1	8.5	6.7	5.5	6.4	5.6	2.9	4.2	2.7	8.5	3.1	24	
3		3.1	4.9	3.8	2.3	3.1	4.2	3.3	5.4	5.9	5	5.1	5.9	6.2	5.2	6.7	7.9	6.5	7.4	7.1	5.1	5.6	7.2	4.7	3.5	7.9	4.4	24	
4		4.7	6.1	5.5	5	11.8	12.1	9.9	9.9	10.4	12.5	9.7	8.4	7.5	11.6	10	9.8	6.5	5.7	6.1	5.3	4.6	3.6	2.3	1	12.5	7.2	24	
5		0.7	6.3	5.9	5.4	7	7	7	8.8	7.1	7.3	8.2	7.3	6.6	5.5	7.6	5.2	4.6	3.8	3.8	5.7	6.3	8.1	6.5	11.3	11.3	6.4	24	
6		10.2	9.6	11.2	11.8	9.8	8	9.5	10.1	10.2	11.4	10.7	12	13.2	13.2	11.8	12.3	13	13.2	13.6	13.8	13.8	12.6	12.4	12.6	13.8	11.7	24	
7		12.1	10.7	9.5	9.9	8.2	9.4	9.1	8.9	13.9	14.2	15.7	17.7	13.2	9.6	8.7	8.1	11.3	8.1	11.6	8.4	10	10.7	11.2	12.5	17.7	10.9	24	
8		13	14.5	13.1	9.1	10.7	12.4	12.1	15.2	16.4	17	14.9	13	10.1	9.5	8.7	9.4	8.6	7.3	10.3	10	11.5	7.8	7.1	5.8	11.3	11.1	24	
9		3.9	3.6	5.8	8.4	8.9	7.5	7.2	8.2	7.1	6.3	9	6.1	5.8	4.2	3.9	3.9	3.2	5.2	5.1	7.4	4.9	3.7	2.9	2.5	9.0	5.6	24	
10		2.1	2.1	5.7	6.7	5.1	4	3.3	2.7	4.5	4.2	3.4	4.7	5.3	3.3	4	2.2	2.5	1.5	3	0.9	2.2	2.1	1.2	0.2	6.7	3.2	24	
11		1.3	2.1	1.5	1.2	1.9	1.7	1.2	0.9	0.9	0.6	2.2	3.1	1.4	3	4.2	3.5	3.6	4.4	3.9	3.5	4.5	6.8	9.9	8.3	9.9	3.2	24	
12		9.2	9.9	9.6	10.3	7.9	7.5	8.2	13.9	12.4	13.3	14.3	14.8	13.5	12.3	12.1	12.2	11.7	13.5	15.6	13.8	14.6	13.2	11.8	11.7	15.6	12.0	24	
13		12.2	9.7	11.3	10.5	8.8	9	5.5	3.4	4.2	6.4	6.5	4.5	4.6	5.2	10.7	7.9	7.8	7.1	8.1	6.4	8.7	6.2	11.5	10.6	12.2	7.8	24	
14		8.2	3.8	9	12.7	6	3.4	5.9	8.9	11	8.1	9	5.4	12.6	10.3	16.8	18.5	9.5	8.5	10.5	13.6	16	13.5	13.8	12.1	18.5	10.3	24	
15		11.1	10.5	5.4	5.1	6.5	N	1.8	0.9	1.5	4.3	3.8	3.1	3	3.6	2.7	4.8	4.6	4.7	3.6	2.9	3.8	0.9	0.4	2.2	11.1	4.0	23	
16		2.2	2.3	3.1	0.3	1.2	1.6	2.4	0.9	0.5	0.4	0.1	0.6	1.5	0.3	1.3	2.5	2.4	3	4.2	4.1	5	4	5.9	2.9	5.9	2.2	24	
17		3	2.9	2.8	1.2	2.7	3.4	4.1	4.3	4.2	4.2	8.5	9.2	11	12.2	7.7	15	13.4	14	10	9.1	9.8	12.6	9.2	6.7	15.0	7.6	24	
18		6.4	4.6	3.2	8.8	8.8	8	9.1	9.1	8.7	7.6	7.5	10.6	10.5	9.4	9.1	9.4	8.7	6.3	4.7	6.3	5.2	8.3	7.7	6.9	10.6	7.7	24	
19		7.5	7.2	8	7.5	7.8	7.4	7.4	6.8	4.3	9.3	10.6	10.4	5.2	6.6	3.6	4.1	6.1	9.8	8.2	6.1	6	6.7	5.5	7.1	10.6	7.1	24	
20		6.6	4.6	2.8	3.9	2.7	4.2	2.6	1.8	4.2	4.9	5	5.7	6.6	9.1	9.2	7.4	6.4	3.6	3.5	3.3	5	5.2	6.8	9.1	9.2	5.2	24	
21		6.9	8.6	10.7	9.3	10.6	11.3	6.9	6.1	11	7.4	6.9	7	5.2	5.1	5.7	2.8	3.5	4.2	8.6	8.9	8.1	11.3	11.7	14	14.0	8.0	24	
22		12.4	10.8	10.2	10	9.4	10.2	9.3	7.2	8.1	10.4	8.4	8.1	6.9	6.7	8	9.4	8.8	5.7	1.3	3.2	3.3	1.8	2.4	2.2	12.4	7.3	24	
23		2.3	2.1	3.5	2.4	1.7	2.1	1.9	0.6	2	3.7	7.7	8.5	10.6	10.4	8.1	9.2	10.4	8.3	7.2	11.6	7.2	7.2	8.2	8.4	11.6	6.1	24	
24		6.3	5.9	7.2	7.9	7.1	4.5	3.2	6.6	5.3	3.8	5.8	6	5.8	4.9	1.9	0.4	4.8	6	5.4	4.8	2.6	3.4	2	3.3	7.9	4.8	24	
25		3.4	0.2	0.9	2.5	1.7	1.7	3.1	2.4	2.6	1.4	4.5	2.8	3.5	3.4	3	5.9	6.2	7.9	8	5.7	5.9	6.2	4.4	3.4	8.0	3.8	24	
26		4.5	1.8	1.7	1.1	1.7	3.6	0.6	2.4	0.7	0.9	3.5	1.4	4	4.4	3.5	4	2	4	7.7	8.5	8.5	9.3	10.5	10.8	10.8	4.2	24	
27		10.5	10.1	11.2	12.5	12.7	15	13.1	14.5	17.2	16	15.5	15	13	17.3	20.6	24.8	16.9	14.1	13.1	13.5	8.9	6.8	11.8	16.4	24.8	14.2	24	
28		15.3	10.7	14.1	10.3	6.7	6.8	1.8	5.4	4.3	3.8	3	4.4	4.8	3.7	4.2	8	7.2	4.1	4.3	4.6	3.4	3.5	4.5	4.1	15.3	6.0	24	
HOURLY MAX		15.3	14.5	14.1	12.7	12.7	15.0	13.1	15.2	17.2	17.0	15.7	17.7	13.5	17.3	20.6	24.8	16.9	14.1	15.6	13.8	16.0	13.5	13.8	16.4				
HOURLY AVG		6.9	6.5	6.8	6.8	6.5	6.6	5.8	6.3	6.9	7.0	7.5	7.3	7.2	7.2	7.3	7.8	7.2	6.8	7.0	7.1	6.9	6.7	6.9	7.0				

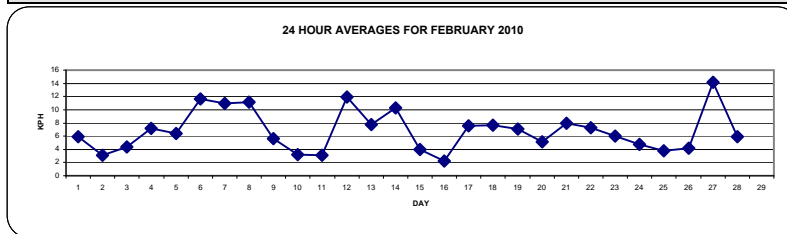
STATUS FLAG CODES

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

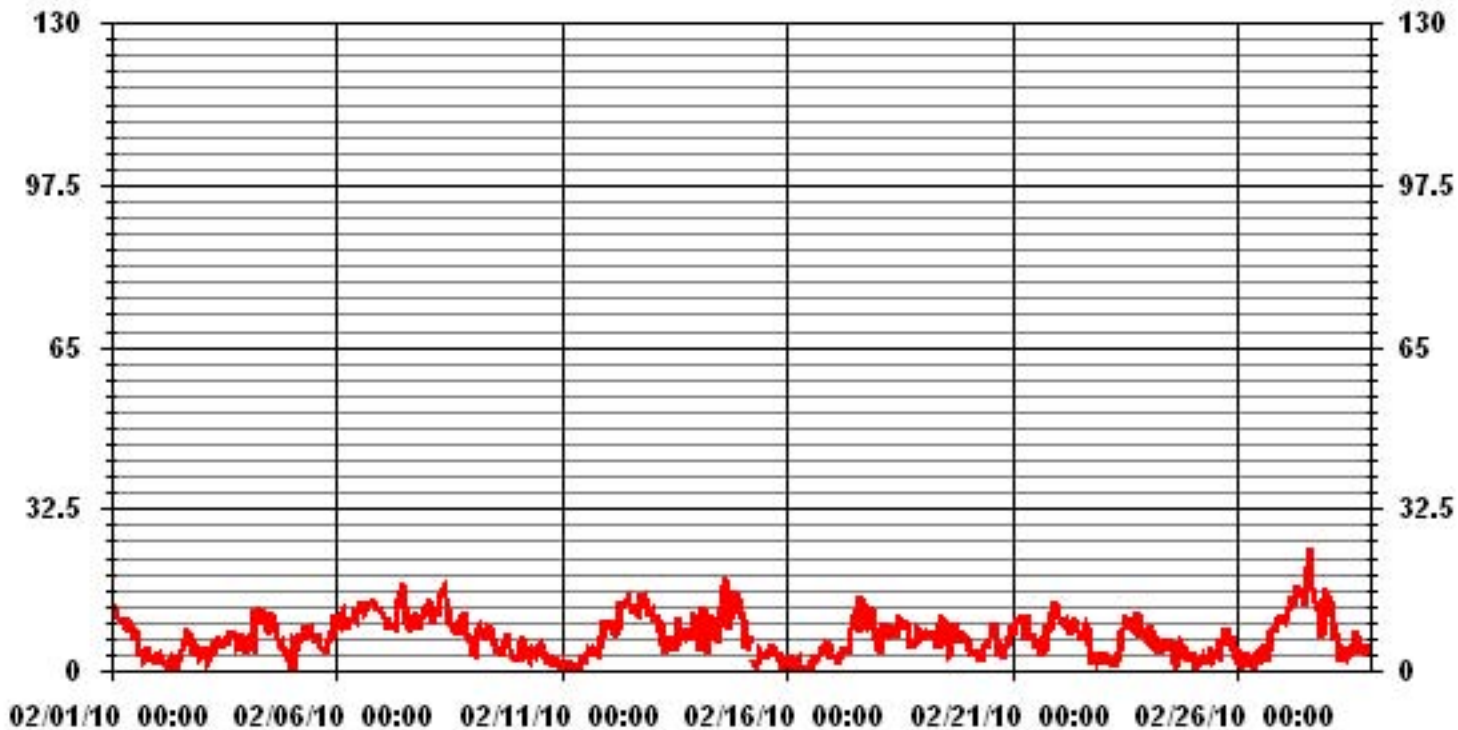
LAST CALIBRATION: September 24, 2009

MONTHLY SUMMARY

MAXIMUM 1-HR AVERAGE:	24.8	KPH	@ HOUR(S)	15	ON DAY(S)	27
MAXIMUM 24-HR AVERAGE:	14.2	KPH			ON DAY(S)	27
CALMS (≤ 0 KPH)	0.86	%	OPERATIONAL TIME:	671	HRS	
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	99.9	%	
STANDARD DEVIATION:	4.01		MONTHLY AVERAGE:	6.91	KPH	



01 Hour Averages



— LICA33 WSP KPH

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010

VECTOR WIND SPEED MAX instantaneous maximum in km/hr

MST		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 START	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	16.7	20.3	18.8	16.4	15.5	13.7	13.9	13	13.2	14.4	12.4	12.7	9.8	12.5	8.4	6.9	6.6	4.4	4	6.7	5.1	5	5.2	3.8	20.3
2	3.8	3.6	4.7	5.7	5.7	4.4	4.5	3.9	4.5	5.8	2	7.3	7.5	7.2	8.8	12.6	15	10.5	9	9.8	10.4	6.4	6.6	4.9	15	
3	4.8	7.6	7.6	5.5	8.1	10.1	9.3	9.5	11	10.3	10.5	12.4	12	11.7	10.3	11.6	9.6	12.4	11.5	7.6	8.6	10	8	6.8	12.4	
4	17.7	15.1	12.8	16.7	19.7	20.2	19.1	13.8	18.7	22.3	18.5	16.3	15.1	18.8	14.9	15.7	14.4	11.9	11	8.4	7.1	7.5	6.3	4.6	22.3	
5	6.1	13.3	13.8	11.6	12.5	13.1	11	13.4	11.5	11.6	11.6	12.1	10.8	9.4	10	9.8	6.2	5.9	5.7	7.9	11.1	14.5	13	17.5	17.5	
6	14.4	15.8	15.7	16	14	15.1	15.6	15.7	14.3	15.9	14.4	15.7	17.6	17.1	16	17.7	17.4	18.1	19.7	19.5	19.4	17.5	17.6	17.4	19.7	
7	16.4	15	17.2	15.5	11.9	12.6	12.5	16.4	24.2	23.5	22.1	25.9	24.7	18.5	16.8	15	16.8	13.9	17.3	12.7	16.1	14.4	13.2	14.5	25.9	
8	15.8	17.3	16.4	14.4	16.4	20.7	18.1	21.8	24.3	22.8	21.5	20	16.7	14.1	15.5	20.6	17	12.8	20	14.5	25.1	19.5	14.7	12.5	25.1	
9	9.7	6.9	10.1	15.7	14.6	14.1	11.4	12.5	13.4	10.1	14.4	10.2	9.6	8.3	7.6	6.6	5.5	9.4	11.3	11.3	9.8	7.1	5.7	4	15.7	
10	4.7	5	8.3	10.8	10.3	7.8	8.5	6.4	7.9	6.6	7.5	7.6	7.4	6.8	6.5	6.6	6.2	5.3	5.6	5.2	6.4	5.4	4.3	2.2	10.8	
11	3.3	5.1	3.3	3.4	4.2	4.2	3	2.9	3.9	4.9	5.2	5.4	4.6	4.2	7	6.2	5.3	6.3	5.8	5.6	7.2	9.9	14	13.1	14	
12	13.6	15.2	16.4	15.1	11.6	11.6	13.5	22.7	20.8	22.6	21.8	20.1	18.4	16.5	18	18.8	17.4	21.3	24.2	22.6	21.3	20.7	17.8	17.4	24.2	
13	19	18.3	19.6	14.8	11	12.1	9.8	6	8.6	10.4	11.2	6.3	6.6	12.8	19.4	14.8	14.4	13.6	16.8	10.5	13.7	10.8	16.9	14	19.6	
14	12.4	8.7	16.1	18.4	14.5	7.2	12.1	13.1	15.6	16	16	15.7	26	17.4	28	26.3	17.6	14	20.1	22.6	24.3	23.7	19.2	16.8	28	
15	18.8	15.4	11.6	12.6	11.2	N	6.4	2.9	3.9	8.2	7.1	7.9	6.7	7.9	7.5	7.7	9	6	6.9	7	5.7	4.1	2.3	4	18.8	
16	4.3	4.8	5.7	2.6	3.2	3.7	5.1	2.7	2.3	2.2	0.4	3.5	4.4	3	4.9	5.3	5.6	6.1	6.2	5.6	7	5.5	7.8	7	7.8	
17	5.3	5	4.5	3.2	3.9	5.4	5.1	6.3	8.1	6.2	13.3	12.2	16.5	16.5	15.4	22.7	22.7	22.7	20.7	14.8	16.2	17.1	12.7	11.3	22.7	
18	8.9	6.8	7.9	12.3	12.5	11.3	12.2	12.1	12.7	11.7	13.4	14.8	15.2	13.5	14.3	14.8	13.8	9.8	8.7	11.9	9.2	11.2	9.9	10.1	15.2	
19	10.5	11.1	11.1	10.5	10.4	10.5	13.4	13.2	8.9	15.5	18.8	17.6	15.5	10.1	8.6	16	13.5	16.4	16.9	14.6	11.7	11.2	8.3	12.6	18.8	
20	10.9	7.8	7.4	9.7	6.4	10.3	8.7	10.1	11.2	10.6	12.3	14.3	15.2	15.6	17.8	15.6	11.1	9	7.9	11.1	12.4	10.9	17.1	14.9	17.8	
21	14	17.2	16.9	15.2	18.8	22	16.7	13	18.8	18.8	16.7	14.7	12	14	11.2	7.4	6.3	10.1	12.1	12	16.1	20.5	22.8	26.2	26.2	
22	23.4	24	19.6	19.2	20.4	19.3	18.7	14	17.1	20	14.6	15.7	14.3	13.8	15.6	17.2	15.9	8.7	5	6.1	6.9	4.5	4.4	4.7	24	
23	5.3	6.7	6.6	3.9	4.6	4.1	4.3	4	4.5	6.9	11.5	15.9	18	18.5	16.8	18	17.7	15.6	21.9	22.8	19.5	19.1	18.2	18.4	22.8	
24	14.8	15.3	15.3	16.6	14.1	11	8.7	12.8	10.9	8.4	11.8	9.2	10.3	9.2	5.1	3.4	10	9.1	7.4	6.5	5.3	7.8	4.8	9.1	16.6	
25	7.6	3.4	3.7	5.8	3.1	5.9	5.2	4.6	7.9	8	8.3	8.4	9.3	6.2	6.9	13.5	11.7	13.3	12.9	12.1	7.9	9.9	8.1	6.1	13.5	
26	10.5	6.3	5.4	6.2	5	6.6	4.7	5.8	3.5	4.1	6.9	5.5	6.5	6.8	5.2	6.3	5	5.5	13.9	12.1	13	12.6	15.8	15.4	15.8	
27	14.7	13.8	15.5	17.5	16.2	20.1	18	21.3	25.3	22	21.3	20.9	18.8	24.9	32.4	37.1	31.4	24.8	19.8	17.7	13.2	19.6	25.7	29.6	37.1	
28	28.2	20.4	25.3	19.8	15.5	13.5	6	8	7.9	8.3	7.9	11.1	11	7.6	9.6	15.1	14.7	11.4	10.9	8.9	6.1	9.3	9.5	6.9	28.2	
PEAK		28.2	24.0	25.3	19.8	20.4	22.0	19.1	22.7	25.3	23.5	22.1	25.9	26.0	24.9	32.4	37.1	31.4	24.8	24.2	22.8	25.1	23.7	25.7	29.6	

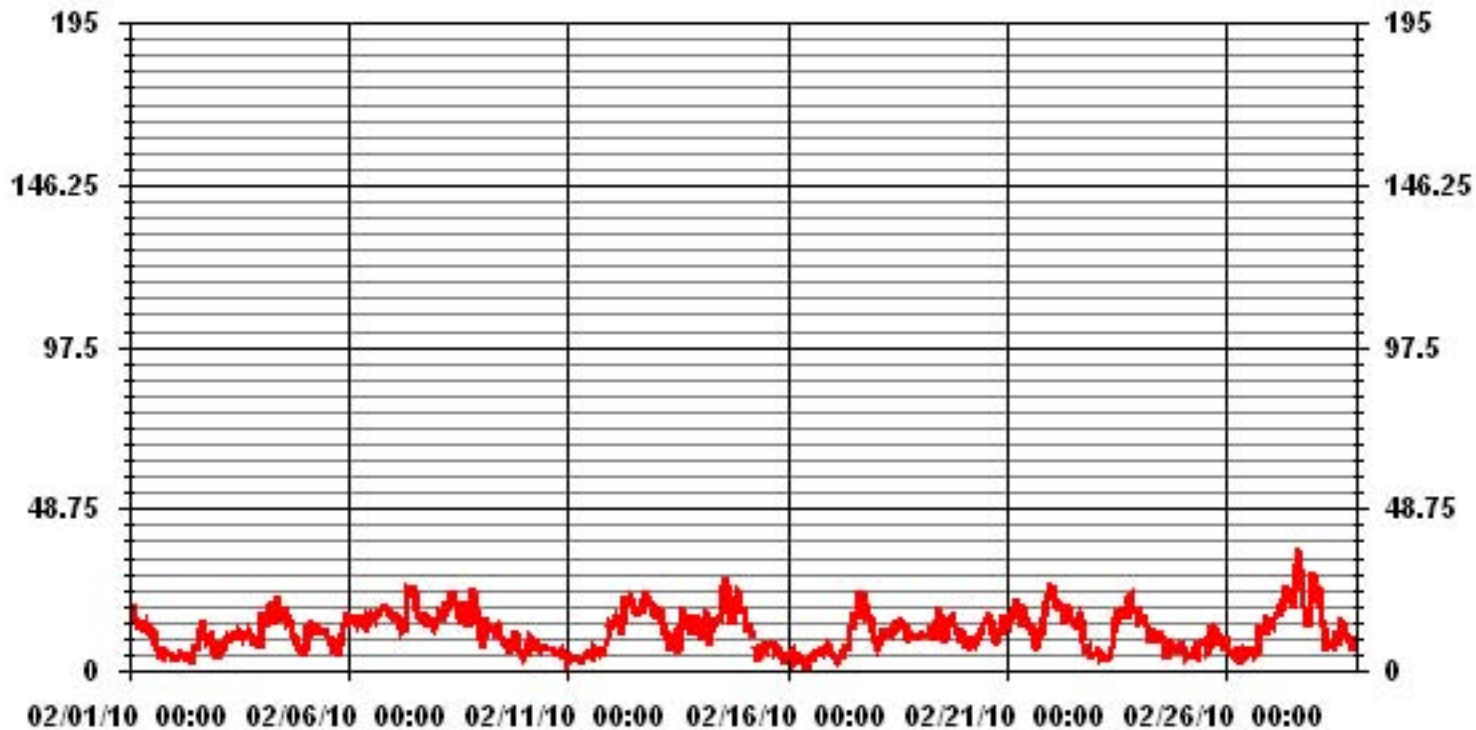
STATUS FLAG CODES

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

MONTHLY SUMMARY

MAXIMUM INSTANTANEOUS READING	37.1	KPH	@ HOUR(S)	15
			ON DAY(S)	27

01 Hour Averages



— LICA33 WSMAX KPH

LICA33
WSP / WDR Joint Frequency Distribution (Percent)

February 2010

Distribution By % Of Samples

Logger Id : 33
Site Name : LICA33
Parameter : WSP
Units : KPH

Wind Parameter : WDR
Instrument Height : 10 Meters

	Direction																	
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq	
< 6.0	1.04	.74	.89	2.08	3.87	3.87	4.91	4.47	4.17	3.87	7.15	2.53	2.38	1.63	1.19	.89	45.75	
< 12.0	1.04	.29	.14	1.04	4.76	5.81	8.49	5.21	2.53	.74	3.72	.74	1.78	2.98	.74	1.63	41.72	
< 20.0	.14	.00	.00	.00	3.57	3.87	3.12	.44	.14	.00	.14	.00	.59	.00	.00	.14	12.22	
< 29.0	.00	.00	.00	.00	.00	.29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.29	
< 39.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
>= 39.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
Totals	2.23	1.04	1.04	3.12	12.22	13.85	16.54	10.13	6.85	4.61	11.02	3.27	4.76	4.61	1.93	2.68		

Calm : .00 %

Total # Operational Hours : 671

Distribution By Samples

	Direction																	
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq	
< 6.0	7	5	6	14	26	26	33	30	28	26	48	17	16	11	8	6	307	
< 12.0	7	2	1	7	32	39	57	35	17	5	25	5	12	20	5	11	280	
< 20.0	1				24	26	21	3	1		1		4			1	82	
< 29.0						2											2	
< 39.0																		
>= 39.0																		
Totals	15	7	7	21	82	93	111	68	46	31	74	22	32	31	13	18		

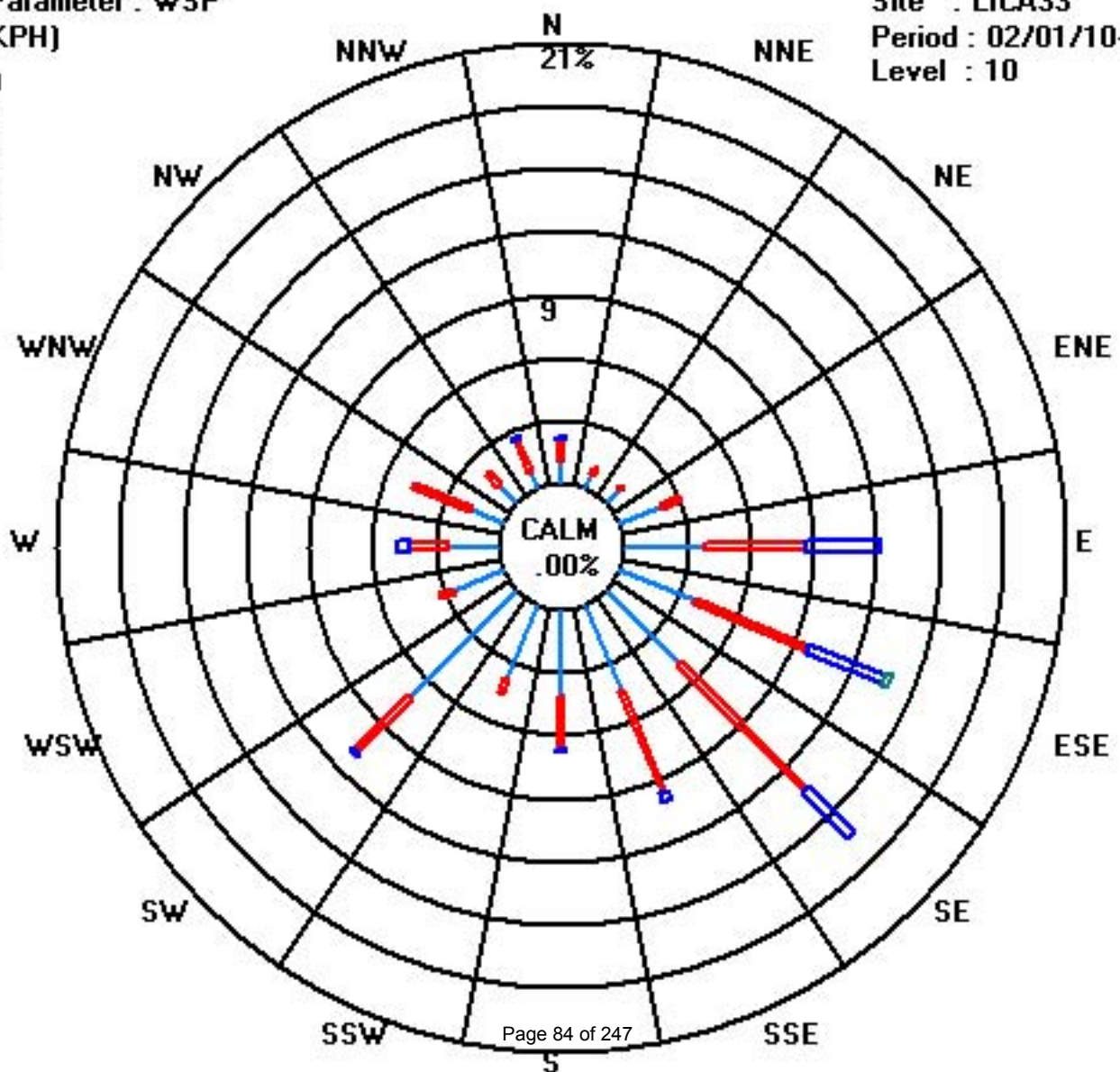
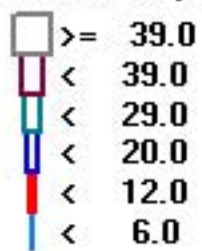
Calm : .00 %

Total # Operational Hours : 671

Class Limits (KPH)

Period : 02/01/10-02/28/10

Level : 10



Vector Wind Direction

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010

VECTOR WIND DIRECTION (WD) hourly averages in degrees

MST

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.	QUADRANT	RDGS.	
DAY																												
1	116	128	139	136	134	132	121	121	119	122	117	103	93	120	106	73	86	39	5	21	28	6	10	337	113	ESE	24	
2	312	281	231	305	259	308	235	227	234	230	8	215	219	217	216	228	238	244	253	282	281	285	245	277	249	WSW	24	
3	257	220	222	148	155	145	132	119	142	150	156	155	146	151	129	131	122	141	141	106	92	106	131	140	139	SE	24	
4	173	189	187	165	165	164	158	139	146	170	162	155	165	172	173	174	179	180	181	178	168	188	198	34	167	SSE	24	
5	99	163	164	153	136	135	131	128	131	124	133	140	138	129	110	101	109	99	130	96	109	141	153	127	130	SE	24	
6	112	108	94	89	89	83	82	86	95	97	97	97	98	96	94	93	95	95	99	98	95	99	104	104	96	E	24	
7	108	114	141	124	110	110	117	126	140	144	138	141	149	170	160	154	142	151	139	145	138	116	112	109	133	SE	24	
8	106	102	104	97	116	121	126	137	139	133	136	143	145	135	136	155	158	141	145	144	147	153	148	152	132	SE	24	
9	140	165	153	147	165	157	149	144	148	152	143	145	144	151	151	141	150	177	174	171	172	146	146	102	152	SSE	24	
10	141	212	225	221	227	240	242	248	236	237	238	232	226	204	145	168	194	176	127	140	207	223	209	341	215	SSW	24	
11	234	280	276	293	289	284	287	269	72	65	118	94	95	108	94	106	110	142	133	74	52	62	77	85	87	E	24	
12	90	95	99	90	92	81	102	107	112	109	112	104	113	103	108	114	91	91	103	103	107	113	104	96	102	E	24	
13	121	123	133	136	110	103	98	97	96	102	90	81	92	144	168	154	154	149	128	115	124	105	114	107	121	ESE	24	
14	110	94	105	121	109	31	74	99	111	97	103	108	150	146	136	135	140	140	141	145	146	144	134	138	127	SE	24	
15	130	134	150	142	124	N	276	77	139	148	160	196	186	175	175	146	152	138	176	212	230	325	281	256	154	SSE	23	
16	280	274	308	209	296	257	314	301	220	227	141	202	165	179	175	213	212	215	232	226	220	296	224	216	238	SW	24	
17	231	235	229	245	223	231	226	222	222	233	237	230	226	227	220	274	262	265	267	270	272	277	280	262	251	WSW	24	
18	243	241	262	281	280	288	291	291	292	300	278	284	280	272	273	281	298	315	326	340	311	299	293	291	287	WNW	24	
19	282	295	298	287	286	307	344	16	7	0	2	2	29	82	114	348	59	47	83	74	69	79	76	73	13	NNE	24	
20	69	54	83	88	88	91	106	108	124	152	188	199	224	233	225	239	231	203	191	217	202	225	217	225	194	SSW	24	
21	218	217	221	221	219	220	215	216	222	210	209	209	185	189	218	207	280	260	287	300	331	348	343	354	244	WSW	24	
22	343	1	2	22	343	330	2	345	339	351	343	329	325	326	308	299	293	284	294	82	102	164	156	148	339	NNW	24	
23	119	91	131	109	48	17	39	4	74	118	132	143	154	163	175	158	166	159	171	218	207	189	183	179	162	SSE	24	
24	192	199	178	174	169	187	175	169	171	187	229	224	221	237	237	199	185	224	225	239	270	277	188	238	203	SSW	24	
25	298	241	353	117	172	132	130	72	84	344	91	68	90	135	194	165	161	163	153	139	115	112	152	156	134	SE	24	
26	134	76	104	347	76	134	129	112	73	337	105	105	109	81	80	75	107	106	135	113	136	103	84	80	103	ESE	24	
27	80	87	85	92	90	83	81	84	91	94	90	79	84	102	105	108	107	90	86	95	106	132	146	137	96	E	24	
28	143	146	145	146	150	151	202	158	174	199	183	211	219	196	196	218	217	209	200	219	230	219	216	234	179	S	24	
HOURLY AVG	343	295	353	347	343	330	344	345	339	351	343	329	325	326	308	348	298	315	326	340	331	348	343	354				

STATUS FLAG CODES

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

LAST CALIBRATION:	September 24, 2009
DECLINATION :	19 DEGREES FROM MAGNETIC NORTH

MONTHLY CALIBRATION TIME:	0 HRS	OPERATIONAL TIME:	671 HRS
STANDARD DEVIATION	75.86	AMD OPERATION UPTIME	99.9 %
		MONTHLY AVERAGE	136 DEG

Standard Deviation Wind Direction

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - PORTABLE SITE

FEBRUARY 2010

STANDARD DEVIATION WIND DIRECTION (STDWDIR) hourly averages in degrees

MST

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	5	8	8	7	5	6	6	5	5	8	7	8	11	8	11	21	14	20	8	6	4	9	12	8
2	7	11	4	24	23	36	28	9	7	20	21	45	16	13	20	16	6	7	6	7	9	32	7	12
3	15	8	11	21	13	12	29	14	10	14	22	15	13	13	7	7	7	8	8	7	6	5	11	9
4	15	21	19	18	12	13	14	7	11	11	13	14	16	11	10	11	15	15	14	8	10	15	29	34
5	31	15	15	19	14	11	12	12	12	9	9	12	12	13	6	8	7	17	11	5	6	13	14	7
6	4	5	5	5	6	7	8	6	6	6	6	6	6	6	6	7	6	6	6	6	6	6	6	6
7	6	6	10	6	5	5	5	7	8	10	7	8	13	12	14	13	6	10	5	7	6	3	2	2
8	3	3	3	3	4	5	6	7	7	6	6	9	10	8	11	14	14	10	9	7	10	13	12	12
9	18	11	10	11	13	14	12	10	11	12	9	11	13	14	17	11	11	11	12	10	10	13	12	13
10	18	18	8	12	8	11	14	17	13	12	13	11	7	18	12	24	16	36	18	27	21	9	31	27
11	18	15	10	23	10	10	21	11	55	42	21	9	31	11	10	6	7	9	11	9	13	5	5	7
12	6	6	6	6	7	6	6	7	7	7	7	8	7	8	9	8	10	7	6	7	7	8	7	6
13	6	9	8	5	6	3	13	8	10	4	6	7	10	16	13	14	14	12	13	9	8	6	6	5
14	8	12	7	5	33	29	19	6	4	6	8	21	13	12	8	6	8	10	7	8	9	9	4	4
15	7	6	10	27	20	N	26	20	29	15	18	27	24	21	27	11	13	7	11	14	13	15	9	6
16	7	7	7	36	15	14	12	30	43	38	31	27	33	54	20	14	16	12	5	5	7	20	7	16
17	37	8	8	16	8	4	3	6	13	9	7	6	4	4	16	8	8	8	10	7	7	4	4	8
18	7	8	12	4	4	5	4	3	5	8	7	6	6	6	8	6	7	8	10	10	9	4	3	4
19	6	11	6	4	4	6	9	15	14	12	13	13	19	15	26	54	16	11	10	7	8	6	8	7
20	14	14	18	21	18	24	40	39	28	18	28	21	19	13	12	16	9	22	20	21	20	16	18	8
21	16	17	12	11	15	12	22	18	10	24	21	19	21	19	18	36	20	17	7	10	8	11	12	12
22	13	15	16	10	14	13	12	13	15	13	17	16	18	23	16	11	10	4	25	10	20	20	14	16
23	13	27	10	10	15	17	15	30	16	11	7	12	13	14	17	14	14	14	16	16	24	23	17	14
24	21	21	14	12	13	21	25	13	16	20	12	12	17	17	32	44	13	9	6	10	12	27	22	21
25	45	34	37	25	18	22	20	24	13	40	18	43	37	15	23	14	14	13	10	13	8	9	12	15
26	23	31	63	76	25	11	26	47	44	43	18	48	8	7	7	9	12	4	13	8	6	4	4	6
27	4	5	5	4	4	4	5	5	5	5	6	5	5	5	5	6	6	9	6	4	6	10	11	8
28	10	10	9	10	12	11	20	10	18	24	26	24	20	25	25	15	18	27	19	22	13	24	18	16
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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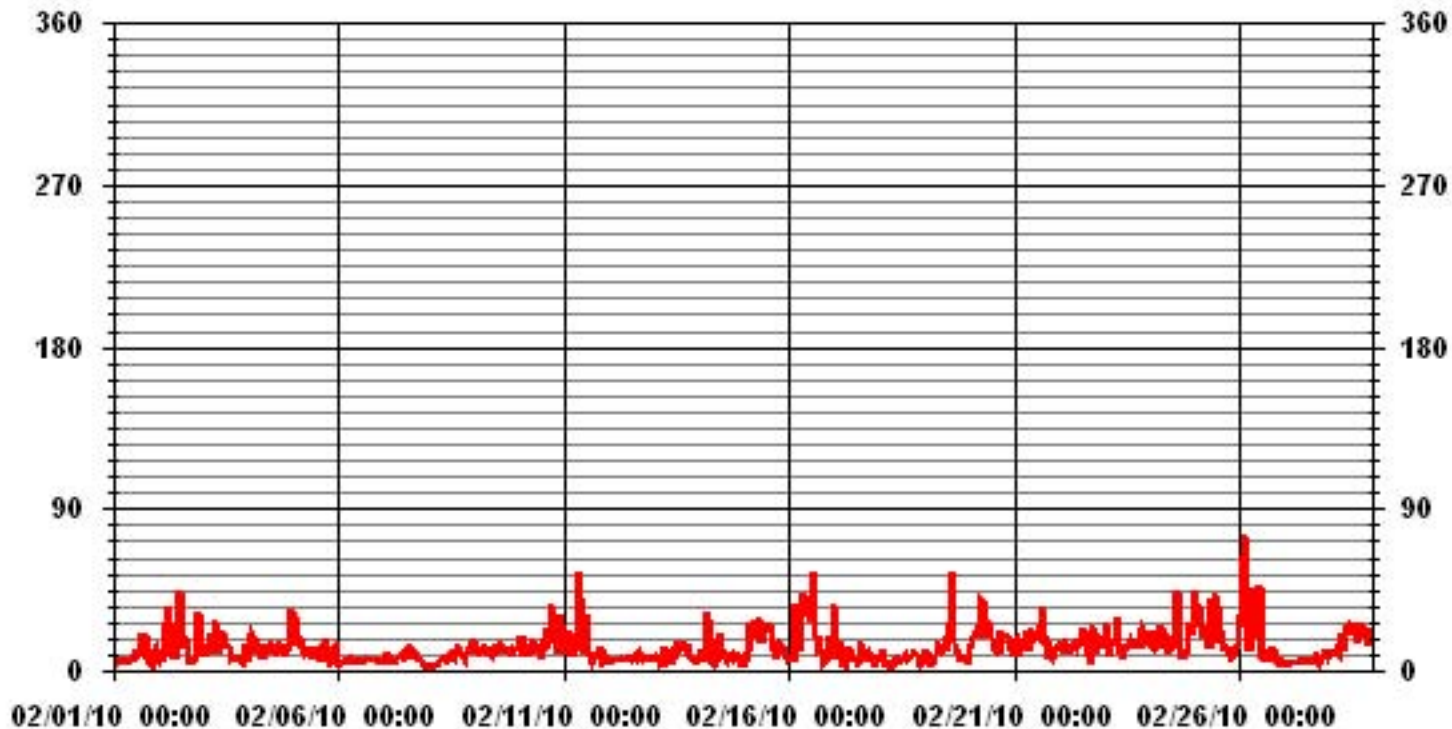
STATUS FLAG CODES

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

LAST CALIBRATION: September 24, 2009

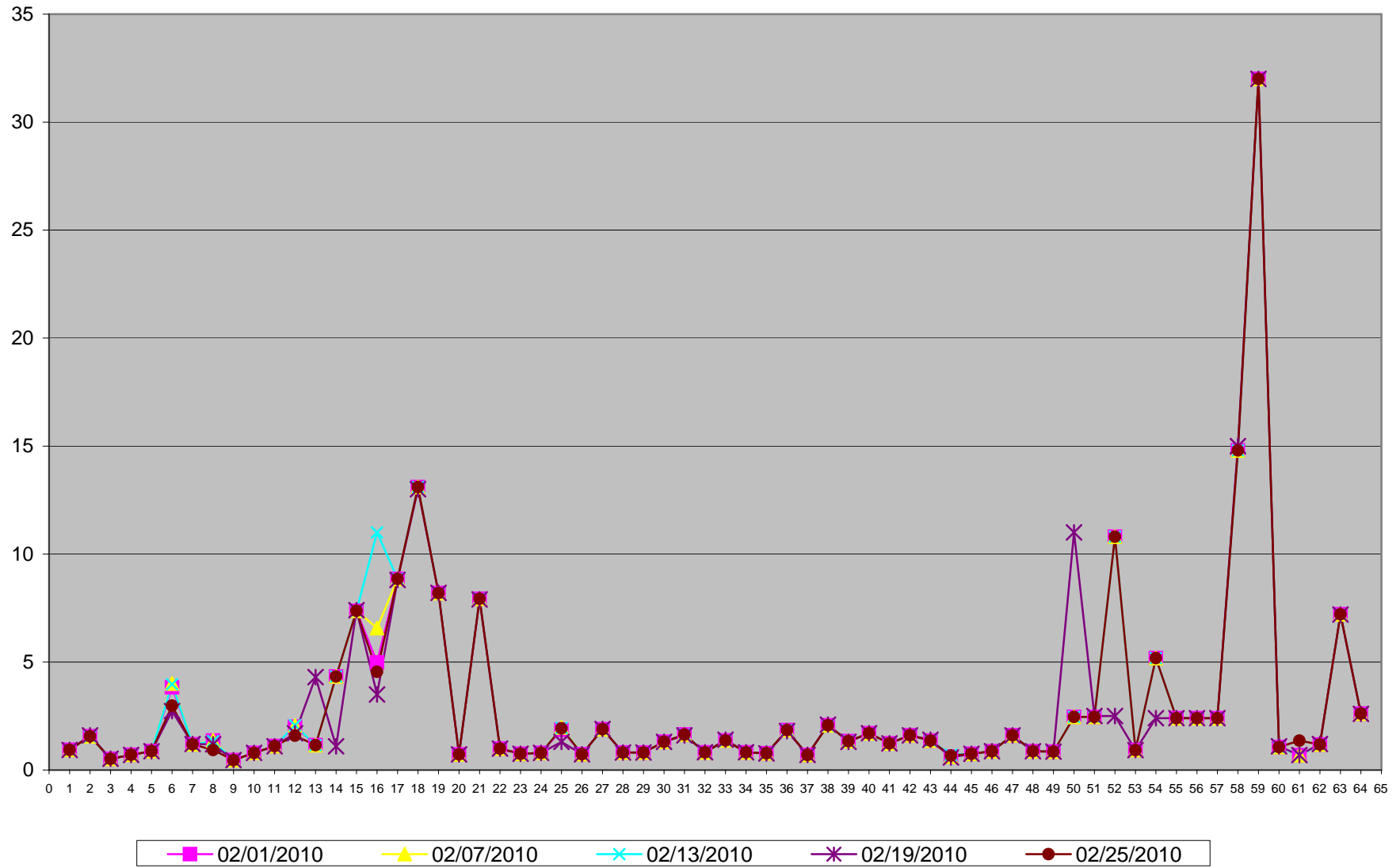
CALIBRATION TIME: 0 HRS OPERATIONAL TIME: 671 HRS

01 Hour Averages



Volatile Organics

Volatile Organics in ug/m3 Site: LICA - Portable Site



1	2,2,4-Trimethylpentane	33	1,1,2,2-Tetrachloroethane
2	Carbon Disulfide	34	cis-1,3-Dichloropropene
3	Propene	35	trans-1,3-Dichloropropene
4	Vinyl Acetate	36	1,2-Dichloropropane
5	Vinyl Bromide	37	Bromomethane
6	Dichlorodifluoromethane (FREON 12)	38	Bromoform
7	1,2-Dichlorotetrafluoroethane	39	Bromodichloromethane
8	Chloromethane	40	Dibromochloromethane
9	Vinyl Chloride	41	Heptane
10	Chloroethane	42	Trichloroethylene
11	1,3-Butadiene	43	Tetrachloroethylene
12	Trichlorofluoromethane (FREON 11)	44	Benzene
13	Trichlorotrifluoroethane	45	Toluene
14	Ethanol	46	Ethylbenzene
15	2-Propanol	47	p+m-Xylene
16	2-Propanone	48	o-Xylene
17	Methyl Ethyl Ketone (2-Butanone)	49	Styrene
18	Methyl Isobutyl Ketone	50	1,3,5-Trimethylbenzene
19	Methyl Butyl Ketone (2-Hexanone)	51	1,2,4-Trimethylbenzene
20	Methyl t-butyl ether (MTBE)	52	4-ethyltoluene
21	Ethyl Acetate	53	Chlorobenzene
22	1,1-Dichloroethylene	54	Benzyl chloride
23	cis-1,2-Dichloroethylene	55	1,3-Dichlorobenzene
24	trans-1,2-Dichloroethylene	56	1,4-Dichlorobenzene
25	Methylene Chloride (Dichloromethane)	57	1,2-Dichlorobenzene
26	Chloroform	58	1,2,4-Trichlorobenzene
27	Carbon Tetrachloride	59	Hexachlorobutadiene
28	1,1-Dichloroethane	60	Hexane
29	1,2-Dichloroethane	61	Cyclohexane
30	Ethylene Dibromide	62	Tetrahydrofuran
31	1,1,1-Trichloroethane	63	1,4-Dioxane
32	1,1,2-Trichloroethane	64	Xylene (Total)

