

**40365 Braithwaite, LA
Stolthaven Terminal Facility
Onsite Summary of Air Monitoring and Sampling Results
October 4, 2012
PO# 12-H0408-MR**

This data report discusses real-time air monitoring data collected within the work area between October 3rd 00:00 and October 3rd 23:59 in support of mitigation and remediation operations conducted near Stolthaven’s facility near Braithwaite, LA.

Real-time air monitoring conducted within the work area resulted in reports of detections exceeding the action level required for the donning of respiratory protection. A maximum VOC detection of 35.3 ppm was observed approximately 6 feet from Tank H30-6 (1-octene); however, a second VOC reading, taken at a distance of 20 yards from the tank, was recorded as 0.4 ppm. No workers were present at the time of this reading. While stationary AreaRAE results indicate detections of VOCs at nine locations within the work area, these results are preliminary and may include drift in the instrument’s chemical sensors. A maximum VOC detection of 55.9 ppm was observed at approximately 08:30. CTEH® personnel dispatched to the site confirmed this reading and suggested vehicular exhaust from an adjacent fuel truck was the VOC source. Two AreaRAE units had detections of LEL; however, upon CTEH® investigation, all LEL detections were determined to be due to sensor drift.

Real-time air monitoring for VOCs and LEL was conducted using stationary AreaRAEs and/or hand-held instruments including the MultiRAE. Table 1 and Table 2 display data summaries for hand-held instruments and AreaRAEs respectively. Table 3 highlights analytical sample counts collected for onsite air, product quality and waste characterization. Appendix 1 shows incident site maps.

**Table 1
Hand-held Real-time Summary – October 3rd 00:00 – 23:59**

Work Area				
Analyte	Number of Readings	Number of Detections	Average Concentration of Detections	Highest Concentration
Formic Acid	2	0	NA	< 0.52 ppm
LEL	775	0	NA	< 1.0 %
Methyl Acrylate	2	0	NA	< 0.2 ppm
VOC	783	4	9.6 ppm	35.3 ppm

NA = not applicable

* In addition to the tabulated real-time data, additional air monitoring for the purpose of worker protection was performed throughout the work area. These data are used for task-specific decision-making, but may not be recorded in the tabulated data represented above.

