CENTER FOR TOXICOLOGY
AND ENVIRONMENTAL HEALTH, LLC

CTEH® Project #40442
West Fertilizer Plant Explosion
Summary of Air Monitoring Results
April 24, 2013 07:00

This data report discusses real-time air monitoring data collected between 4/23/2013 16:00 and 4/24/2013 04:00 in support of remediation operations conducted near the West Fertilizer Plant Explosion in West, TX.

Real-time air monitoring was conducted for VOCs, ammonia (NH_3), nitrogen dioxide (NO_2), Percent of the lower explosive limit (LEL) and oxygen (O_2) using remote-telemetering RAESystems® AreaRAEs.

Table 1 (Below) displays results for AreaRAE monitoring stations for this reporting period. Site maps and charts are available as attachments.

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Table 1
Stationary AreaRAE Monitoring Stations Data Logged
4/23/2013 16:00 to 4/24/2013 04:00

Unit	Analyte	Count of Readings	Count of Detections	Average of Detections	Max Detection
AR13	LEL	2815	0	NA	< 1 %
	NH3	2815	0	NA	< 1 ppm
	NO2	2815	0	NA	< 0.1 ppm
	O2	2815	2815	20.9 %	20.9 %
	VOC	2815	0	NA	< 0.1 ppm
AR14	LEL	2878	0	NA	< 1 %
	NH3	2878	0	NA	< 1 ppm
	NO2	2878	0	NA	< 0.1 ppm
	O2	2878	2878	20.8 %	20.9 %
	VOC	2878	0	NA	< 0.1 ppm
AR16 Mobile Down Wind Unit	LEL	2820	0	NA	< 1 %
	NH3	2820	0	NA	< 1 ppm
	NO2	2820	0	NA	< 0.1 ppm
	O2	2820	2820	20.9%	20.9 %
	VOC	2820	0	NA	< 0.1 ppm
AR17	LEL	2785	0	NA	< 1 %
	NH3	2785	0	NA	< 1 ppm
	NO2	2785	0	NA	< 0.1 ppm
	O2	2785	2785	20.7 %	20.9 %
	VOC	2785	0	NA	< 0.1 ppm
AR18	LEL	2639	0	NA	< 1 %
	NH3	2639	0	NA	< 1 ppm
	NO2	2639	0	NA	< 0.1 ppm
	O2	2639	2639	20.4%	20.6 %
	VOC	2639	0	NA	< 0.1 ppm

[1] *The data in this table may include electronic drift. Drift is defined as any interference in the electrochemical sensor's ability to accurately report the concentration of a chemical in the atmosphere. Humidity and temperature changes throughout the monitoring period are typical sources of drift. Additionally, the data has not undergone complete QAQC as of this time.*

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Appendix

Air Monitoring Zone Classifications[1]
April 24, 2013

Project: 40442
Client: OMI
City: West, TX
County: McLennan

[1] All monitoring performed outside of the Work Area boundary and the Rail Road right of way is considered Community Monitoring.

Projection System: *UTM Zone 14* **Coordinate System:** *WGS84* **Print Date:** *4/24/2013*