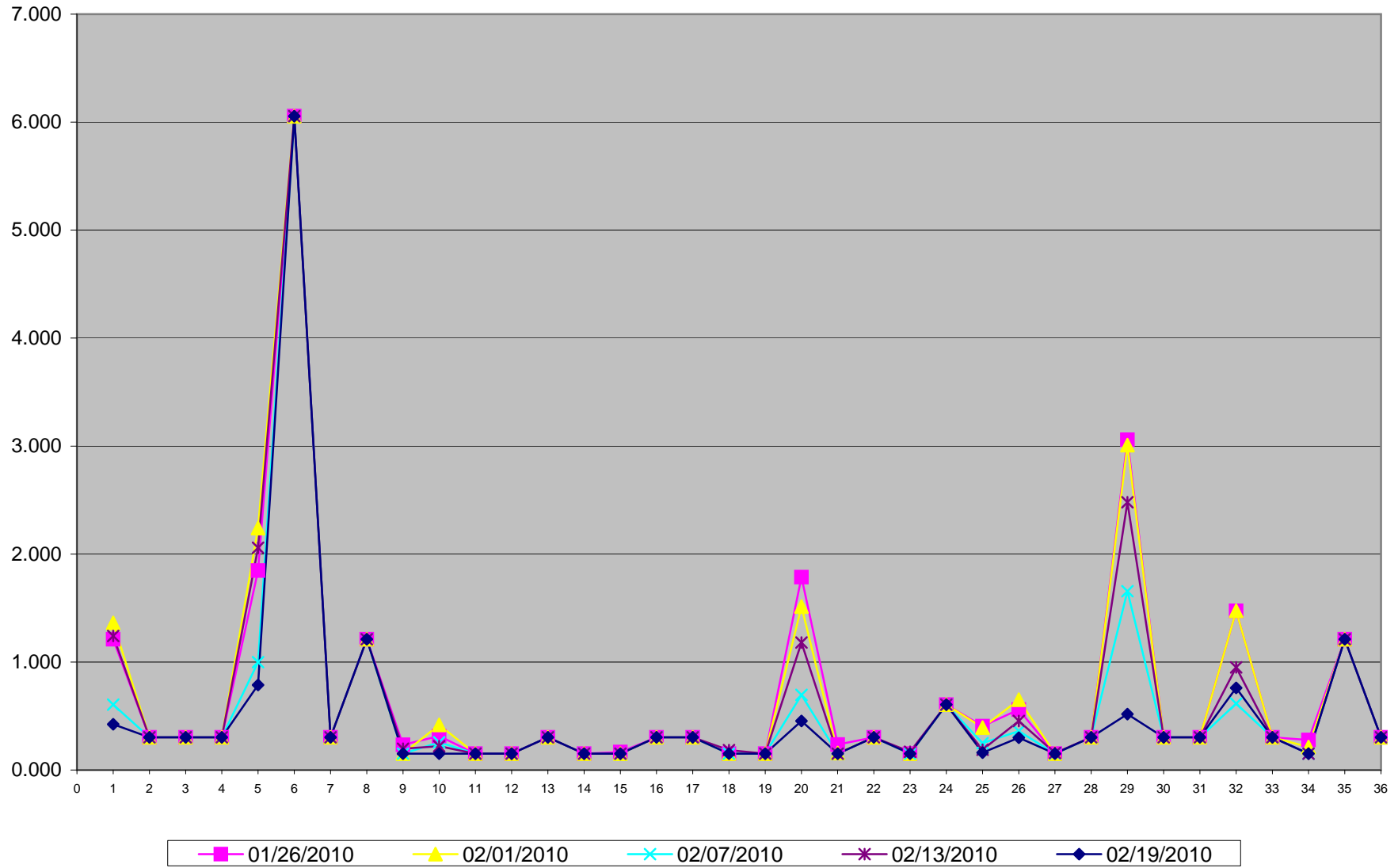
Polycyclic Aromatic Hydrocarbons

Polycyclic Aromatic Hydrocarbons (PAHs) Results for February 2010
LICA- Portable Site
Unit: ng/m3

PAHs	01/26/2010	02/01/2010	02/07/2010	02/13/2010	02/19/2010
Sample Volume (unit: m3)	330.30	330.32	330.30	330.30	330.30
1 1-Methylnaphthalene	1.211	1.362	0.606	1.241	0.424
2 1-Methylphenanthrene	0.303	0.303	0.303	0.303	0.303
3 2-Chloronaphthalene	0.303	0.303	0.303	0.303	0.303
4 2-Methylantracene	0.303	0.303	0.303	0.303	0.303
5 2-Methylnaphthalene	1.847	2.240	0.999	2.059	0.787
6 3-Methylcholanthrene	6.055	6.055	6.055	6.055	6.055
7 7,12-Dimethylbenzo(a)anthracene	0.303	0.303	0.303	0.303	0.303
8 9,10-Dimethylantracene	1.211	1.211	1.211	1.211	1.211
9 Acenaphthene	0.233	0.151	0.151	0.197	0.151
10 Acenaphthylene	0.315	0.418	0.257	0.221	0.151
11 Anthracene	0.151	0.151	0.151	0.151	0.151
12 Benzo(a)anthracene	0.151	0.151	0.151	0.151	0.151
13 Benzo(a)fluorene	0.303	0.303	0.303	0.303	0.303
14 Benzo(a)pyrene	0.151	0.151	0.151	0.151	0.151
15 Benzo(b)fluoranthene	0.167	0.151	0.151	0.151	0.151
16 Benzo(b)fluorene	0.303	0.303	0.303	0.303	0.303
17 Benzo(e)pyrene	0.303	0.303	0.303	0.303	0.303
18 Benzo(g,h,i)perylene	0.151	0.151	0.151	0.185	0.151
19 Benzo(k)fluoranthene	0.151	0.151	0.151	0.151	0.151
20 Biphenyl	1.786	1.514	0.696	1.181	0.454
21 Chrysene	0.236	0.157	0.151	0.151	0.151
22 Coronene	0.303	0.303	0.303	0.303	0.303
23 Dibenz(a,h)anthracene	0.151	0.151	0.151	0.170	0.151
24 Dibenzo(a,e)pyrene	0.606	0.605	0.606	0.606	0.606
25 Fluoranthene	0.406	0.394	0.248	0.188	0.160
26 Fluorene	0.560	0.651	0.360	0.454	0.300
27 Indeno(1,2,3-cd)pyrene	0.151	0.151	0.151	0.157	0.151
28 m-Terphenyl	0.303	0.303	0.303	0.303	0.303
29 Naphthalene	3.058	3.009	1.656	2.480	0.518
30 o-Terphenyl	0.303	0.303	0.303	0.303	0.303
31 Perylene	0.303	0.303	0.303	0.303	0.303
32 Phenanthrene	1.474	1.474	0.615	0.951	0.760
33 p-Terphenyl	0.303	0.303	0.303	0.303	0.303
34 Pyrene	0.279	0.212	0.151	0.151	0.151
35 Quinoline	1.211	1.211	1.211	1.211	1.211
36 Tetralin	0.303	0.303	0.303	0.303	0.303

Note: - values were calculated by the formula of [reading (ug) x 1000 / sample volume (m3)].
- Where the analytical results are less than the minimum detection limit (MDL), the MDL has been used in calculations.
- See analytical for details.
-No data for February 25th was collected due to a lab issue with the PUF cartridge.

PAHs in ng/m3 Site: LICA - Portable Site



1	1-Methylnaphthalene
2	1-Methylphenanthrene
3	2-Chloronaphthalene
4	2-Methylantracene
5	2-Methylnaphthalene
6	3-Methylcholanthrene
7	7,12-Dimethylbenzo(a)anthracene
8	9,10-Dimethylantracene
9	Acenaphthene
10	Acenaphthylene
11	Anthracene
12	Benzo(a)anthracene
13	Benzo(a)fluorene
14	Benzo(a)pyrene
15	Benzo(b)fluoranthene
16	Benzo(b)fluorene
17	Benzo(e)pyrene
18	Benzo(g,h,l)perylene
19	Benzo(k)fluoranthene
20	Biphenyl
21	Chrysene
22	Coronene
23	Dibenz(a,h)anthracene
24	Dibenzo(a,e)pyrene
25	Fluoranthene
26	Fluorene
27	Indeno(1,2,3-cd)pyrene
28	m-Terphenyl
29	Naphthalene
30	o-Terphenyl
31	Perylene
32	Phenanthrene
33	p-Terphenyl
34	Pyrene
35	Quinoline
36	Tetralin

Calibration Reports

Sulphur Dioxide

SO₂ Calibration Report

Station Information

Calibration Date	February 3, 2010	Previous Calibration	January 5, 2010
Company	Lakeland Community and Industry Association		
Plant / Location	Portable / Devon Wellsite 13-16-62-5 W4M		
Start Time (MST)	11:50	End Time (MST)	15:45
Reason:	Monthly Calibration		
Barometric Pressure	711 mmHg	Station Temperature	23 Deg C
Cal Gas	52.2 ppm	Cal Gas Expiry date	12/19/2010
DAS Output Voltage	0 - 10 Volts		

Equipment Information

Analyzer Make / Model:	API 100E	S/N :	467	Method:	UV absorbtion
Converter Make / Model:	-	S/N :	-		
Calibrator Make / Model:	api 700	S/N :	831	Method:	Dilution
DAS Make / Model:	ESC 8832	S/N :	AO 717		
Flow Meter:	api 700	S/N :	831		

Analyzer Settings

Before Calibration				After Calibration			
Concentration Range	0 - 500			ppb			
Sample Flow / Box Temp	593 ccm	32.2 Deg C	592	592 ccm	31.7 Deg C		
HVPS / Lamp Setting	560	2960	560	560	2944		
PMT / RxCell Temp	8.1 Deg C	50.0 Deg C	8.1 Deg C	50.0 Deg C	50.0 Deg C		
Converter / IZS Temp	NA Deg C	45.0 Deg C	NA Deg C	45.0 Deg C	45.0 Deg C		
Offset / Slope	42.9	1.024	42.9	42.9	1.052		

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
4998	0	0	1	N/A
4924	76.6	800	779	1.0265
4924	76.6	800	801	0.9983
4960	38.3	400	396	1.0101
4981	19.2	200	200	1.0022
4998	0	0	1	N/A
Sum of Least Squares				1.0007
New Correction Factor				0.9983

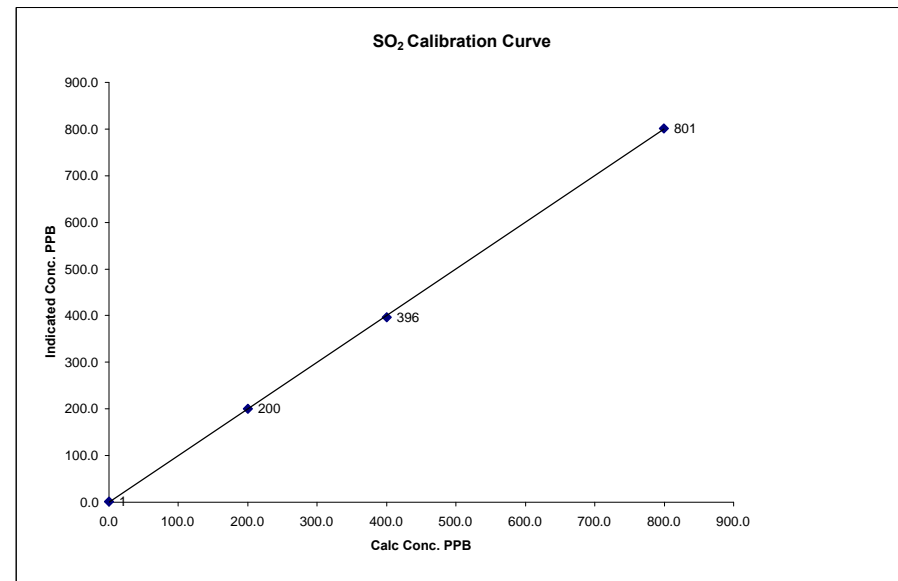
	Before Calibration	After Calibration
Auto Zero	1.4	1.2
Auto Span	350	358
Sample Lines Connected		YES
Percent Change from Previous Calibration		-2.7%

Calibration Performed by: Shea Beaton

SO₂ Calibration Curve

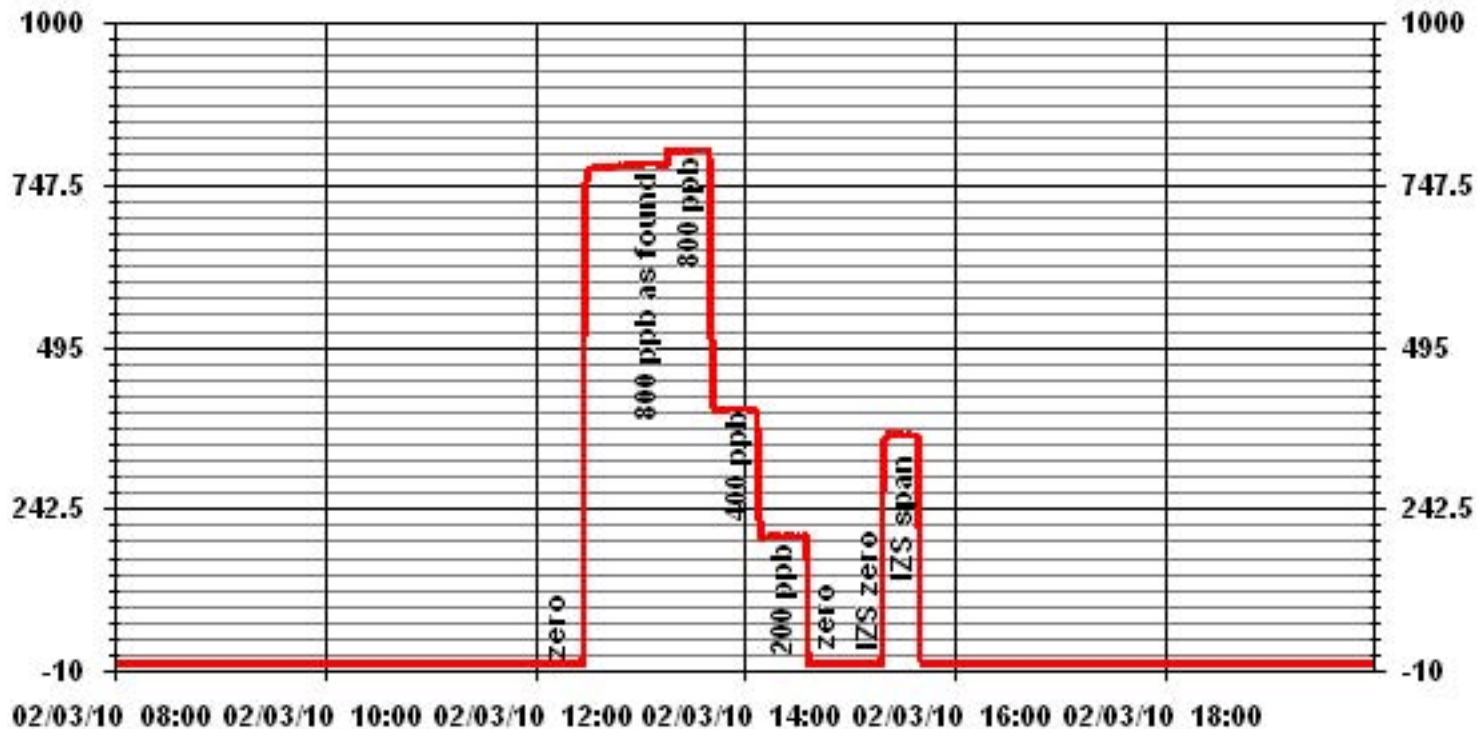
Calibration Date	February 3, 2010
Company	Lakeland Community and Industry Association
Plant / Location	Portable / Devon Wellsite 13-16-62-5 W4M
Start Time (MST)	11:50
End Time (MST)	15:45

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope	(≥ 0.995) (0.85 to 1.15)	0.999949
0	1	n/a	Intercept	(± 3% F.S.)	-0.651511
200	200	1.0022			
400	396	1.0101			
800	801	0.9983			



Notes:

01 Minute Averages



Hydrogen Sulphide

H₂S Calibration Report

Station Information

Calibration Date	February 3, 2010	Previous Calibration	January 5, 2010
Company	LAKELAND INDUSTRY & COMMUNITY ASSOCIATION		
Plant / Location	Portable/ Devon Wellsite 13-16-62-5-W4M		
Start Time (MST)	9:15	End Time (MST)	12:45
Reason:	Monthly Calibration		
Barometric Pressure	711 mmHg	Station Temperature	23 Deg C
Cal Gas	10.8 ppm	Cal Gas Expiry date	06/22/2010
DAS Output Voltage	0 - 1 Volts		

Equipment Information

Analyzer Make / Model:	API 101E	S/N :	509	Method:	Fluorescent
Converter Make / Model:	Internal	S/N :	N/A		
Calibrator Make / Model:	API 700	S/N :	831	Method:	Dilution
DAS Make / Model:	ESC 8832	S/N :	AO717		
Flow Meter:	API 700	S/N :	831		

Analyzer Settings

Before Calibration		After Calibration	
Concentration Range	0 - 100 ppb	0 - 100 ppb	
Sample Flow / Box Temp	556 ccm 32.2 Deg C	558 ccm 32.1 Deg C	
HVPS / Lamp Setting	516 2743	516 2742	
PMT / RxCell Temp	7.9 Deg C 50 Deg C	7.9 Deg C 50 Deg C	
Converter / IZS Temp	314.4 Deg C 45 Deg C	315.1 Deg C 45 Deg C	
Offset / Slope	41.3 1.038	42.1 1.044	

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
4997	0	0	0.4	N/A
4997	0	0	0	N/A
4961	37	80	80	0.9994
4977	20.8	45	46	0.9771
4985	11.6	25	25	1.0029
4998	0	0	0	N/A
Sum of Least Squares				0.9946
New Correction Factor				0.9994

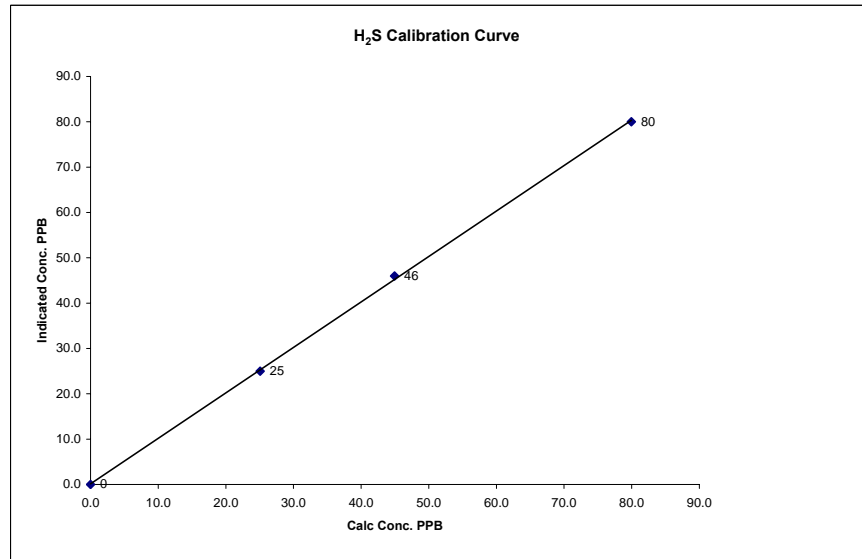
Before Calibration		After Calibration	
Auto Zero	0.8	0.4	
Auto Span	60	59	
Sample Lines Connected		YES	
Percent Change from Previous Calibration		0.0%	

Calibration Performed by: Shea Beaton

H₂S Calibration Curve

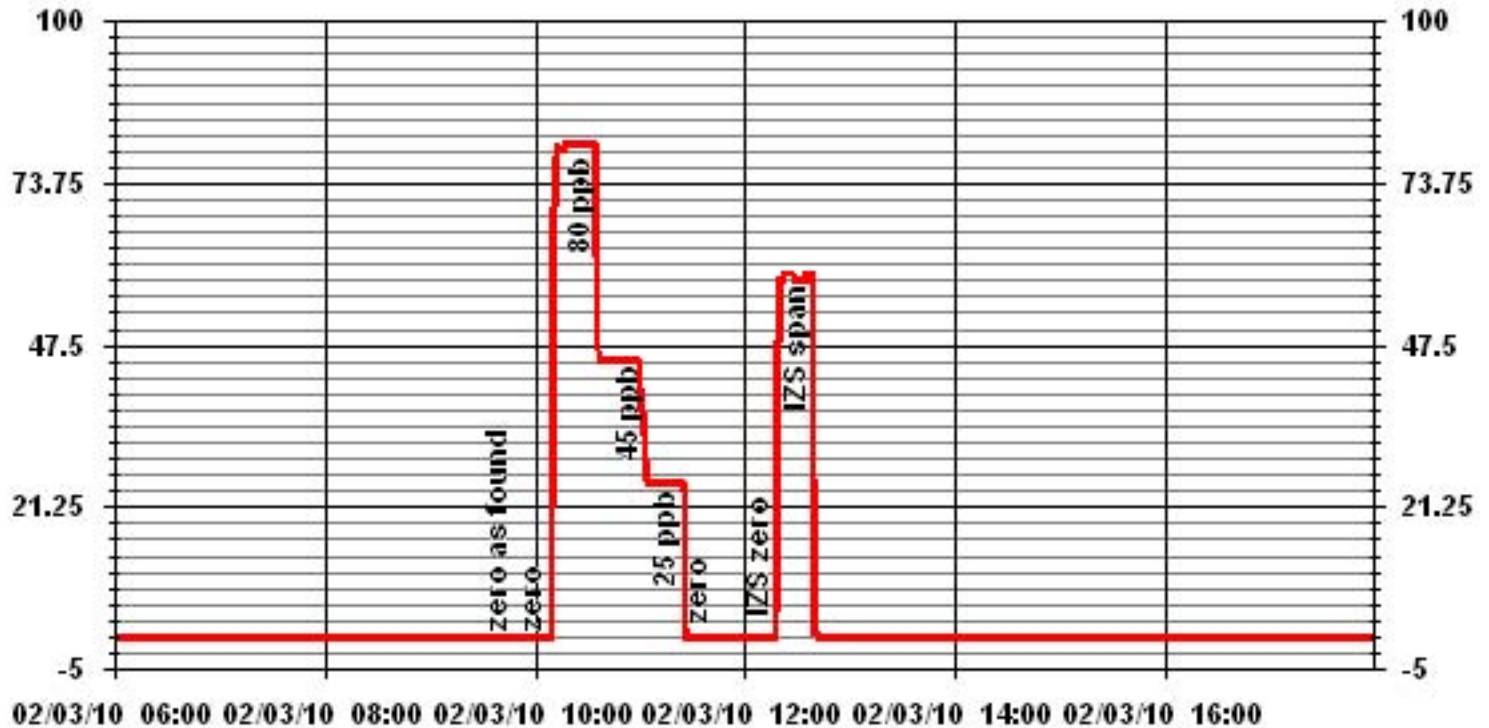
Calibration Date	February 3, 2010
Company	LAKELAND INDUSTRY & COMMUNITY ASSOCIATION
Plant / Location	Portable/ Devon Wellsite 13-16-62-5-W4M
Start Time (MST)	9:15
End Time (MST)	12:45

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope	(≥ 0.995) (0.85 to 1.15)	0.999763
0	0	n/a	Intercept	(± 3% F.S.)	0.138450
25	25	1.0029			
45	46	0.9771			
80	80	0.9994			



Notes: The as found zero was on the logger but was around 0.4ppb. The analyzer was zeroed to bring the values as close to zero as possible.

01 Minute Averages



Particulate Matter 2.5

TEOMÒ Audit

	<u>Station</u>		<u>Audit Transfer Standard</u>
Date:	February 5, 2010	Make/Model:	Bios DC-2
Station Name:	Lica Portable	Serial Number:	1193
Location:	Devon Wellsite 13-16-62-5 W4M	Cell s/n:	2272
Operator:	LICA	Thermometer s/n:	14-990A

	<u>Sampler</u>		<u>Set-up and current Sampler readings</u>
Make/Model	R+P Series 1400a Teom	F-Main Set Pt (l/min)	3.00
Unit #	NA	F-Aux Set Pt (l/min)	13.67
Control unit s/n	140AB220740001	Filter Load (%)	32%
Transducer s/n	140AB220740001	K _o Factor	13043
Parameter	PM 2.5	Temp (°C)	-9.0
		Press (ATM)	0.941

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

Audit

Zero flow			
	Pump Off		Pump On (Time to reach set points)
F-Main (l/min)	0.07		(45-60 Sec) 42
F-Aux (l/min)	0.17		(45-60 Sec) 57
Temperature/Pressure			
Measured Temp (± 1 °C)	-8.9	D °C	-0.1
Measured Press (± 1.5% ATM)	0.940	D % ATM	0.1%
Flow Audit			
Indicated Main/Aux Flow (l/min)	3.00 / 13.66	D % from Set-pt	0.0% / -0.1%
Total Flow = Main + Aux (l/min)	16.65	(± 2%)	-0.1%
Measured Total Flow (l/min)	17.80	(± 1.0 l/min. (5.65%))	1.15
Measured Main Flow (l/min)	3.24	(± 0.2 l/min. (6.25%))	0.24
Leak Check			
Main (< 0.15 l/min)	NA	Actual leakage = Pump On - Pump Off	
Aux (< 0.15 l/min)	NA	NA	
K_o Factor			
Measured	NA		
K _o Difference (± 2.5%)	NA		

Start Time: 10:10 **Finish Time:** 10:35

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

Comments: Following this audit the flows were calibrated; the calibration required almost no adjustment. This indicates a possible flow meter issue; the flows will be rechecked with a different meter asap. The inline filters were replaced.

Auditor/s: Shea Beaton

TEOMÒ Audit

	<u>Station</u>		<u>Audit Transfer Standard</u>
Date:	February 12, 2010	Make/Model:	Chicknook FTS
Station Name:	Lica Portable	Serial Number:	Hi-091001 Lo-091099
Location:	Devon Wellsite 13-16-62-5 W4M	Cell s/n:	NA
Operator:	LICA	Thermometer s/n:	14-990A

	<u>Sampler</u>		<u>Set-up and current Sampler readings</u>
Make/Model	R+P Series 1400a Teom	F-Main Set Pt (l/min)	3.00
Unit #	NA	F-Aux Set Pt (l/min)	13.67
Control unit s/n	140AB220740001	Filter Load (%)	39%
Transducer s/n	140AB220740001	K _o Factor	13043
Parameter	PM 2.5	Temp (°C)	-8.4
		Press (ATM)	0.935

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

Audit

Zero flow				
	Pump Off		Pump On (Time to reach set points)	
F-Main (l/min)	NA		(45-60 Sec)	NA
F-Aux (l/min)	NA		(45-60 Sec)	NA
Temperature/Pressure				
Measured Temp (± 1 °C)	-8		D °C	-0.4
Measured Press (± 1.5% ATM)	0.934		D % ATM	0.1%
Flow Audit				
Indicated Main/Aux Flow (l/min)	2.99	/	13.65	D % from Set-pt
Total Flow = Main + Aux (l/min)	16.64			(± 2%)
Measured Total Flow (l/min)	16.73			-0.3% / -0.1%
Measured Main Flow (l/min)	3.06			(± 2%)
				-0.2%
			(± 1.0 l/min. (5.65%))	0.09
			(± 0.2 l/min. (6.25%))	0.07
Leak Check				
Main (< 0.15 l/min)	NA		Actual leakage = Pump On - Pump Off	
Aux (< 0.15 l/min)	NA		NA	
			NA	
K_o Factor				
Measured	NA			
K _o Difference (± 2.5%)	NA			

Start Time: 9:40 **Finish Time:** 9:55

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

Comments: Audit of Flows only.

Auditor/s: Shea Beaton

Nitrogen Dioxide

NOx - NO- NO₂ Calibration Report

Station Information

Calibration Date	February 3, 2010		Previous Calibration	January 8, 2010	
Company	Lakeland Ind & Comm. Assoc.		Plant/Location	Portable/ 13-16-62-5W4M	
Start Time (MST)	9:15		End Time (MST)	16:08	
Reason:	Monthly Calibration				
Barometric Pressure	711 mmHg		Station Temperature	23 Deg C	
Cal Gas Concentration	NOx 51.8 ppm	NO 51.6 ppm	Cal Gas Expiry date	12/19/2010	
DAS Output Voltage	0 - 1 Volts		Chart Rec. Output	0 - 1 Volts	

Equipment Information

Analyzer Make / Model:	API 200E	S/N :	593	Method:	Chemiluminescent
Calibrator Make / Model:	Enviroincs 2000	S/N:	1991		
DAS Make / Model:	ESC 8832	S/N :	AO717		
Flow Meter:	Enviroincs 2000	S/N :	1991		

Analyzer Settings

Before Calibration		After Calibration	
Concentration Range	0 - 1000		ppb
Sample Flow/Conv. Temp	468 ccm	314 Deg C	467 ccm 314.6 Deg C
Ozone Flow / Vacuum	79 ccm	4.1 mmHg	78 ccm 4.1 mmHg
HVPS	686 Volts		686 Volts
Rx/ Temp / PMT Temp	50.0 Deg C	6.8 Deg C	50.0 Deg C 6.7 Deg C
Box Temp / IZS Temp	31.7 Deg C	45.0 Deg C	31.7 Deg C 45.3 Deg C
Offset	0.7 NOx	0.2 NO	0.7 NOx 0.2 NO
Slope	1.091 NOx	1.083 NO	1.140 NOx 1.13 NO

Gas Phase Titration Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration		Indicated Concentration			Correction Factor	
			NOx	NO	NOx	NO	NO ₂	NOx	NO
300.0	0.0	N/A	0	0	0	0	0	N/A	N/A
2960	43.7	N/A	754	751	719	719	0	1.0482	1.0441
2960	43.7	N/A	754	751	755	752	3	0.9982	0.9983
2992	23.4	N/A	402	400	400	399	1	1.0049	1.0036
3006	11.7	N/A	201	200	200	199	1	1.0042	1.0053
3011	0.0	N/A	0	0	1	1	0	N/A	N/A
Converter Efficiency									
2968	43.8	N/A	753	750	758	753	5	N/A	
2968	43.8	400	753	750	754	390	364	99%	
2968	43.8	200	753	750	756	569	187	99%	
2968	43.8	100	753	750	758	669	90	101%	
2968	43.8	N/A	753	750	759	755	4	N/A	
3004	0	N/A	0	0	1	1	0	N/A	N/A

Linearity OK?	Yes	No	Sum of Least Squares	0.9999	0.9998
Flows Checked on-site?	Yes	No	New Correction Factor	0.9982	0.9983
			Average Converter Efficiency	100%	

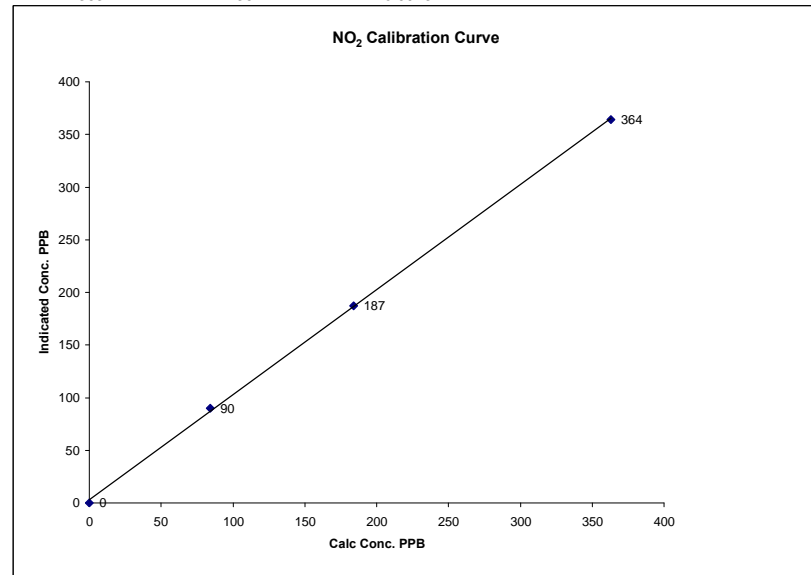
Before Calibration		After Calibration	
Auto Zero	0.3 NOx	0.7 NO ₂	0.2 NOx
Auto Span	807 NOx	789 NO ₂	836 NOx
Sample Lines Connected	YES		
Percent Change from Previous Calibration	NOx -4.5%	NO -4.2%	

Calibration Performed by: Shea Beaton

NO₂ Calibration Curve

Calibration Date	February 3, 2010	
Company	Lakeland Ind & Comm. Assoc.	
Plant / Location	Portable/ 13-16-62-5W4M	
Start Time (MST)	9:15	End Time (MST) 16:08

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient (≥ 0.995)	
0	0	N/A	Slope (0.85 to 1.15)	0.997833
84	90	0.9333	Intercept (± 3% F.S.)	2.84185
184	187	0.9840		
363	364	0.9973		

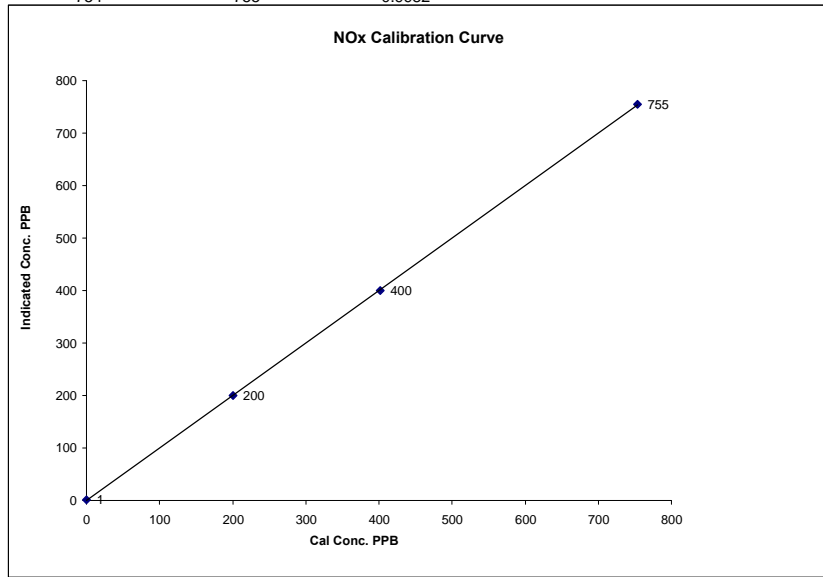


Notes: _____

NOx Calibration Curve

Calibration Date February 3, 2010
 Company Lakeland Ind & Comm. Assoc.
 Plant / Location Portable/ 13-16-62-5W4M
 Start Time (MST) 9:15 End Time (MST) 16:08

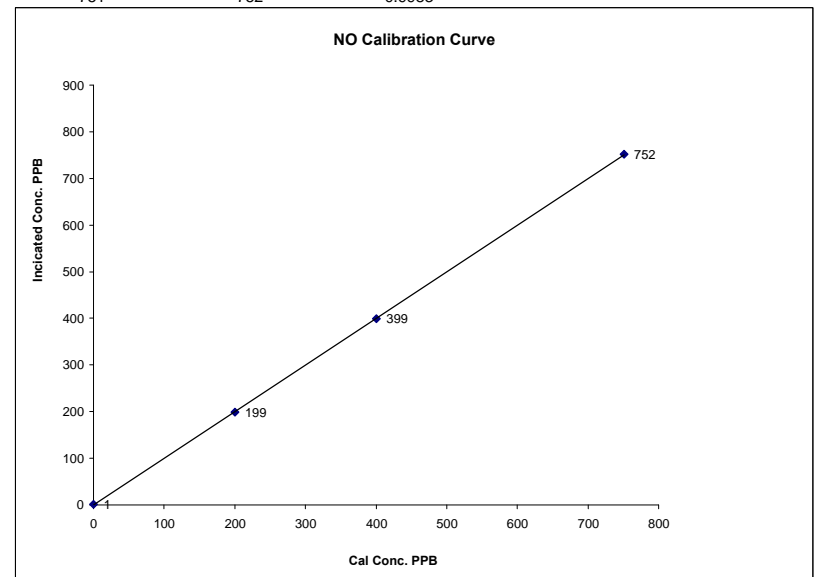
Calculated Conc.	Indicated Response	Correction Factor	Correlation Coefficient	(≥ 0.995)	0.999977
ppb	ppb		Slope	(0.85 to 1.15)	1.000718
0	1	N/A	Intercept	(± 3% F.S.)	-0.35238
201	200	1.0042			
402	400	1.0049			
754	755	0.9982			



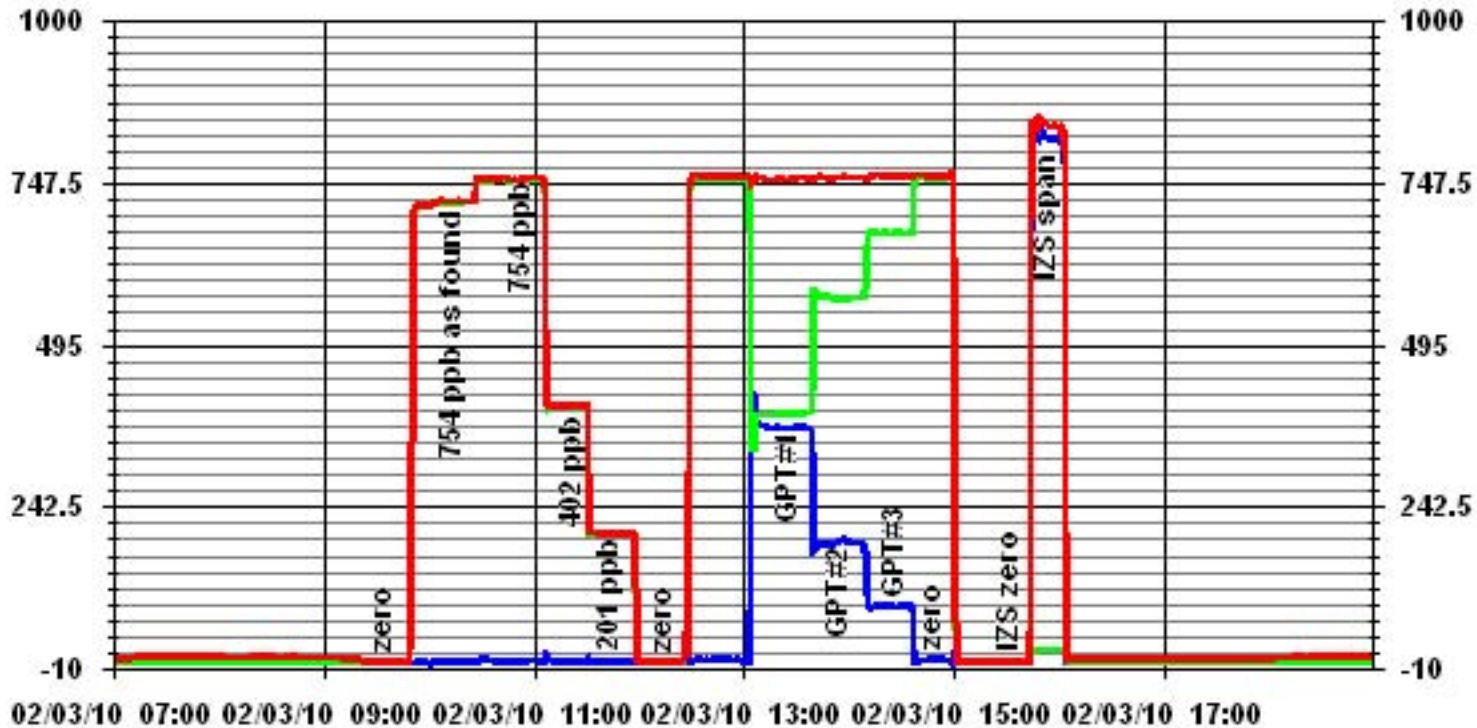
NO Calibration Curve

Calibration Date February 3, 2010
 Company Lakeland Ind & Comm. Assoc.
 Plant / Location Portable/ 13-16-62-5W4M
 Start Time (MST) 9:15 End Time (MST) 16:08

Calculated Conc.	Indicated Response	Correction Factor	Correlation Coefficient	(≥ 0.995)	0.999982
ppb	ppb		Slope	(0.85 to 1.15)	1.004651
0	1	N/A	Intercept	(± 3% F.S.)	-4.5228
200	199	1.0053			
400	399	1.0036			
751	752	0.9983			



01 Minute Averages



Ozone

O₃ Calibration Report

Station Information

Calibration Date	February 3, 2010	Previous Calibration	January 5, 2010
Company	Lakeland Industry & Community Association		
Plant / Location	Portable / Devon Wellsite 13-16-62-5 W4M		
Start Time (MST)	15:30	End Time (MST)	19:16
Reason:	Monthly Calibration		
Barometric Pressure	711 mm Hg	Station Temperature	24 Deg C
DAS Output Voltage	0 - 10 Volts		

Equipment Information

Analyzer Make / Model:	API 700	S/N :	446	Method:	Photometric
Calibrator Make / Model:	Enviroincs 2000	S/N :	1991	Method:	GPT
DAS Make / Model:	ESC 8832	S/N :	263		

Analyzer Settings

		Before Calibration				After Calibration			
Concentration Range		0 - 500				ppb			
Sample Flow / Box Temp	817 ccm	26.6 Deg C		815	26.8	Deg C			
VAC / PRES	11 IN-HG-A	26.3 IN-HG-A		10.9 IN-HG-A	26.5 IN-HG-A				
Sample Temp/ Photo Temp	34.6 Deg C	52 Deg C		34.5 Deg C	52 Deg C				
O3 Gen Temp/Orific Temp	48.2 Deg C	48.5 Deg C		47.9 Deg C	48.1 Deg C				
Offset/Slop	-3.7	0.955		-3.6	0.932				

Calibration Data

Dilution Flow Rate	Ozone Set Point	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
3004	0	0	0	N/A
3004	400	365	372	0.9812
3004	400	365	365	1.0000
3004	200	186	184	1.0109
3004	100	86	84	1.0238
3004	0	0	0	N/A
Sum of Least Squares				N/A
New Correction Factor				1.0000

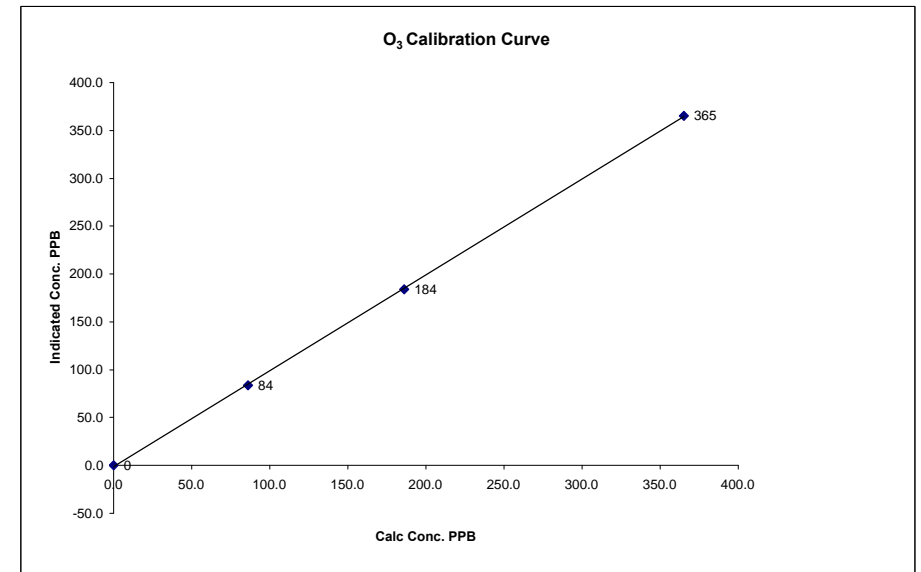
	Before Calibration	After Calibration
Auto Zero	0.2	0.2
Auto Span	226	218
Sample Lines Connected		YES
Percent Change from Previous Calibration		2.2%

