CENTER FOR TOXICOLOGY AND ENVIRONMENTAL HEALTH, LLC

CTEH® Project #40442
West Fertilizer Plant Explosion
Summary of Air Monitoring Results
May 5, 2013 10:00

This data report discusses real-time air monitoring data collected between 5/4/2013 07:00 and 5/5/2013 07:00 in support of remediation operations conducted near the West Fertilizer Plant Explosion in West, TX.

Real-time air monitoring was conducted for VOCs and ammonia (NH_3) using remote-telemeting RAESystems® AreaRAEs.

Table 1 (below) displays the data summary for AreaRAE instruments. Hand-held instruments were not employed during this period. Site maps and charts are available as attachments.

Table 1
Data Logged Stationary AreaRAE Monitoring Stations
05/04/2013 07:00 to 05/05/2013 07:00

Unit	Analyte	Count of Readings	Count of Detections	Average of Detections	Max Detection
AR13	NH3	5730	0	NA	< 1 ppm
	VOC	5730	0	NA	< 0.1 ppm
AR14	NH3	5726	0	NA	< 1 ppm
	VOC	5726	0	NA	< 0.1 ppm
AR16 Mobile Down Wind Unit	NH3	5586	0	NA	< 1 ppm
	VOC	5586	0	NA	< 0.1 ppm
AR17	NH3	5724	0	NA	< 1 ppm
	VOC	5724	0	NA	< 0.1 ppm
AR18	NH3	5615	0	NA	< 1 ppm
	VOC	5615	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]
May 05, 2013

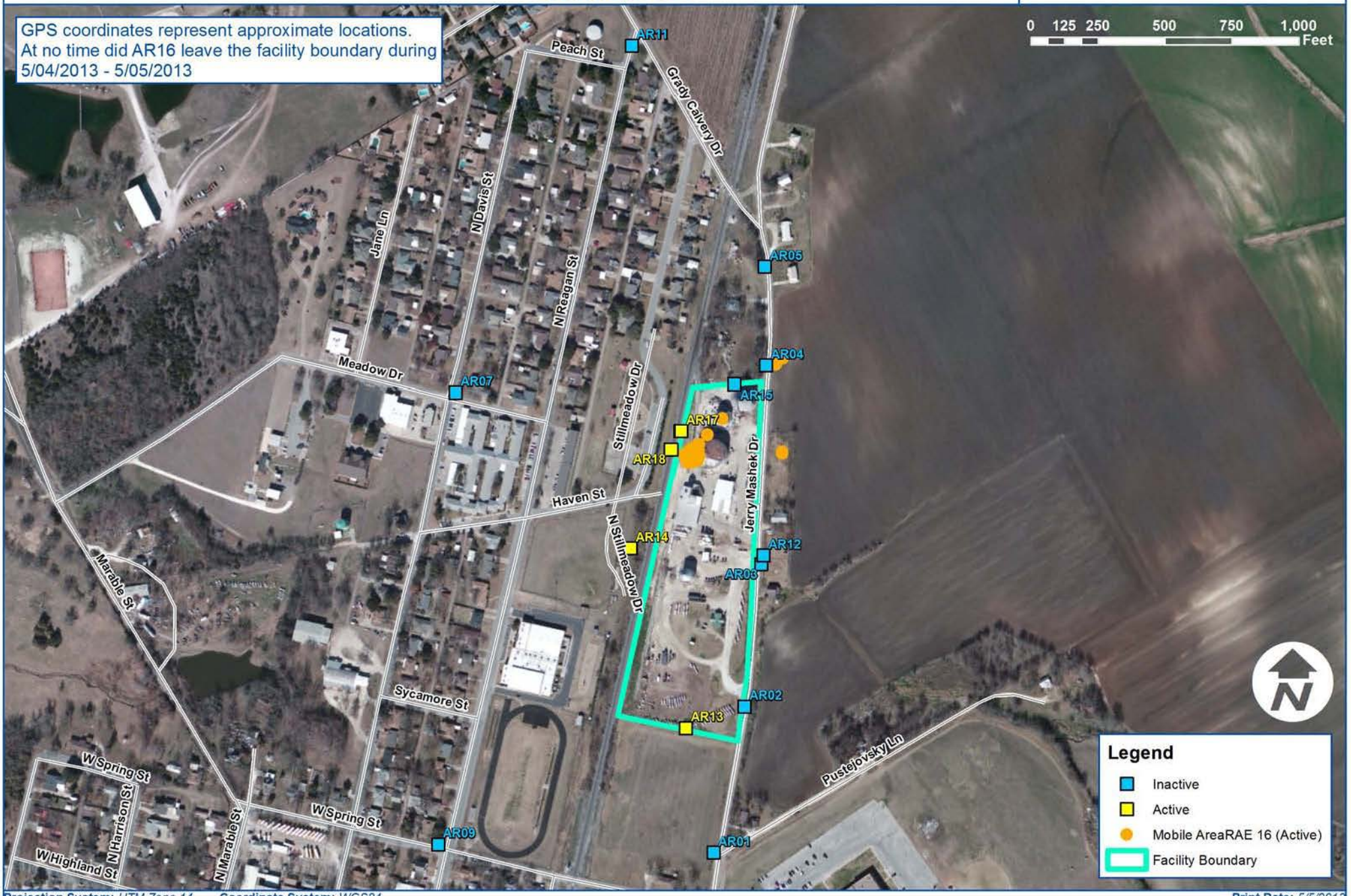
Project: 40442
Client: OMI
City: West, TX
County: McLennan