AreaRAE Monitoring Station Locations
4/23/2013 16:00 to 4/24/2013 04:00

Project: 40442
Client: OMI
City: West, TX
County: McLennan

Projection System: *UTM Zone 14* **Coordinate System:** *WGS84*

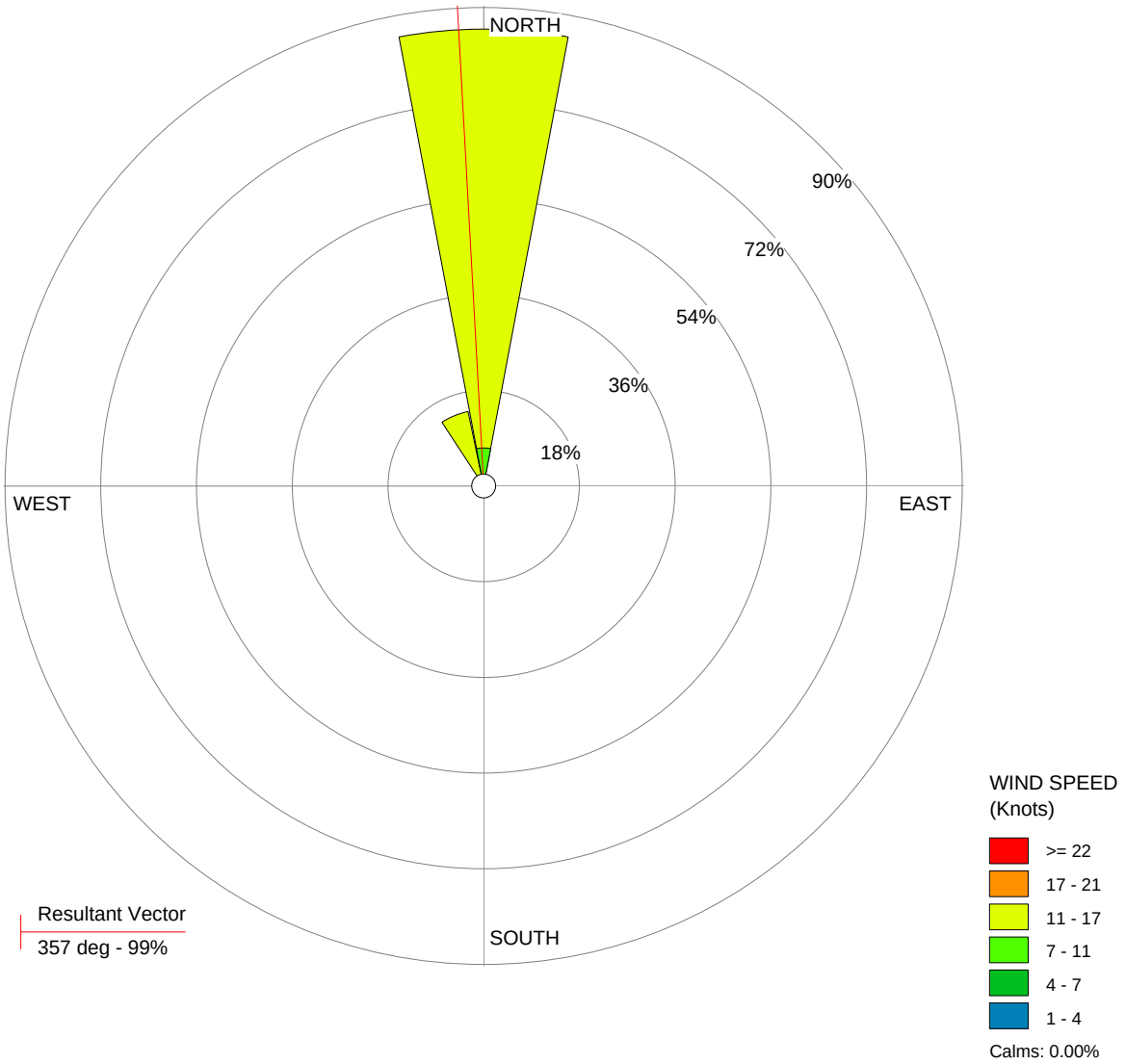
Print Date: *4/24/2013*

WIND ROSE PLOT:

Wind Speed and Direction 4/23/2013 16:00 to 4/24/2013 04:00
West, Tx

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:

Met Station: KACT Waco, TX

COMPANY NAME:

CTEH

MODELER:

Jason Callahan

CALM WINDS:

0.00%

AVG. WIND SPEED:

14.36 Knots

PROJECT NO.:

40442 - OMI

WRPLOT View - Lakes Environmental Software