Calibration Performed by: Shea Beaton

O₃ Calibration Curve

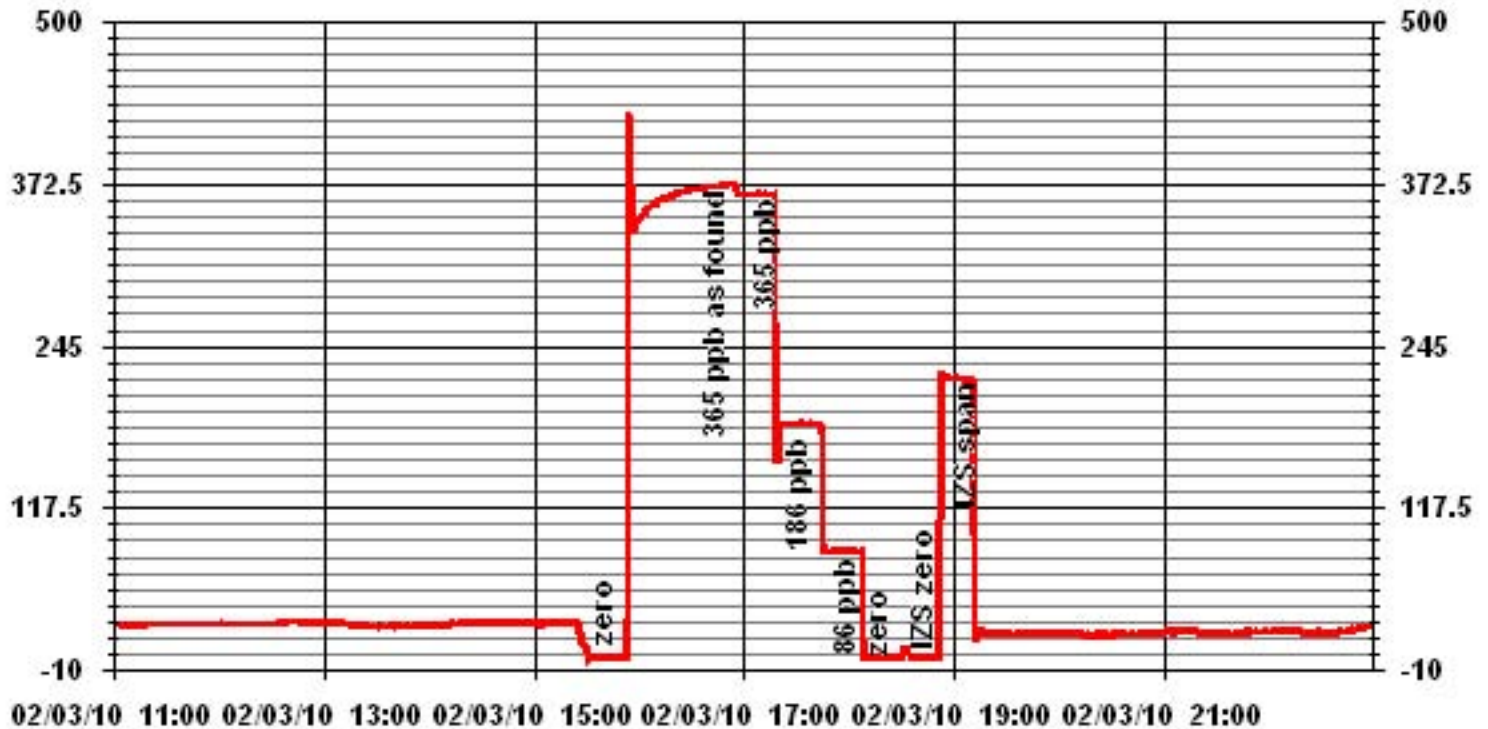
Calibration Date	February 3, 2010
Company	Lakeland Industry & Community Association
Plant / Location	Portable / Devon Wellsite 13-16-62-5 W4M
Start Time (MST)	15:30
End Time (MST)	19:16

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope	(≥ 0.995) (0.85 to 1.15)	0.999948
0	0	n/a	Intercept	(± 3% F.S.)	-1.200750
86	84	1.0238			
186	184	1.0109			
365	365	1.0000			



Notes:

01 Minute Averages



Total Hydrocarbons

THC Calibration Report

Station Information

Calibration Date:	February 3, 2010	Previous Calibration	January 5, 2009
Company:	Lakeland Industry and Community Association		
Plant / Location:	LICA1/Cold Lake		
Start Time (MST)	15:30	End Time (MST)	18:09
Reason:	Monthly Calibration		
Barometric Pressure:	711 mmHg	Station Temperature:	23 Deg C
Calibrator:	API 700	S/N:	831
Cal Gas Concentration:	207Prop/602Meth	ppm	Cal Gas Expiry Date: 9/21/2011
DAS make & Model:	ESC 8832	S/N :	263
Output Voltage Range:	0 - 10 VDC		

Analyzer Information

Make / Model	TECO 51C	S/N :	04366-09739	Method	Flame Ionization
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Analyzer Settings

	Before Calibration	After Calibration
Concentration Range	0 - 50 ppm	0 - 50 ppm
Sample Pressure	6.8 psi	6.8 psi
Hydrogen Pressure	7.5 psi	7.5 psi
Air Pressure	21 psi	21 psi

Calibration Data

Dilution Flow	Source Gas Flow	Calculated Concentration	Indicated Concentration	Correction Factor
2001	0.0	0.0	0.0	N/A
2001	70.0	39.6	39.8	0.9947
2001	35.0	20.1	19.8	1.0169
2001	20.0	11.6	11.3	1.0257
2001	0	0.0	0.0	N/A
Correction Factor:				0.9947

Percent Change

Previous Calibration Correction Factor:	0.9889
Current Correction Factor Before Span Adjust:	0.9947
Percent Change:	-0.6%

IZS Calibration Data

	Before Calibration	After Calibration
Auto Zero	0.0	0.0
Auto Span	32.8	32.7
Sample Lines Connected		YES

Cylinder Pressures

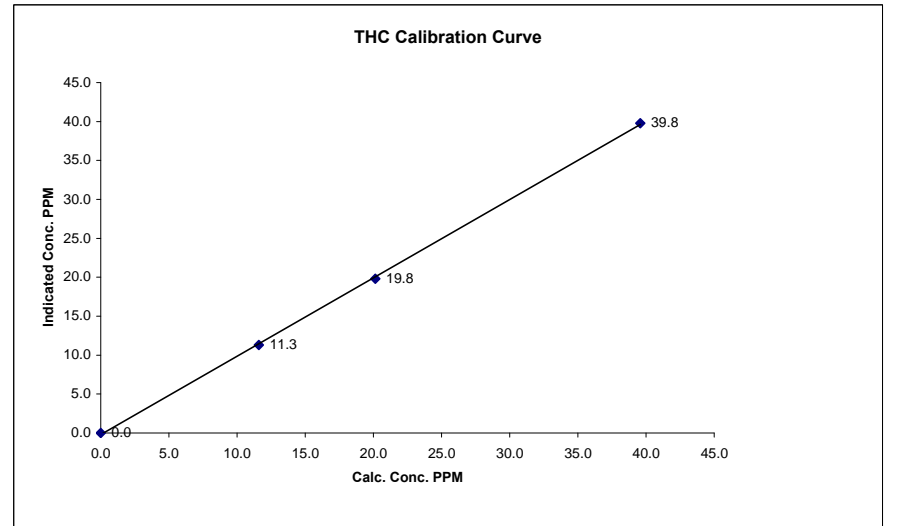
Span	1300 psi
Hydrogen	550 psi
Zero Air	unlimited psi Using API 700

Calibration Performed by: Shea Beaton

THC Calibration Curve

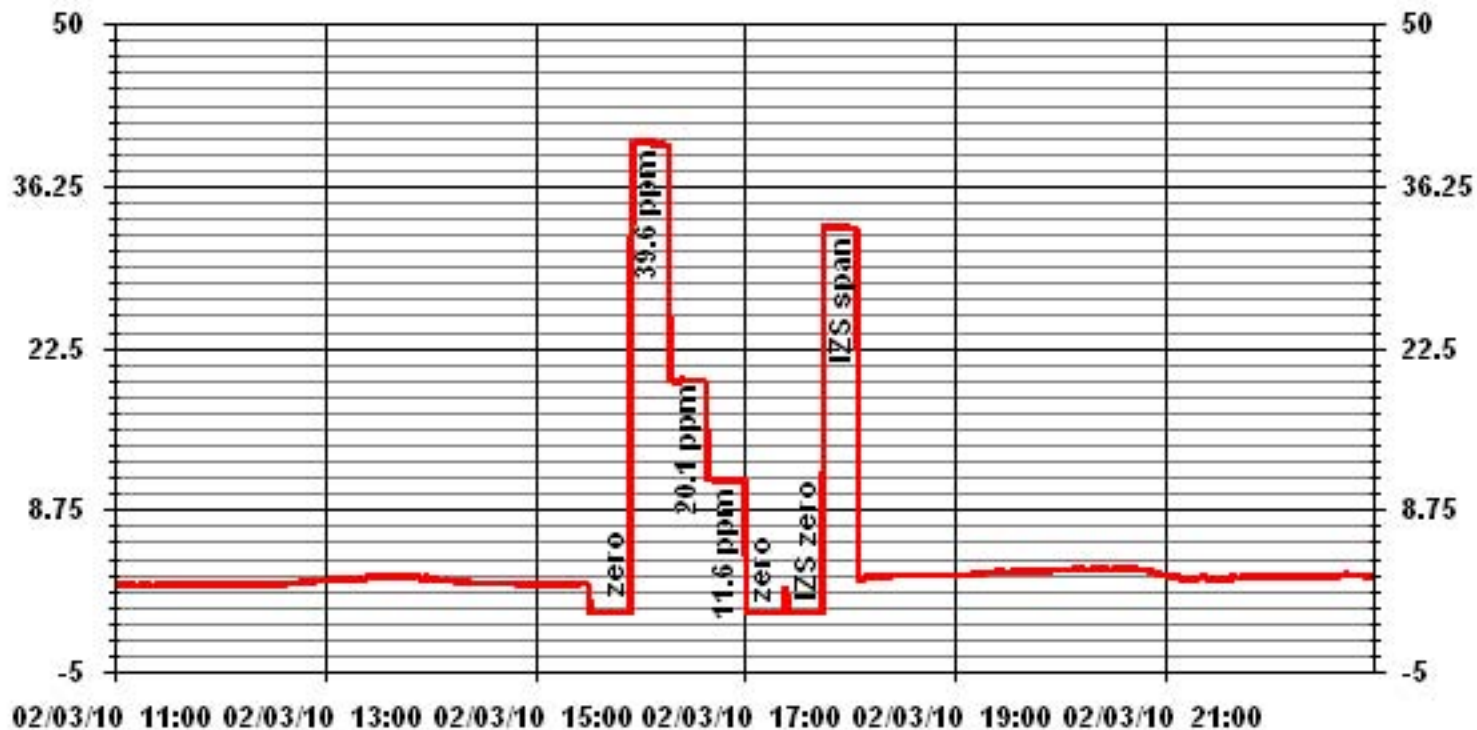
Calibration Date	February 3, 2010		
Company	Lakeland Industry and Community Association		
Plant / Location	LICA1/Cold Lake		
Start Time (MST)	15:30	End Time (MST)	18:09

Calculated Conc. ppm	Indicated Response ppm	Correction Factor	Correlation Coefficient Slope	(≥ 0.995)	0.999811
0.0	0.0		Intercept	(0.85 to 1.15)	1.006759
11.6	11.3	1.0257		(± 3% F.S.)	-0.223910
20.1	19.8	1.0169			
39.6	39.8	0.9947			



Notes:

01 Minute Averages



— LICA33 THC PPM

Volatile Organics Laboratory Analysis

Maxxam Analytics Inc.

Xontech Model 910A VOC Sample Collection Data Sheet

Client: LICA Sampler s/n: 6200
 Location: 13-16-62-5 W4M Canister ID: 7851 (Maxxam Supplied)
 Station ID: Lica 33 (Portable) Canister Installation Date/Time: Jan 29, 10 @ 08:30 mst
 Field Sample ID: LICA VOC/PORT/ Feb 1, 10 Canister Removal Date/Time: Feb 2, 10 @ 09:30 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
01-Feb-10	02/01/2010 0:00	02/02/2010 0:00	24.00

Flow Settings		
Meter Reading (sccm)	Pot Set Pt.	Pump Pressure Setting (psig)
10.0	1481	25

Canister Information	
Initial Canister Vacuum (inHg)	Final Canister Pressure (psig)
-28	21

Canister valve open prior to sampling?: YES / NO
Timer set to 0.00 minutes prior to sampling? YES / NO
Canister valve closed prior to disconnection?: YES / NO

Comments: System leak check prior to sampling. COC# 1651

Technician Signature: Shea Beaton



Your C.O.C. #: n/a

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/02/09

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B013648

Received: 2010/02/04, 12:07

Sample Matrix: AIR
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Canister Pressure (TO-15)	2	N/A	2010/02/05	BRL SOP-00304	EPA TO-15
Volatile Organics in Air (TO-15) ¶	2	N/A	2010/02/05	BRL SOP-00304	EPA TO-15

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO14A. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO14A on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Maxxam for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

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

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Total cover pages: 1

Maxxam Job #: B013648
 Report Date: 2010/02/09

RESULTS OF ANALYSES OF AIR

Maxxam ID		FA0312	FA0313		
Sampling Date		2010/02/01	2010/02/01		
COC Number		n/a	n/a		
	Units	LICA VOC/PORT/FEB1,10 - 7851	LICA VOC/CLS/FEB1,10 - 7867	DL	QC Batch

Volatile Organics					
Pressure on Receipt	psig	20	19	N/A	2073960

N/A = Not Applicable
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B013648
 Report Date: 2010/02/09

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FA0312				
Sampling Date		2010/02/01				
COC Number		n/a				
	Units	LICA VOC/PORT/FEB1,10 - 7851	DL	ug/m3	DL (ug/m3)	QC Batch

Volatile Organics						
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.934	0.934	2073961
Carbon Disulfide	ppbv	<0.50	0.50	<1.56	1.56	2073961
Propene	ppbv	<0.30	0.30	<0.516	0.516	2073961
Vinyl Acetate	ppbv	<0.20	0.20	<0.704	0.704	2073961
Vinyl Bromide	ppbv	<0.20	0.20	<0.875	0.875	2073961
Dichlorodifluoromethane (FREON 12)	ppbv	0.77	0.20	3.83	0.989	2073961
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<1.19	1.19	2073961
Chloromethane	ppbv	0.66	0.30	1.36	0.620	2073961
Vinyl Chloride	ppbv	<0.18	0.18	<0.460	0.460	2073961
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	2073961
1,3-Butadiene	ppbv	<0.50	0.50	<1.11	1.11	2073961
Trichlorofluoromethane (FREON 11)	ppbv	0.36	0.20	2.00	1.12	2073961
Trichlorotrifluoroethane	ppbv	<0.15	0.15	<1.15	1.15	2073961
Ethanol	ppbv	<2.3	2.3	<4.33	4.33	2073961
2-propanol	ppbv	<3.0	3.0	<7.37	7.37	2073961
2-Propanone	ppbv	2.10	0.80	4.98	1.90	2073961
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	3.0	<8.85	8.85	2073961
Methyl Isobutyl Ketone	ppbv	<3.2	3.2	<13.1	13.1	2073961
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	2.0	<8.19	8.19	2073961
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.721	0.721	2073961
Ethyl Acetate	ppbv	<2.2	2.2	<7.93	7.93	2073961
1,1-Dichloroethylene	ppbv	<0.25	0.25	<0.991	0.991	2073961
cis-1,2-Dichloroethylene	ppbv	<0.19	0.19	<0.753	0.753	2073961
trans-1,2-Dichloroethylene	ppbv	<0.20	0.20	<0.793	0.793	2073961
Methylene Chloride(Dichloromethane)	ppbv	0.54	0.30	1.86	1.04	2073961
Chloroform	ppbv	<0.15	0.15	<0.732	0.732	2073961
Carbon Tetrachloride	ppbv	<0.30	0.30	<1.89	1.89	2073961
1,1-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2073961
1,2-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2073961
Ethylene Dibromide	ppbv	<0.17	0.17	<1.31	1.31	2073961

N/A = Not Applicable
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B013648
 Report Date: 2010/02/09

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FA0312				
Sampling Date		2010/02/01				
COC Number		n/a				
	Units	LICA VOC/PORT/FEB1,10 - 7851	DL	ug/m3	DL (ug/m3)	QC Batch
1,1,1-Trichloroethane	ppbv	<0.30	0.30	<1.64	1.64	2073961
1,1,2-Trichloroethane	ppbv	<0.15	0.15	<0.818	0.818	2073961
1,1,2,2-Tetrachloroethane	ppbv	<0.20	0.20	<1.37	1.37	2073961
cis-1,3-Dichloropropene	ppbv	<0.18	0.18	<0.817	0.817	2073961
trans-1,3-Dichloropropene	ppbv	<0.17	0.17	<0.772	0.772	2073961
1,2-Dichloropropane	ppbv	<0.40	0.40	<1.85	1.85	2073961
Bromomethane	ppbv	<0.18	0.18	<0.699	0.699	2073961
Bromoform	ppbv	<0.20	0.20	<2.07	2.07	2073961
Bromodichloromethane	ppbv	<0.20	0.20	<1.34	1.34	2073961
Dibromochloromethane	ppbv	<0.20	0.20	<1.70	1.70	2073961
Heptane	ppbv	<0.30	0.30	<1.23	1.23	2073961
Trichloroethylene	ppbv	<0.30	0.30	<1.61	1.61	2073961
Tetrachloroethylene	ppbv	<0.20	0.20	<1.36	1.36	2073961
Benzene	ppbv	0.19	0.18	0.623	0.575	2073961
Toluene	ppbv	<0.20	0.20	<0.753	0.753	2073961
Ethylbenzene	ppbv	<0.20	0.20	<0.868	0.868	2073961
p+m-Xylene	ppbv	<0.37	0.37	<1.61	1.61	2073961
o-Xylene	ppbv	<0.20	0.20	<0.868	0.868	2073961
Styrene	ppbv	<0.20	0.20	<0.852	0.852	2073961
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2073961
1,2,4-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2073961
4-ethyltoluene	ppbv	<2.2	2.2	<10.8	10.8	2073961
Chlorobenzene	ppbv	<0.20	0.20	<0.921	0.921	2073961
Benzyl chloride	ppbv	<1.0	1.0	<5.18	5.18	2073961
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2073961
1,4-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2073961
1,2-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2073961
1,2,4-Trichlorobenzene	ppbv	<2.0	2.0	<14.8	14.8	2073961
Hexachlorobutadiene	ppbv	<3.0	3.0	<32.0	32.0	2073961
Hexane	ppbv	<0.30	0.30	<1.06	1.06	2073961
Cyclohexane	ppbv	<0.20	0.20	<0.688	0.688	2073961
Tetrahydrofuran	ppbv	<0.40	0.40	<1.18	1.18	2073961
N/A = Not Applicable QC Batch = Quality Control Batch						

Maxxam Job #: B013648
 Report Date: 2010/02/09

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FA0312				
Sampling Date		2010/02/01				
COC Number		n/a				
	Units	LICA	DL	ug/m3	DL (ug/m3)	QC Batch
		VOC/PORT/FEB1,10				
		- 7851				
1,4-Dioxane	ppbv	<2.0	2.0	<7.21	7.21	2073961
Xylene (Total)	ppbv	<0.60	0.60	<2.61	2.61	2073961
Surrogate Recovery (%)						
Bromochloromethane	%	82		N/A	N/A	2073961
D5-Chlorobenzene	%	82		N/A	N/A	2073961
Difluorobenzene	%	84		N/A	N/A	2073961
N/A = Not Applicable QC Batch = Quality Control Batch						

Maxxam Job #: B013648
 Report Date: 2010/02/09

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FA0313				
Sampling Date		2010/02/01				
COC Number		n/a				
	Units	LICA VOC/CLS/FEB1,10 - 7867	DL	ug/m3	DL (ug/m3)	QC Batch

Volatile Organics						
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.934	0.934	2073961
Carbon Disulfide	ppbv	<0.50	0.50	<1.56	1.56	2073961
Propene	ppbv	<0.30	0.30	<0.516	0.516	2073961
Vinyl Acetate	ppbv	<0.20	0.20	<0.704	0.704	2073961
Vinyl Bromide	ppbv	<0.20	0.20	<0.875	0.875	2073961
Dichlorodifluoromethane (FREON 12)	ppbv	0.75	0.20	3.71	0.989	2073961
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<1.19	1.19	2073961
Chloromethane	ppbv	0.64	0.30	1.32	0.620	2073961
Vinyl Chloride	ppbv	<0.18	0.18	<0.460	0.460	2073961
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	2073961
1,3-Butadiene	ppbv	<0.50	0.50	<1.11	1.11	2073961
Trichlorofluoromethane (FREON 11)	ppbv	0.35	0.20	1.95	1.12	2073961
Trichlorotrifluoroethane	ppbv	<0.15	0.15	<1.15	1.15	2073961
Ethanol	ppbv	<2.3	2.3	<4.33	4.33	2073961
2-propanol	ppbv	<3.0	3.0	<7.37	7.37	2073961
2-Propanone	ppbv	1.53	0.80	3.63	1.90	2073961
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	3.0	<8.85	8.85	2073961
Methyl Isobutyl Ketone	ppbv	<3.2	3.2	<13.1	13.1	2073961
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	2.0	<8.19	8.19	2073961
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.721	0.721	2073961
Ethyl Acetate	ppbv	<2.2	2.2	<7.93	7.93	2073961
1,1-Dichloroethylene	ppbv	<0.25	0.25	<0.991	0.991	2073961
cis-1,2-Dichloroethylene	ppbv	<0.19	0.19	<0.753	0.753	2073961
trans-1,2-Dichloroethylene	ppbv	<0.20	0.20	<0.793	0.793	2073961
Methylene Chloride(Dichloromethane)	ppbv	0.54	0.30	1.87	1.04	2073961
Chloroform	ppbv	<0.15	0.15	<0.732	0.732	2073961
Carbon Tetrachloride	ppbv	<0.30	0.30	<1.89	1.89	2073961
1,1-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2073961
1,2-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2073961
Ethylene Dibromide	ppbv	<0.17	0.17	<1.31	1.31	2073961

N/A = Not Applicable
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B013648
 Report Date: 2010/02/09

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FA0313				
Sampling Date		2010/02/01				
COC Number		n/a				
	Units	LICA VOC/CLS/FEB1,10 - 7867	DL	ug/m3	DL (ug/m3)	QC Batch
1,1,1-Trichloroethane	ppbv	<0.30	0.30	<1.64	1.64	2073961
1,1,2-Trichloroethane	ppbv	<0.15	0.15	<0.818	0.818	2073961
1,1,2,2-Tetrachloroethane	ppbv	<0.20	0.20	<1.37	1.37	2073961
cis-1,3-Dichloropropene	ppbv	<0.18	0.18	<0.817	0.817	2073961
trans-1,3-Dichloropropene	ppbv	<0.17	0.17	<0.772	0.772	2073961
1,2-Dichloropropane	ppbv	<0.40	0.40	<1.85	1.85	2073961
Bromomethane	ppbv	<0.18	0.18	<0.699	0.699	2073961
Bromoform	ppbv	<0.20	0.20	<2.07	2.07	2073961
Bromodichloromethane	ppbv	<0.20	0.20	<1.34	1.34	2073961
Dibromochloromethane	ppbv	<0.20	0.20	<1.70	1.70	2073961
Heptane	ppbv	<0.30	0.30	<1.23	1.23	2073961
Trichloroethylene	ppbv	<0.30	0.30	<1.61	1.61	2073961
Tetrachloroethylene	ppbv	<0.20	0.20	<1.36	1.36	2073961
Benzene	ppbv	0.27	0.18	0.856	0.575	2073961
Toluene	ppbv	0.22	0.20	0.830	0.753	2073961
Ethylbenzene	ppbv	<0.20	0.20	<0.868	0.868	2073961
p+m-Xylene	ppbv	<0.37	0.37	<1.61	1.61	2073961
o-Xylene	ppbv	<0.20	0.20	<0.868	0.868	2073961
Styrene	ppbv	<0.20	0.20	<0.852	0.852	2073961
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2073961
1,2,4-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2073961
4-ethyltoluene	ppbv	<2.2	2.2	<10.8	10.8	2073961
Chlorobenzene	ppbv	<0.20	0.20	<0.921	0.921	2073961
Benzyl chloride	ppbv	<1.0	1.0	<5.18	5.18	2073961
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2073961
1,4-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2073961
1,2-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2073961
1,2,4-Trichlorobenzene	ppbv	<2.0	2.0	<14.8	14.8	2073961
Hexachlorobutadiene	ppbv	<3.0	3.0	<32.0	32.0	2073961
Hexane	ppbv	<0.30	0.30	<1.06	1.06	2073961
Cyclohexane	ppbv	<0.20	0.20	<0.688	0.688	2073961
Tetrahydrofuran	ppbv	<0.40	0.40	<1.18	1.18	2073961
N/A = Not Applicable QC Batch = Quality Control Batch						

Maxxam Job #: B013648
 Report Date: 2010/02/09

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FA0313				
Sampling Date		2010/02/01				
COC Number		n/a				
	Units	LICA VOC/CLS/FEB1,10 - 7867	DL	ug/m3	DL (ug/m3)	QC Batch
1,4-Dioxane	ppbv	<2.0	2.0	<7.21	7.21	2073961
Xylene (Total)	ppbv	<0.60	0.60	<2.61	2.61	2073961
Surrogate Recovery (%)						
Bromochloromethane	%	87		N/A	N/A	2073961
D5-Chlorobenzene	%	86		N/A	N/A	2073961
Difluorobenzene	%	89		N/A	N/A	2073961
N/A = Not Applicable QC Batch = Quality Control Batch						

Maxxam Job #: B013648
 Report Date: 2010/02/09

Test Summary

Maxxam ID FA0312 **Collected** 2010/02/01
Sample ID LICA VOC/PORT/FEB1,10 - 7851 **Shipped**
Matrix AIR **Received** 2010/02/04

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2073960	N/A	2010/02/05	LSY
Volatile Organics in Air (TO-15)	GC/MS	2073961	N/A	2010/02/05	LSY

Maxxam ID FA0313 **Collected** 2010/02/01
Sample ID LICA VOC/CLS/FEB1,10 - 7867 **Shipped**
Matrix AIR **Received** 2010/02/04

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2073960	N/A	2010/02/05	LSY
Volatile Organics in Air (TO-15)	GC/MS	2073961	N/A	2010/02/05	LSY

Maxxam Job #: B013648
Report Date: 2010/02/09

GENERAL COMMENTS

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: GB013648

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2073961 LSY	Spiked Blank	Bromochloromethane	2010/02/05		105	%	60 - 140
		D5-Chlorobenzene	2010/02/05		107	%	60 - 140
		Difluorobenzene	2010/02/05		107	%	60 - 140
		2,2,4-Trimethylpentane	2010/02/05		105	%	70 - 130
		Carbon Disulfide	2010/02/05		98	%	70 - 130
		Propene	2010/02/05		105	%	70 - 130
		Vinyl Acetate	2010/02/05		116	%	70 - 130
		Vinyl Bromide	2010/02/05		98	%	70 - 130
		Dichlorodifluoromethane (FREON 12)	2010/02/05		98	%	70 - 130
		1,2-Dichlorotetrafluoroethane	2010/02/05		84	%	70 - 130
		Chloromethane	2010/02/05		95	%	70 - 130
		Vinyl Chloride	2010/02/05		99	%	70 - 130
		Chloroethane	2010/02/05		99	%	70 - 130
		1,3-Butadiene	2010/02/05		90	%	70 - 130
		Trichlorofluoromethane (FREON 11)	2010/02/05		99	%	70 - 130
		Trichlorotrifluoroethane	2010/02/05		95	%	70 - 130
		Ethanol	2010/02/05		80	%	70 - 130
		2-propanol	2010/02/05		100	%	70 - 130
		2-Propanone	2010/02/05		90	%	70 - 130
		Methyl Ethyl Ketone (2-Butanone)	2010/02/05		108	%	70 - 130
		Methyl Isobutyl Ketone	2010/02/05		104	%	70 - 130
		Methyl Butyl Ketone (2-Hexanone)	2010/02/05		106	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/02/05		109	%	70 - 130
		Ethyl Acetate	2010/02/05		105	%	70 - 130
		1,1-Dichloroethylene	2010/02/05		103	%	70 - 130
		cis-1,2-Dichloroethylene	2010/02/05		102	%	70 - 130
		trans-1,2-Dichloroethylene	2010/02/05		105	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/02/05		91	%	70 - 130
		Chloroform	2010/02/05		99	%	70 - 130
		Carbon Tetrachloride	2010/02/05		101	%	70 - 130
		1,1-Dichloroethane	2010/02/05		100	%	70 - 130
		1,2-Dichloroethane	2010/02/05		101	%	70 - 130
		Ethylene Dibromide	2010/02/05		93	%	70 - 130
		1,1,1-Trichloroethane	2010/02/05		100	%	70 - 130
		1,1,2-Trichloroethane	2010/02/05		95	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/02/05		92	%	70 - 130
		cis-1,3-Dichloropropene	2010/02/05		106	%	70 - 130
		trans-1,3-Dichloropropene	2010/02/05		108	%	70 - 130
		1,2-Dichloropropane	2010/02/05		97	%	70 - 130
		Bromomethane	2010/02/05		91	%	70 - 130
		Bromoform	2010/02/05		101	%	70 - 130
		Bromodichloromethane	2010/02/05		104	%	70 - 130
		Dibromochloromethane	2010/02/05		100	%	70 - 130
		Heptane	2010/02/05		106	%	70 - 130
		Trichloroethylene	2010/02/05		91	%	70 - 130
		Tetrachloroethylene	2010/02/05		91	%	70 - 130
		Benzene	2010/02/05		96	%	70 - 130
		Toluene	2010/02/05		98	%	70 - 130
		Ethylbenzene	2010/02/05		98	%	70 - 130
		p+m-Xylene	2010/02/05		98	%	70 - 130
		o-Xylene	2010/02/05		99	%	70 - 130
		Styrene	2010/02/05		86	%	70 - 130
		1,3,5-Trimethylbenzene	2010/02/05		90	%	70 - 130
		1,2,4-Trimethylbenzene	2010/02/05		91	%	70 - 130
		4-ethyltoluene	2010/02/05		97	%	70 - 130

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB013648

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2073961 LSY	Spiked Blank	Chlorobenzene	2010/02/05		91	%	70 - 130
		Benzyl chloride	2010/02/05		107	%	70 - 130
		1,3-Dichlorobenzene	2010/02/05		90	%	70 - 130
		1,4-Dichlorobenzene	2010/02/05		89	%	70 - 130
		1,2-Dichlorobenzene	2010/02/05		86	%	70 - 130
		1,2,4-Trichlorobenzene	2010/02/05		124	%	70 - 130
		Hexachlorobutadiene	2010/02/05		104	%	70 - 130
		Hexane	2010/02/05		100	%	70 - 130
		Cyclohexane	2010/02/05		105	%	70 - 130
		Tetrahydrofuran	2010/02/05		109	%	70 - 130
		1,4-Dioxane	2010/02/05		92	%	70 - 130
	Method Blank	Bromochloromethane	2010/02/05		86	%	60 - 140
		D5-Chlorobenzene	2010/02/05		83	%	60 - 140
		Difluorobenzene	2010/02/05		87	%	60 - 140
		2,2,4-Trimethylpentane	2010/02/05	ND, RDL=0.20		ppbv	
		Carbon Disulfide	2010/02/05	ND, RDL=0.50		ppbv	
		Propene	2010/02/05	ND, RDL=0.30		ppbv	
		Vinyl Acetate	2010/02/05	ND, RDL=0.20		ppbv	
		Vinyl Bromide	2010/02/05	ND, RDL=0.20		ppbv	
		Dichlorodifluoromethane (FREON 12)	2010/02/05	ND, RDL=0.20		ppbv	
		1,2-Dichlorotetrafluoroethane	2010/02/05	ND, RDL=0.17		ppbv	
		Chloromethane	2010/02/05	ND, RDL=0.30		ppbv	
		Vinyl Chloride	2010/02/05	ND, RDL=0.18		ppbv	
		Chloroethane	2010/02/05	ND, RDL=0.30		ppbv	
		1,3-Butadiene	2010/02/05	ND, RDL=0.50		ppbv	
		Trichlorofluoromethane (FREON 11)	2010/02/05	ND, RDL=0.20		ppbv	
		Trichlorotrifluoroethane	2010/02/05	ND, RDL=0.15		ppbv	
		Ethanol	2010/02/05	ND, RDL=2.3		ppbv	
		2-propanol	2010/02/05	ND, RDL=3.0		ppbv	
		2-Propanone	2010/02/05	ND, RDL=0.80		ppbv	
		Methyl Ethyl Ketone (2-Butanone)	2010/02/05	ND, RDL=3.0		ppbv	
		Methyl Isobutyl Ketone	2010/02/05	ND, RDL=3.2		ppbv	
		Methyl Butyl Ketone (2-Hexanone)	2010/02/05	ND, RDL=2.0		ppbv	
		Methyl t-butyl ether (MTBE)	2010/02/05	ND, RDL=0.20		ppbv	
		Ethyl Acetate	2010/02/05	ND, RDL=2.2		ppbv	
		1,1-Dichloroethylene	2010/02/05	ND, RDL=0.25		ppbv	
		cis-1,2-Dichloroethylene	2010/02/05	ND, RDL=0.19		ppbv	
		trans-1,2-Dichloroethylene	2010/02/05	ND, RDL=0.20		ppbv	
		Methylene Chloride(Dichloromethane)	2010/02/05	0.43, RDL=0.30		ppbv	
		Chloroform	2010/02/05	ND, RDL=0.15		ppbv	
		Carbon Tetrachloride	2010/02/05	ND, RDL=0.30		ppbv	
		1,1-Dichloroethane	2010/02/05	ND, RDL=0.20		ppbv	
		1,2-Dichloroethane	2010/02/05	ND, RDL=0.20		ppbv	
		Ethylene Dibromide	2010/02/05	ND, RDL=0.17		ppbv	
		1,1,1-Trichloroethane	2010/02/05	ND, RDL=0.30		ppbv	
		1,1,2-Trichloroethane	2010/02/05	ND, RDL=0.15		ppbv	
		1,1,2,2-Tetrachloroethane	2010/02/05	ND, RDL=0.20		ppbv	
		cis-1,3-Dichloropropene	2010/02/05	ND, RDL=0.18		ppbv	
		trans-1,3-Dichloropropene	2010/02/05	ND, RDL=0.17		ppbv	
		1,2-Dichloropropane	2010/02/05	ND, RDL=0.40		ppbv	
		Bromomethane	2010/02/05	ND, RDL=0.18		ppbv	
		Bromoform	2010/02/05	ND, RDL=0.20		ppbv	
		Bromodichloromethane	2010/02/05	ND, RDL=0.20		ppbv	
		Dibromochloromethane	2010/02/05	ND, RDL=0.20		ppbv	
		Heptane	2010/02/05	ND, RDL=0.30		ppbv	

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB013648

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2073961 LSY	Method Blank	Trichloroethylene	2010/02/05	ND, RDL=0.30		ppbv	
		Tetrachloroethylene	2010/02/05	ND, RDL=0.20		ppbv	
		Benzene	2010/02/05	ND, RDL=0.18		ppbv	
		Toluene	2010/02/05	ND, RDL=0.20		ppbv	
		Ethylbenzene	2010/02/05	ND, RDL=0.20		ppbv	
		p+m-Xylene	2010/02/05	ND, RDL=0.37		ppbv	
		o-Xylene	2010/02/05	ND, RDL=0.20		ppbv	
		Styrene	2010/02/05	ND, RDL=0.20		ppbv	
		1,3,5-Trimethylbenzene	2010/02/05	ND, RDL=0.50		ppbv	
		1,2,4-Trimethylbenzene	2010/02/05	ND, RDL=0.50		ppbv	
		4-ethyltoluene	2010/02/05	ND, RDL=2.2		ppbv	
		Chlorobenzene	2010/02/05	ND, RDL=0.20		ppbv	
		Benzyl chloride	2010/02/05	ND, RDL=1.0		ppbv	
		1,3-Dichlorobenzene	2010/02/05	ND, RDL=0.40		ppbv	
		1,4-Dichlorobenzene	2010/02/05	ND, RDL=0.40		ppbv	
		1,2-Dichlorobenzene	2010/02/05	ND, RDL=0.40		ppbv	
		1,2,4-Trichlorobenzene	2010/02/05	ND, RDL=2.0		ppbv	
		Hexachlorobutadiene	2010/02/05	ND, RDL=3.0		ppbv	
		Hexane	2010/02/05	ND, RDL=0.30		ppbv	
		Cyclohexane	2010/02/05	ND, RDL=0.20		ppbv	
		Tetrahydrofuran	2010/02/05	ND, RDL=0.40		ppbv	
		1,4-Dioxane	2010/02/05	ND, RDL=2.0		ppbv	
		Xylene (Total)	2010/02/05	ND, RDL=0.60		ppbv	

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

Maxxam Analytics Inc.

Xontech Model 910A VOC Sample Collection Data Sheet

Client: LICA Sampler s/n: 6200
 Location: 13-16-62-5 W4M Canister ID: 7912 (Maxxam Supplied)
 Station ID: Lica 33 (Portable) Canister Installation Date/Time: Feb 5, 10 @ 12:50 mst
 Field Sample ID: LICA VOC/PORT/ Feb 7, 10 Canister Removal Date/Time: Feb 8, 10 @ 11:45 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
07-Feb-10	02/07/2010 0:00	02/08/2010 0:00	24.00

Flow Settings		
Meter Reading (sccm)	Pot Set Pt.	Pump Pressure Setting (psig)
10.0	1481	25

Canister Information	
Initial Canister Vacuum (inHg)	Final Canister Pressure (psig)
-28	21

Canister valve open prior to sampling?: YES / NO
 Timer set to 0.00 minutes prior to sampling? YES / NO
 Canister valve closed prior to disconnection?: YES / NO

Comments: System leak check prior to sampling. COC# 5351

Technician Signiture: Shea Beaton



Your C.O.C. #: 5351

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/01

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B017737

Received: 2010/02/13, 10:35

Sample Matrix: AIR
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Canister Pressure (TO-15)	2	N/A	2010/02/23	BRL SOP-00304	EPA TO-15
Volatile Organics in Air (TO-15) ¶	1	N/A	2010/02/23	BRL SOP-00304	EPA TO-15
Volatile Organics in Air (TO-15) ¶	1	N/A	2010/02/26	BRL SOP-00304	EPA TO-15

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO14A. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO14A on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Maxxam for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

=====
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Total cover pages: 1

Maxxam Job #: B017737
 Report Date: 2010/03/01

RESULTS OF ANALYSES OF AIR

Maxxam ID		FB9298		FB9299		
Sampling Date		2010/02/07 00:00		2010/02/07 00:00		
COC Number		5351		5351		
	Units	LICA VOC/CLS/FEB7,10 - 7869	QC Batch	LICA VOC/PORT/FEB7,10 - 7912	RDL	QC Batch

Volatile Organics						
Pressure on Receipt	psig	19	2085985	20	N/A	2084689

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B017737
 Report Date: 2010/03/01

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FB9298				
Sampling Date		2010/02/07 00:00				
COC Number		5351				
	Units	LICA VOC/CLS/FEB7,10 - 7869	RDL	ug/m3	DL (ug/m3)	QC Batch

Volatile Organics						
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.934	0.934	2085984
Carbon Disulfide	ppbv	<0.50	0.50	<1.56	1.56	2085984
Propene	ppbv	<0.30	0.30	<0.516	0.516	2085984
Vinyl Acetate	ppbv	<0.20	0.20	<0.704	0.704	2085984
Vinyl Bromide	ppbv	<0.20	0.20	<0.875	0.875	2085984
Dichlorodifluoromethane (FREON 12)	ppbv	0.80	0.20	3.94	0.989	2085984
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<1.19	1.19	2085984
Chloromethane	ppbv	0.67	0.30	1.38	0.620	2085984
Vinyl Chloride	ppbv	<0.18	0.18	<0.460	0.460	2085984
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	2085984
1,3-Butadiene	ppbv	<0.50	0.50	<1.11	1.11	2085984
Trichlorofluoromethane (FREON 11)	ppbv	0.35	0.20	1.94	1.12	2085984
Trichlorotrifluoroethane	ppbv	<0.15	0.15	<1.15	1.15	2085984
Ethanol	ppbv	<2.3	2.3	<4.33	4.33	2085984
2-propanol	ppbv	<3.0	3.0	<7.37	7.37	2085984
2-Propanone	ppbv	1.77	0.80	4.21	1.90	2085984
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	3.0	<8.85	8.85	2085984
Methyl Isobutyl Ketone	ppbv	<3.2	3.2	<13.1	13.1	2085984
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	2.0	<8.19	8.19	2085984
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.721	0.721	2085984
Ethyl Acetate	ppbv	<2.2	2.2	<7.93	7.93	2085984
1,1-Dichloroethylene	ppbv	<0.25	0.25	<0.991	0.991	2085984
cis-1,2-Dichloroethylene	ppbv	<0.19	0.19	<0.753	0.753	2085984
trans-1,2-Dichloroethylene	ppbv	<0.20	0.20	<0.793	0.793	2085984
Methylene Chloride(Dichloromethane)	ppbv	0.52	0.30	1.82	1.04	2085984
Chloroform	ppbv	<0.15	0.15	<0.732	0.732	2085984
Carbon Tetrachloride	ppbv	<0.30	0.30	<1.89	1.89	2085984
1,1-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2085984
1,2-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2085984
Ethylene Dibromide	ppbv	<0.17	0.17	<1.31	1.31	2085984
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: B017737
 Report Date: 2010/03/01

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FB9298				
Sampling Date		2010/02/07 00:00				
COC Number		5351				
	Units	LICA VOC/CLS/FEB7,10 - 7869	RDL	ug/m3	DL (ug/m3)	QC Batch

1,1,1-Trichloroethane	ppbv	<0.30	0.30	<1.64	1.64	2085984
1,1,2-Trichloroethane	ppbv	<0.15	0.15	<0.818	0.818	2085984
1,1,2,2-Tetrachloroethane	ppbv	<0.20	0.20	<1.37	1.37	2085984
cis-1,3-Dichloropropene	ppbv	<0.18	0.18	<0.817	0.817	2085984
trans-1,3-Dichloropropene	ppbv	<0.17	0.17	<0.772	0.772	2085984
1,2-Dichloropropane	ppbv	<0.40	0.40	<1.85	1.85	2085984
Bromomethane	ppbv	<0.18	0.18	<0.699	0.699	2085984
Bromoform	ppbv	<0.20	0.20	<2.07	2.07	2085984
Bromodichloromethane	ppbv	<0.20	0.20	<1.34	1.34	2085984
Dibromochloromethane	ppbv	<0.20	0.20	<1.70	1.70	2085984
Heptane	ppbv	<0.30	0.30	<1.23	1.23	2085984
Trichloroethylene	ppbv	<0.30	0.30	<1.61	1.61	2085984
Tetrachloroethylene	ppbv	<0.20	0.20	<1.36	1.36	2085984
Benzene	ppbv	0.19	0.18	0.599	0.575	2085984
Toluene	ppbv	<0.20	0.20	<0.753	0.753	2085984
Ethylbenzene	ppbv	<0.20	0.20	<0.868	0.868	2085984
p+m-Xylene	ppbv	<0.37	0.37	<1.61	1.61	2085984
o-Xylene	ppbv	<0.20	0.20	<0.868	0.868	2085984
Styrene	ppbv	<0.20	0.20	<0.852	0.852	2085984
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2085984
1,2,4-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2085984
4-ethyltoluene	ppbv	<2.2	2.2	<10.8	10.8	2085984
Chlorobenzene	ppbv	<0.20	0.20	<0.921	0.921	2085984
Benzyl chloride	ppbv	<1.0	1.0	<5.18	5.18	2085984
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2085984
1,4-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2085984
1,2-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2085984
1,2,4-Trichlorobenzene	ppbv	<2.0	2.0	<14.8	14.8	2085984
Hexachlorobutadiene	ppbv	<3.0	3.0	<32.0	32.0	2085984
Hexane	ppbv	<0.30	0.30	<1.06	1.06	2085984
Cyclohexane	ppbv	<0.20	0.20	<0.688	0.688	2085984
Tetrahydrofuran	ppbv	<0.40	0.40	<1.18	1.18	2085984

QC Batch = Quality Control Batch

Maxxam Job #: B017737
 Report Date: 2010/03/01

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FB9298				
Sampling Date		2010/02/07 00:00				
COC Number		5351				
	Units	LICA VOC/CLS/FEB7,10 - 7869	RDL	ug/m3	DL (ug/m3)	QC Batch

1,4-Dioxane	ppbv	<2.0	2.0	<7.21	7.21	2085984
Xylene (Total)	ppbv	<0.60	0.60	<2.61	2.61	2085984
Surrogate Recovery (%)						
Bromochloromethane	%	94		N/A	N/A	2085984
D5-Chlorobenzene	%	87		N/A	N/A	2085984
Difluorobenzene	%	96		N/A	N/A	2085984

N/A = Not Applicable
 QC Batch = Quality Control Batch

Maxxam Job #: B017737
 Report Date: 2010/03/01

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FB9299				
Sampling Date		2010/02/07 00:00				
COC Number		5351				
	Units	LICA VOC/PORT/FEB7,10 - 7912	RDL	ug/m3	DL (ug/m3)	QC Batch

Volatile Organics						
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.934	0.934	2089611
Carbon Disulfide	ppbv	<0.50	0.50	<1.56	1.56	2089611
Propene	ppbv	<0.30	0.30	<0.516	0.516	2089611
Vinyl Acetate	ppbv	<0.20	0.20	<0.704	0.704	2089611
Vinyl Bromide	ppbv	<0.20	0.20	<0.875	0.875	2089611
Dichlorodifluoromethane (FREON 12)	ppbv	0.81	0.20	4.00	0.989	2089611
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<1.19	1.19	2089611
Chloromethane	ppbv	0.66	0.30	1.37	0.620	2089611
Vinyl Chloride	ppbv	<0.18	0.18	<0.460	0.460	2089611
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	2089611
1,3-Butadiene	ppbv	<0.50	0.50	<1.11	1.11	2089611
Trichlorofluoromethane (FREON 11)	ppbv	0.37	0.20	2.06	1.12	2089611
Trichlorotrifluoroethane	ppbv	<0.15	0.15	<1.15	1.15	2089611
Ethanol	ppbv	<2.3	2.3	<4.33	4.33	2089611
2-propanol	ppbv	<3.0	3.0	<7.37	7.37	2089611
2-Propanone	ppbv	2.77	0.80	6.57	1.90	2089611
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	3.0	<8.85	8.85	2089611
Methyl Isobutyl Ketone	ppbv	<3.2	3.2	<13.1	13.1	2089611
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	2.0	<8.19	8.19	2089611
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.721	0.721	2089611
Ethyl Acetate	ppbv	<2.2	2.2	<7.93	7.93	2089611
1,1-Dichloroethylene	ppbv	<0.25	0.25	<0.991	0.991	2089611
cis-1,2-Dichloroethylene	ppbv	<0.19	0.19	<0.753	0.753	2089611
trans-1,2-Dichloroethylene	ppbv	<0.20	0.20	<0.793	0.793	2089611
Methylene Chloride(Dichloromethane)	ppbv	0.57	0.30	1.97	1.04	2089611
Chloroform	ppbv	<0.15	0.15	<0.732	0.732	2089611
Carbon Tetrachloride	ppbv	<0.30	0.30	<1.89	1.89	2089611
1,1-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2089611
1,2-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2089611
Ethylene Dibromide	ppbv	<0.17	0.17	<1.31	1.31	2089611

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B017737
 Report Date: 2010/03/01

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FB9299				
Sampling Date		2010/02/07 00:00				
COC Number		5351				
	Units	LICA VOC/PORT/FEB7,10 - 7912	RDL	ug/m3	DL (ug/m3)	QC Batch
1,1,1-Trichloroethane	ppbv	<0.30	0.30	<1.64	1.64	2089611
1,1,2-Trichloroethane	ppbv	<0.15	0.15	<0.818	0.818	2089611
1,1,2,2-Tetrachloroethane	ppbv	<0.20	0.20	<1.37	1.37	2089611
cis-1,3-Dichloropropene	ppbv	<0.18	0.18	<0.817	0.817	2089611
trans-1,3-Dichloropropene	ppbv	<0.17	0.17	<0.772	0.772	2089611
1,2-Dichloropropane	ppbv	<0.40	0.40	<1.85	1.85	2089611
Bromomethane	ppbv	<0.18	0.18	<0.699	0.699	2089611
Bromoform	ppbv	<0.20	0.20	<2.07	2.07	2089611
Bromodichloromethane	ppbv	<0.20	0.20	<1.34	1.34	2089611
Dibromochloromethane	ppbv	<0.20	0.20	<1.70	1.70	2089611
Heptane	ppbv	<0.30	0.30	<1.23	1.23	2089611
Trichloroethylene	ppbv	<0.30	0.30	<1.61	1.61	2089611
Tetrachloroethylene	ppbv	<0.20	0.20	<1.36	1.36	2089611
Benzene	ppbv	0.19	0.18	0.615	0.575	2089611
Toluene	ppbv	<0.20	0.20	<0.753	0.753	2089611
Ethylbenzene	ppbv	<0.20	0.20	<0.868	0.868	2089611
p+m-Xylene	ppbv	<0.37	0.37	<1.61	1.61	2089611
o-Xylene	ppbv	<0.20	0.20	<0.868	0.868	2089611
Styrene	ppbv	<0.20	0.20	<0.852	0.852	2089611
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2089611
1,2,4-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2089611
4-ethyltoluene	ppbv	<2.2	2.2	<10.8	10.8	2089611
Chlorobenzene	ppbv	<0.20	0.20	<0.921	0.921	2089611
Benzyl chloride	ppbv	<1.0	1.0	<5.18	5.18	2089611
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2089611
1,4-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2089611
1,2-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2089611
1,2,4-Trichlorobenzene	ppbv	<2.0	2.0	<14.8	14.8	2089611
Hexachlorobutadiene	ppbv	<3.0	3.0	<32.0	32.0	2089611
Hexane	ppbv	<0.30	0.30	<1.06	1.06	2089611
Cyclohexane	ppbv	<0.20	0.20	<0.688	0.688	2089611
Tetrahydrofuran	ppbv	<0.40	0.40	<1.18	1.18	2089611
QC Batch = Quality Control Batch						

Maxxam Job #: B017737
 Report Date: 2010/03/01

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FB9299				
Sampling Date		2010/02/07 00:00				
COC Number		5351				
	Units	LICA VOC/PORT/FEB7,10 - 7912	RDL	ug/m3	DL (ug/m3)	QC Batch
1,4-Dioxane	ppbv	<2.0	2.0	<7.21	7.21	2089611
Xylene (Total)	ppbv	<0.60	0.60	<2.61	2.61	2089611
Surrogate Recovery (%)						
Bromochloromethane	%	78		N/A	N/A	2089611
D5-Chlorobenzene	%	75		N/A	N/A	2089611
Difluorobenzene	%	80		N/A	N/A	2089611
N/A = Not Applicable QC Batch = Quality Control Batch						

Maxxam Job #: B017737
 Report Date: 2010/03/01

Test Summary

Maxxam ID FB9298 **Collected** 2010/02/07
Sample ID LICA VOC/CLS/FEB7,10 - 7869 **Shipped**
Matrix AIR **Received** 2010/02/13

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2085985	N/A	2010/02/23	MM2
Volatile Organics in Air (TO-15)	GC/MS	2085984	N/A	2010/02/23	MM2

Maxxam ID FB9299 **Collected** 2010/02/07
Sample ID LICA VOC/PORT/FEB7,10 - 7912 **Shipped**
Matrix AIR **Received** 2010/02/13

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2084689	N/A	2010/02/23	MM2
Volatile Organics in Air (TO-15)	GC/MS	2089611	N/A	2010/02/26	MM2

Maxxam Job #: B017737
Report Date: 2010/03/01

VOLATILE ORGANICS BY GC/MS (AIR)

Volatile Organics in Air (TO-15): 2 compounds exceed 130% recovery criteria. Compounds meet %RSD criteria in the continuing calibration standard. The failure of these 2 compounds is not believed to have an effect on the integrity of the results, therefore the data was accepted.

