CTEH® Project No. 40402
West Fertilizer Plant Explosion
Preliminary Summary of Real-Time Hand-Held Monitoring Results
April 18, 2013

This data report discusses real-time air monitoring data collected between the time CTEH® arrived on Site and 9:55 on April 18, 2013 in support of remediation operations conducted near the West Fertilizer Plan Explosion in West, TX.

Hand-held real-time air monitoring was conducted for particulate matter (as PM_{10}), VOCs, ammonia (NH_3), nitrogen dioxide (NO_2), lower explosive limit (LEL) and oxygen (O_2) using handheld instruments including the AM510, MultiRAE and colorimetric detector tubes. The table below displays a data summary for the hand-held real-time[1].

Table 1
Preliminary Summary of Hand-Held Real-Time Data

Analyte	Instrument	Number of Readings	Number of Detections	Average of Detections	Highest Concentration
Community					
Ammonia (ppm)	MultiRAE	22	0	NA	< 1.0 ppm
Ammonia #3L (ppm)	Gastec	4	0	NA	< 0.2 ppm
LEL (%)	MultiRAE	1	0	NA	< 1 %
NO2 (ppm)	MultiRAE	2	0	NA	< 0.1 ppm
NO2 #9L (ppm)	Gastec	4	0	NA	< 0.1 ppm
O2 (%)	MultiRAE	2	2	20.9 %	20.9 %
PM10 (mg/m3)	AM510	21	21	0.022 mg/m3	0.19 mg/m3
VOC (ppm)	MultiRAE	4	0	NA	< 0.1 ppm
Middle School					
Ammonia (ppm)	MultiRAE	1	0	NA	< 1.0 ppm

[1] While real-time air monitoring efforts conducted by CTEH® includes both hand-held and remote-telemeting stations, only the results from hand-held monitoring are included in this summary. Results from remote-telemeting stations will be included in future daily data deliverables. Please note: the data displayed here has not undergone QA/QC analysis and is presented in a preliminary format.