[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:** *5/5/2013*

AreaRAE Monitoring Station Locations 5/05/2013

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



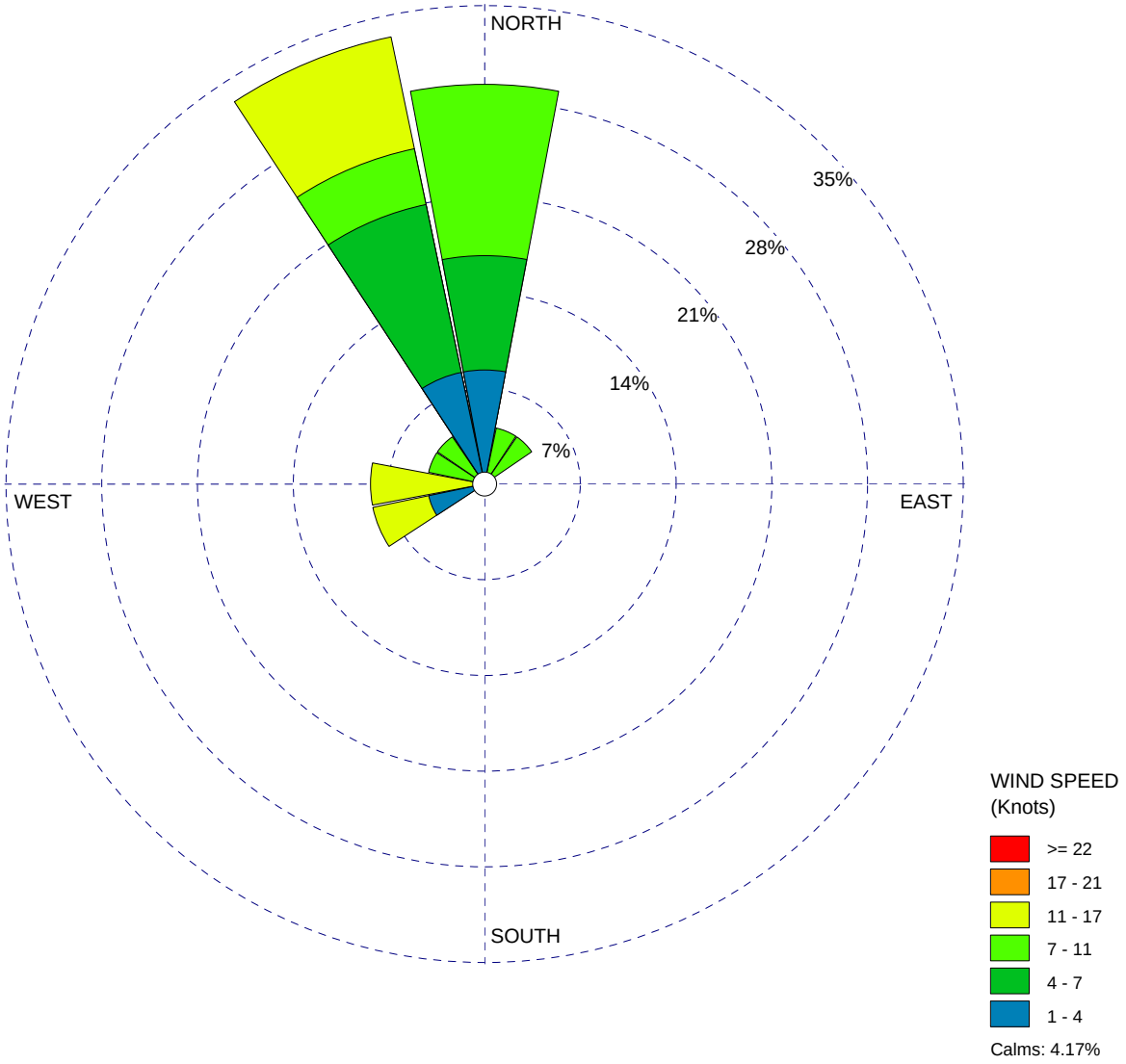
Projection System: *UTM Zone 14* **Coordinate System:** *WGS84* **Print Date:** *5/5/2013*

WIND ROSE PLOT:

Wind Speed and Direction 5/4/2013 07:00 to 5/5/2013 07:00
West, TX

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:		COMPANY NAME:	
Met Station: KACT Waco, TX		**CTEH**	
		MODELER: **Lloyd Long**	
	CALM WINDS: **4.17%**		
	AVG. WIND SPEED: **7.67 Knots**		PROJECT NO.: **40442-OMI**

WRPLOT View - Lakes Environmental Software