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: GB017737

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2085984 MM2	Spiked Blank	Bromochloromethane	2010/02/23		103	%	60 - 140
		D5-Chlorobenzene	2010/02/23		103	%	60 - 140
		Difluorobenzene	2010/02/23		105	%	60 - 140
		2,2,4-Trimethylpentane	2010/02/23		109	%	70 - 130
		Carbon Disulfide	2010/02/23		100	%	70 - 130
		Propene	2010/02/23		98	%	70 - 130
		Vinyl Acetate	2010/02/23		116	%	70 - 130
		Vinyl Bromide	2010/02/23		103	%	70 - 130
		Dichlorodifluoromethane (FREON 12)	2010/02/23		102	%	70 - 130
		1,2-Dichlorotetrafluoroethane	2010/02/23		85	%	70 - 130
		Chloromethane	2010/02/23		93	%	70 - 130
		Vinyl Chloride	2010/02/23		98	%	70 - 130
		Chloroethane	2010/02/23		98	%	70 - 130
		1,3-Butadiene	2010/02/23		87	%	70 - 130
		Trichlorofluoromethane (FREON 11)	2010/02/23		100	%	70 - 130
		Trichlorotrifluoroethane	2010/02/23		99	%	70 - 130
		Ethanol	2010/02/23		111	%	70 - 130
		2-propanol	2010/02/23		87	%	70 - 130
		2-Propanone	2010/02/23		126	%	70 - 130
		Methyl Ethyl Ketone (2-Butanone)	2010/02/23		117	%	70 - 130
		Methyl Isobutyl Ketone	2010/02/23		88	%	70 - 130
		Methyl Butyl Ketone (2-Hexanone)	2010/02/23		76	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/02/23		110	%	70 - 130
		Ethyl Acetate	2010/02/23		105	%	70 - 130
		1,1-Dichloroethylene	2010/02/23		106	%	70 - 130
		cis-1,2-Dichloroethylene	2010/02/23		108	%	70 - 130
		trans-1,2-Dichloroethylene	2010/02/23		109	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/02/23		91	%	70 - 130
		Chloroform	2010/02/23		101	%	70 - 130
		Carbon Tetrachloride	2010/02/23		104	%	70 - 130
		1,1-Dichloroethane	2010/02/23		102	%	70 - 130
		1,2-Dichloroethane	2010/02/23		102	%	70 - 130
		Ethylene Dibromide	2010/02/23		99	%	70 - 130
		1,1,1-Trichloroethane	2010/02/23		103	%	70 - 130
		1,1,2-Trichloroethane	2010/02/23		99	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/02/23		95	%	70 - 130
		cis-1,3-Dichloropropene	2010/02/23		108	%	70 - 130
		trans-1,3-Dichloropropene	2010/02/23		112	%	70 - 130
		1,2-Dichloropropane	2010/02/23		100	%	70 - 130
		Bromomethane	2010/02/23		90	%	70 - 130
		Bromoform	2010/02/23		108	%	70 - 130
		Bromodichloromethane	2010/02/23		107	%	70 - 130
		Dibromochloromethane	2010/02/23		107	%	70 - 130
		Heptane	2010/02/23		111	%	70 - 130
		Trichloroethylene	2010/02/23		99	%	70 - 130
		Tetrachloroethylene	2010/02/23		99	%	70 - 130
		Benzene	2010/02/23		102	%	70 - 130
		Toluene	2010/02/23		106	%	70 - 130
		Ethylbenzene	2010/02/23		104	%	70 - 130
		p+m-Xylene	2010/02/23		102	%	70 - 130
		o-Xylene	2010/02/23		101	%	70 - 130
		Styrene	2010/02/23		59 (1)	%	70 - 130
		1,3,5-Trimethylbenzene	2010/02/23		78	%	70 - 130
		1,2,4-Trimethylbenzene	2010/02/23		87	%	70 - 130
		4-ethyltoluene	2010/02/23		98	%	70 - 130

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB017737

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2085984 MM2	Spiked Blank	Chlorobenzene	2010/02/23		93	%	70 - 130
		Benzyl chloride	2010/02/23		102	%	70 - 130
		1,3-Dichlorobenzene	2010/02/23		97	%	70 - 130
		1,4-Dichlorobenzene	2010/02/23		96	%	70 - 130
		1,2-Dichlorobenzene	2010/02/23		94	%	70 - 130
		1,2,4-Trichlorobenzene	2010/02/23		113	%	70 - 130
		Hexachlorobutadiene	2010/02/23		88	%	70 - 130
		Hexane	2010/02/23		111	%	70 - 130
		Cyclohexane	2010/02/23		112	%	70 - 130
		Tetrahydrofuran	2010/02/23		105	%	70 - 130
		1,4-Dioxane	2010/02/23		87	%	70 - 130
	Method Blank	Bromochloromethane	2010/02/23		90	%	60 - 140
		D5-Chlorobenzene	2010/02/23		84	%	60 - 140
		Difluorobenzene	2010/02/23		92	%	60 - 140
		2,2,4-Trimethylpentane	2010/02/23	ND, RDL=0.20		ppbv	
		Carbon Disulfide	2010/02/23	ND, RDL=0.50		ppbv	
		Propene	2010/02/23	ND, RDL=0.30		ppbv	
		Vinyl Acetate	2010/02/23	ND, RDL=0.20		ppbv	
		Vinyl Bromide	2010/02/23	ND, RDL=0.20		ppbv	
		Dichlorodifluoromethane (FREON 12)	2010/02/23	ND, RDL=0.20		ppbv	
		1,2-Dichlorotetrafluoroethane	2010/02/23	ND, RDL=0.17		ppbv	
		Chloromethane	2010/02/23	ND, RDL=0.30		ppbv	
		Vinyl Chloride	2010/02/23	ND, RDL=0.18		ppbv	
		Chloroethane	2010/02/23	ND, RDL=0.30		ppbv	
		1,3-Butadiene	2010/02/23	ND, RDL=0.50		ppbv	
		Trichlorofluoromethane (FREON 11)	2010/02/23	ND, RDL=0.20		ppbv	
		Trichlorotrifluoroethane	2010/02/23	ND, RDL=0.15		ppbv	
		Ethanol	2010/02/23	ND, RDL=2.3		ppbv	
		2-propanol	2010/02/23	ND, RDL=3.0		ppbv	
		2-Propanone	2010/02/23	ND, RDL=0.80		ppbv	
		Methyl Ethyl Ketone (2-Butanone)	2010/02/23	ND, RDL=3.0		ppbv	
		Methyl Isobutyl Ketone	2010/02/23	ND, RDL=3.2		ppbv	
		Methyl Butyl Ketone (2-Hexanone)	2010/02/23	ND, RDL=2.0		ppbv	
		Methyl t-butyl ether (MTBE)	2010/02/23	ND, RDL=0.20		ppbv	
		Ethyl Acetate	2010/02/23	ND, RDL=2.2		ppbv	
		1,1-Dichloroethylene	2010/02/23	ND, RDL=0.25		ppbv	
		cis-1,2-Dichloroethylene	2010/02/23	ND, RDL=0.19		ppbv	
		trans-1,2-Dichloroethylene	2010/02/23	ND, RDL=0.20		ppbv	
		Methylene Chloride(Dichloromethane)	2010/02/23	0.44, RDL=0.30		ppbv	
		Chloroform	2010/02/23	ND, RDL=0.15		ppbv	
		Carbon Tetrachloride	2010/02/23	ND, RDL=0.30		ppbv	
		1,1-Dichloroethane	2010/02/23	ND, RDL=0.20		ppbv	
		1,2-Dichloroethane	2010/02/23	ND, RDL=0.20		ppbv	
		Ethylene Dibromide	2010/02/23	ND, RDL=0.17		ppbv	
		1,1,1-Trichloroethane	2010/02/23	ND, RDL=0.30		ppbv	
		1,1,2-Trichloroethane	2010/02/23	ND, RDL=0.15		ppbv	
		1,1,2,2-Tetrachloroethane	2010/02/23	ND, RDL=0.20		ppbv	
		cis-1,3-Dichloropropene	2010/02/23	ND, RDL=0.18		ppbv	
		trans-1,3-Dichloropropene	2010/02/23	ND, RDL=0.17		ppbv	
		1,2-Dichloropropane	2010/02/23	ND, RDL=0.40		ppbv	
		Bromomethane	2010/02/23	ND, RDL=0.18		ppbv	
		Bromoform	2010/02/23	ND, RDL=0.20		ppbv	
		Bromodichloromethane	2010/02/23	ND, RDL=0.20		ppbv	
		Dibromochloromethane	2010/02/23	ND, RDL=0.20		ppbv	
		Heptane	2010/02/23	ND, RDL=0.30		ppbv	

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB017737

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2085984 MM2	Method Blank	Trichloroethylene	2010/02/23	ND, RDL=0.30		ppbv	
		Tetrachloroethylene	2010/02/23	ND, RDL=0.20		ppbv	
		Benzene	2010/02/23	ND, RDL=0.18		ppbv	
		Toluene	2010/02/23	ND, RDL=0.20		ppbv	
		Ethylbenzene	2010/02/23	ND, RDL=0.20		ppbv	
		p+m-Xylene	2010/02/23	ND, RDL=0.37		ppbv	
		o-Xylene	2010/02/23	ND, RDL=0.20		ppbv	
		Styrene	2010/02/23	ND, RDL=0.20		ppbv	
		1,3,5-Trimethylbenzene	2010/02/23	ND, RDL=0.50		ppbv	
		1,2,4-Trimethylbenzene	2010/02/23	ND, RDL=0.50		ppbv	
		4-ethyltoluene	2010/02/23	ND, RDL=2.2		ppbv	
		Chlorobenzene	2010/02/23	ND, RDL=0.20		ppbv	
		Benzyl chloride	2010/02/23	ND, RDL=1.0		ppbv	
		1,3-Dichlorobenzene	2010/02/23	ND, RDL=0.40		ppbv	
		1,4-Dichlorobenzene	2010/02/23	ND, RDL=0.40		ppbv	
		1,2-Dichlorobenzene	2010/02/23	ND, RDL=0.40		ppbv	
		1,2,4-Trichlorobenzene	2010/02/23	ND, RDL=2.0		ppbv	
		Hexachlorobutadiene	2010/02/23	ND, RDL=3.0		ppbv	
		Hexane	2010/02/23	ND, RDL=0.30		ppbv	
		Cyclohexane	2010/02/23	ND, RDL=0.20		ppbv	
Tetrahydrofuran	2010/02/23	ND, RDL=0.40		ppbv			
1,4-Dioxane	2010/02/23	ND, RDL=2.0		ppbv			
Xylene (Total)	2010/02/23	ND, RDL=0.60		ppbv			
2089611 MM2	Spiked Blank	Bromochloromethane	2010/02/26		114	%	60 - 140
		D5-Chlorobenzene	2010/02/26		116	%	60 - 140
		Difluorobenzene	2010/02/26		118	%	60 - 140
		2,2,4-Trimethylpentane	2010/02/26		112	%	70 - 130
		Carbon Disulfide	2010/02/26		104	%	70 - 130
		Propene	2010/02/26		114	%	70 - 130
		Vinyl Acetate	2010/02/26		122	%	70 - 130
		Vinyl Bromide	2010/02/26		105	%	70 - 130
		Dichlorodifluoromethane (FREON 12)	2010/02/26		102	%	70 - 130
		1,2-Dichlorotetrafluoroethane	2010/02/26		87	%	70 - 130
		Chloromethane	2010/02/26		102	%	70 - 130
		Vinyl Chloride	2010/02/26		106	%	70 - 130
		Chloroethane	2010/02/26		103	%	70 - 130
		1,3-Butadiene	2010/02/26		93	%	70 - 130
		Trichlorofluoromethane (FREON 11)	2010/02/26		99	%	70 - 130
		Trichlorotrifluoroethane	2010/02/26		99	%	70 - 130
		Ethanol	2010/02/26		119	%	70 - 130
		2-propanol	2010/02/26		91	%	70 - 130
		2-Propanone	2010/02/26		134 (1)	%	70 - 130
		Methyl Ethyl Ketone (2-Butanone)	2010/02/26		124	%	70 - 130
		Methyl Isobutyl Ketone	2010/02/26		88	%	70 - 130
		Methyl Butyl Ketone (2-Hexanone)	2010/02/26		74	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/02/26		113	%	70 - 130
		Ethyl Acetate	2010/02/26		110	%	70 - 130
		1,1-Dichloroethylene	2010/02/26		109	%	70 - 130
		cis-1,2-Dichloroethylene	2010/02/26		111	%	70 - 130
		trans-1,2-Dichloroethylene	2010/02/26		113	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/02/26		96	%	70 - 130
		Chloroform	2010/02/26		101	%	70 - 130
		Carbon Tetrachloride	2010/02/26		100	%	70 - 130
1,1-Dichloroethane	2010/02/26		104	%	70 - 130		
1,2-Dichloroethane	2010/02/26		101	%	70 - 130		

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB017737

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2089611 MM2	Spiked Blank	Ethylene Dibromide	2010/02/26		100	%	70 - 130
		1,1,1-Trichloroethane	2010/02/26		99	%	70 - 130
		1,1,2-Trichloroethane	2010/02/26		100	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/02/26		100	%	70 - 130
		cis-1,3-Dichloropropene	2010/02/26		108	%	70 - 130
		trans-1,3-Dichloropropene	2010/02/26		112	%	70 - 130
		1,2-Dichloropropane	2010/02/26		103	%	70 - 130
		Bromomethane	2010/02/26		91	%	70 - 130
		Bromoform	2010/02/26		107	%	70 - 130
		Bromodichloromethane	2010/02/26		105	%	70 - 130
		Dibromochloromethane	2010/02/26		105	%	70 - 130
		Heptane	2010/02/26		114	%	70 - 130
		Trichloroethylene	2010/02/26		97	%	70 - 130
		Tetrachloroethylene	2010/02/26		97	%	70 - 130
		Benzene	2010/02/26		104	%	70 - 130
		Toluene	2010/02/26		106	%	70 - 130
		Ethylbenzene	2010/02/26		106	%	70 - 130
		p+m-Xylene	2010/02/26		103	%	70 - 130
		o-Xylene	2010/02/26		103	%	70 - 130
		Styrene	2010/02/26		57 (1)	%	70 - 130
		1,3,5-Trimethylbenzene	2010/02/26		76	%	70 - 130
		1,2,4-Trimethylbenzene	2010/02/26		87	%	70 - 130
		4-ethyltoluene	2010/02/26		99	%	70 - 130
		Chlorobenzene	2010/02/26		95	%	70 - 130
		Benzyl chloride	2010/02/26		102	%	70 - 130
		1,3-Dichlorobenzene	2010/02/26		99	%	70 - 130
		1,4-Dichlorobenzene	2010/02/26		98	%	70 - 130
		1,2-Dichlorobenzene	2010/02/26		95	%	70 - 130
		1,2,4-Trichlorobenzene	2010/02/26		116	%	70 - 130
		Hexachlorobutadiene	2010/02/26		89	%	70 - 130
		Hexane	2010/02/26		115	%	70 - 130
		Cyclohexane	2010/02/26		115	%	70 - 130
		Tetrahydrofuran	2010/02/26		111	%	70 - 130
		1,4-Dioxane	2010/02/26		87	%	70 - 130
	Method Blank	Bromochloromethane	2010/02/26		89	%	60 - 140
		D5-Chlorobenzene	2010/02/26		84	%	60 - 140
		Difluorobenzene	2010/02/26		91	%	60 - 140
		2,2,4-Trimethylpentane	2010/02/26	ND, RDL=0.20		ppbv	
		Carbon Disulfide	2010/02/26	ND, RDL=0.50		ppbv	
		Propene	2010/02/26	ND, RDL=0.30		ppbv	
		Vinyl Acetate	2010/02/26	ND, RDL=0.20		ppbv	
		Vinyl Bromide	2010/02/26	ND, RDL=0.20		ppbv	
		Dichlorodifluoromethane (FREON 12)	2010/02/26	ND, RDL=0.20		ppbv	
		1,2-Dichlorotetrafluoroethane	2010/02/26	ND, RDL=0.17		ppbv	
		Chloromethane	2010/02/26	ND, RDL=0.30		ppbv	
		Vinyl Chloride	2010/02/26	ND, RDL=0.18		ppbv	
		Chloroethane	2010/02/26	ND, RDL=0.30		ppbv	
		1,3-Butadiene	2010/02/26	ND, RDL=0.50		ppbv	
		Trichlorofluoromethane (FREON 11)	2010/02/26	ND, RDL=0.20		ppbv	
		Trichlorotrifluoroethane	2010/02/26	ND, RDL=0.15		ppbv	
		Ethanol	2010/02/26	ND, RDL=2.3		ppbv	
		2-propanol	2010/02/26	ND, RDL=3.0		ppbv	
		2-Propanone	2010/02/26	ND, RDL=0.80		ppbv	
		Methyl Ethyl Ketone (2-Butanone)	2010/02/26	ND, RDL=3.0		ppbv	
		Methyl Isobutyl Ketone	2010/02/26	ND, RDL=3.2		ppbv	

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB017737

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2089611	MM2	Method Blank					
		Methyl Butyl Ketone (2-Hexanone)	2010/02/26	ND, RDL=2.0		ppbv	
		Methyl t-butyl ether (MTBE)	2010/02/26	ND, RDL=0.20		ppbv	
		Ethyl Acetate	2010/02/26	ND, RDL=2.2		ppbv	
		1,1-Dichloroethylene	2010/02/26	ND, RDL=0.25		ppbv	
		cis-1,2-Dichloroethylene	2010/02/26	ND, RDL=0.19		ppbv	
		trans-1,2-Dichloroethylene	2010/02/26	ND, RDL=0.20		ppbv	
		Methylene Chloride(Dichloromethane)	2010/02/26	0.46, RDL=0.30		ppbv	
		Chloroform	2010/02/26	ND, RDL=0.15		ppbv	
		Carbon Tetrachloride	2010/02/26	ND, RDL=0.30		ppbv	
		1,1-Dichloroethane	2010/02/26	ND, RDL=0.20		ppbv	
		1,2-Dichloroethane	2010/02/26	ND, RDL=0.20		ppbv	
		Ethylene Dibromide	2010/02/26	ND, RDL=0.17		ppbv	
		1,1,1-Trichloroethane	2010/02/26	ND, RDL=0.30		ppbv	
		1,1,2-Trichloroethane	2010/02/26	ND, RDL=0.15		ppbv	
		1,1,2,2-Tetrachloroethane	2010/02/26	ND, RDL=0.20		ppbv	
		cis-1,3-Dichloropropene	2010/02/26	ND, RDL=0.18		ppbv	
		trans-1,3-Dichloropropene	2010/02/26	ND, RDL=0.17		ppbv	
		1,2-Dichloropropane	2010/02/26	ND, RDL=0.40		ppbv	
		Bromomethane	2010/02/26	ND, RDL=0.18		ppbv	
		Bromoform	2010/02/26	ND, RDL=0.20		ppbv	
		Bromodichloromethane	2010/02/26	ND, RDL=0.20		ppbv	
		Dibromochloromethane	2010/02/26	ND, RDL=0.20		ppbv	
		Heptane	2010/02/26	ND, RDL=0.30		ppbv	
		Trichloroethylene	2010/02/26	ND, RDL=0.30		ppbv	
		Tetrachloroethylene	2010/02/26	ND, RDL=0.20		ppbv	
		Benzene	2010/02/26	ND, RDL=0.18		ppbv	
		Toluene	2010/02/26	ND, RDL=0.20		ppbv	
		Ethylbenzene	2010/02/26	ND, RDL=0.20		ppbv	
		p+m-Xylene	2010/02/26	ND, RDL=0.37		ppbv	
		o-Xylene	2010/02/26	ND, RDL=0.20		ppbv	
		Styrene	2010/02/26	ND, RDL=0.20		ppbv	
		1,3,5-Trimethylbenzene	2010/02/26	ND, RDL=0.50		ppbv	
		1,2,4-Trimethylbenzene	2010/02/26	ND, RDL=0.50		ppbv	
		4-ethyltoluene	2010/02/26	ND, RDL=2.2		ppbv	
		Chlorobenzene	2010/02/26	ND, RDL=0.20		ppbv	
		Benzyl chloride	2010/02/26	ND, RDL=1.0		ppbv	
		1,3-Dichlorobenzene	2010/02/26	ND, RDL=0.40		ppbv	
		1,4-Dichlorobenzene	2010/02/26	ND, RDL=0.40		ppbv	
		1,2-Dichlorobenzene	2010/02/26	ND, RDL=0.40		ppbv	
		1,2,4-Trichlorobenzene	2010/02/26	ND, RDL=2.0		ppbv	
		Hexachlorobutadiene	2010/02/26	ND, RDL=3.0		ppbv	
		Hexane	2010/02/26	ND, RDL=0.30		ppbv	
		Cyclohexane	2010/02/26	ND, RDL=0.20		ppbv	
		Tetrahydrofuran	2010/02/26	ND, RDL=0.40		ppbv	
		1,4-Dioxane	2010/02/26	ND, RDL=2.0		ppbv	
		Xylene (Total)	2010/02/26	ND, RDL=0.60		ppbv	

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Analytics Inc.

Xontech Model 910A VOC Sample Collection Data Sheet

Client: LICA Sampler s/n: 6200
 Location: 13-16-62-5 W4M Canister ID: 7858 (Maxxam Supplied)
 Station ID: Lica 33 (Portable) Canister Installation Date/Time: Feb 12, 10 @ 09:15 mst
 Field Sample ID: LICA VOC/PORT/ Feb 13, 10 Canister Removal Date/Time: Feb 16, 10 @ 13:25 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
13-Feb-10	02/13/2010 0:00	02/14/2010 0:00	24.00

Flow Settings		
Meter Reading (sccm)	Pot Set Pt.	Pump Pressure Setting (psig)
10.0	1481	25

Canister Information	
Initial Canister Vacuum (inHg)	Final Canister Pressure (psig)
-28	21

Canister valve open prior to sampling?: YES / NO
Timer set to 0.00 minutes prior to sampling? YES / NO
Canister valve closed prior to disconnection?: YES / NO

Comments: System leak check prior to sampling. COC# 555

Technician Signature: Shea Beaton



Your C.O.C. #: 0555

Attention: Michael Bisaga

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/05

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B020926

Received: 2010/02/22, 13:13

Sample Matrix: AIR
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Canister Pressure (TO-15)	1	N/A	2010/02/24	BRL SOP-00304	EPA TO-15
Canister Pressure (TO-15)	1	N/A	2010/03/03	BRL SOP-00304	EPA TO-15
Volatile Organics in Air (TO-15) ¶	1	N/A	2010/02/24	BRL SOP-00304	EPA TO-15
Volatile Organics in Air (TO-15) ¶	1	N/A	2010/03/03	BRL SOP-00304	EPA TO-15

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO14A. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO14A on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Maxxam for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

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

Maxxam Analytics Inc. is a NELAC accredited laboratory. Certificate # CANA001. Use of the NELAC logo however does not insure that Maxxam is accredited for all of the methods indicated. This certificate shall not be reproduced except in full, without the written approval of Maxxam Analytics Inc. Maxxam has procedures in place to guard against improper use of the electronic signature and have the required



Your C.O.C. #: 0555

Attention: Michael Bisaga

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/05

CERTIFICATE OF ANALYSIS

-2-

"signatories", as per section.

Total cover pages: 2

Page 2 of 18

Page 150 of 247

Maxxam Job #: B020926
 Report Date: 2010/03/05

RESULTS OF ANALYSES OF AIR

Maxxam ID		FD4778		FD5614		
Sampling Date		2010/02/13		2010/02/13		
COC Number		0555		0555		
	Units	LICA	QC Batch	LICA	RDL	QC Batch
		VOC/PORT/FEB13,10		VOC/CLS/FEB13,10-7820		

Volatile Organics						
Pressure on Receipt	psig	20	2086980	20	N/A	2093686

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B020926
 Report Date: 2010/03/05

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FD4778				
Sampling Date		2010/02/13				
COC Number		0555				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/PORT/FEB13,10				

Volatile Organics						
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.934	0.934	2086959
Carbon Disulfide	ppbv	<0.50	0.50	<1.56	1.56	2086959
Propene	ppbv	<0.30	0.30	<0.516	0.516	2086959
Vinyl Acetate	ppbv	<0.20	0.20	<0.704	0.704	2086959
Vinyl Bromide	ppbv	<0.20	0.20	<0.875	0.875	2086959
Dichlorodifluoromethane (FREON 12)	ppbv	0.80	0.20	3.97	0.989	2086959
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<1.19	1.19	2086959
Chloromethane	ppbv	0.65	0.30	1.34	0.620	2086959
Vinyl Chloride	ppbv	<0.18	0.18	<0.460	0.460	2086959
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	2086959
1,3-Butadiene	ppbv	<0.50	0.50	<1.11	1.11	2086959
Trichlorofluoromethane (FREON 11)	ppbv	0.37	0.20	2.07	1.12	2086959
Trichlorotrifluoroethane	ppbv	<0.15	0.15	<1.15	1.15	2086959
Ethanol	ppbv	<2.3	2.3	<4.33	4.33	2086959
2-propanol	ppbv	<3.0	3.0	<7.37	7.37	2086959
2-Propanone	ppbv	4.64	0.80	11.0	1.90	2086959
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	3.0	<8.85	8.85	2086959
Methyl Isobutyl Ketone	ppbv	<3.2	3.2	<13.1	13.1	2086959
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	2.0	<8.19	8.19	2086959
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.721	0.721	2086959
Ethyl Acetate	ppbv	<2.2	2.2	<7.93	7.93	2086959
1,1-Dichloroethylene	ppbv	<0.25	0.25	<0.991	0.991	2086959
cis-1,2-Dichloroethylene	ppbv	<0.19	0.19	<0.753	0.753	2086959
trans-1,2-Dichloroethylene	ppbv	<0.20	0.20	<0.793	0.793	2086959
Methylene Chloride(Dichloromethane)	ppbv	0.56	0.30	1.95	1.04	2086959
Chloroform	ppbv	<0.15	0.15	<0.732	0.732	2086959
Carbon Tetrachloride	ppbv	<0.30	0.30	<1.89	1.89	2086959
1,1-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2086959
1,2-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2086959
Ethylene Dibromide	ppbv	<0.17	0.17	<1.31	1.31	2086959
1,1,1-Trichloroethane	ppbv	<0.30	0.30	<1.64	1.64	2086959
1,1,2-Trichloroethane	ppbv	<0.15	0.15	<0.818	0.818	2086959
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: B020926
 Report Date: 2010/03/05

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FD4778				
Sampling Date		2010/02/13				
COC Number		0555				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/PORT/FEB13,10				

1,1,2,2-Tetrachloroethane	ppbv	<0.20	0.20	<1.37	1.37	2086959
cis-1,3-Dichloropropene	ppbv	<0.18	0.18	<0.817	0.817	2086959
trans-1,3-Dichloropropene	ppbv	<0.17	0.17	<0.772	0.772	2086959
1,2-Dichloropropane	ppbv	<0.40	0.40	<1.85	1.85	2086959
Bromomethane	ppbv	<0.18	0.18	<0.699	0.699	2086959
Bromoform	ppbv	<0.20	0.20	<2.07	2.07	2086959
Bromodichloromethane	ppbv	<0.20	0.20	<1.34	1.34	2086959
Dibromochloromethane	ppbv	<0.20	0.20	<1.70	1.70	2086959
Heptane	ppbv	<0.30	0.30	<1.23	1.23	2086959
Trichloroethylene	ppbv	<0.30	0.30	<1.61	1.61	2086959
Tetrachloroethylene	ppbv	<0.20	0.20	<1.36	1.36	2086959
Benzene	ppbv	0.22	0.18	0.702	0.575	2086959
Toluene	ppbv	<0.20	0.20	<0.753	0.753	2086959
Ethylbenzene	ppbv	<0.20	0.20	<0.868	0.868	2086959
p+m-Xylene	ppbv	<0.37	0.37	<1.61	1.61	2086959
o-Xylene	ppbv	<0.20	0.20	<0.868	0.868	2086959
Styrene	ppbv	<0.20	0.20	<0.852	0.852	2086959
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2086959
1,2,4-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2086959
4-ethyltoluene	ppbv	<2.2	2.2	<10.8	10.8	2086959
Chlorobenzene	ppbv	<0.20	0.20	<0.921	0.921	2086959
Benzyl chloride	ppbv	<1.0	1.0	<5.18	5.18	2086959
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2086959
1,4-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2086959
1,2-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2086959
1,2,4-Trichlorobenzene	ppbv	<2.0	2.0	<14.8	14.8	2086959
Hexachlorobutadiene	ppbv	<3.0	3.0	<32.0	32.0	2086959
Hexane	ppbv	<0.30	0.30	<1.06	1.06	2086959
Cyclohexane	ppbv	<0.20	0.20	<0.688	0.688	2086959
Tetrahydrofuran	ppbv	<0.40	0.40	<1.18	1.18	2086959
1,4-Dioxane	ppbv	<2.0	2.0	<7.21	7.21	2086959
Xylene (Total)	ppbv	<0.60	0.60	<2.61	2.61	2086959
Surrogate Recovery (%)						
Bromochloromethane	%	82		N/A	N/A	2086959

 N/A = Not Applicable
 QC Batch = Quality Control Batch

Maxxam Job #: B020926
 Report Date: 2010/03/05

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FD4778				
Sampling Date		2010/02/13				
COC Number		0555				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/PORT/FEB13,10				

D5-Chlorobenzene	%	75		N/A	N/A	2086959
Difluorobenzene	%	83		N/A	N/A	2086959

N/A = Not Applicable
 QC Batch = Quality Control Batch

Maxxam Job #: B020926
 Report Date: 2010/03/05

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FD5614				
Sampling Date		2010/02/13				
COC Number		0555				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/CLS/FEB13,10-7820				

Volatile Organics						
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.934	0.934	2093682
Carbon Disulfide	ppbv	<0.50	0.50	<1.56	1.56	2093682
Propene	ppbv	<0.30	0.30	<0.516	0.516	2093682
Vinyl Acetate	ppbv	<0.20	0.20	<0.704	0.704	2093682
Vinyl Bromide	ppbv	<0.20	0.20	<0.875	0.875	2093682
Dichlorodifluoromethane (FREON 12)	ppbv	0.68	0.20	3.37	0.989	2093682
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<1.19	1.19	2093682
Chloromethane	ppbv	0.49	0.30	1.01	0.620	2093682
Vinyl Chloride	ppbv	<0.18	0.18	<0.460	0.460	2093682
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	2093682
1,3-Butadiene	ppbv	<0.50	0.50	<1.11	1.11	2093682
Trichlorofluoromethane (FREON 11)	ppbv	0.35	0.20	1.98	1.12	2093682
Trichlorotrifluoroethane	ppbv	<0.15	0.15	<1.15	1.15	2093682
Ethanol	ppbv	<2.3	2.3	<4.33	4.33	2093682
2-propanol	ppbv	<3.0	3.0	<7.37	7.37	2093682
2-Propanone	ppbv	3.47	0.80	8.24	1.90	2093682
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	3.0	<8.85	8.85	2093682
Methyl Isobutyl Ketone	ppbv	<3.2	3.2	<13.1	13.1	2093682
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	2.0	<8.19	8.19	2093682
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.721	0.721	2093682
Ethyl Acetate	ppbv	<2.2	2.2	<7.93	7.93	2093682
1,1-Dichloroethylene	ppbv	<0.25	0.25	<0.991	0.991	2093682
cis-1,2-Dichloroethylene	ppbv	<0.19	0.19	<0.753	0.753	2093682
trans-1,2-Dichloroethylene	ppbv	<0.20	0.20	<0.793	0.793	2093682
Methylene Chloride(Dichloromethane)	ppbv	0.72	0.30	2.50	1.04	2093682
Chloroform	ppbv	<0.15	0.15	<0.732	0.732	2093682
Carbon Tetrachloride	ppbv	<0.30	0.30	<1.89	1.89	2093682
1,1-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2093682
1,2-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2093682
Ethylene Dibromide	ppbv	<0.17	0.17	<1.31	1.31	2093682
1,1,1-Trichloroethane	ppbv	<0.30	0.30	<1.64	1.64	2093682
1,1,2-Trichloroethane	ppbv	<0.15	0.15	<0.818	0.818	2093682

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B020926
 Report Date: 2010/03/05

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FD5614				
Sampling Date		2010/02/13				
COC Number		0555				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/CLS/FEB13,10-7820				
1,1,2,2-Tetrachloroethane	ppbv	<0.20	0.20	<1.37	1.37	2093682
cis-1,3-Dichloropropene	ppbv	<0.18	0.18	<0.817	0.817	2093682
trans-1,3-Dichloropropene	ppbv	<0.17	0.17	<0.772	0.772	2093682
1,2-Dichloropropane	ppbv	<0.40	0.40	<1.85	1.85	2093682
Bromomethane	ppbv	<0.18	0.18	<0.699	0.699	2093682
Bromoform	ppbv	<0.20	0.20	<2.07	2.07	2093682
Bromodichloromethane	ppbv	<0.20	0.20	<1.34	1.34	2093682
Dibromochloromethane	ppbv	<0.20	0.20	<1.70	1.70	2093682
Heptane	ppbv	<0.30	0.30	<1.23	1.23	2093682
Trichloroethylene	ppbv	<0.30	0.30	<1.61	1.61	2093682
Tetrachloroethylene	ppbv	<0.20	0.20	<1.36	1.36	2093682
Benzene	ppbv	<0.18	0.18	<0.575	0.575	2093682
Toluene	ppbv	<0.20	0.20	<0.753	0.753	2093682
Ethylbenzene	ppbv	<0.20	0.20	<0.868	0.868	2093682
p+m-Xylene	ppbv	<0.37	0.37	<1.61	1.61	2093682
o-Xylene	ppbv	<0.20	0.20	<0.868	0.868	2093682
Styrene	ppbv	<0.20	0.20	<0.852	0.852	2093682
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2093682
1,2,4-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2093682
4-ethyltoluene	ppbv	<2.2	2.2	<10.8	10.8	2093682
Chlorobenzene	ppbv	<0.20	0.20	<0.921	0.921	2093682
Benzyl chloride	ppbv	<1.0	1.0	<5.18	5.18	2093682
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2093682
1,4-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2093682
1,2-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2093682
1,2,4-Trichlorobenzene	ppbv	<2.0	2.0	<14.8	14.8	2093682
Hexachlorobutadiene	ppbv	<3.0	3.0	<32.0	32.0	2093682
Hexane	ppbv	<0.30	0.30	<1.06	1.06	2093682
Cyclohexane	ppbv	<0.20	0.20	<0.688	0.688	2093682
Tetrahydrofuran	ppbv	<0.40	0.40	<1.18	1.18	2093682
1,4-Dioxane	ppbv	<2.0	2.0	<7.21	7.21	2093682
Xylene (Total)	ppbv	<0.60	0.60	<2.61	2.61	2093682
Surrogate Recovery (%)						
Bromochloromethane	%	90		N/A	N/A	2093682
N/A = Not Applicable QC Batch = Quality Control Batch						

Maxxam Job #: B020926
 Report Date: 2010/03/05

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FD5614				
Sampling Date		2010/02/13				
COC Number		0555				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/CLS/FEB13,10-7820				

D5-Chlorobenzene	%	87		N/A	N/A	2093682
Difluorobenzene	%	92		N/A	N/A	2093682

N/A = Not Applicable
 QC Batch = Quality Control Batch

Maxxam Job #: B020926
 Report Date: 2010/03/05

Test Summary

Maxxam ID FD4778
Sample ID LICA VOC/PORT/FEB13,10
Matrix AIR
Collected 2010/02/13
Shipped
Received 2010/02/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2086980	N/A	2010/02/24	MM2
Volatile Organics in Air (TO-15)	GC/MS	2086959	N/A	2010/02/24	MM2

Maxxam ID FD5614
Sample ID LICA VOC/CLS/FEB13,10-7820
Matrix AIR
Collected 2010/02/13
Shipped
Received 2010/02/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2093686	N/A	2010/03/03	VEA
Volatile Organics in Air (TO-15)	GC/MS	2093682	N/A	2010/03/03	VEA

Maxxam Job #: B020926
Report Date: 2010/03/05

GENERAL COMMENTS

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Michael Bisaga
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: GB020926

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2086959 MM2	Spiked Blank	Bromochloromethane	2010/02/24		114	%	60 - 140
		D5-Chlorobenzene	2010/02/24		113	%	60 - 140
		Difluorobenzene	2010/02/24		117	%	60 - 140
		2,2,4-Trimethylpentane	2010/02/24		104	%	70 - 130
		Carbon Disulfide	2010/02/24		97	%	70 - 130
		Propene	2010/02/24		98	%	70 - 130
		Vinyl Acetate	2010/02/24		112	%	70 - 130
		Vinyl Bromide	2010/02/24		101	%	70 - 130
		Dichlorodifluoromethane (FREON 12)	2010/02/24		100	%	70 - 130
		1,2-Dichlorotetrafluoroethane	2010/02/24		84	%	70 - 130
		Chloromethane	2010/02/24		92	%	70 - 130
		Vinyl Chloride	2010/02/24		97	%	70 - 130
		Chloroethane	2010/02/24		96	%	70 - 130
		1,3-Butadiene	2010/02/24		85	%	70 - 130
		Trichlorofluoromethane (FREON 11)	2010/02/24		96	%	70 - 130
		Trichlorotrifluoroethane	2010/02/24		95	%	70 - 130
		Ethanol	2010/02/24		107	%	70 - 130
		2-propanol	2010/02/24		84	%	70 - 130
		2-Propanone	2010/02/24		123	%	70 - 130
		Methyl Ethyl Ketone (2-Butanone)	2010/02/24		114	%	70 - 130
		Methyl Isobutyl Ketone	2010/02/24		83	%	70 - 130
		Methyl Butyl Ketone (2-Hexanone)	2010/02/24		71	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/02/24		108	%	70 - 130
		Ethyl Acetate	2010/02/24		102	%	70 - 130
		1,1-Dichloroethylene	2010/02/24		102	%	70 - 130
		cis-1,2-Dichloroethylene	2010/02/24		105	%	70 - 130
		trans-1,2-Dichloroethylene	2010/02/24		105	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/02/24		88	%	70 - 130
		Chloroform	2010/02/24		97	%	70 - 130
		Carbon Tetrachloride	2010/02/24		98	%	70 - 130
		1,1-Dichloroethane	2010/02/24		98	%	70 - 130
		1,2-Dichloroethane	2010/02/24		98	%	70 - 130
		Ethylene Dibromide	2010/02/24		97	%	70 - 130
		1,1,1-Trichloroethane	2010/02/24		97	%	70 - 130
		1,1,2-Trichloroethane	2010/02/24		96	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/02/24		94	%	70 - 130
		cis-1,3-Dichloropropene	2010/02/24		104	%	70 - 130
		trans-1,3-Dichloropropene	2010/02/24		108	%	70 - 130
		1,2-Dichloropropane	2010/02/24		96	%	70 - 130
		Bromomethane	2010/02/24		87	%	70 - 130
		Bromoform	2010/02/24		107	%	70 - 130
		Bromodichloromethane	2010/02/24		101	%	70 - 130
		Dibromochloromethane	2010/02/24		103	%	70 - 130
		Heptane	2010/02/24		104	%	70 - 130
		Trichloroethylene	2010/02/24		95	%	70 - 130
		Tetrachloroethylene	2010/02/24		96	%	70 - 130
		Benzene	2010/02/24		98	%	70 - 130
		Toluene	2010/02/24		102	%	70 - 130
		Ethylbenzene	2010/02/24		102	%	70 - 130
		p+m-Xylene	2010/02/24		100	%	70 - 130
		o-Xylene	2010/02/24		99	%	70 - 130
		Styrene	2010/02/24		57 (1)	%	70 - 130
		1,3,5-Trimethylbenzene	2010/02/24		76	%	70 - 130
		1,2,4-Trimethylbenzene	2010/02/24		86	%	70 - 130
		4-ethyltoluene	2010/02/24		97	%	70 - 130

Lakeland Industry & Community Assoc.
 Attention: Michael Bisaga
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)
 Maxxam Job Number: GB020926

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits	
2086959 MM2	Spiked Blank	Chlorobenzene	2010/02/24		91	%	70 - 130	
		Benzyl chloride	2010/02/24		102	%	70 - 130	
1,3-Dichlorobenzene		2010/02/24		98	%	70 - 130		
1,4-Dichlorobenzene		2010/02/24		96	%	70 - 130		
1,2-Dichlorobenzene		2010/02/24		93	%	70 - 130		
1,2,4-Trichlorobenzene		2010/02/24		110	%	70 - 130		
Hexachlorobutadiene		2010/02/24		87	%	70 - 130		
Hexane		2010/02/24		107	%	70 - 130		
Cyclohexane		2010/02/24		106	%	70 - 130		
Tetrahydrofuran		2010/02/24		101	%	70 - 130		
Method Blank	Method Blank	1,4-Dioxane	2010/02/24		83	%	70 - 130	
		Bromochloromethane	2010/02/24		92	%	60 - 140	
		D5-Chlorobenzene	2010/02/24		85	%	60 - 140	
		Difluorobenzene	2010/02/24		94	%	60 - 140	
		2,2,4-Trimethylpentane	2010/02/24	ND, RDL=0.20			ppbv	
		Carbon Disulfide	2010/02/24	ND, RDL=0.50			ppbv	
		Propene	2010/02/24	ND, RDL=0.30			ppbv	
		Vinyl Acetate	2010/02/24	ND, RDL=0.20			ppbv	
		Vinyl Bromide	2010/02/24	ND, RDL=0.20			ppbv	
		Dichlorodifluoromethane (FREON 12)	2010/02/24	ND, RDL=0.20			ppbv	
		1,2-Dichlorotetrafluoroethane	2010/02/24	ND, RDL=0.17			ppbv	
		Chloromethane	2010/02/24	ND, RDL=0.30			ppbv	
		Vinyl Chloride	2010/02/24	ND, RDL=0.18			ppbv	
		Chloroethane	2010/02/24	ND, RDL=0.30			ppbv	
		1,3-Butadiene	2010/02/24	ND, RDL=0.50			ppbv	
		Trichlorofluoromethane (FREON 11)	2010/02/24	ND, RDL=0.20			ppbv	
		Trichlorotrifluoroethane	2010/02/24	ND, RDL=0.15			ppbv	
		Ethanol	2010/02/24	ND, RDL=2.3			ppbv	
		2-propanol	2010/02/24	ND, RDL=3.0			ppbv	
		2-Propanone	2010/02/24	ND, RDL=0.80			ppbv	
		Methyl Ethyl Ketone (2-Butanone)	2010/02/24	ND, RDL=3.0			ppbv	
		Methyl Isobutyl Ketone	2010/02/24	ND, RDL=3.2			ppbv	
		Methyl Butyl Ketone (2-Hexanone)	2010/02/24	ND, RDL=2.0			ppbv	
		Methyl t-butyl ether (MTBE)	2010/02/24	ND, RDL=0.20			ppbv	
		Ethyl Acetate	2010/02/24	ND, RDL=2.2			ppbv	
		1,1-Dichloroethylene	2010/02/24	ND, RDL=0.25			ppbv	
		cis-1,2-Dichloroethylene	2010/02/24	ND, RDL=0.19			ppbv	
		trans-1,2-Dichloroethylene	2010/02/24	ND, RDL=0.20			ppbv	
		Methylene Chloride(Dichloromethane)	2010/02/24	0.44, RDL=0.30			ppbv	
		Chloroform	2010/02/24	ND, RDL=0.15			ppbv	
		Carbon Tetrachloride	2010/02/24	ND, RDL=0.30			ppbv	
		1,1-Dichloroethane	2010/02/24	ND, RDL=0.20			ppbv	
		1,2-Dichloroethane	2010/02/24	ND, RDL=0.20			ppbv	
		Ethylene Dibromide	2010/02/24	ND, RDL=0.17			ppbv	
		1,1,1-Trichloroethane	2010/02/24	ND, RDL=0.30			ppbv	
		1,1,2-Trichloroethane	2010/02/24	ND, RDL=0.15			ppbv	
		1,1,2,2-Tetrachloroethane	2010/02/24	ND, RDL=0.20			ppbv	
		cis-1,3-Dichloropropene	2010/02/24	ND, RDL=0.18			ppbv	
trans-1,3-Dichloropropene	2010/02/24	ND, RDL=0.17			ppbv			
1,2-Dichloropropane	2010/02/24	ND, RDL=0.40			ppbv			
Bromomethane	2010/02/24	ND, RDL=0.18			ppbv			
Bromoform	2010/02/24	ND, RDL=0.20			ppbv			
Bromodichloromethane	2010/02/24	ND, RDL=0.20			ppbv			
Dibromochloromethane	2010/02/24	ND, RDL=0.20			ppbv			
Heptane	2010/02/24	ND, RDL=0.30			ppbv			

Lakeland Industry & Community Assoc.
 Attention: Michael Bisaga
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB020926

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2086959	MM2	Method Blank					
		Trichloroethylene	2010/02/24	ND, RDL=0.30		ppbv	
		Tetrachloroethylene	2010/02/24	ND, RDL=0.20		ppbv	
		Benzene	2010/02/24	ND, RDL=0.18		ppbv	
		Toluene	2010/02/24	ND, RDL=0.20		ppbv	
		Ethylbenzene	2010/02/24	ND, RDL=0.20		ppbv	
		p+m-Xylene	2010/02/24	ND, RDL=0.37		ppbv	
		o-Xylene	2010/02/24	ND, RDL=0.20		ppbv	
		Styrene	2010/02/24	ND, RDL=0.20		ppbv	
		1,3,5-Trimethylbenzene	2010/02/24	ND, RDL=0.50		ppbv	
		1,2,4-Trimethylbenzene	2010/02/24	ND, RDL=0.50		ppbv	
		4-ethyltoluene	2010/02/24	ND, RDL=2.2		ppbv	
		Chlorobenzene	2010/02/24	ND, RDL=0.20		ppbv	
		Benzyl chloride	2010/02/24	ND, RDL=1.0		ppbv	
		1,3-Dichlorobenzene	2010/02/24	ND, RDL=0.40		ppbv	
		1,4-Dichlorobenzene	2010/02/24	ND, RDL=0.40		ppbv	
		1,2-Dichlorobenzene	2010/02/24	ND, RDL=0.40		ppbv	
		1,2,4-Trichlorobenzene	2010/02/24	ND, RDL=2.0		ppbv	
		Hexachlorobutadiene	2010/02/24	ND, RDL=3.0		ppbv	
		Hexane	2010/02/24	ND, RDL=0.30		ppbv	
		Cyclohexane	2010/02/24	ND, RDL=0.20		ppbv	
		Tetrahydrofuran	2010/02/24	ND, RDL=0.40		ppbv	
		1,4-Dioxane	2010/02/24	ND, RDL=2.0		ppbv	
		Xylene (Total)	2010/02/24	ND, RDL=0.60		ppbv	
	RPD - Sample/Sample Dup	2,2,4-Trimethylpentane	2010/02/24	NC		%	25
		Carbon Disulfide	2010/02/24	NC		%	25
		Propene	2010/02/24	NC		%	25
		Vinyl Acetate	2010/02/24	NC		%	25
		Vinyl Bromide	2010/02/24	NC		%	25
		Dichlorodifluoromethane (FREON 12)	2010/02/24	NC		%	25
		1,2-Dichlorotetrafluoroethane	2010/02/24	NC		%	25
		Chloromethane	2010/02/24	NC		%	25
		Vinyl Chloride	2010/02/24	NC		%	25
		Chloroethane	2010/02/24	NC		%	25
		1,3-Butadiene	2010/02/24	NC		%	25
		Trichlorofluoromethane (FREON 11)	2010/02/24	NC		%	25
		Trichlorotrifluoroethane	2010/02/24	NC		%	25
		Ethanol	2010/02/24	NC		%	25
		2-propanol	2010/02/24	NC		%	25
		2-Propanone	2010/02/24	NC		%	25
		Methyl Ethyl Ketone (2-Butanone)	2010/02/24	NC		%	25
		Methyl Isobutyl Ketone	2010/02/24	NC		%	25
		Methyl Butyl Ketone (2-Hexanone)	2010/02/24	NC		%	25
		Methyl t-butyl ether (MTBE)	2010/02/24	NC		%	25
		Ethyl Acetate	2010/02/24	NC		%	25
		1,1-Dichloroethylene	2010/02/24	NC		%	25
		cis-1,2-Dichloroethylene	2010/02/24	5.1		%	25
		trans-1,2-Dichloroethylene	2010/02/24	4.5		%	25
		Methylene Chloride(Dichloromethane)	2010/02/24	NC		%	25
		Chloroform	2010/02/24	NC		%	25
		Carbon Tetrachloride	2010/02/24	NC		%	25
		1,1-Dichloroethane	2010/02/24	NC		%	25
		1,2-Dichloroethane	2010/02/24	NC		%	25
		Ethylene Dibromide	2010/02/24	NC		%	25

Lakeland Industry & Community Assoc.
 Attention: Michael Bisaga
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB020926

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2086959 MM2	RPD - Sample/Sample Dup	1,1,1-Trichloroethane	2010/02/24	NC		%	25
		1,1,2-Trichloroethane	2010/02/24	NC		%	25
		1,1,2,2-Tetrachloroethane	2010/02/24	NC		%	25
		cis-1,3-Dichloropropene	2010/02/24	NC		%	25
		trans-1,3-Dichloropropene	2010/02/24	NC		%	25
		1,2-Dichloropropane	2010/02/24	NC		%	25
		Bromomethane	2010/02/24	NC		%	25
		Bromoform	2010/02/24	NC		%	25
		Bromodichloromethane	2010/02/24	NC		%	25
		Dibromochloromethane	2010/02/24	NC		%	25
		Heptane	2010/02/24	NC		%	25
		Trichloroethylene	2010/02/24	4.7		%	25
		Tetrachloroethylene	2010/02/24	1		%	25
		Benzene	2010/02/24	NC		%	25
		Toluene	2010/02/24	NC		%	25
		Ethylbenzene	2010/02/24	2.3		%	25
		p+m-Xylene	2010/02/24	2.7		%	25
		o-Xylene	2010/02/24	NC		%	25
		Styrene	2010/02/24	NC		%	25
		1,3,5-Trimethylbenzene	2010/02/24	NC		%	25
		1,2,4-Trimethylbenzene	2010/02/24	NC		%	25
		4-ethyltoluene	2010/02/24	NC		%	25
		Chlorobenzene	2010/02/24	NC		%	25
		Benzyl chloride	2010/02/24	NC		%	25
		1,3-Dichlorobenzene	2010/02/24	NC		%	25
		1,4-Dichlorobenzene	2010/02/24	NC		%	25
		1,2-Dichlorobenzene	2010/02/24	NC		%	25
		1,2,4-Trichlorobenzene	2010/02/24	NC		%	25
		Hexachlorobutadiene	2010/02/24	NC		%	25
		Hexane	2010/02/24	NC		%	25
		Cyclohexane	2010/02/24	NC		%	25
		Tetrahydrofuran	2010/02/24	NC		%	25
		1,4-Dioxane	2010/02/24	NC		%	25
		Xylene (Total)	2010/02/24	2.1		%	25
2093682 VEA	Spiked Blank	Bromochloromethane	2010/03/03		106	%	60 - 140
		D5-Chlorobenzene	2010/03/03		106	%	60 - 140
		Difluorobenzene	2010/03/03		107	%	60 - 140
		2,2,4-Trimethylpentane	2010/03/03		84	%	70 - 130
		Carbon Disulfide	2010/03/03		110	%	70 - 130
		Propene	2010/03/03		86	%	70 - 130
		Vinyl Acetate	2010/03/03		97	%	70 - 130
		Vinyl Bromide	2010/03/03		86	%	70 - 130
		Dichlorodifluoromethane (FREON 12)	2010/03/03		110	%	70 - 130
		1,2-Dichlorotetrafluoroethane	2010/03/03		94	%	70 - 130
		Chloromethane	2010/03/03		96	%	70 - 130
		Vinyl Chloride	2010/03/03		101	%	70 - 130
		Chloroethane	2010/03/03		100	%	70 - 130
		1,3-Butadiene	2010/03/03		94	%	70 - 130
		Trichlorofluoromethane (FREON 11)	2010/03/03		120	%	70 - 130
		Trichlorotrifluoroethane	2010/03/03		116	%	70 - 130
		Ethanol	2010/03/03		113	%	70 - 130
		2-propanol	2010/03/03		105	%	70 - 130
		2-Propanone	2010/03/03		131 (1)	%	70 - 130

Lakeland Industry & Community Assoc.
 Attention: Michael Bisaga
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB020926

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2093682 VEA	Spiked Blank	Methyl Ethyl Ketone (2-Butanone)	2010/03/03		103	%	70 - 130
		Methyl Isobutyl Ketone	2010/03/03		96	%	70 - 130
		Methyl Butyl Ketone (2-Hexanone)	2010/03/03		103	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/03/03		92	%	70 - 130
		Ethyl Acetate	2010/03/03		95	%	70 - 130
		1,1-Dichloroethylene	2010/03/03		116	%	70 - 130
		cis-1,2-Dichloroethylene	2010/03/03		98	%	70 - 130
		trans-1,2-Dichloroethylene	2010/03/03		97	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/03/03		99	%	70 - 130
		Chloroform	2010/03/03		105	%	70 - 130
		Carbon Tetrachloride	2010/03/03		117	%	70 - 130
		1,1-Dichloroethane	2010/03/03		100	%	70 - 130
		1,2-Dichloroethane	2010/03/03		103	%	70 - 130
		Ethylene Dibromide	2010/03/03		101	%	70 - 130
		1,1,1-Trichloroethane	2010/03/03		111	%	70 - 130
		1,1,2-Trichloroethane	2010/03/03		103	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/03/03		100	%	70 - 130
		cis-1,3-Dichloropropene	2010/03/03		107	%	70 - 130
		trans-1,3-Dichloropropene	2010/03/03		106	%	70 - 130
		1,2-Dichloropropane	2010/03/03		97	%	70 - 130
		Bromomethane	2010/03/03		93	%	70 - 130
		Bromoform	2010/03/03		108	%	70 - 130
		Bromodichloromethane	2010/03/03		106	%	70 - 130
		Dibromochloromethane	2010/03/03		103	%	70 - 130
		Heptane	2010/03/03		91	%	70 - 130
		Trichloroethylene	2010/03/03		99	%	70 - 130
		Tetrachloroethylene	2010/03/03		106	%	70 - 130
		Benzene	2010/03/03		99	%	70 - 130
		Toluene	2010/03/03		100	%	70 - 130
		Ethylbenzene	2010/03/03		97	%	70 - 130
		p+m-Xylene	2010/03/03		97	%	70 - 130
		o-Xylene	2010/03/03		98	%	70 - 130
		Styrene	2010/03/03		62 (1)	%	70 - 130
		1,3,5-Trimethylbenzene	2010/03/03		95	%	70 - 130
		1,2,4-Trimethylbenzene	2010/03/03		95	%	70 - 130
		4-ethyltoluene	2010/03/03		88	%	70 - 130
		Chlorobenzene	2010/03/03		95	%	70 - 130
		Benzyl chloride	2010/03/03		106	%	70 - 130
		1,3-Dichlorobenzene	2010/03/03		104	%	70 - 130
		1,4-Dichlorobenzene	2010/03/03		102	%	70 - 130
		1,2-Dichlorobenzene	2010/03/03		104	%	70 - 130
		1,2,4-Trichlorobenzene	2010/03/03		122	%	70 - 130
		Hexachlorobutadiene	2010/03/03		88	%	70 - 130
		Hexane	2010/03/03		86	%	70 - 130
		Cyclohexane	2010/03/03		88	%	70 - 130
		Tetrahydrofuran	2010/03/03		90	%	70 - 130
		1,4-Dioxane	2010/03/03		97	%	70 - 130
	Method Blank	Bromochloromethane	2010/03/03		87	%	60 - 140
		D5-Chlorobenzene	2010/03/03		85	%	60 - 140
		Difluorobenzene	2010/03/03		91	%	60 - 140
		2,2,4-Trimethylpentane	2010/03/03	ND, RDL=0.20		ppbv	
		Carbon Disulfide	2010/03/03	ND, RDL=0.50		ppbv	
		Propene	2010/03/03	ND, RDL=0.30		ppbv	
		Vinyl Acetate	2010/03/03	ND, RDL=0.20		ppbv	
		Vinyl Bromide	2010/03/03	ND, RDL=0.20		ppbv	

Lakeland Industry & Community Assoc.
 Attention: Michael Bisaga
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB020926

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2093682 VEA	Method Blank	Dichlorodifluoromethane (FREON 12)	2010/03/03	ND, RDL=0.20		ppbv	
		1,2-Dichlorotetrafluoroethane	2010/03/03	ND, RDL=0.17		ppbv	
		Chloromethane	2010/03/03	ND, RDL=0.30		ppbv	
		Vinyl Chloride	2010/03/03	ND, RDL=0.18		ppbv	
		Chloroethane	2010/03/03	ND, RDL=0.30		ppbv	
		1,3-Butadiene	2010/03/03	ND, RDL=0.50		ppbv	
		Trichlorofluoromethane (FREON 11)	2010/03/03	ND, RDL=0.20		ppbv	
		Trichlorotrifluoroethane	2010/03/03	ND, RDL=0.15		ppbv	
		Ethanol	2010/03/03	ND, RDL=2.3		ppbv	
		2-propanol	2010/03/03	ND, RDL=3.0		ppbv	
		2-Propanone	2010/03/03	ND, RDL=0.80		ppbv	
		Methyl Ethyl Ketone (2-Butanone)	2010/03/03	ND, RDL=3.0		ppbv	
		Methyl Isobutyl Ketone	2010/03/03	ND, RDL=3.2		ppbv	
		Methyl Butyl Ketone (2-Hexanone)	2010/03/03	ND, RDL=2.0		ppbv	
		Methyl t-butyl ether (MTBE)	2010/03/03	ND, RDL=0.20		ppbv	
		Ethyl Acetate	2010/03/03	ND, RDL=2.2		ppbv	
		1,1-Dichloroethylene	2010/03/03	ND, RDL=0.25		ppbv	
		cis-1,2-Dichloroethylene	2010/03/03	ND, RDL=0.19		ppbv	
		trans-1,2-Dichloroethylene	2010/03/03	ND, RDL=0.20		ppbv	
		Methylene Chloride(Dichloromethane)	2010/03/03	0.59, RDL=0.30		ppbv	
		Chloroform	2010/03/03	ND, RDL=0.15		ppbv	
		Carbon Tetrachloride	2010/03/03	ND, RDL=0.30		ppbv	
		1,1-Dichloroethane	2010/03/03	ND, RDL=0.20		ppbv	
		1,2-Dichloroethane	2010/03/03	ND, RDL=0.20		ppbv	
		Ethylene Dibromide	2010/03/03	ND, RDL=0.17		ppbv	
		1,1,1-Trichloroethane	2010/03/03	ND, RDL=0.30		ppbv	
		1,1,2-Trichloroethane	2010/03/03	ND, RDL=0.15		ppbv	
		1,1,2,2-Tetrachloroethane	2010/03/03	ND, RDL=0.20		ppbv	
		cis-1,3-Dichloropropene	2010/03/03	ND, RDL=0.18		ppbv	
		trans-1,3-Dichloropropene	2010/03/03	ND, RDL=0.17		ppbv	
		1,2-Dichloropropane	2010/03/03	ND, RDL=0.40		ppbv	
		Bromomethane	2010/03/03	ND, RDL=0.18		ppbv	
		Bromoform	2010/03/03	ND, RDL=0.20		ppbv	
		Bromodichloromethane	2010/03/03	ND, RDL=0.20		ppbv	
		Dibromochloromethane	2010/03/03	ND, RDL=0.20		ppbv	
		Heptane	2010/03/03	ND, RDL=0.30		ppbv	
		Trichloroethylene	2010/03/03	ND, RDL=0.30		ppbv	
		Tetrachloroethylene	2010/03/03	ND, RDL=0.20		ppbv	
		Benzene	2010/03/03	ND, RDL=0.18		ppbv	
		Toluene	2010/03/03	ND, RDL=0.20		ppbv	
		Ethylbenzene	2010/03/03	ND, RDL=0.20		ppbv	
		p+m-Xylene	2010/03/03	ND, RDL=0.37		ppbv	
		o-Xylene	2010/03/03	ND, RDL=0.20		ppbv	
		Styrene	2010/03/03	ND, RDL=0.20		ppbv	
		1,3,5-Trimethylbenzene	2010/03/03	ND, RDL=0.50		ppbv	
		1,2,4-Trimethylbenzene	2010/03/03	ND, RDL=0.50		ppbv	
		4-ethyltoluene	2010/03/03	ND, RDL=2.2		ppbv	
		Chlorobenzene	2010/03/03	ND, RDL=0.20		ppbv	
		Benzyl chloride	2010/03/03	ND, RDL=1.0		ppbv	
		1,3-Dichlorobenzene	2010/03/03	ND, RDL=0.40		ppbv	
		1,4-Dichlorobenzene	2010/03/03	ND, RDL=0.40		ppbv	
		1,2-Dichlorobenzene	2010/03/03	ND, RDL=0.40		ppbv	
		1,2,4-Trichlorobenzene	2010/03/03	ND, RDL=2.0		ppbv	
		Hexachlorobutadiene	2010/03/03	ND, RDL=3.0		ppbv	
		Hexane	2010/03/03	ND, RDL=0.30		ppbv	

Lakeland Industry & Community Assoc.
 Attention: Michael Bisaga
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB020926

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2093682 VEA	Method Blank	Cyclohexane	2010/03/03	ND, RDL=0.20		ppbv	
		Tetrahydrofuran	2010/03/03	ND, RDL=0.40		ppbv	
		1,4-Dioxane	2010/03/03	ND, RDL=2.0		ppbv	
		Xylene (Total)	2010/03/03	ND, RDL=0.60		ppbv	

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
 (1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Analytics Inc.

Xontech Model 910A VOC Sample Collection Data Sheet

Client: LICA Sampler s/n: 6200
 Location: 13-16-62-5 W4M Canister ID: 7814 (Maxxam Supplied)
 Station ID: Lica 33 (Portable) Canister Installation Date/Time: Feb 18, 10 @ 13:50 mst
 Field Sample ID: LICA VOC/PORT/ Feb 19, 10 Canister Removal Date/Time: Feb 24, 10 @ 08:45 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
19-Feb-10	02/19/2010 0:00	02/20/2010 0:00	24.00

Flow Settings		
Meter Reading (sccm)	Pot Set Pt.	Pump Pressure Setting (psig)
10.0	1481	25

Canister Information	
Initial Canister Vacuum (inHg)	Final Canister Pressure (psig)
-28	21

Canister valve open prior to sampling?: YES / NO
 Timer set to 0.00 minutes prior to sampling? YES / NO
 Canister valve closed prior to disconnection?: YES / NO

Comments: System leak check prior to sampling. COC#

Technician Signiture: Shea Beaton



Your Project #: LICA
Your C.O.C. #: 2899

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/09

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B023243

Received: 2010/02/26, 09:04

Sample Matrix: AIR
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Canister Pressure (TO-15)	2	N/A	2010/03/04	BRL SOP-00304	EPA TO-15
Volatile Organics in Air (TO-15) ¶	2	N/A	2010/03/04	BRL SOP-00304	EPA TO-15

Sample Matrix: Filter
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PAH's in Air (CARB429mod)	2	2010/03/01	2010/03/03	BRL SOP-00201	CARB429(ARBM1,M2)mod

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO14A. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO14A on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Maxxam for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

=====



Your Project #: LICA
Your C.O.C. #: 2899

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/09

CERTIFICATE OF ANALYSIS

-2-

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

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Total cover pages: 2

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Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

RESULTS OF ANALYSES OF AIR

Maxxam ID		FE6107	FE6108	
Sampling Date		2010/02/19	2010/02/19	
COC Number		2899	2899	
	Units	LICAVOC/CLS/FEB19,10/7914	LICAVOC/PORT/FEB19,10/7814	QC Batch

Volatile Organics				
Pressure on Receipt	psig	19	20	2093742

QC Batch = Quality Control Batch

Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

SEMI-VOLATILE ORGANICS BY GC-MS (FILTER)

Maxxam ID		FE6109	FE6110		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAQFF/PUF/CLS/FEB19,10	LICAQFF/PUF/PORT/FEB19,10	RDL	QC Batch
Semivolatile Organics					
1-Methylnaphthalene	ug	0.25	0.14	0.10	2090086
1-Methylphenanthrene	ug	<0.10	<0.10	0.10	2090086
2-Chloronaphthalene	ug	<0.10	<0.10	0.10	2090086
2-Methylanthracene	ug	<0.10	<0.10	0.10	2090086
2-Methylnaphthalene	ug	0.50	0.26	0.10	2090086
3-Methylcholanthrene	ug	<2.0	<2.0	2.0	2090086
7,12-Dimethylbenzo(a)anthracene	ug	<0.10	<0.10	0.10	2090086
9,10-Dimethylanthracene	ug	<0.40	<0.40	0.40	2090086
Acenaphthene	ug	0.062	<0.050	0.050	2090086
Acenaphthylene	ug	0.106	<0.050	0.050	2090086
Anthracene	ug	<0.050	<0.050	0.050	2090086
Benzo(a)anthracene	ug	<0.050	<0.050	0.050	2090086
Benzo(a)fluorene	ug	<0.10	<0.10	0.10	2090086
Benzo(a)pyrene	ug	<0.050	<0.050	0.050	2090086
Benzo(b)fluoranthene	ug	<0.050	<0.050	0.050	2090086
Benzo(b)fluorene	ug	<0.10	<0.10	0.10	2090086
Benzo(e)pyrene	ug	<0.10	<0.10	0.10	2090086
Benzo(g,h,i)perylene	ug	<0.050	<0.050	0.050	2090086
Benzo(k)fluoranthene	ug	<0.050	<0.050	0.050	2090086
Biphenyl	ug	0.20	0.15	0.10	2090086
Chrysene	ug	<0.050	<0.050	0.050	2090086
Coronene	ug	<0.10	<0.10	0.10	2090086
Dibenz(a,h)anthracene	ug	<0.050	<0.050	0.050	2090086
Dibenzo(a,e)pyrene	ug	<0.20	<0.20	0.20	2090086
Fluoranthene	ug	0.069	0.053	0.050	2090086
Fluorene	ug	0.133	0.099	0.050	2090086
Indeno(1,2,3-cd)pyrene	ug	<0.050	<0.050	0.050	2090086
m-Terphenyl	ug	<0.10	<0.10	0.10	2090086
Naphthalene	ug	0.383	0.171	0.072	2090086
o-Terphenyl	ug	<0.10	<0.10	0.10	2090086
Perylene	ug	<0.10	<0.10	0.10	2090086
Phenanthrene	ug	0.255	0.251	0.050	2090086
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

SEMI-VOLATILE ORGANICS BY GC-MS (FILTER)

Maxxam ID		FE6109	FE6110		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAQFF/PUF/CLS/FEB19,10	LICAQFF/PUF/PORT/FEB19,10	RDL	QC Batch
p-Terphenyl	ug	<0.10	<0.10	0.10	2090086
Pyrene	ug	0.052	<0.050	0.050	2090086
Quinoline	ug	<0.40	<0.40	0.40	2090086
Tetralin	ug	<0.10	<0.10	0.10	2090086
Surrogate Recovery (%)					
D10-2-Methylnaphthalene	%	81	79		2090086
D10-Fluoranthene	%	94	105		2090086
D10-Fluorene (FS)	%	68	62		2090086
D10-Phenanthrene	%	102	100		2090086
D12-Benzo(a)anthracene	%	99	108		2090086
D12-Benzo(a)pyrene	%	101	106		2090086
D12-Benzo(b)fluoranthene	%	118	94		2090086
D12-Benzo(ghi)perylene	%	98	100		2090086
D12-Benzo(k)fluoranthene	%	76	102		2090086
D12-Chrysene	%	102	108		2090086
D12-Indeno(1,2,3-cd)pyrene	%	95	99		2090086
D12-Perylene	%	102	106		2090086
D14-Dibenzo(a,h)anthracene	%	94	100		2090086
D14-Terphenyl (FS)	%	94	95		2090086
D8-Acenaphthylene	%	92	95		2090086
D8-Naphthalene	%	78	74		2090086
QC Batch = Quality Control Batch					

Maxxam Job #: B023243
Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
Client Project #: LICA

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FE6107	FE6108		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAVOC/CLS/FEB19,10/7914	LICAVOC/PORT/FEB19,10/7814	RDL	QC Batch

Volatile Organics					
2,2,4-Trimethylpentane	ppbv	<0.20	<0.20	0.20	2093792
Carbon Disulfide	ppbv	<0.50	<0.50	0.50	2093792
Propene	ppbv	<0.30	<0.30	0.30	2093792
Vinyl Acetate	ppbv	<0.20	<0.20	0.20	2093792
Vinyl Bromide	ppbv	<0.20	<0.20	0.20	2093792
Dichlorodifluoromethane (FREON 12)	ppbv	0.56	0.55	0.20	2093792
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	<0.17	0.17	2093792
Chloromethane	ppbv	0.56	0.58	0.30	2093792
Vinyl Chloride	ppbv	<0.18	<0.18	0.18	2093792
Chloroethane	ppbv	<0.30	<0.30	0.30	2093792
1,3-Butadiene	ppbv	<0.50	<0.50	0.50	2093792
Trichlorofluoromethane (FREON 11)	ppbv	0.30	0.30	0.20	2093792
Trichlorotrifluoroethane	ppbv	<0.15	<0.15	0.15	2093792
Ethanol	ppbv	<2.3	<2.3	2.3	2093792
2-propanol	ppbv	<3.0	<3.0	3.0	2093792
2-Propanone	ppbv	1.00	1.49	0.80	2093792
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	<3.0	3.0	2093792
Methyl Isobutyl Ketone	ppbv	<3.2	<3.2	3.2	2093792
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	<2.0	2.0	2093792
Methyl t-butyl ether (MTBE)	ppbv	<0.20	<0.20	0.20	2093792
Ethyl Acetate	ppbv	<2.2	<2.2	2.2	2093792
1,1-Dichloroethylene	ppbv	<0.25	<0.25	0.25	2093792
cis-1,2-Dichloroethylene	ppbv	<0.19	<0.19	0.19	2093792
trans-1,2-Dichloroethylene	ppbv	<0.20	<0.20	0.20	2093792
Methylene Chloride(Dichloromethane)	ppbv	0.37	0.37	0.30	2093792
Chloroform	ppbv	<0.15	<0.15	0.15	2093792
Carbon Tetrachloride	ppbv	<0.30	<0.30	0.30	2093792
1,1-Dichloroethane	ppbv	<0.20	<0.20	0.20	2093792
1,2-Dichloroethane	ppbv	<0.20	<0.20	0.20	2093792
Ethylene Dibromide	ppbv	<0.17	<0.17	0.17	2093792
1,1,1-Trichloroethane	ppbv	<0.30	<0.30	0.30	2093792
1,1,2-Trichloroethane	ppbv	<0.15	<0.15	0.15	2093792

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B023243
 Report Date: 2010/03/09

 Lakeland Industry & Community Assoc.
 Client Project #: LICA

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FE6107	FE6108		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAVOC/CLS/FEB19,10/7914	LICAVOC/PORT/FEB19,10/7814	RDL	QC Batch
1,1,2,2-Tetrachloroethane	ppbv	<0.20	<0.20	0.20	2093792
cis-1,3-Dichloropropene	ppbv	<0.18	<0.18	0.18	2093792
trans-1,3-Dichloropropene	ppbv	<0.17	<0.17	0.17	2093792
1,2-Dichloropropane	ppbv	<0.40	<0.40	0.40	2093792
Bromomethane	ppbv	<0.18	<0.18	0.18	2093792
Bromoform	ppbv	<0.20	<0.20	0.20	2093792
Bromodichloromethane	ppbv	<0.20	<0.20	0.20	2093792
Dibromochloromethane	ppbv	<0.20	<0.20	0.20	2093792
Heptane	ppbv	<0.30	<0.30	0.30	2093792
Trichloroethylene	ppbv	<0.30	<0.30	0.30	2093792
Tetrachloroethylene	ppbv	<0.20	<0.20	0.20	2093792
Benzene	ppbv	<0.18	<0.18	0.18	2093792
Toluene	ppbv	<0.20	<0.20	0.20	2093792
Ethylbenzene	ppbv	<0.20	<0.20	0.20	2093792
p+m-Xylene	ppbv	<0.37	<0.37	0.37	2093792
o-Xylene	ppbv	<0.20	<0.20	0.20	2093792
Styrene	ppbv	<0.20	<0.20	0.20	2093792
1,3,5-Trimethylbenzene	ppbv	<0.50	<0.50	0.50	2093792
1,2,4-Trimethylbenzene	ppbv	<0.50	<0.50	0.50	2093792
4-ethyltoluene	ppbv	<2.2	<2.2	2.2	2093792
Chlorobenzene	ppbv	<0.20	<0.20	0.20	2093792
Benzyl chloride	ppbv	<1.0	<1.0	1.0	2093792
1,3-Dichlorobenzene	ppbv	<0.40	<0.40	0.40	2093792
1,4-Dichlorobenzene	ppbv	<0.40	<0.40	0.40	2093792
1,2-Dichlorobenzene	ppbv	<0.40	<0.40	0.40	2093792
1,2,4-Trichlorobenzene	ppbv	<2.0	<2.0	2.0	2093792
Hexachlorobutadiene	ppbv	<3.0	<3.0	3.0	2093792
Hexane	ppbv	<0.30	<0.30	0.30	2093792
Cyclohexane	ppbv	<0.20	<0.20	0.20	2093792
Tetrahydrofuran	ppbv	<0.40	<0.40	0.40	2093792
1,4-Dioxane	ppbv	<2.0	<2.0	2.0	2093792
Xylene (Total)	ppbv	<0.60	<0.60	0.60	2093792
Surrogate Recovery (%)					
Bromochloromethane	%	82	78		2093792
QC Batch = Quality Control Batch					

Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FE6107	FE6108		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAVOC/CLS/FEB19,10/7914	LICAVOC/PORT/FEB19,10/7814	RDL	QC Batch

D5-Chlorobenzene	%	67	66		2093792
Difluorobenzene	%	79	74		2093792

QC Batch = Quality Control Batch

Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

Test Summary

Maxxam ID FE6107
Sample ID LICAVOC/CLS/FEB19,10/7914
Matrix AIR
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2093742	N/A	2010/03/04	S_S
Volatile Organics in Air (TO-15)	GC/MS	2093792	N/A	2010/03/04	S_S

Maxxam ID FE6108
Sample ID LICAVOC/PORT/FEB19,10/7814
Matrix AIR
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2093742	N/A	2010/03/04	S_S
Volatile Organics in Air (TO-15)	GC/MS	2093792	N/A	2010/03/04	S_S

Maxxam ID FE6108 Dup
Sample ID LICAVOC/PORT/FEB19,10/7814
Matrix AIR
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Volatile Organics in Air (TO-15)	GC/MS	2093792	N/A	2010/03/04	S_S

Maxxam ID FE6109
Sample ID LICAQFF/PUF/CLS/FEB19,10
Matrix Filter
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2090086	2010/03/01	2010/03/03	WZ

Maxxam ID FE6110
Sample ID LICAQFF/PUF/PORT/FEB19,10
Matrix Filter
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2090086	2010/03/01	2010/03/03	WZ

Maxxam Job #: B023243
Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
Client Project #: LICA

GENERAL COMMENTS

PAHMS-F

7,12-Dimethylbenzo(a)anthracene is above 25% RSD in initial calibration. No positives found for this compounds.

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug

. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene and Triphenylene with Chrysene each would have a value below estimated mdl.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to these 2 compounds in the appropriate retention time range with no possible positives detected.

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: GB023243

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits		
2090086 WZ	Spiked Blank	D10-2-Methylnaphthalene	2010/03/03		85	%	50 - 150		
		D10-Fluoranthene	2010/03/03		93	%	50 - 150		
		D10-Phenanthrene	2010/03/03		97	%	50 - 150		
		D12-Benzo(a)anthracene	2010/03/03		88	%	50 - 150		
		D12-Benzo(a)pyrene	2010/03/03		99	%	50 - 150		
		D12-Benzo(b)fluoranthene	2010/03/03		110	%	50 - 150		
		D12-Benzo(ghi)perylene	2010/03/03		91	%	50 - 150		
		D12-Benzo(k)fluoranthene	2010/03/03		89	%	50 - 150		
		D12-Chrysene	2010/03/03		106	%	50 - 150		
		D12-Indeno(1,2,3-cd)pyrene	2010/03/03		93	%	50 - 150		
		D12-Perylene	2010/03/03		99	%	50 - 150		
		D14-Dibenzo(a,h)anthracene	2010/03/03		94	%	50 - 150		
		RPD	Acenaphthylene	2010/03/03		2.7		%	50
	Acenaphthylene		2010/03/03			77	%	60 - 130	
	Acenaphthylene		2010/03/03		2.7		%	50	
	Anthracene		2010/03/03			73	%	60 - 130	
	Anthracene		2010/03/03		7.2		%	50	
	Benzo(a)anthracene		2010/03/03			96	%	60 - 130	
	Benzo(a)anthracene		2010/03/03		2.7		%	50	
	Benzo(a)pyrene		2010/03/03			82	%	60 - 130	
	Benzo(a)pyrene		2010/03/03		3.6		%	50	
	Benzo(b)fluoranthene		2010/03/03			72	%	60 - 130	
	Benzo(b)fluoranthene		2010/03/03		1.4		%	50	
	Benzo(g,h,i)perylene		2010/03/03			79	%	60 - 130	
	Benzo(g,h,i)perylene		2010/03/03		0.3		%	50	
	Benzo(k)fluoranthene		2010/03/03			100	%	60 - 130	
	Benzo(k)fluoranthene		2010/03/03		0.8		%	50	
	Spiked Blank		Chrysene	2010/03/03			87	%	60 - 130
			Chrysene	2010/03/03		2.0		%	50
		Dibenz(a,h)anthracene	2010/03/03			80	%	60 - 130	
		Dibenz(a,h)anthracene	2010/03/03		1.6		%	50	
		Fluoranthene	2010/03/03			89	%	60 - 130	
		Fluoranthene	2010/03/03		9.8		%	50	
		Fluorene	2010/03/03			76	%	60 - 130	
		Fluorene	2010/03/03		3.9		%	50	
		Indeno(1,2,3-cd)pyrene	2010/03/03			79	%	60 - 130	
		Indeno(1,2,3-cd)pyrene	2010/03/03		2.1		%	50	
		Naphthalene	2010/03/03			82	%	60 - 130	
		Naphthalene	2010/03/03		0.5		%	50	
		Phenanthrene	2010/03/03			71	%	60 - 130	
Phenanthrene		2010/03/03		3.7		%	50		
Pyrene		2010/03/03			81	%	60 - 130		
Pyrene		2010/03/03		8.5		%	50		
Method Blank	D10-2-Methylnaphthalene	2010/03/03			83	%	50 - 150		
	D10-Fluoranthene	2010/03/03			94	%	50 - 150		
	D10-Phenanthrene	2010/03/03			95	%	50 - 150		
	D12-Benzo(a)anthracene	2010/03/03			83	%	50 - 150		
	D12-Benzo(a)pyrene	2010/03/03			96	%	50 - 150		
	D12-Benzo(b)fluoranthene	2010/03/03			110	%	50 - 150		
	D12-Benzo(ghi)perylene	2010/03/03			92	%	50 - 150		
	D12-Benzo(k)fluoranthene	2010/03/03			83	%	50 - 150		
D12-Chrysene	2010/03/03			103	%	50 - 150			

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB023243

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits	
2090086 WZ	Method Blank	D12-Indeno(1,2,3-cd)pyrene	2010/03/03		88	%	50 - 150	
		D12-Perylene	2010/03/03		99	%	50 - 150	
		D14-Dibenzo(a,h)anthracene	2010/03/03		89	%	50 - 150	
		D8-Acenaphthylene	2010/03/03		79	%	50 - 150	
		D8-Naphthalene	2010/03/03		83	%	50 - 150	
		1-Methylnaphthalene	2010/03/03		ND, RDL=0.10		ug	
		1-Methylphenanthrene	2010/03/03		ND, RDL=0.10		ug	
		2-Chloronaphthalene	2010/03/03		ND, RDL=0.10		ug	
		2-Methylantracene	2010/03/03		ND, RDL=0.10		ug	
		2-Methylnaphthalene	2010/03/03		ND, RDL=0.10		ug	
		3-Methylcholanthrene	2010/03/03		ND, RDL=2.0		ug	
		7,12-Dimethylbenzo(a)anthracene	2010/03/03		ND, RDL=0.10		ug	
		9,10-Dimethylantracene	2010/03/03		ND, RDL=0.40		ug	
		Acenaphthene	2010/03/03		ND, RDL=0.050		ug	
		Acenaphthylene	2010/03/03		ND, RDL=0.050		ug	
		Anthracene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(a)anthracene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(a)fluorene	2010/03/03		ND, RDL=0.10		ug	
		Benzo(a)pyrene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(b)fluoranthene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(b)fluorene	2010/03/03		ND, RDL=0.10		ug	
		Benzo(e)pyrene	2010/03/03		ND, RDL=0.10		ug	
		Benzo(g,h,i)perylene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(k)fluoranthene	2010/03/03		ND, RDL=0.050		ug	
		Biphenyl	2010/03/03		ND, RDL=0.10		ug	
		Chrysene	2010/03/03		ND, RDL=0.050		ug	
		Coronene	2010/03/03		ND, RDL=0.10		ug	
		Dibenz(a,h)anthracene	2010/03/03		ND, RDL=0.050		ug	
		Dibenzo(a,e)pyrene	2010/03/03		ND, RDL=0.20		ug	
		Fluoranthene	2010/03/03		ND, RDL=0.050		ug	
		Fluorene	2010/03/03		ND, RDL=0.050		ug	
		Indeno(1,2,3-cd)pyrene	2010/03/03		ND, RDL=0.050		ug	
		m-Terphenyl	2010/03/03		ND, RDL=0.10		ug	
		Naphthalene	2010/03/03		ND, RDL=0.072		ug	
		o-Terphenyl	2010/03/03		ND, RDL=0.10		ug	
		Perylene	2010/03/03		ND, RDL=0.10		ug	
		Phenanthrene	2010/03/03		ND, RDL=0.050		ug	
		p-Terphenyl	2010/03/03		ND, RDL=0.10		ug	
		Pyrene	2010/03/03		ND, RDL=0.050		ug	
		Quinoline	2010/03/03		ND, RDL=0.40		ug	
		Tetralin	2010/03/03		ND, RDL=0.10		ug	
2093792 S_S	Spiked Blank	Bromochloromethane	2010/03/04		105	%	60 - 140	
		D5-Chlorobenzene	2010/03/04		104	%	60 - 140	
		Difluorobenzene	2010/03/04		106	%	60 - 140	
		2,2,4-Trimethylpentane	2010/03/04		97	%	70 - 130	
		Carbon Disulfide	2010/03/04		84	%	70 - 130	
		Propene	2010/03/04		81	%	70 - 130	
		Vinyl Acetate	2010/03/04		104	%	70 - 130	
		Vinyl Bromide	2010/03/04		94	%	70 - 130	
		Dichlorodifluoromethane (FREON 12)	2010/03/04		95	%	70 - 130	
		1,2-Dichlorotetrafluoroethane	2010/03/04		80	%	70 - 130	
		Chloromethane	2010/03/04		82	%	70 - 130	
		Vinyl Chloride	2010/03/04		85	%	70 - 130	
		Chloroethane	2010/03/04		82	%	70 - 130	
		1,3-Butadiene	2010/03/04		76	%	70 - 130	

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB023243

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2093792 S_S	Spiked Blank	Trichlorofluoromethane (FREON 11)	2010/03/04		103	%	70 - 130
		Trichlorotrifluoroethane	2010/03/04		88	%	70 - 130
		Ethanol	2010/03/04		91	%	70 - 130
		2-propanol	2010/03/04		93	%	70 - 130
		2-Propanone	2010/03/04		110	%	70 - 130
		Methyl Ethyl Ketone (2-Butanone)	2010/03/04		112	%	70 - 130
		Methyl Isobutyl Ketone	2010/03/04		103	%	70 - 130
		Methyl Butyl Ketone (2-Hexanone)	2010/03/04		110	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/03/04		91	%	70 - 130
		Ethyl Acetate	2010/03/04		94	%	70 - 130
		1,1-Dichloroethylene	2010/03/04		96	%	70 - 130
		cis-1,2-Dichloroethylene	2010/03/04		91	%	70 - 130
		trans-1,2-Dichloroethylene	2010/03/04		92	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/03/04		84	%	70 - 130
		Chloroform	2010/03/04		91	%	70 - 130
		Carbon Tetrachloride	2010/03/04		111	%	70 - 130
		1,1-Dichloroethane	2010/03/04		86	%	70 - 130
		1,2-Dichloroethane	2010/03/04		98	%	70 - 130
		Ethylene Dibromide	2010/03/04		100	%	70 - 130
		1,1,1-Trichloroethane	2010/03/04		104	%	70 - 130
		1,1,2-Trichloroethane	2010/03/04		93	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/03/04		94	%	70 - 130
		cis-1,3-Dichloropropene	2010/03/04		104	%	70 - 130
		trans-1,3-Dichloropropene	2010/03/04		108	%	70 - 130
		1,2-Dichloropropane	2010/03/04		84	%	70 - 130
		Bromomethane	2010/03/04		83	%	70 - 130
		Bromoform	2010/03/04		124	%	70 - 130
		Bromodichloromethane	2010/03/04		111	%	70 - 130
		Dibromochloromethane	2010/03/04		117	%	70 - 130
		Heptane	2010/03/04		100	%	70 - 130
		Trichloroethylene	2010/03/04		93	%	70 - 130
		Tetrachloroethylene	2010/03/04		100	%	70 - 130
		Benzene	2010/03/04		82	%	70 - 130
		Toluene	2010/03/04		97	%	70 - 130
		Ethylbenzene	2010/03/04		96	%	70 - 130
		p+m-Xylene	2010/03/04		99	%	70 - 130
		o-Xylene	2010/03/04		102	%	70 - 130
		Styrene	2010/03/04		86	%	70 - 130
		1,3,5-Trimethylbenzene	2010/03/04		102	%	70 - 130
		1,2,4-Trimethylbenzene	2010/03/04		103	%	70 - 130
		4-ethyltoluene	2010/03/04		107	%	70 - 130
		Chlorobenzene	2010/03/04		91	%	70 - 130
		Benzyl chloride	2010/03/04		113	%	70 - 130
		1,3-Dichlorobenzene	2010/03/04		102	%	70 - 130
		1,4-Dichlorobenzene	2010/03/04		102	%	70 - 130
		1,2-Dichlorobenzene	2010/03/04		102	%	70 - 130
		1,2,4-Trichlorobenzene	2010/03/04		107	%	70 - 130
		Hexachlorobutadiene	2010/03/04		118	%	70 - 130
		Hexane	2010/03/04		91	%	70 - 130
		Cyclohexane	2010/03/04		101	%	70 - 130
		Tetrahydrofuran	2010/03/04		97	%	70 - 130
		1,4-Dioxane	2010/03/04		89	%	70 - 130
	Method Blank	Bromochloromethane	2010/03/04		86	%	60 - 140
		D5-Chlorobenzene	2010/03/04		72	%	60 - 140
		Difluorobenzene	2010/03/04		86	%	60 - 140

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB023243

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2093792 S_S	Method Blank	2,2,4-Trimethylpentane	2010/03/04	ND, RDL=0.20		ppbv	
		Carbon Disulfide	2010/03/04	ND, RDL=0.50		ppbv	
		Propene	2010/03/04	ND, RDL=0.30		ppbv	
		Vinyl Acetate	2010/03/04	ND, RDL=0.20		ppbv	
		Vinyl Bromide	2010/03/04	ND, RDL=0.20		ppbv	
		Dichlorodifluoromethane (FREON 12)	2010/03/04	ND, RDL=0.20		ppbv	
		1,2-Dichlorotetrafluoroethane	2010/03/04	ND, RDL=0.17		ppbv	
		Chloromethane	2010/03/04	ND, RDL=0.30		ppbv	
		Vinyl Chloride	2010/03/04	ND, RDL=0.18		ppbv	
		Chloroethane	2010/03/04	ND, RDL=0.30		ppbv	
		1,3-Butadiene	2010/03/04	ND, RDL=0.50		ppbv	
		Trichlorofluoromethane (FREON 11)	2010/03/04	ND, RDL=0.20		ppbv	
		Trichlorotrifluoroethane	2010/03/04	ND, RDL=0.15		ppbv	
		Ethanol	2010/03/04	ND, RDL=2.3		ppbv	
		2-propanol	2010/03/04	ND, RDL=3.0		ppbv	
		2-Propanone	2010/03/04	ND, RDL=0.80		ppbv	
		Methyl Ethyl Ketone (2-Butanone)	2010/03/04	ND, RDL=3.0		ppbv	
		Methyl Isobutyl Ketone	2010/03/04	ND, RDL=3.2		ppbv	
		Methyl Butyl Ketone (2-Hexanone)	2010/03/04	ND, RDL=2.0		ppbv	
		Methyl t-butyl ether (MTBE)	2010/03/04	ND, RDL=0.20		ppbv	
		Ethyl Acetate	2010/03/04	ND, RDL=2.2		ppbv	
		1,1-Dichloroethylene	2010/03/04	ND, RDL=0.25		ppbv	
		cis-1,2-Dichloroethylene	2010/03/04	ND, RDL=0.19		ppbv	
		trans-1,2-Dichloroethylene	2010/03/04	ND, RDL=0.20		ppbv	
		Methylene Chloride(Dichloromethane)	2010/03/04	ND, RDL=0.30		ppbv	
		Chloroform	2010/03/04	ND, RDL=0.15		ppbv	
		Carbon Tetrachloride	2010/03/04	ND, RDL=0.30		ppbv	
		1,1-Dichloroethane	2010/03/04	ND, RDL=0.20		ppbv	
		1,2-Dichloroethane	2010/03/04	ND, RDL=0.20		ppbv	
		Ethylene Dibromide	2010/03/04	ND, RDL=0.17		ppbv	
		1,1,1-Trichloroethane	2010/03/04	ND, RDL=0.30		ppbv	
		1,1,2-Trichloroethane	2010/03/04	ND, RDL=0.15		ppbv	
		1,1,2,2-Tetrachloroethane	2010/03/04	ND, RDL=0.20		ppbv	
		cis-1,3-Dichloropropene	2010/03/04	ND, RDL=0.18		ppbv	
		trans-1,3-Dichloropropene	2010/03/04	ND, RDL=0.17		ppbv	
		1,2-Dichloropropane	2010/03/04	ND, RDL=0.40		ppbv	
		Bromomethane	2010/03/04	ND, RDL=0.18		ppbv	
		Bromoform	2010/03/04	ND, RDL=0.20		ppbv	
		Bromodichloromethane	2010/03/04	ND, RDL=0.20		ppbv	
		Dibromochloromethane	2010/03/04	ND, RDL=0.20		ppbv	
		Heptane	2010/03/04	ND, RDL=0.30		ppbv	
		Trichloroethylene	2010/03/04	ND, RDL=0.30		ppbv	
		Tetrachloroethylene	2010/03/04	ND, RDL=0.20		ppbv	
		Benzene	2010/03/04	ND, RDL=0.18		ppbv	
		Toluene	2010/03/04	ND, RDL=0.20		ppbv	
		Ethylbenzene	2010/03/04	ND, RDL=0.20		ppbv	
		p+m-Xylene	2010/03/04	ND, RDL=0.37		ppbv	
		o-Xylene	2010/03/04	ND, RDL=0.20		ppbv	
		Styrene	2010/03/04	ND, RDL=0.20		ppbv	
		1,3,5-Trimethylbenzene	2010/03/04	ND, RDL=0.50		ppbv	
		1,2,4-Trimethylbenzene	2010/03/04	ND, RDL=0.50		ppbv	
		4-ethyltoluene	2010/03/04	ND, RDL=2.2		ppbv	
		Chlorobenzene	2010/03/04	ND, RDL=0.20		ppbv	
		Benzyl chloride	2010/03/04	ND, RDL=1.0		ppbv	
		1,3-Dichlorobenzene	2010/03/04	ND, RDL=0.40		ppbv	

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB023243

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2093792 S_S	Method Blank	1,4-Dichlorobenzene	2010/03/04	ND, RDL=0.40		ppbv	
		1,2-Dichlorobenzene	2010/03/04	ND, RDL=0.40		ppbv	
		1,2,4-Trichlorobenzene	2010/03/04	ND, RDL=2.0		ppbv	
		Hexachlorobutadiene	2010/03/04	ND, RDL=3.0		ppbv	
		Hexane	2010/03/04	ND, RDL=0.30		ppbv	
		Cyclohexane	2010/03/04	ND, RDL=0.20		ppbv	
		Tetrahydrofuran	2010/03/04	ND, RDL=0.40		ppbv	
		1,4-Dioxane	2010/03/04	ND, RDL=2.0		ppbv	
		Xylene (Total)	2010/03/04	ND, RDL=0.60		ppbv	
	RPD - Sample/Sample Dup	2,2,4-Trimethylpentane	2010/03/04	NC		%	25
		Carbon Disulfide	2010/03/04	NC		%	25
		Propene	2010/03/04	NC		%	25
		Vinyl Acetate	2010/03/04	NC		%	25
		Vinyl Bromide	2010/03/04	NC		%	25
		Dichlorodifluoromethane (FREON 12)	2010/03/04	NC		%	25
		1,2-Dichlorotetrafluoroethane	2010/03/04	NC		%	25
		Chloromethane	2010/03/04	NC		%	25
		Vinyl Chloride	2010/03/04	NC		%	25
		Chloroethane	2010/03/04	NC		%	25
		1,3-Butadiene	2010/03/04	NC		%	25
		Trichlorofluoromethane (FREON 11)	2010/03/04	NC		%	25
		Trichlorotrifluoroethane	2010/03/04	NC		%	25
		Ethanol	2010/03/04	NC		%	25
		2-propanol	2010/03/04	NC		%	25
		2-Propanone	2010/03/04	NC		%	25
		Methyl Ethyl Ketone (2-Butanone)	2010/03/04	NC		%	25
		Methyl Isobutyl Ketone	2010/03/04	NC		%	25
		Methyl Butyl Ketone (2-Hexanone)	2010/03/04	NC		%	25
		Methyl t-butyl ether (MTBE)	2010/03/04	NC		%	25
		Ethyl Acetate	2010/03/04	NC		%	25
		1,1-Dichloroethylene	2010/03/04	NC		%	25
		cis-1,2-Dichloroethylene	2010/03/04	NC		%	25
		trans-1,2-Dichloroethylene	2010/03/04	NC		%	25
		Methylene Chloride(Dichloromethane)	2010/03/04	NC		%	25
		Chloroform	2010/03/04	NC		%	25
		Carbon Tetrachloride	2010/03/04	NC		%	25
		1,1-Dichloroethane	2010/03/04	NC		%	25
		1,2-Dichloroethane	2010/03/04	NC		%	25
		Ethylene Dibromide	2010/03/04	NC		%	25
		1,1,1-Trichloroethane	2010/03/04	NC		%	25
		1,1,2-Trichloroethane	2010/03/04	NC		%	25
		1,1,2,2-Tetrachloroethane	2010/03/04	NC		%	25
		cis-1,3-Dichloropropene	2010/03/04	NC		%	25
		trans-1,3-Dichloropropene	2010/03/04	NC		%	25
		1,2-Dichloropropane	2010/03/04	NC		%	25
		Bromomethane	2010/03/04	NC		%	25
		Bromoform	2010/03/04	NC		%	25
		Bromodichloromethane	2010/03/04	NC		%	25
		Dibromochloromethane	2010/03/04	NC		%	25
		Heptane	2010/03/04	NC		%	25
		Trichloroethylene	2010/03/04	NC		%	25
		Tetrachloroethylene	2010/03/04	NC		%	25
		Benzene	2010/03/04	NC		%	25

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB023243

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2093792 S_S	RPD - Sample/Sample Dup	Toluene	2010/03/04	NC		%	25
		Ethylbenzene	2010/03/04	NC		%	25
		p+m-Xylene	2010/03/04	NC		%	25
		o-Xylene	2010/03/04	NC		%	25
		Styrene	2010/03/04	NC		%	25
		1,3,5-Trimethylbenzene	2010/03/04	NC		%	25
		1,2,4-Trimethylbenzene	2010/03/04	NC		%	25
		4-ethyltoluene	2010/03/04	NC		%	25
		Chlorobenzene	2010/03/04	NC		%	25
		Benzyl chloride	2010/03/04	NC		%	25
		1,3-Dichlorobenzene	2010/03/04	NC		%	25
		1,4-Dichlorobenzene	2010/03/04	NC		%	25
		1,2-Dichlorobenzene	2010/03/04	NC		%	25
		1,2,4-Trichlorobenzene	2010/03/04	NC		%	25
		Hexachlorobutadiene	2010/03/04	NC		%	25
		Hexane	2010/03/04	NC		%	25
		Cyclohexane	2010/03/04	NC		%	25
		Tetrahydrofuran	2010/03/04	NC		%	25
		1,4-Dioxane	2010/03/04	NC		%	25
		Xylene (Total)	2010/03/04	NC		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Maxxam Analytics Inc.

Xontech Model 910A VOC Sample Collection Data Sheet

Client: LICA Sampler s/n: 6200
 Location: 13-16-62-5 W4M Canister ID: 7788 (Maxxam Supplied)
 Station ID: Lica 33 (Portable) Canister Installation Date/Time: Feb 24, 10 @ 08:50 mst
 Field Sample ID: LICA VOC/PORT/ Feb 25, 10 Canister Removal Date/Time: Mar 2, 10 @ 09:30 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
25-Feb-10	02/25/2010 0:00	02/26/2010 0:00	24.00

Flow Settings		
Meter Reading (sccm)	Pot Set Pt.	Pump Pressure Setting (psig)
10.0	1478	25

Canister Information	
Initial Canister Vacuum (inHg)	Final Canister Pressure (psig)
-28	21

Canister valve open prior to sampling?: YES / NO
Timer set to 0.00 minutes prior to sampling? YES / NO
Canister valve closed prior to disconnection?: YES / NO

Comments: System leak check prior to sampling. COC# 2802

Technician Signature: Shea Beaton



Your C.O.C. #: 2802

Attention: Michael Bisaga

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/19

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B027274

Received: 2010/03/08, 10:23

Sample Matrix: AIR
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Canister Pressure (TO-15)	2	N/A	2010/03/16	BRL SOP-00304	EPA TO-15
Volatile Organics in Air (TO-15) ¶	2	N/A	2010/03/16	BRL SOP-00304	EPA TO-15

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO14A. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO14A on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Maxxam for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

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

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Total cover pages: 1

Maxxam Job #: B027274
 Report Date: 2010/03/19

RESULTS OF ANALYSES OF AIR

Maxxam ID		FG6783	FG6784	
Sampling Date		2010/02/25 00:00	2010/02/25 00:00	
COC Number		2802	2802	
	Units	LICA	LICA	QC Batch
		VOC/CLS/FEB25,10	VOC/PORT/FEB25,10	

Volatile Organics				
Pressure on Receipt	psig	20	20	2102505

QC Batch = Quality Control Batch

Maxxam Job #: B027274
 Report Date: 2010/03/19

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FG6783				
Sampling Date		2010/02/25 00:00				
COC Number		2802				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/CLS/FEB25,10				

Volatile Organics						
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.934	0.934	2102500
Carbon Disulfide	ppbv	<0.50	0.50	<1.56	1.56	2102500
Propene	ppbv	<0.30	0.30	<0.516	0.516	2102500
Vinyl Acetate	ppbv	<0.20	0.20	<0.704	0.704	2102500
Vinyl Bromide	ppbv	<0.20	0.20	<0.875	0.875	2102500
Dichlorodifluoromethane (FREON 12)	ppbv	0.59	0.20	2.92	0.989	2102500
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<1.19	1.19	2102500
Chloromethane	ppbv	0.45	0.30	0.931	0.620	2102500
Vinyl Chloride	ppbv	<0.18	0.18	<0.460	0.460	2102500
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	2102500
1,3-Butadiene	ppbv	<0.50	0.50	<1.11	1.11	2102500
Trichlorofluoromethane (FREON 11)	ppbv	0.28	0.20	1.59	1.12	2102500
Trichlorotrifluoroethane	ppbv	<0.15	0.15	<1.15	1.15	2102500
Ethanol	ppbv	<2.3	2.3	<4.33	4.33	2102500
2-propanol	ppbv	<3.0	3.0	<7.37	7.37	2102500
2-Propanone	ppbv	1.38	0.80	3.28	1.90	2102500
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	3.0	<8.85	8.85	2102500
Methyl Isobutyl Ketone	ppbv	<3.2	3.2	<13.1	13.1	2102500
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	2.0	<8.19	8.19	2102500
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.721	0.721	2102500
Ethyl Acetate	ppbv	<2.2	2.2	<7.93	7.93	2102500
1,1-Dichloroethylene	ppbv	<0.25	0.25	<0.991	0.991	2102500
cis-1,2-Dichloroethylene	ppbv	<0.19	0.19	<0.753	0.753	2102500
trans-1,2-Dichloroethylene	ppbv	<0.20	0.20	<0.793	0.793	2102500
Methylene Chloride(Dichloromethane)	ppbv	0.51	0.30	1.78	1.04	2102500
Chloroform	ppbv	<0.15	0.15	<0.732	0.732	2102500
Carbon Tetrachloride	ppbv	<0.30	0.30	<1.89	1.89	2102500
1,1-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2102500
1,2-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2102500
Ethylene Dibromide	ppbv	<0.17	0.17	<1.31	1.31	2102500
1,1,1-Trichloroethane	ppbv	<0.30	0.30	<1.64	1.64	2102500

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B027274
 Report Date: 2010/03/19

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FG6783				
Sampling Date		2010/02/25 00:00				
COC Number		2802				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/CLS/FEB25,10				
1,1,2-Trichloroethane	ppbv	<0.15	0.15	<0.818	0.818	2102500
1,1,2,2-Tetrachloroethane	ppbv	<0.20	0.20	<1.37	1.37	2102500
cis-1,3-Dichloropropene	ppbv	<0.18	0.18	<0.817	0.817	2102500
trans-1,3-Dichloropropene	ppbv	<0.17	0.17	<0.772	0.772	2102500
1,2-Dichloropropane	ppbv	<0.40	0.40	<1.85	1.85	2102500
Bromomethane	ppbv	<0.18	0.18	<0.699	0.699	2102500
Bromoform	ppbv	<0.20	0.20	<2.07	2.07	2102500
Bromodichloromethane	ppbv	<0.20	0.20	<1.34	1.34	2102500
Dibromochloromethane	ppbv	<0.20	0.20	<1.70	1.70	2102500
Heptane	ppbv	<0.30	0.30	<1.23	1.23	2102500
Trichloroethylene	ppbv	<0.30	0.30	<1.61	1.61	2102500
Tetrachloroethylene	ppbv	<0.20	0.20	<1.36	1.36	2102500
Benzene	ppbv	0.26	0.18	0.816	0.575	2102500
Toluene	ppbv	0.27	0.20	1.02	0.753	2102500
Ethylbenzene	ppbv	<0.20	0.20	<0.868	0.868	2102500
p+m-Xylene	ppbv	<0.37	0.37	<1.61	1.61	2102500
o-Xylene	ppbv	<0.20	0.20	<0.868	0.868	2102500
Styrene	ppbv	<0.20	0.20	<0.852	0.852	2102500
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2102500
1,2,4-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2102500
4-ethyltoluene	ppbv	<2.2	2.2	<10.8	10.8	2102500
Chlorobenzene	ppbv	<0.20	0.20	<0.921	0.921	2102500
Benzyl chloride	ppbv	<1.0	1.0	<5.18	5.18	2102500
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2102500
1,4-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2102500
1,2-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2102500
1,2,4-Trichlorobenzene	ppbv	<2.0	2.0	<14.8	14.8	2102500
Hexachlorobutadiene	ppbv	<3.0	3.0	<32.0	32.0	2102500
Hexane	ppbv	<0.30	0.30	<1.06	1.06	2102500
Cyclohexane	ppbv	<0.20	0.20	<0.688	0.688	2102500
Tetrahydrofuran	ppbv	<0.40	0.40	<1.18	1.18	2102500
1,4-Dioxane	ppbv	<2.0	2.0	<7.21	7.21	2102500
Xylene (Total)	ppbv	<0.60	0.60	<2.61	2.61	2102500
QC Batch = Quality Control Batch						

Maxxam Job #: B027274
 Report Date: 2010/03/19

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FG6783				
Sampling Date		2010/02/25 00:00				
COC Number		2802				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/CLS/FEB25,10				

Surrogate Recovery (%)						
Bromochloromethane	%	86		N/A	N/A	2102500
D5-Chlorobenzene	%	92		N/A	N/A	2102500
Difluorobenzene	%	88		N/A	N/A	2102500

N/A = Not Applicable
 QC Batch = Quality Control Batch

Maxxam Job #: B027274
 Report Date: 2010/03/19

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FG6784				
Sampling Date		2010/02/25 00:00				
COC Number		2802				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/PORT/FEB25,10				

Volatile Organics						
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.934	0.934	2102500
Carbon Disulfide	ppbv	<0.50	0.50	<1.56	1.56	2102500
Propene	ppbv	<0.30	0.30	<0.516	0.516	2102500
Vinyl Acetate	ppbv	<0.20	0.20	<0.704	0.704	2102500
Vinyl Bromide	ppbv	<0.20	0.20	<0.875	0.875	2102500
Dichlorodifluoromethane (FREON 12)	ppbv	0.60	0.20	2.98	0.989	2102500
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<1.19	1.19	2102500
Chloromethane	ppbv	0.45	0.30	0.926	0.620	2102500
Vinyl Chloride	ppbv	<0.18	0.18	<0.460	0.460	2102500
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	2102500
1,3-Butadiene	ppbv	<0.50	0.50	<1.11	1.11	2102500
Trichlorofluoromethane (FREON 11)	ppbv	0.28	0.20	1.59	1.12	2102500
Trichlorotrifluoroethane	ppbv	<0.15	0.15	<1.15	1.15	2102500
Ethanol	ppbv	<2.3	2.3	<4.33	4.33	2102500
2-propanol	ppbv	<3.0	3.0	<7.37	7.37	2102500
2-Propanone	ppbv	1.92	0.80	4.55	1.90	2102500
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	3.0	<8.85	8.85	2102500
Methyl Isobutyl Ketone	ppbv	<3.2	3.2	<13.1	13.1	2102500
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	2.0	<8.19	8.19	2102500
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.721	0.721	2102500
Ethyl Acetate	ppbv	<2.2	2.2	<7.93	7.93	2102500
1,1-Dichloroethylene	ppbv	<0.25	0.25	<0.991	0.991	2102500
cis-1,2-Dichloroethylene	ppbv	<0.19	0.19	<0.753	0.753	2102500
trans-1,2-Dichloroethylene	ppbv	<0.20	0.20	<0.793	0.793	2102500
Methylene Chloride(Dichloromethane)	ppbv	0.56	0.30	1.93	1.04	2102500
Chloroform	ppbv	<0.15	0.15	<0.732	0.732	2102500
Carbon Tetrachloride	ppbv	<0.30	0.30	<1.89	1.89	2102500
1,1-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2102500
1,2-Dichloroethane	ppbv	<0.20	0.20	<0.809	0.809	2102500
Ethylene Dibromide	ppbv	<0.17	0.17	<1.31	1.31	2102500
1,1,1-Trichloroethane	ppbv	<0.30	0.30	<1.64	1.64	2102500

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B027274
 Report Date: 2010/03/19

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FG6784				
Sampling Date		2010/02/25 00:00				
COC Number		2802				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/PORT/FEB25,10				
1,1,2-Trichloroethane	ppbv	<0.15	0.15	<0.818	0.818	2102500
1,1,2,2-Tetrachloroethane	ppbv	<0.20	0.20	<1.37	1.37	2102500
cis-1,3-Dichloropropene	ppbv	<0.18	0.18	<0.817	0.817	2102500
trans-1,3-Dichloropropene	ppbv	<0.17	0.17	<0.772	0.772	2102500
1,2-Dichloropropane	ppbv	<0.40	0.40	<1.85	1.85	2102500
Bromomethane	ppbv	<0.18	0.18	<0.699	0.699	2102500
Bromoform	ppbv	<0.20	0.20	<2.07	2.07	2102500
Bromodichloromethane	ppbv	<0.20	0.20	<1.34	1.34	2102500
Dibromochloromethane	ppbv	<0.20	0.20	<1.70	1.70	2102500
Heptane	ppbv	<0.30	0.30	<1.23	1.23	2102500
Trichloroethylene	ppbv	<0.30	0.30	<1.61	1.61	2102500
Tetrachloroethylene	ppbv	<0.20	0.20	<1.36	1.36	2102500
Benzene	ppbv	0.21	0.18	0.667	0.575	2102500
Toluene	ppbv	<0.20	0.20	<0.753	0.753	2102500
Ethylbenzene	ppbv	<0.20	0.20	<0.868	0.868	2102500
p+m-Xylene	ppbv	<0.37	0.37	<1.61	1.61	2102500
o-Xylene	ppbv	<0.20	0.20	<0.868	0.868	2102500
Styrene	ppbv	<0.20	0.20	<0.852	0.852	2102500
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2102500
1,2,4-Trimethylbenzene	ppbv	<0.50	0.50	<2.46	2.46	2102500
4-ethyltoluene	ppbv	<2.2	2.2	<10.8	10.8	2102500
Chlorobenzene	ppbv	<0.20	0.20	<0.921	0.921	2102500
Benzyl chloride	ppbv	<1.0	1.0	<5.18	5.18	2102500
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2102500
1,4-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2102500
1,2-Dichlorobenzene	ppbv	<0.40	0.40	<2.40	2.40	2102500
1,2,4-Trichlorobenzene	ppbv	<2.0	2.0	<14.8	14.8	2102500
Hexachlorobutadiene	ppbv	<3.0	3.0	<32.0	32.0	2102500
Hexane	ppbv	0.46	0.30	1.61	1.06	2102500
Cyclohexane	ppbv	0.40	0.20	1.36	0.688	2102500
Tetrahydrofuran	ppbv	<0.40	0.40	<1.18	1.18	2102500
1,4-Dioxane	ppbv	<2.0	2.0	<7.21	7.21	2102500
Xylene (Total)	ppbv	<0.60	0.60	<2.61	2.61	2102500
QC Batch = Quality Control Batch						

Maxxam Job #: B027274
 Report Date: 2010/03/19

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FG6784				
Sampling Date		2010/02/25 00:00				
COC Number		2802				
	Units	LICA	RDL	ug/m3	DL (ug/m3)	QC Batch
		VOC/PORT/FEB25,10				

Surrogate Recovery (%)						
Bromochloromethane	%	84		N/A	N/A	2102500
D5-Chlorobenzene	%	92		N/A	N/A	2102500
Difluorobenzene	%	87		N/A	N/A	2102500

N/A = Not Applicable
 QC Batch = Quality Control Batch

Maxxam Job #: B027274
Report Date: 2010/03/19

GENERAL COMMENTS

VOCTO15M-A
Benzyl Chloride and 1,2,4-trichlorobenzene are above 40% RSD in initial calibration.
No positives found for these compounds.

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Michael Bisaga
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: GB027274

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2102500 VEA	Spiked Blank	Bromochloromethane	2010/03/16		102	%	60 - 140
		D5-Chlorobenzene	2010/03/16		110	%	60 - 140
		Difluorobenzene	2010/03/16		105	%	60 - 140
		2,2,4-Trimethylpentane	2010/03/16		106	%	70 - 130
		Carbon Disulfide	2010/03/16		97	%	70 - 130
		Propene	2010/03/16		100	%	70 - 130
		Vinyl Acetate	2010/03/16		112	%	70 - 130
		Vinyl Bromide	2010/03/16		103	%	70 - 130
		Dichlorodifluoromethane (FREON 12)	2010/03/16		97	%	70 - 130
		1,2-Dichlorotetrafluoroethane	2010/03/16		87	%	70 - 130
		Chloromethane	2010/03/16		93	%	70 - 130
		Vinyl Chloride	2010/03/16		104	%	70 - 130
		Chloroethane	2010/03/16		102	%	70 - 130
		1,3-Butadiene	2010/03/16		83	%	70 - 130
		Trichlorofluoromethane (FREON 11)	2010/03/16		94	%	70 - 130
		Trichlorotrifluoroethane	2010/03/16		99	%	70 - 130
		Ethanol	2010/03/16		101	%	70 - 130
		2-propanol	2010/03/16		97	%	70 - 130
		2-Propanone	2010/03/16		101	%	70 - 130
		Methyl Ethyl Ketone (2-Butanone)	2010/03/16		107	%	70 - 130
		Methyl Isobutyl Ketone	2010/03/16		100	%	70 - 130
		Methyl Butyl Ketone (2-Hexanone)	2010/03/16		105	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/03/16		103	%	70 - 130
		Ethyl Acetate	2010/03/16		101	%	70 - 130
		1,1-Dichloroethylene	2010/03/16		102	%	70 - 130
		cis-1,2-Dichloroethylene	2010/03/16		105	%	70 - 130
		trans-1,2-Dichloroethylene	2010/03/16		93	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/03/16		87	%	70 - 130
		Chloroform	2010/03/16		98	%	70 - 130
		Carbon Tetrachloride	2010/03/16		101	%	70 - 130
		1,1-Dichloroethane	2010/03/16		99	%	70 - 130
		1,2-Dichloroethane	2010/03/16		97	%	70 - 130
		Ethylene Dibromide	2010/03/16		101	%	70 - 130
		1,1,1-Trichloroethane	2010/03/16		99	%	70 - 130
		1,1,2-Trichloroethane	2010/03/16		99	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/03/16		101	%	70 - 130
		cis-1,3-Dichloropropene	2010/03/16		116	%	70 - 130
		trans-1,3-Dichloropropene	2010/03/16		120	%	70 - 130
		1,2-Dichloropropane	2010/03/16		99	%	70 - 130
		Bromomethane	2010/03/16		96	%	70 - 130
		Bromoform	2010/03/16		103	%	70 - 130
		Bromodichloromethane	2010/03/16		100	%	70 - 130
		Dibromochloromethane	2010/03/16		101	%	70 - 130
		Heptane	2010/03/16		104	%	70 - 130
		Trichloroethylene	2010/03/16		100	%	70 - 130
		Tetrachloroethylene	2010/03/16		101	%	70 - 130
		Benzene	2010/03/16		103	%	70 - 130
		Toluene	2010/03/16		109	%	70 - 130
		Ethylbenzene	2010/03/16		113	%	70 - 130
		p+m-Xylene	2010/03/16		110	%	70 - 130
		o-Xylene	2010/03/16		107	%	70 - 130
		Styrene	2010/03/16		105	%	70 - 130
		1,3,5-Trimethylbenzene	2010/03/16		104	%	70 - 130
		1,2,4-Trimethylbenzene	2010/03/16		110	%	70 - 130
		4-ethyltoluene	2010/03/16		110	%	70 - 130

Lakeland Industry & Community Assoc.
 Attention: Michael Bisaga
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB027274

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits	
2102500 VEA	Spiked Blank	Chlorobenzene	2010/03/16		99	%	70 - 130	
		Benzyl chloride	2010/03/16		136 (1)	%	70 - 130	
1,3-Dichlorobenzene		2010/03/16		108	%	70 - 130		
1,4-Dichlorobenzene		2010/03/16		103	%	70 - 130		
1,2-Dichlorobenzene		2010/03/16		105	%	70 - 130		
1,2,4-Trichlorobenzene		2010/03/16		110	%	70 - 130		
Hexachlorobutadiene		2010/03/16		90	%	70 - 130		
Hexane		2010/03/16		99	%	70 - 130		
Cyclohexane		2010/03/16		105	%	70 - 130		
Tetrahydrofuran		2010/03/16		106	%	70 - 130		
Method Blank	Method Blank	1,4-Dioxane	2010/03/16		107	%	70 - 130	
		Bromochloromethane	2010/03/16		92	%	60 - 140	
		D5-Chlorobenzene	2010/03/16		96	%	60 - 140	
		Difluorobenzene	2010/03/16		93	%	60 - 140	
		2,2,4-Trimethylpentane	2010/03/16	ND, RDL=0.20			ppbv	
		Carbon Disulfide	2010/03/16	ND, RDL=0.50			ppbv	
		Propene	2010/03/16	ND, RDL=0.30			ppbv	
		Vinyl Acetate	2010/03/16	ND, RDL=0.20			ppbv	
		Vinyl Bromide	2010/03/16	ND, RDL=0.20			ppbv	
		Dichlorodifluoromethane (FREON 12)	2010/03/16	ND, RDL=0.20			ppbv	
		1,2-Dichlorotetrafluoroethane	2010/03/16	ND, RDL=0.17			ppbv	
		Chloromethane	2010/03/16	ND, RDL=0.30			ppbv	
		Vinyl Chloride	2010/03/16	ND, RDL=0.18			ppbv	
		Chloroethane	2010/03/16	ND, RDL=0.30			ppbv	
		1,3-Butadiene	2010/03/16	ND, RDL=0.50			ppbv	
		Trichlorofluoromethane (FREON 11)	2010/03/16	ND, RDL=0.20			ppbv	
		Trichlorotrifluoroethane	2010/03/16	ND, RDL=0.15			ppbv	
		Ethanol	2010/03/16	ND, RDL=2.3			ppbv	
		2-propanol	2010/03/16	ND, RDL=3.0			ppbv	
		2-Propanone	2010/03/16	ND, RDL=0.80			ppbv	
		Methyl Ethyl Ketone (2-Butanone)	2010/03/16	ND, RDL=3.0			ppbv	
		Methyl Isobutyl Ketone	2010/03/16	ND, RDL=3.2			ppbv	
		Methyl Butyl Ketone (2-Hexanone)	2010/03/16	ND, RDL=2.0			ppbv	
		Methyl t-butyl ether (MTBE)	2010/03/16	ND, RDL=0.20			ppbv	
		Ethyl Acetate	2010/03/16	ND, RDL=2.2			ppbv	
		1,1-Dichloroethylene	2010/03/16	ND, RDL=0.25			ppbv	
		cis-1,2-Dichloroethylene	2010/03/16	ND, RDL=0.19			ppbv	
		trans-1,2-Dichloroethylene	2010/03/16	ND, RDL=0.20			ppbv	
		Methylene Chloride(Dichloromethane)	2010/03/16	0.47, RDL=0.30			ppbv	
		Chloroform	2010/03/16	ND, RDL=0.15			ppbv	
		Carbon Tetrachloride	2010/03/16	ND, RDL=0.30			ppbv	
		1,1-Dichloroethane	2010/03/16	ND, RDL=0.20			ppbv	
		1,2-Dichloroethane	2010/03/16	ND, RDL=0.20			ppbv	
		Ethylene Dibromide	2010/03/16	ND, RDL=0.17			ppbv	
		1,1,1-Trichloroethane	2010/03/16	ND, RDL=0.30			ppbv	
		1,1,2-Trichloroethane	2010/03/16	ND, RDL=0.15			ppbv	
		1,1,2,2-Tetrachloroethane	2010/03/16	ND, RDL=0.20			ppbv	
		cis-1,3-Dichloropropene	2010/03/16	ND, RDL=0.18			ppbv	
trans-1,3-Dichloropropene	2010/03/16	ND, RDL=0.17			ppbv			
1,2-Dichloropropane	2010/03/16	ND, RDL=0.40			ppbv			
Bromomethane	2010/03/16	ND, RDL=0.18			ppbv			
Bromoform	2010/03/16	ND, RDL=0.20			ppbv			
Bromodichloromethane	2010/03/16	ND, RDL=0.20			ppbv			
Dibromochloromethane	2010/03/16	ND, RDL=0.20			ppbv			
Heptane	2010/03/16	ND, RDL=0.30			ppbv			

Lakeland Industry & Community Assoc.
 Attention: Michael Bisaga
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB027274

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2102500 VEA	Method Blank	Trichloroethylene	2010/03/16	ND, RDL=0.30		ppbv	
		Tetrachloroethylene	2010/03/16	ND, RDL=0.20		ppbv	
		Benzene	2010/03/16	ND, RDL=0.18		ppbv	
		Toluene	2010/03/16	ND, RDL=0.20		ppbv	
		Ethylbenzene	2010/03/16	ND, RDL=0.20		ppbv	
		p+m-Xylene	2010/03/16	ND, RDL=0.37		ppbv	
		o-Xylene	2010/03/16	ND, RDL=0.20		ppbv	
		Styrene	2010/03/16	ND, RDL=0.20		ppbv	
		1,3,5-Trimethylbenzene	2010/03/16	ND, RDL=0.50		ppbv	
		1,2,4-Trimethylbenzene	2010/03/16	ND, RDL=0.50		ppbv	
		4-ethyltoluene	2010/03/16	ND, RDL=2.2		ppbv	
		Chlorobenzene	2010/03/16	ND, RDL=0.20		ppbv	
		Benzyl chloride	2010/03/16	ND, RDL=1.0		ppbv	
		1,3-Dichlorobenzene	2010/03/16	ND, RDL=0.40		ppbv	
		1,4-Dichlorobenzene	2010/03/16	ND, RDL=0.40		ppbv	
		1,2-Dichlorobenzene	2010/03/16	ND, RDL=0.40		ppbv	
		1,2,4-Trichlorobenzene	2010/03/16	ND, RDL=2.0		ppbv	
		Hexachlorobutadiene	2010/03/16	ND, RDL=3.0		ppbv	
		Hexane	2010/03/16	ND, RDL=0.30		ppbv	
		Cyclohexane	2010/03/16	ND, RDL=0.20		ppbv	
		Tetrahydrofuran	2010/03/16	ND, RDL=0.40		ppbv	
		1,4-Dioxane	2010/03/16	ND, RDL=2.0		ppbv	
		Xylene (Total)	2010/03/16	ND, RDL=0.60		ppbv	

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 (1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Polycyclic Aromatic Hydrocarbons Laboratory Analysis

Maxxam Analytics Inc.

Tisch Hi-Vol PUF+ Sample Collection Data Sheet

Client: Lica
 Location: 13-16-62-5 W4M
 Station ID: Lica 33 (Portable)
 Field Sample ID: LICA PUF/PORT/Jan 26, 10

Puf+ s/n: 100-1015
 Motor s/n: 1139
 Installation Date/Time: Jan 25, 10 @ 11:40 mst
 Removal Date/Time: Jan 27, 10 @ 09:45 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
26-Jan-10	01/26/2010 0:00	01/27/2010 0:00	24.00

PUF and QFF Information			
Date Received	Date Shipped	Puf Expiration Date	QFF Prep Date
22-Jan-10	27-Jan-10	15-Feb-10	????

Set Flow Rate (slpm): 230

Date of Last Calibration: 02-Oct-09

Sampling Data			
Average Pressure(mmHg)	AverageFlow (Qstd slpm)	Average Temperature (C)	Volume (Vstd m ³)
721	229	-18	330.30

Time set correctly prior to sampling? YES
Timer set correctly prior to sampling? YES
Sampling data saved to memory card after sampling? YES

Comments: COC # 1041

GA9H1989 PUFF#2

Ran with a 102mm Quartz Fiber Filter - Sample ID - LICA QFF/PORT/Jan 26, 10

Technician Signature: _____



Your C.O.C. #: 1041

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/02/16

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B010335

Received: 2010/01/28, 08:59

Sample Matrix: PUF AND FILTER

Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PAH's in Air (CARB429mod)	2	2010/02/02	2010/02/12	BRL SOP-00201	CARB429(ARBM1,M2)mod

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

=====

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

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Total cover pages: 1

Maxxam Job #: B010335
 Report Date: 2010/02/16

SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Maxxam ID		EY4457	EY4458		
Sampling Date		2010/01/26 00:00	2010/01/26 00:00		
COC Number		1041	1041		
	Units	LICA QFF/CLS/JAN 26,10	LICA QFF/PORT/JAN 26,10	DL	QC Batch

Semivolatile Organics					
1-Methylnaphthalene	ug	0.48	0.40	0.10	2069785
1-Methylphenanthrene	ug	<0.10	<0.10	0.10	2069785
2-Chloronaphthalene	ug	<0.10	<0.10	0.10	2069785
2-Methylantracene	ug	<0.10	<0.10	0.10	2069785
2-Methylnaphthalene	ug	0.81	0.61	0.10	2069785
3-Methylcholanthrene	ug	<2.0	<2.0	2.0	2069785
7,12-Dimethylbenzo(a)anthracene	ug	<0.10	<0.10	0.10	2069785
9,10-Dimethylantracene	ug	<0.40	<0.40	0.40	2069785
Acenaphthene	ug	0.057	0.077	0.050	2069785
Acenaphthylene	ug	0.063	0.104	0.050	2069785
Anthracene	ug	<0.050	<0.050	0.050	2069785
Benzo(a)anthracene	ug	<0.050	<0.050	0.050	2069785
Benzo(a)fluorene	ug	<0.10	<0.10	0.10	2069785
Benzo(a)pyrene	ug	<0.050	<0.050	0.050	2069785
Benzo(b)fluoranthene	ug	<0.050	0.055	0.050	2069785
Benzo(b)fluorene	ug	<0.10	<0.10	0.10	2069785
Benzo(e)pyrene	ug	<0.10	<0.10	0.10	2069785
Benzo(g,h,i)perylene	ug	<0.050	<0.050	0.050	2069785
Benzo(k)fluoranthene	ug	<0.050	<0.050	0.050	2069785
Biphenyl	ug	0.30	0.59	0.10	2069785
Chrysene	ug	<0.050	0.078	0.050	2069785
Coronene	ug	<0.10	<0.10	0.10	2069785
Dibenz(a,h)anthracene	ug	<0.050	<0.050	0.050	2069785
Dibenzo(a,e)pyrene	ug	<0.20	<0.20	0.20	2069785
Fluoranthene	ug	0.092	0.134	0.050	2069785
Fluorene	ug	0.119	0.185	0.050	2069785
Indeno(1,2,3-cd)pyrene	ug	<0.050	<0.050	0.050	2069785
m-Terphenyl	ug	<0.10	<0.10	0.10	2069785
Naphthalene	ug	0.772	1.01	0.072	2069785
o-Terphenyl	ug	<0.10	<0.10	0.10	2069785
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B010335
 Report Date: 2010/02/16

SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Maxxam ID		EY4457	EY4458		
Sampling Date		2010/01/26 00:00	2010/01/26 00:00		
COC Number		1041	1041		
	Units	LICA QFF/CLS/JAN 26,10	LICA QFF/PORT/JAN 26,10	DL	QC Batch

Perylene	ug	<0.10	<0.10	0.10	2069785
Phenanthrene	ug	0.264	0.487	0.050	2069785
p-Terphenyl	ug	<0.10	<0.10	0.10	2069785
Pyrene	ug	0.059	0.092	0.050	2069785
Quinoline	ug	<0.40	<0.40	0.40	2069785
Tetralin	ug	<0.10	<0.10	0.10	2069785
Surrogate Recovery (%)					
D10-2-Methylnaphthalene	%	68	79		2069785
D10-Fluoranthene	%	98	89		2069785
D10-Fluorene (FS)	%	64	78		2069785
D10-Phenanthrene	%	88	86		2069785
D12-Benzo(a)anthracene	%	122	120		2069785
D12-Benzo(a)pyrene	%	102	100		2069785
D12-Benzo(b)fluoranthene	%	92	92		2069785
D12-Benzo(ghi)perylene	%	101	95		2069785
D12-Benzo(k)fluoranthene	%	101	101		2069785
D12-Chrysene	%	99	100		2069785
D12-Indeno(1,2,3-cd)pyrene	%	103	96		2069785
D12-Perylene	%	105	102		2069785
D14-Dibenzo(a,h)anthracene	%	101	95		2069785
D14-Terphenyl (FS)	%	91	89		2069785
D8-Acenaphthylene	%	81	92		2069785
D8-Naphthalene	%	66	79		2069785

QC Batch = Quality Control Batch

Maxxam Job #: B010335
 Report Date: 2010/02/16

Test Summary

Maxxam ID EY4457 **Collected** 2010/01/26
Sample ID LICA QFF/CLS/JAN 26,10 **Shipped**
Matrix PUF AND FILTER **Received** 2010/01/28

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2069785	2010/02/02	2010/02/12	WZ

Maxxam ID EY4458 **Collected** 2010/01/26
Sample ID LICA QFF/PORT/JAN 26,10 **Shipped**
Matrix PUF AND FILTER **Received** 2010/01/28

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2069785	2010/02/02	2010/02/12	WZ

Maxxam Job #: B010335
Report Date: 2010/02/16**GENERAL COMMENTS**

PAHMS-F

7,12-Dimethylbenzo(a)anthracene and Quinoline are above 25% RSD in initial calibration. No positives found for these 2 compounds.

Internal Std area response criteria was high in Spike:dup. Rerun with similar results. Original run reported.

Sample EY4457-01: PAHMS-F

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene and Triphenylene with Chrysene each would have a value below estimated mdl.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to these 2 compounds in the appropriate retention time range with no possible positives detected.

Sample EY4458-01: PAHMS-F

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene it would have a value below the estimated mdl.

Since Triphenylene co-elutes with Chrysene, the maximum possible value for this compound would be 0.077ug, which is the value reported for Chrysene.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Searched for ions specific to this compound in the appropriate retention time range with no possible positive detected.

Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to this compounds in the appropriate retention time range, possible positive detected, but would fall below the mdl using Dibenzo(a,h) anthracene calibration.

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: GB010335

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2069785 WZ	Spiked Blank	D10-2-Methylnaphthalene	2010/02/12		83	%	50 - 150
		D10-Fluoranthene	2010/02/12		107	%	50 - 150
		D10-Phenanthrene	2010/02/12		100	%	50 - 150
		D12-Benzo(a)anthracene	2010/02/12		127	%	50 - 150
		D12-Benzo(a)pyrene	2010/02/12		108	%	50 - 150
		D12-Benzo(b)fluoranthene	2010/02/12		98	%	50 - 150
		D12-Benzo(ghi)perylene	2010/02/12		104	%	50 - 150
		D12-Benzo(k)fluoranthene	2010/02/12		102	%	50 - 150
		D12-Chrysene	2010/02/12		96	%	50 - 150
		D12-Indeno(1,2,3-cd)pyrene	2010/02/12		106	%	50 - 150
		D12-Perylene	2010/02/12		107	%	50 - 150
		D14-Dibenzo(a,h)anthracene	2010/02/12		104	%	50 - 150
		D8-Acenaphthylene	2010/02/12		93	%	50 - 150
		D8-Naphthalene	2010/02/12		86	%	50 - 150
		RPD	Acenaphthene	2010/02/12	0.8		%
	Spiked Blank	Acenaphthene	2010/02/12			%	50
	RPD	Acenaphthylene	2010/02/12	3.2		%	60 - 130
	Spiked Blank	Acenaphthylene	2010/02/12			%	50
	RPD	Anthracene	2010/02/12	5.7		%	60 - 130
	Spiked Blank	Anthracene	2010/02/12			%	50
	RPD	Benzo(a)anthracene	2010/02/12	11.2		%	60 - 130
	Spiked Blank	Benzo(a)anthracene	2010/02/12			%	50
	RPD	Benzo(a)pyrene	2010/02/12	0.5		%	60 - 130
	Spiked Blank	Benzo(a)pyrene	2010/02/12			%	50
	RPD	Benzo(b)fluoranthene	2010/02/12	1.7		%	60 - 130
	Spiked Blank	Benzo(b)fluoranthene	2010/02/12			%	50
	RPD	Benzo(g,h,i)perylene	2010/02/12	6.1		%	60 - 130
	Spiked Blank	Benzo(g,h,i)perylene	2010/02/12			%	50
	RPD	Benzo(k)fluoranthene	2010/02/12	12.7		%	60 - 130
	Spiked Blank	Benzo(k)fluoranthene	2010/02/12			%	50
	RPD	Chrysene	2010/02/12	6.7		%	60 - 130
	Spiked Blank	Chrysene	2010/02/12			%	50
	RPD	Dibenz(a,h)anthracene	2010/02/12	1.9		%	60 - 130
	Spiked Blank	Dibenz(a,h)anthracene	2010/02/12			%	50
	RPD	Fluoranthene	2010/02/12	3.8		%	60 - 130
	Spiked Blank	Fluoranthene	2010/02/12			%	50
	RPD	Fluorene	2010/02/12	6.0		%	60 - 130
	Spiked Blank	Fluorene	2010/02/12			%	50
	RPD	Indeno(1,2,3-cd)pyrene	2010/02/12	4.6		%	60 - 130
	Spiked Blank	Indeno(1,2,3-cd)pyrene	2010/02/12			%	50
RPD	Naphthalene	2010/02/12	2.9		%	60 - 130	
Spiked Blank	Naphthalene	2010/02/12			%	50	
RPD	Phenanthrene	2010/02/12	6.4		%	60 - 130	
Spiked Blank	Phenanthrene	2010/02/12			%	50	
RPD	Pyrene	2010/02/12	3.2		%	60 - 130	
Spiked Blank	Pyrene	2010/02/12			%	50	
Method Blank	D10-2-Methylnaphthalene	2010/02/12			%	50 - 150	
	D10-Fluoranthene	2010/02/12			%	50 - 150	
	D10-Phenanthrene	2010/02/12			%	50 - 150	
	D12-Benzo(a)anthracene	2010/02/12			%	50 - 150	
	D12-Benzo(a)pyrene	2010/02/12			%	50 - 150	
	D12-Benzo(b)fluoranthene	2010/02/12			%	50 - 150	
	D12-Benzo(ghi)perylene	2010/02/12			%	50 - 150	
	D12-Benzo(k)fluoranthene	2010/02/12			%	50 - 150	
	D12-Chrysene	2010/02/12			%	50 - 150	

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)
 Maxxam Job Number: GB010335

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2069785 WZ	Method Blank	D12-Indeno(1,2,3-cd)pyrene	2010/02/12		102	%	50 - 150
		D12-Perylene	2010/02/12		104	%	50 - 150
		D14-Dibenzo(a,h)anthracene	2010/02/12		101	%	50 - 150
		D8-Acenaphthylene	2010/02/12		89	%	50 - 150
		D8-Naphthalene	2010/02/12		84	%	50 - 150
		1-Methylnaphthalene	2010/02/12	ND, RDL=0.10		ug	
		1-Methylphenanthrene	2010/02/12	ND, RDL=0.10		ug	
		2-Chloronaphthalene	2010/02/12	ND, RDL=0.10		ug	
		2-Methylanthracene	2010/02/12	ND, RDL=0.10		ug	
		2-Methylnaphthalene	2010/02/12	ND, RDL=0.10		ug	
		3-Methylcholanthrene	2010/02/12	ND, RDL=2.0		ug	
		7,12-Dimethylbenzo(a)anthracene	2010/02/12	ND, RDL=0.10		ug	
		9,10-Dimethylanthracene	2010/02/12	ND, RDL=0.40		ug	
		Acenaphthene	2010/02/12	ND, RDL=0.050		ug	
		Acenaphthylene	2010/02/12	ND, RDL=0.050		ug	
		Anthracene	2010/02/12	ND, RDL=0.050		ug	
		Benzo(a)anthracene	2010/02/12	ND, RDL=0.050		ug	
		Benzo(a)fluorene	2010/02/12	ND, RDL=0.10		ug	
		Benzo(a)pyrene	2010/02/12	ND, RDL=0.050		ug	
		Benzo(b)fluoranthene	2010/02/12	ND, RDL=0.050		ug	
		Benzo(b)fluorene	2010/02/12	ND, RDL=0.10		ug	
		Benzo(e)pyrene	2010/02/12	ND, RDL=0.10		ug	
		Benzo(g,h,i)perylene	2010/02/12	ND, RDL=0.050		ug	
		Benzo(k)fluoranthene	2010/02/12	ND, RDL=0.050		ug	
		Biphenyl	2010/02/12	ND, RDL=0.10		ug	
		Chrysene	2010/02/12	ND, RDL=0.050		ug	
		Coronene	2010/02/12	ND, RDL=0.10		ug	
		Dibenz(a,h)anthracene	2010/02/12	ND, RDL=0.050		ug	
		Dibenzo(a,e)pyrene	2010/02/12	ND, RDL=0.20		ug	
		Fluoranthene	2010/02/12	ND, RDL=0.050		ug	
		Fluorene	2010/02/12	ND, RDL=0.050		ug	
		Indeno(1,2,3-cd)pyrene	2010/02/12	ND, RDL=0.050		ug	
		m-Terphenyl	2010/02/12	ND, RDL=0.10		ug	
		Naphthalene	2010/02/12	ND, RDL=0.072		ug	
		o-Terphenyl	2010/02/12	ND, RDL=0.10		ug	
		Perylene	2010/02/12	ND, RDL=0.10		ug	
		Phenanthrene	2010/02/12	ND, RDL=0.050		ug	
		p-Terphenyl	2010/02/12	ND, RDL=0.10		ug	
		Pyrene	2010/02/12	ND, RDL=0.050		ug	
		Quinoline	2010/02/12	ND, RDL=0.40		ug	
		Tetralin	2010/02/12	ND, RDL=0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

Maxxam Analytics Inc.

Tisch Hi-Vol PUF+ Sample Collection Data Sheet

Client: Lica
 Location: 13-16-62-5 W4M
 Station ID: Lica 33 (Portable)
 Field Sample ID: LICA PUF/PORT/Feb 1, 10

Puf+ s/n: 100-1015
 Motor s/n: 1139
 Installation Date/Time: Jan 29, 10 @ 08:45 mst
 Removal Date/Time: Feb 2, 10 @ 09:50 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
01-Feb-10	02/01/2010 0:00	02/02/2010 0:00	24.00

PUF and QFF Information			
Date Received	Date Shipped	Puf Expiration Date	QFF Prep Date
28-Jan-10	02-Feb-10	08-Feb-10	????

Set Flow Rate (slpm): 230

Date of Last Calibration: 02-Oct-09

Sampling Data			
Average Pressure(mmHg)	AverageFlow (Qstd slpm)	Average Temperature (C)	Volume (Vstd m ³)
716	229	-14.2	330.32

Time set correctly prior to sampling? YES
Timer set correctly prior to sampling? YES
Sampling data saved to memory card after sampling? YES

Comments: COC # 556 (out of source COC forms, had to use a Summa COC form)

GA9H1992 PUFF#2

Ran with a 102mm Quartz Fiber Filter - Sample ID - LICA QFF/PORT/Feb 1, 10

Technician Signature: _____



Your Project #: LICA
Your C.O.C. #: 0556

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/02/17

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B013708

Received: 2010/02/04, 09:22

Sample Matrix: Filter
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PAH's in Air (CARB429mod)	2	2010/02/08	2010/02/10	BRL SOP-00201	CARB429(ARBM1,M2)mod

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

=====

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

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Total cover pages: 1

Page 1 of 7

Page 208 of 247

Maxxam Job #: B013708
 Report Date: 2010/02/17

 Lakeland Industry & Community Assoc.
 Client Project #: LICA

SEMI-VOLATILE ORGANICS BY GC-MS (FILTER)

Maxxam ID		FA0593	FA0594		
Sampling Date		2010/02/01	2010/02/01		
COC Number		0556	0556		
	Units	LICA	LICA	DL	QC Batch
		PUF/QFF/CLS/FEB1,10	PUF/QFF/PORT/FEB1,10		

Semivolatle Organics					
1-Methylnaphthalene	ug	1.11	0.45	0.10	2073882
1-Methylphenanthrene	ug	<0.10	<0.10	0.10	2073882
2-Chloronaphthalene	ug	<0.10	<0.10	0.10	2073882
2-Methylantracene	ug	<0.10	<0.10	0.10	2073882
2-Methylnaphthalene	ug	2.33	0.74	0.10	2073882
3-Methylcholanthrene	ug	<2.0	<2.0	2.0	2073882
7,12-Dimethylbenzo(a)anthracene	ug	<0.10	<0.10	0.10	2073882
9,10-Dimethylantracene	ug	<0.40	<0.40	0.40	2073882
Acenaphthene	ug	0.083	<0.050	0.050	2073882
Acenaphthylene	ug	0.315	0.138	0.050	2073882
Anthracene	ug	<0.050	<0.050	0.050	2073882
Benzo(a)anthracene	ug	0.055	<0.050	0.050	2073882
Benzo(a)fluorene	ug	<0.10	<0.10	0.10	2073882
Benzo(a)pyrene	ug	<0.050	<0.050	0.050	2073882
Benzo(b)fluoranthene	ug	0.073	<0.050	0.050	2073882
Benzo(b)fluorene	ug	<0.10	<0.10	0.10	2073882
Benzo(e)pyrene	ug	<0.10	<0.10	0.10	2073882
Benzo(g,h,i)perylene	ug	0.057	<0.050	0.050	2073882
Benzo(k)fluoranthene	ug	<0.050	<0.050	0.050	2073882
Biphenyl	ug	0.46	0.50	0.10	2073882
Chrysene	ug	0.072	0.052	0.050	2073882
Coronene	ug	<0.10	<0.10	0.10	2073882
Dibenz(a,h)anthracene	ug	<0.050	<0.050	0.050	2073882
Dibenzo(a,e)pyrene	ug	<0.20	<0.20	0.20	2073882
Fluoranthene	ug	0.281	0.130	0.050	2073882
Fluorene	ug	0.239	0.215	0.050	2073882
Indeno(1,2,3-cd)pyrene	ug	<0.050	<0.050	0.050	2073882
m-Terphenyl	ug	<0.10	<0.10	0.10	2073882
Naphthalene	ug	2.57	0.994	0.072	2073882
o-Terphenyl	ug	<0.10	<0.10	0.10	2073882
Perylene	ug	<0.10	<0.10	0.10	2073882
Phenanthrene	ug	0.752	0.487	0.050	2073882

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B013708
 Report Date: 2010/02/17

Lakeland Industry & Community Assoc.
 Client Project #: LICA

SEMI-VOLATILE ORGANICS BY GC-MS (FILTER)

Maxxam ID		FA0593	FA0594		
Sampling Date		2010/02/01	2010/02/01		
COC Number		0556	0556		
	Units	LICA	LICA	DL	QC Batch
		PUF/QFF/CLS/FEB1,10	PUF/QFF/PORT/FEB1,10		

p-Terphenyl	ug	<0.10	<0.10	0.10	2073882
Pyrene	ug	0.190	0.070	0.050	2073882
Quinoline	ug	<0.40	<0.40	0.40	2073882
Tetralin	ug	<0.10	<0.10	0.10	2073882
Surrogate Recovery (%)					
D10-2-Methylnaphthalene	%	66	79		2073882
D10-Fluoranthene	%	120	100		2073882
D10-Fluorene (FS)	%	56	64		2073882
D10-Phenanthrene	%	104	95		2073882
D12-Benzo(a)anthracene	%	146	122		2073882
D12-Benzo(a)pyrene	%	113	106		2073882
D12-Benzo(b)fluoranthene	%	114	107		2073882
D12-Benzo(ghi)perylene	%	104	102		2073882
D12-Benzo(k)fluoranthene	%	86	89		2073882
D12-Chrysene	%	86	93		2073882
D12-Indeno(1,2,3-cd)pyrene	%	109	105		2073882
D12-Perylene	%	107	105		2073882
D14-Dibenzo(a,h)anthracene	%	108	104		2073882
D14-Terphenyl (FS)	%	85	86		2073882
D8-Acenaphthylene	%	89	96		2073882
D8-Naphthalene	%	63	78		2073882

QC Batch = Quality Control Batch

Maxxam Job #: B013708
 Report Date: 2010/02/17

Lakeland Industry & Community Assoc.
 Client Project #: LICA

Test Summary

Maxxam ID FA0593
Sample ID LICA PUF/QFF/CLS/FEB1,10
Matrix Filter
Collected 2010/02/01
Shipped
Received 2010/02/04

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2073882	2010/02/08	2010/02/10	WZ

Maxxam ID FA0594
Sample ID LICA PUF/QFF/PORT/FEB1,10
Matrix Filter
Collected 2010/02/01
Shipped
Received 2010/02/04

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2073882	2010/02/08	2010/02/10	WZ

Maxxam Job #: B013708
Report Date: 2010/02/17

Lakeland Industry & Community Assoc.
Client Project #: LICA

GENERAL COMMENTS

PAHMS-F

7,12-Dimethylbenzo(a)anthracene and Quinoline are above 25% RSD in initial calibration. No positives found for these 2 compounds.

Internal Std area response criteria was high in Spike ,Spike:dup , Blank and Sample. Rerun with similar results. Original run reported.

Sample FA0593-01: PAHMS-F

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene it would have a value below the estimated mdl.

Since Triphenylene co-elutes with Chrysene, the maximum possible value for this compound would be 0.072ug, which is the value reported for Chrysene.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Searched for ions specific to this compound in the appropriate retention time range with no possible positive detected.

Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to this compounds in the appropriate retention time range, possible positive detected, but would fall below the mdl using Dibenzo(a,h) anthracene calibration.

Sample FA0594-01: PAHMS-F

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene it would have a value below the estimated mdl.

Since Triphenylene co-elutes with Chrysene, the maximum possible value for this compound would be 0.052ug, which is the value reported for Chrysene.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Searched for ions specific to this compound in the appropriate retention time range with no possible positive detected.

Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to this compounds in the appropriate retention time range, possible positive detected, but would fall below the mdl using Dibenzo(a,h) anthracene calibration.

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: GB013708

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2073882 WZ	Spiked Blank	D10-2-Methylnaphthalene	2010/02/10		84	%	50 - 150
		D10-Fluoranthene	2010/02/10		123	%	50 - 150
		D10-Phenanthrene	2010/02/10		107	%	50 - 150
		D12-Benzo(a)anthracene	2010/02/10		134	%	50 - 150
		D12-Benzo(a)pyrene	2010/02/10		112	%	50 - 150
		D12-Benzo(b)fluoranthene	2010/02/10		112	%	50 - 150
		D12-Benzo(ghi)perylene	2010/02/10		111	%	50 - 150
		D12-Benzo(k)fluoranthene	2010/02/10		83	%	50 - 150
		D12-Chrysene	2010/02/10		87	%	50 - 150
		D12-Indeno(1,2,3-cd)pyrene	2010/02/10		115	%	50 - 150
		D12-Perylene	2010/02/10		105	%	50 - 150
		D14-Dibenzo(a,h)anthracene	2010/02/10		113	%	50 - 150
		RPD	D8-Acenaphthylene	2010/02/10		98	%
	D8-Naphthalene		2010/02/10		83	%	50 - 150
	Spiked Blank	Acenaphthene	2010/02/10		84	%	60 - 130
		Acenaphthene	2010/02/10	4.1		%	50
	RPD	Acenaphthylene	2010/02/10		94	%	60 - 130
		Acenaphthylene	2010/02/10	5.9		%	50
	Spiked Blank	Anthracene	2010/02/10		96	%	60 - 130
		Anthracene	2010/02/10	8.5		%	50
	Spiked Blank	Benzo(a)anthracene	2010/02/10		102	%	60 - 130
		Benzo(a)anthracene	2010/02/10	3.1		%	50
	Spiked Blank	Benzo(a)pyrene	2010/02/10		97	%	60 - 130
		Benzo(a)pyrene	2010/02/10	0.9		%	50
	Spiked Blank	Benzo(b)fluoranthene	2010/02/10		97	%	60 - 130
		Benzo(b)fluoranthene	2010/02/10	5.5		%	50
	Spiked Blank	Benzo(g,h,i)perylene	2010/02/10		97	%	60 - 130
		Benzo(g,h,i)perylene	2010/02/10	1.7		%	50
	Spiked Blank	Benzo(k)fluoranthene	2010/02/10		78	%	60 - 130
		Benzo(k)fluoranthene	2010/02/10	3.5		%	50
	Spiked Blank	Chrysene	2010/02/10		81	%	60 - 130
		Chrysene	2010/02/10	5.9		%	50
	Spiked Blank	Dibenz(a,h)anthracene	2010/02/10		102	%	60 - 130
		Dibenz(a,h)anthracene	2010/02/10	2.0		%	50
	Spiked Blank	Fluoranthene	2010/02/10		114	%	60 - 130
		Fluoranthene	2010/02/10	14.3		%	50
	Spiked Blank	Fluorene	2010/02/10		88	%	60 - 130
		Fluorene	2010/02/10	3.8		%	50
	Spiked Blank	Indeno(1,2,3-cd)pyrene	2010/02/10		100	%	60 - 130
		Indeno(1,2,3-cd)pyrene	2010/02/10	1.3		%	50
Spiked Blank	Naphthalene	2010/02/10		81	%	60 - 130	
	Naphthalene	2010/02/10	3.0		%	50	
Spiked Blank	Phenanthrene	2010/02/10		98	%	60 - 130	
	Phenanthrene	2010/02/10	8.2		%	50	
Spiked Blank	Pyrene	2010/02/10		101	%	60 - 130	
	Pyrene	2010/02/10	8.7		%	50	
Method Blank	D10-2-Methylnaphthalene	2010/02/10		83	%	50 - 150	
	D10-Fluoranthene	2010/02/10		123	%	50 - 150	
	D10-Phenanthrene	2010/02/10		104	%	50 - 150	
	D12-Benzo(a)anthracene	2010/02/10		129	%	50 - 150	
	D12-Benzo(a)pyrene	2010/02/10		114	%	50 - 150	
	D12-Benzo(b)fluoranthene	2010/02/10		113	%	50 - 150	
	D12-Benzo(ghi)perylene	2010/02/10		105	%	50 - 150	
	D12-Benzo(k)fluoranthene	2010/02/10		87	%	50 - 150	
	D12-Chrysene	2010/02/10		89	%	50 - 150	

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report (Continued)
 Maxxam Job Number: GB013708

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2073882 WZ	Method Blank	D12-Indeno(1,2,3-cd)pyrene	2010/02/10		113	%	50 - 150
		D12-Perylene	2010/02/10		108	%	50 - 150
		D14-Dibenzo(a,h)anthracene	2010/02/10		112	%	50 - 150
		D8-Acenaphthylene	2010/02/10		97	%	50 - 150
		D8-Naphthalene	2010/02/10		82	%	50 - 150
		1-Methylnaphthalene	2010/02/10	ND, RDL=0.10		ug	
		1-Methylphenanthrene	2010/02/10	ND, RDL=0.10		ug	
		2-Chloronaphthalene	2010/02/10	ND, RDL=0.10		ug	
		2-Methylantracene	2010/02/10	ND, RDL=0.10		ug	
		2-Methylnaphthalene	2010/02/10	ND, RDL=0.10		ug	
		3-Methylcholanthrene	2010/02/10	ND, RDL=2.0		ug	
		7,12-Dimethylbenzo(a)anthracene	2010/02/10	ND, RDL=0.10		ug	
		9,10-Dimethylantracene	2010/02/10	ND, RDL=0.40		ug	
		Acenaphthene	2010/02/10	ND, RDL=0.050		ug	
		Acenaphthylene	2010/02/10	ND, RDL=0.050		ug	
		Anthracene	2010/02/10	ND, RDL=0.050		ug	
		Benzo(a)anthracene	2010/02/10	ND, RDL=0.050		ug	
		Benzo(a)fluorene	2010/02/10	ND, RDL=0.10		ug	
		Benzo(a)pyrene	2010/02/10	ND, RDL=0.050		ug	
		Benzo(b)fluoranthene	2010/02/10	ND, RDL=0.050		ug	
		Benzo(b)fluorene	2010/02/10	ND, RDL=0.10		ug	
		Benzo(e)pyrene	2010/02/10	ND, RDL=0.10		ug	
		Benzo(g,h,i)perylene	2010/02/10	ND, RDL=0.050		ug	
		Benzo(k)fluoranthene	2010/02/10	ND, RDL=0.050		ug	
		Biphenyl	2010/02/10	ND, RDL=0.10		ug	
		Chrysene	2010/02/10	ND, RDL=0.050		ug	
		Coronene	2010/02/10	ND, RDL=0.10		ug	
		Dibenz(a,h)anthracene	2010/02/10	ND, RDL=0.050		ug	
		Dibenzo(a,e)pyrene	2010/02/10	ND, RDL=0.20		ug	
		Fluoranthene	2010/02/10	ND, RDL=0.050		ug	
		Fluorene	2010/02/10	ND, RDL=0.050		ug	
		Indeno(1,2,3-cd)pyrene	2010/02/10	ND, RDL=0.050		ug	
		m-Terphenyl	2010/02/10	ND, RDL=0.10		ug	
		Naphthalene	2010/02/10	ND, RDL=0.072		ug	
		o-Terphenyl	2010/02/10	ND, RDL=0.10		ug	
		Perylene	2010/02/10	ND, RDL=0.10		ug	
		Phenanthrene	2010/02/10	ND, RDL=0.050		ug	
		p-Terphenyl	2010/02/10	ND, RDL=0.10		ug	
		Pyrene	2010/02/10	ND, RDL=0.050		ug	
		Quinoline	2010/02/10	ND, RDL=0.40		ug	
		Tetralin	2010/02/10	ND, RDL=0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

Maxxam Analytics Inc.

Tisch Hi-Vol PUF+ Sample Collection Data Sheet

Client: Lica
 Location: 13-16-62-5 W4M
 Station ID: Lica 33 (Portable)
 Field Sample ID: LICA PUF/PORT/Feb 7, 10

Puf+ s/n: 100-1015
 Motor s/n: 1139
 Installation Date/Time: Feb 5, 10 @ 13:10 mst
 Removal Date/Time: Feb 8, 10 @ 12:05 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
07-Feb-10	02/07/2010 0:00	02/08/2010 0:00	24.00

PUF and QFF Information			
Date Received	Date Shipped	Puf Expiration Date	QFF Prep Date
04-Feb-10	08-Feb-10	15-Feb-10	????

Set Flow Rate (slpm): 230

Date of Last Calibration: 02-Oct-09

Sampling Data			
Average Pressure(mmHg)	AverageFlow (Qstd slpm)	Average Temperature (C)	Volume (Vstd m ³)
723	229	-11.7	330.30

Time set correctly prior to sampling? YES
Timer set correctly prior to sampling? YES
Sampling data saved to memory card after sampling? YES

Comments: COC # 0554 (out of source COC forms, had to use a Summa COC form)

GB011353 PUFF#2

Ran with a 102mm Quartz Fiber Filter - Sample ID - LICA QFF/PORT/Feb 7, 10

Technician Signature: _____



Your C.O.C. #: 0554

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/02/19

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B016584

Received: 2010/02/11, 09:08

Sample Matrix: PUF AND FILTER

Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PAH's in Air (CARB429mod)	2	2010/02/11	2010/02/16	BRL SOP-00201	CARB429(ARBM1,M2)mod

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

=====

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

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Total cover pages: 1

Maxxam Job #: B016584
 Report Date: 2010/02/19

SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Maxxam ID		FB4027	FB4028		
Sampling Date		2010/02/07	2010/02/07		
		00:00	00:00		
COC Number		0554	0554		
	Units	LICA	LICA	DL	QC Batch
		PUF/QFF/CLS/FEB7,10	PUF/QFF/PORT/FEB7,10		

Semivolatle Organics					
1-Methylnaphthalene	ug	0.14	0.20	0.10	2079174
1-Methylphenanthrene	ug	<0.10	<0.10	0.10	2079174
2-Chloronaphthalene	ug	<0.10	<0.10	0.10	2079174
2-Methylantracene	ug	<0.10	<0.10	0.10	2079174
2-Methylnaphthalene	ug	0.26	0.33	0.10	2079174
3-Methylcholanthrene	ug	<2.0	<2.0	2.0	2079174
7,12-Dimethylbenzo(a)anthracene	ug	<0.10	<0.10	0.10	2079174
9,10-Dimethylantracene	ug	<0.40	<0.40	0.40	2079174
Acenaphthene	ug	<0.050	<0.050	0.050	2079174
Acenaphthylene	ug	<0.050	0.085	0.050	2079174
Anthracene	ug	<0.050	<0.050	0.050	2079174
Benzo(a)anthracene	ug	<0.050	<0.050	0.050	2079174
Benzo(a)fluorene	ug	<0.10	<0.10	0.10	2079174
Benzo(a)pyrene	ug	<0.050	<0.050	0.050	2079174
Benzo(b)fluoranthene	ug	<0.050	<0.050	0.050	2079174
Benzo(b)fluorene	ug	<0.10	<0.10	0.10	2079174
Benzo(e)pyrene	ug	<0.10	<0.10	0.10	2079174
Benzo(g,h,i)perylene	ug	<0.050	<0.050	0.050	2079174
Benzo(k)fluoranthene	ug	<0.050	<0.050	0.050	2079174
Biphenyl	ug	0.19	0.23	0.10	2079174
Chrysene	ug	<0.050	<0.050	0.050	2079174
Coronene	ug	<0.10	<0.10	0.10	2079174
Dibenz(a,h)anthracene	ug	<0.050	<0.050	0.050	2079174
Dibenzo(a,e)pyrene	ug	<0.20	<0.20	0.20	2079174
Fluoranthene	ug	0.053	0.082	0.050	2079174
Fluorene	ug	0.093	0.119	0.050	2079174
Indeno(1,2,3-cd)pyrene	ug	<0.050	<0.050	0.050	2079174
m-Terphenyl	ug	<0.10	<0.10	0.10	2079174
Naphthalene	ug	0.299	0.547	0.072	2079174
o-Terphenyl	ug	<0.10	<0.10	0.10	2079174
Perylene	ug	<0.10	<0.10	0.10	2079174

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B016584
 Report Date: 2010/02/19

SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Maxxam ID		FB4027	FB4028		
Sampling Date		2010/02/07 00:00	2010/02/07 00:00		
COC Number		0554	0554		
	Units	LICA	LICA	DL	QC Batch
		PUF/QFF/CLS/FEB7,10	PUF/QFF/PORT/FEB7,10		
Phenanthrene	ug	0.195	0.203	0.050	2079174
p-Terphenyl	ug	<0.10	<0.10	0.10	2079174
Pyrene	ug	<0.050	<0.050	0.050	2079174
Quinoline	ug	<0.40	<0.40	0.40	2079174
Tetralin	ug	<0.10	<0.10	0.10	2079174
Surrogate Recovery (%)					
D10-2-Methylnaphthalene	%	65	73		2079174
D10-Fluoranthene	%	93	100		2079174
D10-Fluorene (FS)	%	50	55		2079174
D10-Phenanthrene	%	84	90		2079174
D12-Benzo(a)anthracene	%	114	106		2079174
D12-Benzo(a)pyrene	%	99	95		2079174
D12-Benzo(b)fluoranthene	%	101	99		2079174
D12-Benzo(ghi)perylene	%	90	91		2079174
D12-Benzo(k)fluoranthene	%	88	81		2079174
D12-Chrysene	%	95	83		2079174
D12-Indeno(1,2,3-cd)pyrene	%	89	90		2079174
D12-Perylene	%	100	97		2079174
D14-Dibenzo(a,h)anthracene	%	88	90		2079174
D14-Terphenyl (FS)	%	87	79		2079174
D8-Acenaphthylene	%	77	88		2079174
D8-Naphthalene	%	62	68		2079174
QC Batch = Quality Control Batch					

Maxxam Job #: B016584
 Report Date: 2010/02/19

Test Summary

Maxxam ID FB4027 **Collected** 2010/02/07
Sample ID LICA PUF/QFF/CLS/FEB7,10 **Shipped**
Matrix PUF AND FILTER **Received** 2010/02/11

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2079174	2010/02/11	2010/02/16	WZ

Maxxam ID FB4028 **Collected** 2010/02/07
Sample ID LICA PUF/QFF/PORT/FEB7,10 **Shipped**
Matrix PUF AND FILTER **Received** 2010/02/11

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2079174	2010/02/11	2010/02/16	WZ

Maxxam Job #: B016584
Report Date: 2010/02/19

GENERAL COMMENTS**PAHMS-F**

Quinoline and 7,12-Dimethylbenzo(a)anthracene are above 25% RSD in initial calibration. No positives found for these 2 compounds.

Internal Std area response criteria was high in Spike:dup . Rerun with similar results. Original run reported.

Sample FB4027-01: PAHMS-F

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene and Triphenylene with Chrysene each would have a value below estimated mdl.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to these 2 compounds in the appropriate retention time range with no possible positives detected.

Sample FB4028-01: PAHMS-F

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene and Triphenylene with Chrysene each would have a value below estimated mdl.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to these 2 compounds in the appropriate retention time range with no possible positives detected.

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: GB016584

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2079174 WZ	Spiked Blank	D10-2-Methylnaphthalene	2010/02/16		69	%	50 - 150
		D10-Fluoranthene	2010/02/16		92	%	50 - 150
		D10-Phenanthrene	2010/02/16		79	%	50 - 150
		D12-Benzo(a)anthracene	2010/02/16		103	%	50 - 150
		D12-Benzo(a)pyrene	2010/02/16		91	%	50 - 150
		D12-Benzo(b)fluoranthene	2010/02/16		96	%	50 - 150
		D12-Benzo(ghi)perylene	2010/02/16		86	%	50 - 150
		D12-Benzo(k)fluoranthene	2010/02/16		81	%	50 - 150
		D12-Chrysene	2010/02/16		88	%	50 - 150
		D12-Indeno(1,2,3-cd)pyrene	2010/02/16		85	%	50 - 150
		D12-Perylene	2010/02/16		92	%	50 - 150
		D14-Dibenzo(a,h)anthracene	2010/02/16		84	%	50 - 150
		D8-Acenaphthylene	2010/02/16		70	%	50 - 150
		D8-Naphthalene	2010/02/16		67	%	50 - 150
	RPD	Acenaphthene	2010/02/16		68	%	60 - 130
	Spiked Blank	Acenaphthene	2010/02/16	15.3		%	50
	RPD	Acenaphthylene	2010/02/16		66	%	60 - 130
	Spiked Blank	Acenaphthylene	2010/02/16	20.1		%	50
	RPD	Anthracene	2010/02/16		65	%	60 - 130
	Spiked Blank	Anthracene	2010/02/16	19.7		%	50
	RPD	Benzo(a)anthracene	2010/02/16		86	%	60 - 130
	Spiked Blank	Benzo(a)anthracene	2010/02/16	13.3		%	50
	RPD	Benzo(a)pyrene	2010/02/16		78	%	60 - 130
	Spiked Blank	Benzo(a)pyrene	2010/02/16	16.2		%	50
	RPD	Benzo(b)fluoranthene	2010/02/16		86	%	60 - 130
	Spiked Blank	Benzo(b)fluoranthene	2010/02/16	12.9		%	50
	RPD	Benzo(g,h,i)perylene	2010/02/16		72	%	60 - 130
	Spiked Blank	Benzo(g,h,i)perylene	2010/02/16	16.1		%	50
	RPD	Benzo(k)fluoranthene	2010/02/16		75	%	60 - 130
	Spiked Blank	Benzo(k)fluoranthene	2010/02/16	34.7		%	50
	RPD	Chrysene	2010/02/16		83	%	60 - 130
	Spiked Blank	Chrysene	2010/02/16	0.8		%	50
	RPD	Dibenz(a,h)anthracene	2010/02/16		71	%	60 - 130
	Spiked Blank	Dibenz(a,h)anthracene	2010/02/16	20.3		%	50
	RPD	Fluoranthene	2010/02/16		84	%	60 - 130
	Spiked Blank	Fluoranthene	2010/02/16	21.9		%	50
	RPD	Fluorene	2010/02/16		65	%	60 - 130
	Spiked Blank	Fluorene	2010/02/16	17.6		%	50
	RPD	Indeno(1,2,3-cd)pyrene	2010/02/16		71	%	60 - 130
	Spiked Blank	Indeno(1,2,3-cd)pyrene	2010/02/16	18.5		%	50
RPD	Naphthalene	2010/02/16		64	%	60 - 130	
Spiked Blank	Naphthalene	2010/02/16	12.1		%	50	
RPD	Phenanthrene	2010/02/16		66	%	60 - 130	
Spiked Blank	Phenanthrene	2010/02/16	20.9		%	50	
RPD	Pyrene	2010/02/16		78	%	60 - 130	
Spiked Blank	Pyrene	2010/02/16	20.4		%	50	
Method Blank	D10-2-Methylnaphthalene	2010/02/16		83	%	50 - 150	
	D10-Fluoranthene	2010/02/16		111	%	50 - 150	
	D10-Phenanthrene	2010/02/16		96	%	50 - 150	
	D12-Benzo(a)anthracene	2010/02/16		105	%	50 - 150	
	D12-Benzo(a)pyrene	2010/02/16		98	%	50 - 150	
	D12-Benzo(b)fluoranthene	2010/02/16		105	%	50 - 150	
	D12-Benzo(ghi)perylene	2010/02/16		102	%	50 - 150	
	D12-Benzo(k)fluoranthene	2010/02/16		82	%	50 - 150	
	D12-Chrysene	2010/02/16		88	%	50 - 150	

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #:
 P.O. #:
 Project name:

Quality Assurance Report (Continued)
 Maxxam Job Number: GB016584

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2079174 WZ	Method Blank	D12-Indeno(1,2,3-cd)pyrene	2010/02/16		100	%	50 - 150
		D12-Perylene	2010/02/16		102	%	50 - 150
		D14-Dibenzo(a,h)anthracene	2010/02/16		99	%	50 - 150
		D8-Acenaphthylene	2010/02/16		85	%	50 - 150
		D8-Naphthalene	2010/02/16		81	%	50 - 150
		1-Methylnaphthalene	2010/02/16	ND, RDL=0.10		ug	
		1-Methylphenanthrene	2010/02/16	ND, RDL=0.10		ug	
		2-Chloronaphthalene	2010/02/16	ND, RDL=0.10		ug	
		2-Methylanthracene	2010/02/16	ND, RDL=0.10		ug	
		2-Methylnaphthalene	2010/02/16	ND, RDL=0.10		ug	
		3-Methylcholanthrene	2010/02/16	ND, RDL=2.0		ug	
		7,12-Dimethylbenzo(a)anthracene	2010/02/16	ND, RDL=0.10		ug	
		9,10-Dimethylanthracene	2010/02/16	ND, RDL=0.40		ug	
		Acenaphthene	2010/02/16	ND, RDL=0.050		ug	
		Acenaphthylene	2010/02/16	ND, RDL=0.050		ug	
		Anthracene	2010/02/16	ND, RDL=0.050		ug	
		Benzo(a)anthracene	2010/02/16	ND, RDL=0.050		ug	
		Benzo(a)fluorene	2010/02/16	ND, RDL=0.10		ug	
		Benzo(a)pyrene	2010/02/16	ND, RDL=0.050		ug	
		Benzo(b)fluoranthene	2010/02/16	ND, RDL=0.050		ug	
		Benzo(b)fluorene	2010/02/16	ND, RDL=0.10		ug	
		Benzo(e)pyrene	2010/02/16	ND, RDL=0.10		ug	
		Benzo(g,h,i)perylene	2010/02/16	ND, RDL=0.050		ug	
		Benzo(k)fluoranthene	2010/02/16	ND, RDL=0.050		ug	
		Biphenyl	2010/02/16	ND, RDL=0.10		ug	
		Chrysene	2010/02/16	ND, RDL=0.050		ug	
		Coronene	2010/02/16	ND, RDL=0.10		ug	
		Dibenz(a,h)anthracene	2010/02/16	ND, RDL=0.050		ug	
		Dibenzo(a,e)pyrene	2010/02/16	ND, RDL=0.20		ug	
		Fluoranthene	2010/02/16	ND, RDL=0.050		ug	
		Fluorene	2010/02/16	ND, RDL=0.050		ug	
		Indeno(1,2,3-cd)pyrene	2010/02/16	ND, RDL=0.050		ug	
		m-Terphenyl	2010/02/16	ND, RDL=0.10		ug	
		Naphthalene	2010/02/16	ND, RDL=0.072		ug	
		o-Terphenyl	2010/02/16	ND, RDL=0.10		ug	
		Perylene	2010/02/16	ND, RDL=0.10		ug	
		Phenanthrene	2010/02/16	ND, RDL=0.050		ug	
		p-Terphenyl	2010/02/16	ND, RDL=0.10		ug	
		Pyrene	2010/02/16	ND, RDL=0.050		ug	
		Quinoline	2010/02/16	ND, RDL=0.40		ug	
		Tetralin	2010/02/16	ND, RDL=0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

Maxxam Analytics Inc.

Tisch Hi-Vol PUF+ Sample Collection Data Sheet

Client: Lica
 Location: 13-16-62-5 W4M
 Station ID: Lica 33 (Portable)
 Field Sample ID: LICA PUF/PORT/Feb 13, 10

Puf+ s/n: 100-1015
 Motor s/n: 1139
 Installation Date/Time: Feb 13, 10 @ 09:30 mst
 Removal Date/Time: Feb 16, 10 @ 13:35 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
13-Feb-10	02/13/2010 0:00	02/14/2010 0:00	24.00

PUF and QFF Information			
Date Received	Date Shipped	Puf Expiration Date	QFF Prep Date
11-Feb-10	17-Feb-10	23-Feb-10	????

Set Flow Rate (slpm): 230

Date of Last Calibration: 02-Oct-09

Sampling Data			
Average Pressure(mmHg)	AverageFlow (Qstd slpm)	Average Temperature (C)	Volume (Vstd m ³)
725	229	-14.1	330.30

Time set correctly prior to sampling? YES
Timer set correctly prior to sampling? YES
Sampling data saved to memory card after sampling? YES

Comments: COC # 2847 (out of source COC forms, had to use a Summa COC form)

GB011370 PUFF#2

Ran with a 102mm Quartz Fiber Filter - Sample ID - LICA QFF/PORT/Feb 13, 10

Technician Signature: _____



Your Project #: LICA
Your C.O.C. #: 2847

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/01

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B020056

Received: 2010/02/19, 09:29

Sample Matrix: Filter
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PAH's in Air (CARB429mod)	2	2010/02/19	2010/02/26	BRL SOP-00201	CARB429(ARBM1,M2)mod

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

=====

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

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Total cover pages: 1

Maxxam Job #: B020056
 Report Date: 2010/03/01

 Lakeland Industry & Community Assoc.
 Client Project #: LICA

SEMI-VOLATILE ORGANICS BY GC-MS (FILTER)

Maxxam ID		FD0168	FD0169		
Sampling Date		2010/02/13	2010/02/13		
COC Number		2847	2847		
	Units	LICA	LICA	RDL	QC Batch
		PUF/QFF/CLS/FEB13,10	PUF/QFF/PORT/FEB13,10		

Semivolatile Organics	Units	FD0168	FD0169	RDL	QC Batch
1-Methylnaphthalene	ug	0.28	0.41	0.10	2083575
1-Methylphenanthrene	ug	<0.10	<0.10	0.10	2083575
2-Chloronaphthalene	ug	<0.10	<0.10	0.10	2083575
2-Methylantracene	ug	<0.10	<0.10	0.10	2083575
2-Methylnaphthalene	ug	0.58	0.68	0.10	2083575
3-Methylcholanthrene	ug	<2.0	<2.0	2.0	2083575
7,12-Dimethylbenzo(a)anthracene	ug	<0.10	<0.10	0.10	2083575
9,10-Dimethylantracene	ug	<0.40	<0.40	0.40	2083575
Acenaphthene	ug	<0.050	0.065	0.050	2083575
Acenaphthylene	ug	0.051	0.073	0.050	2083575
Anthracene	ug	<0.050	<0.050	0.050	2083575
Benzo(a)anthracene	ug	<0.050	<0.050	0.050	2083575
Benzo(a)fluorene	ug	<0.10	<0.10	0.10	2083575
Benzo(a)pyrene	ug	<0.050	<0.050	0.050	2083575
Benzo(b)fluoranthene	ug	<0.050	<0.050	0.050	2083575
Benzo(b)fluorene	ug	<0.10	<0.10	0.10	2083575
Benzo(e)pyrene	ug	<0.10	<0.10	0.10	2083575
Benzo(g,h,i)perylene	ug	0.061	0.061	0.050	2083575
Benzo(k)fluoranthene	ug	<0.050	<0.050	0.050	2083575
Biphenyl	ug	0.21	0.39	0.10	2083575
Chrysene	ug	<0.050	<0.050	0.050	2083575
Coronene	ug	<0.10	<0.10	0.10	2083575
Dibenz(a,h)anthracene	ug	0.055	0.056	0.050	2083575
Dibenzo(a,e)pyrene	ug	<0.20	<0.20	0.20	2083575
Fluoranthene	ug	0.073	0.062	0.050	2083575
Fluorene	ug	0.106	0.150	0.050	2083575
Indeno(1,2,3-cd)pyrene	ug	0.053	0.052	0.050	2083575
m-Terphenyl	ug	<0.10	<0.10	0.10	2083575
Naphthalene	ug	0.492	0.819	0.072	2083575
o-Terphenyl	ug	<0.10	<0.10	0.10	2083575
Perylene	ug	<0.10	<0.10	0.10	2083575
Phenanthrene	ug	0.259	0.314	0.050	2083575

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B020056
 Report Date: 2010/03/01

Lakeland Industry & Community Assoc.
 Client Project #: LICA

SEMI-VOLATILE ORGANICS BY GC-MS (FILTER)

Maxxam ID		FD0168	FD0169		
Sampling Date		2010/02/13	2010/02/13		
COC Number		2847	2847		
	Units	LICA	LICA	RDL	QC Batch
		PUF/QFF/CLS/FEB13,10	PUF/QFF/PORT/FEB13,10		

p-Terphenyl	ug	<0.10	<0.10	0.10	2083575
Pyrene	ug	<0.050	<0.050	0.050	2083575
Quinoline	ug	<0.40	<0.40	0.40	2083575
Tetralin	ug	<0.10	<0.10	0.10	2083575
Surrogate Recovery (%)					
D10-2-Methylnaphthalene	%	73	78		2083575
D10-Fluoranthene	%	94	90		2083575
D10-Fluorene (FS)	%	68	77		2083575
D10-Phenanthrene	%	88	88		2083575
D12-Benzo(a)anthracene	%	99	98		2083575
D12-Benzo(a)pyrene	%	92	92		2083575
D12-Benzo(b)fluoranthene	%	109	106		2083575
D12-Benzo(ghi)perylene	%	94	94		2083575
D12-Benzo(k)fluoranthene	%	79	85		2083575
D12-Chrysene	%	101	102		2083575
D12-Indeno(1,2,3-cd)pyrene	%	95	93		2083575
D12-Perylene	%	94	95		2083575
D14-Dibenzo(a,h)anthracene	%	96	93		2083575
D14-Terphenyl (FS)	%	92	93		2083575
D8-Acenaphthylene	%	78	79		2083575
D8-Naphthalene	%	70	76		2083575

QC Batch = Quality Control Batch

Maxxam Job #: B020056
 Report Date: 2010/03/01

Lakeland Industry & Community Assoc.
 Client Project #: LICA

Test Summary

Maxxam ID FD0168 **Collected** 2010/02/13
Sample ID LICA PUF/QFF/CLS/FEB13,10 **Shipped**
Matrix Filter **Received** 2010/02/19

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2083575	2010/02/19	2010/02/26	WZ

Maxxam ID FD0169 **Collected** 2010/02/13
Sample ID LICA PUF/QFF/PORT/FEB13,10 **Shipped**
Matrix Filter **Received** 2010/02/19

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2083575	2010/02/19	2010/02/26	WZ

Maxxam Job #: B020056
Report Date: 2010/03/01

Lakeland Industry & Community Assoc.
Client Project #: LICA

GENERAL COMMENTS

PAHMS-F

7,12-Dimethylbenzo(a)anthracene is above 25% RSD in initial calibration. No positive found for this compounds.

Naphthalene positive found in blank. Samples should be considered to be possibly contaminated to the level found in the blank.

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene and Triphenylene with Chrysene each would have a value below estimated mdl.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to these 2 compounds in the appropriate retention time range with no possible positives detected.

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: GB020056

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2083575 WZ	Spiked Blank	D10-2-Methylnaphthalene	2010/02/26		82	%	50 - 150
		D10-Fluoranthene	2010/02/26		102	%	50 - 150
		D10-Phenanthrene	2010/02/26		90	%	50 - 150
		D12-Benzo(a)anthracene	2010/02/26		101	%	50 - 150
		D12-Benzo(a)pyrene	2010/02/26		96	%	50 - 150
		D12-Benzo(b)fluoranthene	2010/02/26		108	%	50 - 150
		D12-Benzo(ghi)perylene	2010/02/26		97	%	50 - 150
		D12-Benzo(k)fluoranthene	2010/02/26		88	%	50 - 150
		D12-Chrysene	2010/02/26		100	%	50 - 150
		D12-Indeno(1,2,3-cd)pyrene	2010/02/26		98	%	50 - 150
		D12-Perylene	2010/02/26		97	%	50 - 150
		D14-Dibenzo(a,h)anthracene	2010/02/26		99	%	50 - 150
		RPD	D8-Acenaphthylene	2010/02/26		81	%
	D8-Naphthalene		2010/02/26		81	%	50 - 150
	Spiked Blank	Acenaphthene	2010/02/26		77	%	60 - 130
		Acenaphthene	2010/02/26	0.9		%	50
	RPD	Acenaphthylene	2010/02/26		78	%	60 - 130
		Acenaphthylene	2010/02/26	0.1		%	50
	Spiked Blank	Anthracene	2010/02/26		79	%	60 - 130
		Anthracene	2010/02/26	3.0		%	50
	Spiked Blank	Benzo(a)anthracene	2010/02/26		96	%	60 - 130
		Benzo(a)anthracene	2010/02/26	3.8		%	50
	Spiked Blank	Benzo(a)pyrene	2010/02/26		86	%	60 - 130
		Benzo(a)pyrene	2010/02/26	5.1		%	50
	Spiked Blank	Benzo(b)fluoranthene	2010/02/26		79	%	60 - 130
		Benzo(b)fluoranthene	2010/02/26	1.6		%	50
	Spiked Blank	Benzo(g,h,i)perylene	2010/02/26		90	%	60 - 130
		Benzo(g,h,i)perylene	2010/02/26	3.7		%	50
	Spiked Blank	Benzo(k)fluoranthene	2010/02/26		101	%	60 - 130
		Benzo(k)fluoranthene	2010/02/26	1.9		%	50
	Spiked Blank	Chrysene	2010/02/26		91	%	60 - 130
		Chrysene	2010/02/26	7.0		%	50
	Spiked Blank	Dibenz(a,h)anthracene	2010/02/26		94	%	60 - 130
		Dibenz(a,h)anthracene	2010/02/26	4.5		%	50
	Spiked Blank	Fluoranthene	2010/02/26		95	%	60 - 130
		Fluoranthene	2010/02/26	4.2		%	50
	Spiked Blank	Fluorene	2010/02/26		77	%	60 - 130
		Fluorene	2010/02/26	0.2		%	50
	Spiked Blank	Indeno(1,2,3-cd)pyrene	2010/02/26		91	%	60 - 130
		Indeno(1,2,3-cd)pyrene	2010/02/26	4.2		%	50
Spiked Blank	Naphthalene	2010/02/26		78	%	60 - 130	
	Naphthalene	2010/02/26	1		%	50	
Spiked Blank	Phenanthrene	2010/02/26		83	%	60 - 130	
	Phenanthrene	2010/02/26	3.5		%	50	
Spiked Blank	Pyrene	2010/02/26		87	%	60 - 130	
	Pyrene	2010/02/26	2.5		%	50	
Method Blank	D10-2-Methylnaphthalene	2010/02/26		83	%	50 - 150	
	D10-Fluoranthene	2010/02/26		90	%	50 - 150	
	D10-Phenanthrene	2010/02/26		83	%	50 - 150	
	D12-Benzo(a)anthracene	2010/02/26		98	%	50 - 150	
	D12-Benzo(a)pyrene	2010/02/26		97	%	50 - 150	
	D12-Benzo(b)fluoranthene	2010/02/26		108	%	50 - 150	
	D12-Benzo(ghi)perylene	2010/02/26		94	%	50 - 150	
	D12-Benzo(k)fluoranthene	2010/02/26		90	%	50 - 150	
	D12-Chrysene	2010/02/26		105	%	50 - 150	

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB020056

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2083575 WZ	Method Blank	D12-Indeno(1,2,3-cd)pyrene	2010/02/26		94	%	50 - 150
		D12-Perylene	2010/02/26		98	%	50 - 150
		D14-Dibenzo(a,h)anthracene	2010/02/26		95	%	50 - 150
		D8-Acenaphthylene	2010/02/26		81	%	50 - 150
		D8-Naphthalene	2010/02/26		84	%	50 - 150
		1-Methylnaphthalene	2010/02/26	ND, RDL=0.10		ug	
		1-Methylphenanthrene	2010/02/26	ND, RDL=0.10		ug	
		2-Chloronaphthalene	2010/02/26	ND, RDL=0.10		ug	
		2-Methylanthracene	2010/02/26	ND, RDL=0.10		ug	
		2-Methylnaphthalene	2010/02/26	ND, RDL=0.10		ug	
		3-Methylcholanthrene	2010/02/26	ND, RDL=2.0		ug	
		7,12-Dimethylbenzo(a)anthracene	2010/02/26	ND, RDL=0.10		ug	
		9,10-Dimethylanthracene	2010/02/26	ND, RDL=0.40		ug	
		Acenaphthene	2010/02/26	ND, RDL=0.050		ug	
		Acenaphthylene	2010/02/26	ND, RDL=0.050		ug	
		Anthracene	2010/02/26	ND, RDL=0.050		ug	
		Benzo(a)anthracene	2010/02/26	ND, RDL=0.050		ug	
		Benzo(a)fluorene	2010/02/26	ND, RDL=0.10		ug	
		Benzo(a)pyrene	2010/02/26	ND, RDL=0.050		ug	
		Benzo(b)fluoranthene	2010/02/26	ND, RDL=0.050		ug	
		Benzo(b)fluorene	2010/02/26	ND, RDL=0.10		ug	
		Benzo(e)pyrene	2010/02/26	ND, RDL=0.10		ug	
		Benzo(g,h,i)perylene	2010/02/26	ND, RDL=0.050		ug	
		Benzo(k)fluoranthene	2010/02/26	ND, RDL=0.050		ug	
		Biphenyl	2010/02/26	ND, RDL=0.10		ug	
		Chrysene	2010/02/26	ND, RDL=0.050		ug	
		Coronene	2010/02/26	ND, RDL=0.10		ug	
		Dibenz(a,h)anthracene	2010/02/26	ND, RDL=0.050		ug	
		Dibenzo(a,e)pyrene	2010/02/26	ND, RDL=0.20		ug	
		Fluoranthene	2010/02/26	ND, RDL=0.050		ug	
		Fluorene	2010/02/26	ND, RDL=0.050		ug	
		Indeno(1,2,3-cd)pyrene	2010/02/26	ND, RDL=0.050		ug	
		m-Terphenyl	2010/02/26	ND, RDL=0.10		ug	
		Naphthalene	2010/02/26	0.072, RDL=0.072		ug	
		o-Terphenyl	2010/02/26	ND, RDL=0.10		ug	
		Perylene	2010/02/26	ND, RDL=0.10		ug	
		Phenanthrene	2010/02/26	ND, RDL=0.050		ug	
		p-Terphenyl	2010/02/26	ND, RDL=0.10		ug	
		Pyrene	2010/02/26	ND, RDL=0.050		ug	
		Quinoline	2010/02/26	ND, RDL=0.40		ug	
		Tetralin	2010/02/26	ND, RDL=0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

Maxxam Analytics Inc.

Tisch Hi-Vol PUF+ Sample Collection Data Sheet

Client: Lica
 Location: 13-16-62-5 W4M
 Station ID: Lica 33 (Portable)
 Field Sample ID: LICA PUF/PORT/Feb 19, 10

Puf+ s/n: 100-1015
 Motor s/n: 1139
 Installation Date/Time: Feb 18, 10 @ 14:10 mst
 Removal Date/Time: Feb 24, 10 @ 09:15 mst

Date and Time Information			
Sample Date	Start Time (MST)	End Time (MST)	Elapsed Time (Hours)
19-Feb-10	02/19/2010 0:00	02/20/2010 0:00	24.00

PUF and QFF Information			
Date Received	Date Shipped	Puf Expiration Date	QFF Prep Date
17-Feb-10	24-Feb-10	26-Feb-10	????

Set Flow Rate (slpm): 230

Date of Last Calibration: 02-Oct-09

Sampling Data			
Average Pressure(mmHg)	AverageFlow (Qstd slpm)	Average Temperature (C)	Volume (Vstd m ³)
720	229	-7.1	330.30

Time set correctly prior to sampling? YES
Timer set correctly prior to sampling? YES
Sampling data saved to memory card after sampling? YES

Comments: COC # (out of source COC forms, had to use a Summa COC form)

GB011404 PUFF#2

Ran with a 102mm Quartz Fiber Filter - Sample ID - LICA QFF/PORT/Feb 19, 10

- Small tear observed in 102mm QFF following the sampling period. PUFF seems to have shrunk away from the side of the glass holder in some spots.

Technician Signature: _____



Your Project #: LICA
Your C.O.C. #: 2899

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/09

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B023243
Received: 2010/02/26, 09:04

Sample Matrix: AIR
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Canister Pressure (TO-15)	2	N/A	2010/03/04	BRL SOP-00304	EPA TO-15
Volatile Organics in Air (TO-15) ¶	2	N/A	2010/03/04	BRL SOP-00304	EPA TO-15

Sample Matrix: Filter
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PAH's in Air (CARB429mod)	2	2010/03/01	2010/03/03	BRL SOP-00201	CARB429(ARBM1,M2)mod

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO14A. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO14A on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Maxxam for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

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

THERESA STEPHENSON, Project Manager
Email: Theresa.Stephenson@MaxxamAnalytics.com
Phone# (905) 817-5763

=====



Your Project #: LICA
Your C.O.C. #: 2899

Attention: Shea Beaton

Lakeland Industry & Community Assoc.
P.O. Box 8237
Bonnyville, AB
CANADA T9N 2J5

Report Date: 2010/03/09

CERTIFICATE OF ANALYSIS

-2-

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

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Total cover pages: 2

Page 2 of 16

Page 233 of 247

Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

RESULTS OF ANALYSES OF AIR

Maxxam ID		FE6107	FE6108	
Sampling Date		2010/02/19	2010/02/19	
COC Number		2899	2899	
	Units	LICAVOC/CLS/FEB19,10/7914	LICAVOC/PORT/FEB19,10/7814	QC Batch
Volatile Organics				
Pressure on Receipt	psig	19	20	2093742
QC Batch = Quality Control Batch				

Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

SEMI-VOLATILE ORGANICS BY GC-MS (FILTER)

Maxxam ID		FE6109	FE6110		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAQFF/PUF/CLS/FEB19,10	LICAQFF/PUF/PORT/FEB19,10	RDL	QC Batch
Semivolatile Organics					
1-Methylnaphthalene	ug	0.25	0.14	0.10	2090086
1-Methylphenanthrene	ug	<0.10	<0.10	0.10	2090086
2-Chloronaphthalene	ug	<0.10	<0.10	0.10	2090086
2-Methylanthracene	ug	<0.10	<0.10	0.10	2090086
2-Methylnaphthalene	ug	0.50	0.26	0.10	2090086
3-Methylcholanthrene	ug	<2.0	<2.0	2.0	2090086
7,12-Dimethylbenzo(a)anthracene	ug	<0.10	<0.10	0.10	2090086
9,10-Dimethylanthracene	ug	<0.40	<0.40	0.40	2090086
Acenaphthene	ug	0.062	<0.050	0.050	2090086
Acenaphthylene	ug	0.106	<0.050	0.050	2090086
Anthracene	ug	<0.050	<0.050	0.050	2090086
Benzo(a)anthracene	ug	<0.050	<0.050	0.050	2090086
Benzo(a)fluorene	ug	<0.10	<0.10	0.10	2090086
Benzo(a)pyrene	ug	<0.050	<0.050	0.050	2090086
Benzo(b)fluoranthene	ug	<0.050	<0.050	0.050	2090086
Benzo(b)fluorene	ug	<0.10	<0.10	0.10	2090086
Benzo(e)pyrene	ug	<0.10	<0.10	0.10	2090086
Benzo(g,h,i)perylene	ug	<0.050	<0.050	0.050	2090086
Benzo(k)fluoranthene	ug	<0.050	<0.050	0.050	2090086
Biphenyl	ug	0.20	0.15	0.10	2090086
Chrysene	ug	<0.050	<0.050	0.050	2090086
Coronene	ug	<0.10	<0.10	0.10	2090086
Dibenz(a,h)anthracene	ug	<0.050	<0.050	0.050	2090086
Dibenzo(a,e)pyrene	ug	<0.20	<0.20	0.20	2090086
Fluoranthene	ug	0.069	0.053	0.050	2090086
Fluorene	ug	0.133	0.099	0.050	2090086
Indeno(1,2,3-cd)pyrene	ug	<0.050	<0.050	0.050	2090086
m-Terphenyl	ug	<0.10	<0.10	0.10	2090086
Naphthalene	ug	0.383	0.171	0.072	2090086
o-Terphenyl	ug	<0.10	<0.10	0.10	2090086
Perylene	ug	<0.10	<0.10	0.10	2090086
Phenanthrene	ug	0.255	0.251	0.050	2090086
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

SEMI-VOLATILE ORGANICS BY GC-MS (FILTER)

Maxxam ID		FE6109	FE6110		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAQFF/PUF/CLS/FEB19,10	LICAQFF/PUF/PORT/FEB19,10	RDL	QC Batch
p-Terphenyl	ug	<0.10	<0.10	0.10	2090086
Pyrene	ug	0.052	<0.050	0.050	2090086
Quinoline	ug	<0.40	<0.40	0.40	2090086
Tetralin	ug	<0.10	<0.10	0.10	2090086
Surrogate Recovery (%)					
D10-2-Methylnaphthalene	%	81	79		2090086
D10-Fluoranthene	%	94	105		2090086
D10-Fluorene (FS)	%	68	62		2090086
D10-Phenanthrene	%	102	100		2090086
D12-Benzo(a)anthracene	%	99	108		2090086
D12-Benzo(a)pyrene	%	101	106		2090086
D12-Benzo(b)fluoranthene	%	118	94		2090086
D12-Benzo(ghi)perylene	%	98	100		2090086
D12-Benzo(k)fluoranthene	%	76	102		2090086
D12-Chrysene	%	102	108		2090086
D12-Indeno(1,2,3-cd)pyrene	%	95	99		2090086
D12-Perylene	%	102	106		2090086
D14-Dibenzo(a,h)anthracene	%	94	100		2090086
D14-Terphenyl (FS)	%	94	95		2090086
D8-Acenaphthylene	%	92	95		2090086
D8-Naphthalene	%	78	74		2090086
QC Batch = Quality Control Batch					

Maxxam Job #: B023243
Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
Client Project #: LICA

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FE6107	FE6108		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAVOC/CLS/FEB19,10/7914	LICAVOC/PORT/FEB19,10/7814	RDL	QC Batch

Volatile Organics					
2,2,4-Trimethylpentane	ppbv	<0.20	<0.20	0.20	2093792
Carbon Disulfide	ppbv	<0.50	<0.50	0.50	2093792
Propene	ppbv	<0.30	<0.30	0.30	2093792
Vinyl Acetate	ppbv	<0.20	<0.20	0.20	2093792
Vinyl Bromide	ppbv	<0.20	<0.20	0.20	2093792
Dichlorodifluoromethane (FREON 12)	ppbv	0.56	0.55	0.20	2093792
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	<0.17	0.17	2093792
Chloromethane	ppbv	0.56	0.58	0.30	2093792
Vinyl Chloride	ppbv	<0.18	<0.18	0.18	2093792
Chloroethane	ppbv	<0.30	<0.30	0.30	2093792
1,3-Butadiene	ppbv	<0.50	<0.50	0.50	2093792
Trichlorofluoromethane (FREON 11)	ppbv	0.30	0.30	0.20	2093792
Trichlorotrifluoroethane	ppbv	<0.15	<0.15	0.15	2093792
Ethanol	ppbv	<2.3	<2.3	2.3	2093792
2-propanol	ppbv	<3.0	<3.0	3.0	2093792
2-Propanone	ppbv	1.00	1.49	0.80	2093792
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3.0	<3.0	3.0	2093792
Methyl Isobutyl Ketone	ppbv	<3.2	<3.2	3.2	2093792
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2.0	<2.0	2.0	2093792
Methyl t-butyl ether (MTBE)	ppbv	<0.20	<0.20	0.20	2093792
Ethyl Acetate	ppbv	<2.2	<2.2	2.2	2093792
1,1-Dichloroethylene	ppbv	<0.25	<0.25	0.25	2093792
cis-1,2-Dichloroethylene	ppbv	<0.19	<0.19	0.19	2093792
trans-1,2-Dichloroethylene	ppbv	<0.20	<0.20	0.20	2093792
Methylene Chloride(Dichloromethane)	ppbv	0.37	0.37	0.30	2093792
Chloroform	ppbv	<0.15	<0.15	0.15	2093792
Carbon Tetrachloride	ppbv	<0.30	<0.30	0.30	2093792
1,1-Dichloroethane	ppbv	<0.20	<0.20	0.20	2093792
1,2-Dichloroethane	ppbv	<0.20	<0.20	0.20	2093792
Ethylene Dibromide	ppbv	<0.17	<0.17	0.17	2093792
1,1,1-Trichloroethane	ppbv	<0.30	<0.30	0.30	2093792
1,1,2-Trichloroethane	ppbv	<0.15	<0.15	0.15	2093792

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B023243
 Report Date: 2010/03/09

 Lakeland Industry & Community Assoc.
 Client Project #: LICA

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FE6107	FE6108		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAVOC/CLS/FEB19,10/7914	LICAVOC/PORT/FEB19,10/7814	RDL	QC Batch
1,1,2,2-Tetrachloroethane	ppbv	<0.20	<0.20	0.20	2093792
cis-1,3-Dichloropropene	ppbv	<0.18	<0.18	0.18	2093792
trans-1,3-Dichloropropene	ppbv	<0.17	<0.17	0.17	2093792
1,2-Dichloropropane	ppbv	<0.40	<0.40	0.40	2093792
Bromomethane	ppbv	<0.18	<0.18	0.18	2093792
Bromoform	ppbv	<0.20	<0.20	0.20	2093792
Bromodichloromethane	ppbv	<0.20	<0.20	0.20	2093792
Dibromochloromethane	ppbv	<0.20	<0.20	0.20	2093792
Heptane	ppbv	<0.30	<0.30	0.30	2093792
Trichloroethylene	ppbv	<0.30	<0.30	0.30	2093792
Tetrachloroethylene	ppbv	<0.20	<0.20	0.20	2093792
Benzene	ppbv	<0.18	<0.18	0.18	2093792
Toluene	ppbv	<0.20	<0.20	0.20	2093792
Ethylbenzene	ppbv	<0.20	<0.20	0.20	2093792
p+m-Xylene	ppbv	<0.37	<0.37	0.37	2093792
o-Xylene	ppbv	<0.20	<0.20	0.20	2093792
Styrene	ppbv	<0.20	<0.20	0.20	2093792
1,3,5-Trimethylbenzene	ppbv	<0.50	<0.50	0.50	2093792
1,2,4-Trimethylbenzene	ppbv	<0.50	<0.50	0.50	2093792
4-ethyltoluene	ppbv	<2.2	<2.2	2.2	2093792
Chlorobenzene	ppbv	<0.20	<0.20	0.20	2093792
Benzyl chloride	ppbv	<1.0	<1.0	1.0	2093792
1,3-Dichlorobenzene	ppbv	<0.40	<0.40	0.40	2093792
1,4-Dichlorobenzene	ppbv	<0.40	<0.40	0.40	2093792
1,2-Dichlorobenzene	ppbv	<0.40	<0.40	0.40	2093792
1,2,4-Trichlorobenzene	ppbv	<2.0	<2.0	2.0	2093792
Hexachlorobutadiene	ppbv	<3.0	<3.0	3.0	2093792
Hexane	ppbv	<0.30	<0.30	0.30	2093792
Cyclohexane	ppbv	<0.20	<0.20	0.20	2093792
Tetrahydrofuran	ppbv	<0.40	<0.40	0.40	2093792
1,4-Dioxane	ppbv	<2.0	<2.0	2.0	2093792
Xylene (Total)	ppbv	<0.60	<0.60	0.60	2093792
Surrogate Recovery (%)					
Bromochloromethane	%	82	78		2093792
QC Batch = Quality Control Batch					

Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		FE6107	FE6108		
Sampling Date		2010/02/19	2010/02/19		
COC Number		2899	2899		
	Units	LICAVOC/CLS/FEB19,10/7914	LICAVOC/PORT/FEB19,10/7814	RDL	QC Batch
D5-Chlorobenzene	%	67	66		2093792
Difluorobenzene	%	79	74		2093792
QC Batch = Quality Control Batch					

Maxxam Job #: B023243
 Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
 Client Project #: LICA

Test Summary

Maxxam ID FE6107
Sample ID LICAVOC/CLS/FEB19,10/7914
Matrix AIR
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2093742	N/A	2010/03/04	S_S
Volatile Organics in Air (TO-15)	GC/MS	2093792	N/A	2010/03/04	S_S

Maxxam ID FE6108
Sample ID LICAVOC/PORT/FEB19,10/7814
Matrix AIR
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2093742	N/A	2010/03/04	S_S
Volatile Organics in Air (TO-15)	GC/MS	2093792	N/A	2010/03/04	S_S

Maxxam ID FE6108 Dup
Sample ID LICAVOC/PORT/FEB19,10/7814
Matrix AIR
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Volatile Organics in Air (TO-15)	GC/MS	2093792	N/A	2010/03/04	S_S

Maxxam ID FE6109
Sample ID LICAQFF/PUF/CLS/FEB19,10
Matrix Filter
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2090086	2010/03/01	2010/03/03	WZ

Maxxam ID FE6110
Sample ID LICAQFF/PUF/PORT/FEB19,10
Matrix Filter
Collected 2010/02/19
Shipped
Received 2010/02/26

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PAH's in Air (CARB429mod)	GC/MS	2090086	2010/03/01	2010/03/03	WZ

Maxxam Job #: B023243
Report Date: 2010/03/09

Lakeland Industry & Community Assoc.
Client Project #: LICA

GENERAL COMMENTS

PAHMS-F

7,12-Dimethylbenzo(a)anthracene is above 25% RSD in initial calibration. No positives found for this compounds.

Not calibrated for Benzo(b)Anthracene, Picene, Dibenzo(a,c) anthracene or Triphenylene. An estimated mdl for each of these compounds is 0.1ug

. Since Dibenzo(a,c) anthracene co-elutes with Dibenzo(a,h) anthracene and Triphenylene with Chrysene each would have a value below estimated mdl.

Benzo(b)Anthracene elutes after Benzo(a)Anthracene and Chrysene. Picene elutes after Dibenzo(a,h) anthracene. Searched for ions specific to these 2 compounds in the appropriate retention time range with no possible positives detected.

Results relate only to the items tested.

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report
 Maxxam Job Number: GB023243

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits		
2090086 WZ	Spiked Blank	D10-2-Methylnaphthalene	2010/03/03		85	%	50 - 150		
		D10-Fluoranthene	2010/03/03		93	%	50 - 150		
		D10-Phenanthrene	2010/03/03		97	%	50 - 150		
		D12-Benzo(a)anthracene	2010/03/03		88	%	50 - 150		
		D12-Benzo(a)pyrene	2010/03/03		99	%	50 - 150		
		D12-Benzo(b)fluoranthene	2010/03/03		110	%	50 - 150		
		D12-Benzo(ghi)perylene	2010/03/03		91	%	50 - 150		
		D12-Benzo(k)fluoranthene	2010/03/03		89	%	50 - 150		
		D12-Chrysene	2010/03/03		106	%	50 - 150		
		D12-Indeno(1,2,3-cd)pyrene	2010/03/03		93	%	50 - 150		
		D12-Perylene	2010/03/03		99	%	50 - 150		
		D14-Dibenzo(a,h)anthracene	2010/03/03		94	%	50 - 150		
		RPD	Acenaphthylene	2010/03/03	2.7			%	50
	Acenaphthylene		2010/03/03		77		%	60 - 130	
	Acenaphthylene		2010/03/03	2.7			%	50	
	Anthracene		2010/03/03		73		%	60 - 130	
	Anthracene		2010/03/03	7.2			%	50	
	Benzo(a)anthracene		2010/03/03		96		%	60 - 130	
	Benzo(a)anthracene		2010/03/03	2.7			%	50	
	Benzo(a)pyrene		2010/03/03		82		%	60 - 130	
	Benzo(a)pyrene		2010/03/03	3.6			%	50	
	Benzo(b)fluoranthene		2010/03/03		72		%	60 - 130	
	Benzo(b)fluoranthene		2010/03/03	1.4			%	50	
	Benzo(g,h,i)perylene		2010/03/03		79		%	60 - 130	
	Benzo(g,h,i)perylene		2010/03/03	0.3			%	50	
	Benzo(k)fluoranthene		2010/03/03		100		%	60 - 130	
	Benzo(k)fluoranthene		2010/03/03	0.8			%	50	
	Spiked Blank		Chrysene	2010/03/03		87		%	60 - 130
			Chrysene	2010/03/03	2.0			%	50
		Dibenz(a,h)anthracene	2010/03/03		80		%	60 - 130	
		Dibenz(a,h)anthracene	2010/03/03	1.6			%	50	
		Fluoranthene	2010/03/03		89		%	60 - 130	
		Fluoranthene	2010/03/03	9.8			%	50	
		Fluorene	2010/03/03		76		%	60 - 130	
		Fluorene	2010/03/03	3.9			%	50	
		Indeno(1,2,3-cd)pyrene	2010/03/03		79		%	60 - 130	
		Indeno(1,2,3-cd)pyrene	2010/03/03	2.1			%	50	
		Naphthalene	2010/03/03		82		%	60 - 130	
		Naphthalene	2010/03/03	0.5			%	50	
		Spiked Blank	Phenanthrene	2010/03/03		71		%	60 - 130
Phenanthrene	2010/03/03		3.7			%	50		
Pyrene	2010/03/03			81		%	60 - 130		
Pyrene	2010/03/03		8.5			%	50		
Method Blank	D10-2-Methylnaphthalene		2010/03/03		83		%	50 - 150	
	D10-Fluoranthene		2010/03/03		94		%	50 - 150	
	D10-Phenanthrene		2010/03/03		95		%	50 - 150	
	D12-Benzo(a)anthracene		2010/03/03		83		%	50 - 150	
	D12-Benzo(a)pyrene		2010/03/03		96		%	50 - 150	
	D12-Benzo(b)fluoranthene		2010/03/03		110		%	50 - 150	
	D12-Benzo(ghi)perylene		2010/03/03		92		%	50 - 150	
	D12-Benzo(k)fluoranthene		2010/03/03		83		%	50 - 150	
	D12-Chrysene		2010/03/03		103		%	50 - 150	

Lakeland Industry & Community Assoc.
 Attention: Shea Beaton
 Client Project #: LICA
 P.O. #:
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB023243

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits	
2090086 WZ	Method Blank	D12-Indeno(1,2,3-cd)pyrene	2010/03/03		88	%	50 - 150	
		D12-Perylene	2010/03/03		99	%	50 - 150	
		D14-Dibenzo(a,h)anthracene	2010/03/03		89	%	50 - 150	
		D8-Acenaphthylene	2010/03/03		79	%	50 - 150	
		D8-Naphthalene	2010/03/03		83	%	50 - 150	
		1-Methylnaphthalene	2010/03/03		ND, RDL=0.10		ug	
		1-Methylphenanthrene	2010/03/03		ND, RDL=0.10		ug	
		2-Chloronaphthalene	2010/03/03		ND, RDL=0.10		ug	
		2-Methylantracene	2010/03/03		ND, RDL=0.10		ug	
		2-Methylnaphthalene	2010/03/03		ND, RDL=0.10		ug	
		3-Methylcholanthrene	2010/03/03		ND, RDL=2.0		ug	
		7,12-Dimethylbenzo(a)anthracene	2010/03/03		ND, RDL=0.10		ug	
		9,10-Dimethylantracene	2010/03/03		ND, RDL=0.40		ug	
		Acenaphthene	2010/03/03		ND, RDL=0.050		ug	
		Acenaphthylene	2010/03/03		ND, RDL=0.050		ug	
		Anthracene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(a)anthracene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(a)fluorene	2010/03/03		ND, RDL=0.10		ug	
		Benzo(a)pyrene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(b)fluoranthene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(b)fluorene	2010/03/03		ND, RDL=0.10		ug	
		Benzo(e)pyrene	2010/03/03		ND, RDL=0.10		ug	
		Benzo(g,h,i)perylene	2010/03/03		ND, RDL=0.050		ug	
		Benzo(k)fluoranthene	2010/03/03		ND, RDL=0.050		ug	
		Biphenyl	2010/03/03		ND, RDL=0.10		ug	
		Chrysene	2010/03/03		ND, RDL=0.050		ug	
		Coronene	2010/03/03		ND, RDL=0.10		ug	
		Dibenz(a,h)anthracene	2010/03/03		ND, RDL=0.050		ug	
		Dibenzo(a,e)pyrene	2010/03/03		ND, RDL=0.20		ug	
		Fluoranthene	2010/03/03		ND, RDL=0.050		ug	
		Fluorene	2010/03/03		ND, RDL=0.050		ug	
		Indeno(1,2,3-cd)pyrene	2010/03/03		ND, RDL=0.050		ug	
		m-Terphenyl	2010/03/03		ND, RDL=0.10		ug	
		Naphthalene	2010/03/03		ND, RDL=0.072		ug	
		o-Terphenyl	2010/03/03		ND, RDL=0.10		ug	
		Perylene	2010/03/03		ND, RDL=0.10		ug	
		Phenanthrene	2010/03/03		ND, RDL=0.050		ug	
		p-Terphenyl	2010/03/03		ND, RDL=0.10		ug	
		Pyrene	2010/03/03		ND, RDL=0.050		ug	
		Quinoline	2010/03/03		ND, RDL=0.40		ug	
Tetralin	2010/03/03		ND, RDL=0.10		ug			
2093792 S_S	Spiked Blank	Bromochloromethane	2010/03/04		105	%	60 - 140	
		D5-Chlorobenzene	2010/03/04		104	%	60 - 140	
		Difluorobenzene	2010/03/04		106	%	60 - 140	
		2,2,4-Trimethylpentane	2010/03/04		97	%	70 - 130	
		Carbon Disulfide	2010/03/04		84	%	70 - 130	
		Propene	2010/03/04		81	%	70 - 130	
		Vinyl Acetate	2010/03/04		104	%	70 - 130	
		Vinyl Bromide	2010/03/04		94	%	70 - 130	
		Dichlorodifluoromethane (FREON 12)	2010/03/04		95	%	70 - 130	
		1,2-Dichlorotetrafluoroethane	2010/03/04		80	%	70 - 130	
		Chloromethane	2010/03/04		82	%	70 - 130	
		Vinyl Chloride	2010/03/04		85	%	70 - 130	
		Chloroethane	2010/03/04		82	%	70 - 130	
		1,3-Butadiene	2010/03/04		76	%	70 - 130	

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2093792 S_S	Spiked Blank	Trichlorofluoromethane (FREON 11)	2010/03/04		103	%	70 - 130
		Trichlorotrifluoroethane	2010/03/04		88	%	70 - 130
		Ethanol	2010/03/04		91	%	70 - 130
		2-propanol	2010/03/04		93	%	70 - 130
		2-Propanone	2010/03/04		110	%	70 - 130
		Methyl Ethyl Ketone (2-Butanone)	2010/03/04		112	%	70 - 130
		Methyl Isobutyl Ketone	2010/03/04		103	%	70 - 130
		Methyl Butyl Ketone (2-Hexanone)	2010/03/04		110	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/03/04		91	%	70 - 130
		Ethyl Acetate	2010/03/04		94	%	70 - 130
		1,1-Dichloroethylene	2010/03/04		96	%	70 - 130
		cis-1,2-Dichloroethylene	2010/03/04		91	%	70 - 130
		trans-1,2-Dichloroethylene	2010/03/04		92	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/03/04		84	%	70 - 130
		Chloroform	2010/03/04		91	%	70 - 130
		Carbon Tetrachloride	2010/03/04		111	%	70 - 130
		1,1-Dichloroethane	2010/03/04		86	%	70 - 130
		1,2-Dichloroethane	2010/03/04		98	%	70 - 130
		Ethylene Dibromide	2010/03/04		100	%	70 - 130
		1,1,1-Trichloroethane	2010/03/04		104	%	70 - 130
		1,1,2-Trichloroethane	2010/03/04		93	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/03/04		94	%	70 - 130
		cis-1,3-Dichloropropene	2010/03/04		104	%	70 - 130
		trans-1,3-Dichloropropene	2010/03/04		108	%	70 - 130
		1,2-Dichloropropane	2010/03/04		84	%	70 - 130
		Bromomethane	2010/03/04		83	%	70 - 130
		Bromoform	2010/03/04		124	%	70 - 130
		Bromodichloromethane	2010/03/04		111	%	70 - 130
		Dibromochloromethane	2010/03/04		117	%	70 - 130
		Heptane	2010/03/04		100	%	70 - 130
		Trichloroethylene	2010/03/04		93	%	70 - 130
		Tetrachloroethylene	2010/03/04		100	%	70 - 130
		Benzene	2010/03/04		82	%	70 - 130
		Toluene	2010/03/04		97	%	70 - 130
		Ethylbenzene	2010/03/04		96	%	70 - 130
		p+m-Xylene	2010/03/04		99	%	70 - 130
		o-Xylene	2010/03/04		102	%	70 - 130
		Styrene	2010/03/04		86	%	70 - 130
		1,3,5-Trimethylbenzene	2010/03/04		102	%	70 - 130
		1,2,4-Trimethylbenzene	2010/03/04		103	%	70 - 130
		4-ethyltoluene	2010/03/04		107	%	70 - 130
		Chlorobenzene	2010/03/04		91	%	70 - 130
		Benzyl chloride	2010/03/04		113	%	70 - 130
		1,3-Dichlorobenzene	2010/03/04		102	%	70 - 130
		1,4-Dichlorobenzene	2010/03/04		102	%	70 - 130
		1,2-Dichlorobenzene	2010/03/04		102	%	70 - 130
		1,2,4-Trichlorobenzene	2010/03/04		107	%	70 - 130
		Hexachlorobutadiene	2010/03/04		118	%	70 - 130
		Hexane	2010/03/04		91	%	70 - 130
		Cyclohexane	2010/03/04		101	%	70 - 130
		Tetrahydrofuran	2010/03/04		97	%	70 - 130
		1,4-Dioxane	2010/03/04		89	%	70 - 130
	Method Blank	Bromochloromethane	2010/03/04		86	%	60 - 140
		D5-Chlorobenzene	2010/03/04		72	%	60 - 140
		Difluorobenzene	2010/03/04		86	%	60 - 140

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2093792 S_S	Method Blank	2,2,4-Trimethylpentane	2010/03/04	ND, RDL=0.20		ppbv	
		Carbon Disulfide	2010/03/04	ND, RDL=0.50		ppbv	
		Propene	2010/03/04	ND, RDL=0.30		ppbv	
		Vinyl Acetate	2010/03/04	ND, RDL=0.20		ppbv	
		Vinyl Bromide	2010/03/04	ND, RDL=0.20		ppbv	
		Dichlorodifluoromethane (FREON 12)	2010/03/04	ND, RDL=0.20		ppbv	
		1,2-Dichlorotetrafluoroethane	2010/03/04	ND, RDL=0.17		ppbv	
		Chloromethane	2010/03/04	ND, RDL=0.30		ppbv	
		Vinyl Chloride	2010/03/04	ND, RDL=0.18		ppbv	
		Chloroethane	2010/03/04	ND, RDL=0.30		ppbv	
		1,3-Butadiene	2010/03/04	ND, RDL=0.50		ppbv	
		Trichlorofluoromethane (FREON 11)	2010/03/04	ND, RDL=0.20		ppbv	
		Trichlorotrifluoroethane	2010/03/04	ND, RDL=0.15		ppbv	
		Ethanol	2010/03/04	ND, RDL=2.3		ppbv	
		2-propanol	2010/03/04	ND, RDL=3.0		ppbv	
		2-Propanone	2010/03/04	ND, RDL=0.80		ppbv	
		Methyl Ethyl Ketone (2-Butanone)	2010/03/04	ND, RDL=3.0		ppbv	
		Methyl Isobutyl Ketone	2010/03/04	ND, RDL=3.2		ppbv	
		Methyl Butyl Ketone (2-Hexanone)	2010/03/04	ND, RDL=2.0		ppbv	
		Methyl t-butyl ether (MTBE)	2010/03/04	ND, RDL=0.20		ppbv	
		Ethyl Acetate	2010/03/04	ND, RDL=2.2		ppbv	
		1,1-Dichloroethylene	2010/03/04	ND, RDL=0.25		ppbv	
		cis-1,2-Dichloroethylene	2010/03/04	ND, RDL=0.19		ppbv	
		trans-1,2-Dichloroethylene	2010/03/04	ND, RDL=0.20		ppbv	
		Methylene Chloride(Dichloromethane)	2010/03/04	ND, RDL=0.30		ppbv	
		Chloroform	2010/03/04	ND, RDL=0.15		ppbv	
		Carbon Tetrachloride	2010/03/04	ND, RDL=0.30		ppbv	
		1,1-Dichloroethane	2010/03/04	ND, RDL=0.20		ppbv	
		1,2-Dichloroethane	2010/03/04	ND, RDL=0.20		ppbv	
		Ethylene Dibromide	2010/03/04	ND, RDL=0.17		ppbv	
		1,1,1-Trichloroethane	2010/03/04	ND, RDL=0.30		ppbv	
		1,1,2-Trichloroethane	2010/03/04	ND, RDL=0.15		ppbv	
		1,1,2,2-Tetrachloroethane	2010/03/04	ND, RDL=0.20		ppbv	
		cis-1,3-Dichloropropene	2010/03/04	ND, RDL=0.18		ppbv	
		trans-1,3-Dichloropropene	2010/03/04	ND, RDL=0.17		ppbv	
		1,2-Dichloropropane	2010/03/04	ND, RDL=0.40		ppbv	
		Bromomethane	2010/03/04	ND, RDL=0.18		ppbv	
		Bromoform	2010/03/04	ND, RDL=0.20		ppbv	
		Bromodichloromethane	2010/03/04	ND, RDL=0.20		ppbv	
		Dibromochloromethane	2010/03/04	ND, RDL=0.20		ppbv	
		Heptane	2010/03/04	ND, RDL=0.30		ppbv	
		Trichloroethylene	2010/03/04	ND, RDL=0.30		ppbv	
		Tetrachloroethylene	2010/03/04	ND, RDL=0.20		ppbv	
		Benzene	2010/03/04	ND, RDL=0.18		ppbv	
		Toluene	2010/03/04	ND, RDL=0.20		ppbv	
		Ethylbenzene	2010/03/04	ND, RDL=0.20		ppbv	
		p+m-Xylene	2010/03/04	ND, RDL=0.37		ppbv	
		o-Xylene	2010/03/04	ND, RDL=0.20		ppbv	
		Styrene	2010/03/04	ND, RDL=0.20		ppbv	
		1,3,5-Trimethylbenzene	2010/03/04	ND, RDL=0.50		ppbv	
		1,2,4-Trimethylbenzene	2010/03/04	ND, RDL=0.50		ppbv	
		4-ethyltoluene	2010/03/04	ND, RDL=2.2		ppbv	
		Chlorobenzene	2010/03/04	ND, RDL=0.20		ppbv	
		Benzyl chloride	2010/03/04	ND, RDL=1.0		ppbv	
		1,3-Dichlorobenzene	2010/03/04	ND, RDL=0.40		ppbv	

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2093792 S_S	Method Blank	1,4-Dichlorobenzene	2010/03/04	ND, RDL=0.40		ppbv	
		1,2-Dichlorobenzene	2010/03/04	ND, RDL=0.40		ppbv	
		1,2,4-Trichlorobenzene	2010/03/04	ND, RDL=2.0		ppbv	
		Hexachlorobutadiene	2010/03/04	ND, RDL=3.0		ppbv	
		Hexane	2010/03/04	ND, RDL=0.30		ppbv	
		Cyclohexane	2010/03/04	ND, RDL=0.20		ppbv	
		Tetrahydrofuran	2010/03/04	ND, RDL=0.40		ppbv	
		1,4-Dioxane	2010/03/04	ND, RDL=2.0		ppbv	
		Xylene (Total)	2010/03/04	ND, RDL=0.60		ppbv	
	RPD - Sample/Sample Dup	2,2,4-Trimethylpentane	2010/03/04	NC		%	25
		Carbon Disulfide	2010/03/04	NC		%	25
		Propene	2010/03/04	NC		%	25
		Vinyl Acetate	2010/03/04	NC		%	25
		Vinyl Bromide	2010/03/04	NC		%	25
		Dichlorodifluoromethane (FREON 12)	2010/03/04	NC		%	25
		1,2-Dichlorotetrafluoroethane	2010/03/04	NC		%	25
		Chloromethane	2010/03/04	NC		%	25
		Vinyl Chloride	2010/03/04	NC		%	25
		Chloroethane	2010/03/04	NC		%	25
		1,3-Butadiene	2010/03/04	NC		%	25
		Trichlorofluoromethane (FREON 11)	2010/03/04	NC		%	25
		Trichlorotrifluoroethane	2010/03/04	NC		%	25
		Ethanol	2010/03/04	NC		%	25
		2-propanol	2010/03/04	NC		%	25
		2-Propanone	2010/03/04	NC		%	25
		Methyl Ethyl Ketone (2-Butanone)	2010/03/04	NC		%	25
		Methyl Isobutyl Ketone	2010/03/04	NC		%	25
		Methyl Butyl Ketone (2-Hexanone)	2010/03/04	NC		%	25
		Methyl t-butyl ether (MTBE)	2010/03/04	NC		%	25
		Ethyl Acetate	2010/03/04	NC		%	25
		1,1-Dichloroethylene	2010/03/04	NC		%	25
		cis-1,2-Dichloroethylene	2010/03/04	NC		%	25
		trans-1,2-Dichloroethylene	2010/03/04	NC		%	25
		Methylene Chloride(Dichloromethane)	2010/03/04	NC		%	25
		Chloroform	2010/03/04	NC		%	25
		Carbon Tetrachloride	2010/03/04	NC		%	25
		1,1-Dichloroethane	2010/03/04	NC		%	25
		1,2-Dichloroethane	2010/03/04	NC		%	25
		Ethylene Dibromide	2010/03/04	NC		%	25
		1,1,1-Trichloroethane	2010/03/04	NC		%	25
		1,1,2-Trichloroethane	2010/03/04	NC		%	25
		1,1,2,2-Tetrachloroethane	2010/03/04	NC		%	25
		cis-1,3-Dichloropropene	2010/03/04	NC		%	25
		trans-1,3-Dichloropropene	2010/03/04	NC		%	25
		1,2-Dichloropropane	2010/03/04	NC		%	25
		Bromomethane	2010/03/04	NC		%	25
		Bromoform	2010/03/04	NC		%	25
		Bromodichloromethane	2010/03/04	NC		%	25
		Dibromochloromethane	2010/03/04	NC		%	25
		Heptane	2010/03/04	NC		%	25
		Trichloroethylene	2010/03/04	NC		%	25
		Tetrachloroethylene	2010/03/04	NC		%	25
		Benzene	2010/03/04	NC		%	25

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2093792 S_S	RPD - Sample/Sample Dup	Toluene	2010/03/04	NC		%	25
		Ethylbenzene	2010/03/04	NC		%	25
		p+m-Xylene	2010/03/04	NC		%	25
		o-Xylene	2010/03/04	NC		%	25
		Styrene	2010/03/04	NC		%	25
		1,3,5-Trimethylbenzene	2010/03/04	NC		%	25
		1,2,4-Trimethylbenzene	2010/03/04	NC		%	25
		4-ethyltoluene	2010/03/04	NC		%	25
		Chlorobenzene	2010/03/04	NC		%	25
		Benzyl chloride	2010/03/04	NC		%	25
		1,3-Dichlorobenzene	2010/03/04	NC		%	25
		1,4-Dichlorobenzene	2010/03/04	NC		%	25
		1,2-Dichlorobenzene	2010/03/04	NC		%	25
		1,2,4-Trichlorobenzene	2010/03/04	NC		%	25
		Hexachlorobutadiene	2010/03/04	NC		%	25
		Hexane	2010/03/04	NC		%	25
		Cyclohexane	2010/03/04	NC		%	25
		Tetrahydrofuran	2010/03/04	NC		%	25
		1,4-Dioxane	2010/03/04	NC		%	25
		Xylene (Total)	2010/03/04	NC		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.