**Table 2
AreaRAE Summary – October 2nd 00:00 – 23:59**

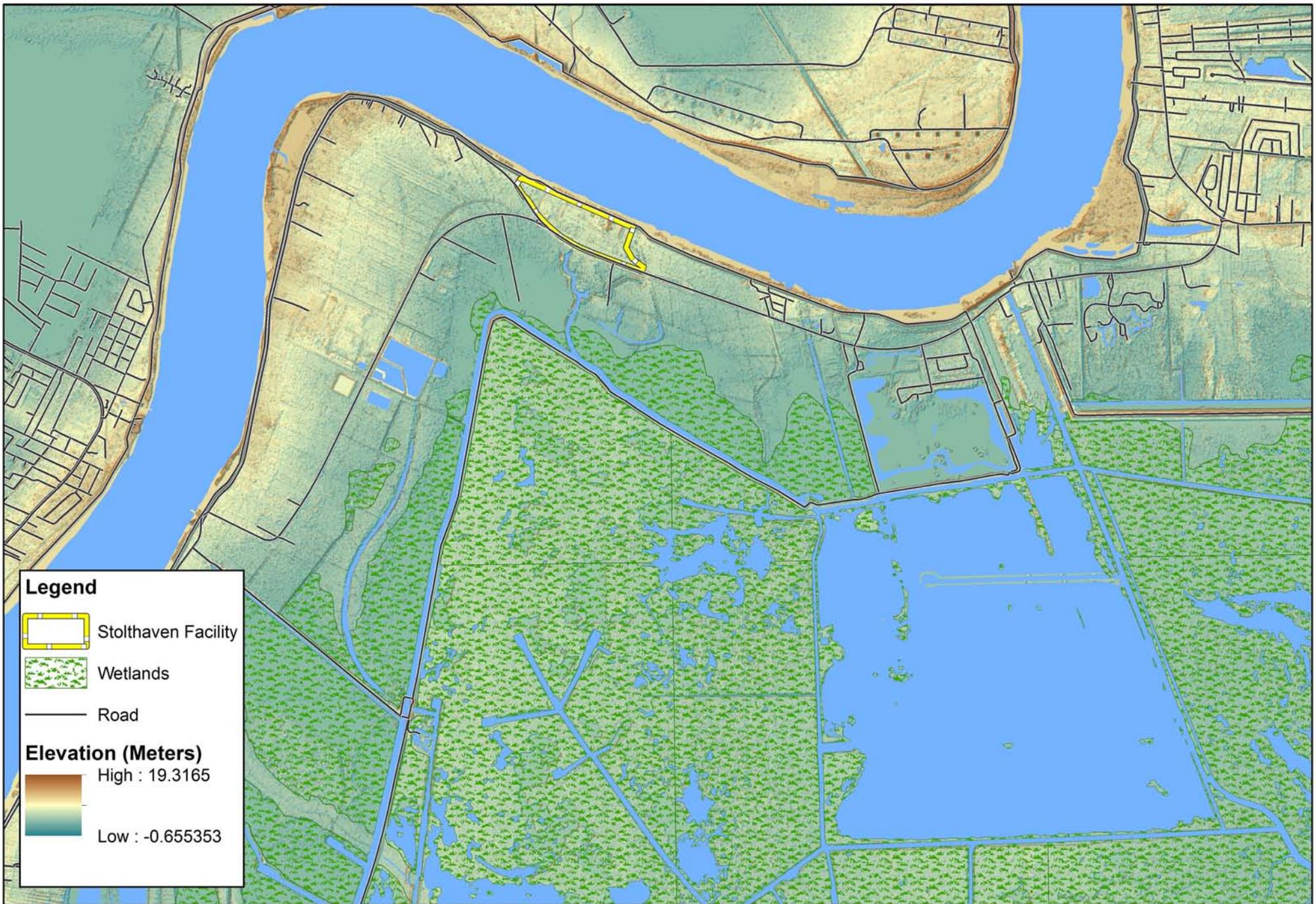
Unit	Analyte	Number of Readings	Number Of Detections	Concentration Range
Unit 14	LEL	5618	0	0 - 0 %
	VOC	5618	326	0.1 - 4 ppm
Unit 15	LEL	5623	0	0 - 0 %
	VOC	5623	0	0 - 0 ppm
Unit 16	LEL	5535	0	0 - 0 %
	VOC	5535	24	0.1 - 1.3 ppm
Unit 17	LEL	5578	7	4.2 - 5.4 %
	VOC	5578	20	0.1 - 0.5 ppm
Unit 18	LEL	5612	0	0 - 0 %
	VOC	5612	0	0 - 0 ppm
Unit 19	LEL	5564	0	0 - 0 %
	VOC	5564	1	0.1 - 0.1 ppm
Unit 20	LEL	5654	0	0 - 0 %
	VOC	5654	0	0 - 0 ppm
Unit 21	LEL	5417	323	2.6 - 4.1 %
	VOC	5417	140	0.1 - 1.1 ppm
Unit 22	LEL	5326	0	0 - 0 %
	VOC	5326	76	0.1 - 0.2 ppm
Unit 23	LEL	5310	0	0 - 0 %
	VOC	5310	147	0.1 - 0.7 ppm
Unit 24	LEL	5549	0	0 - 0 %
	VOC	5549	100	0.1 - 1 ppm
Unit 25	LEL	5259	0	0 - 0 %
	VOC	5259	43	0.1 - 55.9 ppm

***Detections may include drift events** - Drift is defined as any interference in the 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.

Table 3
Analytical Sample Counts – October 3rd 00:00 – 23:59

Matrix	Number of Samples
Air	4
Product Quality	7
Waste Characterization	6

Appendix 1: Incident Maps



Legend

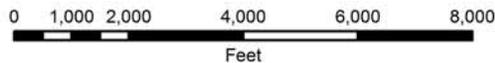
-  Stolthaven Facility
-  Wetlands
-  Road

Elevation (Meters)

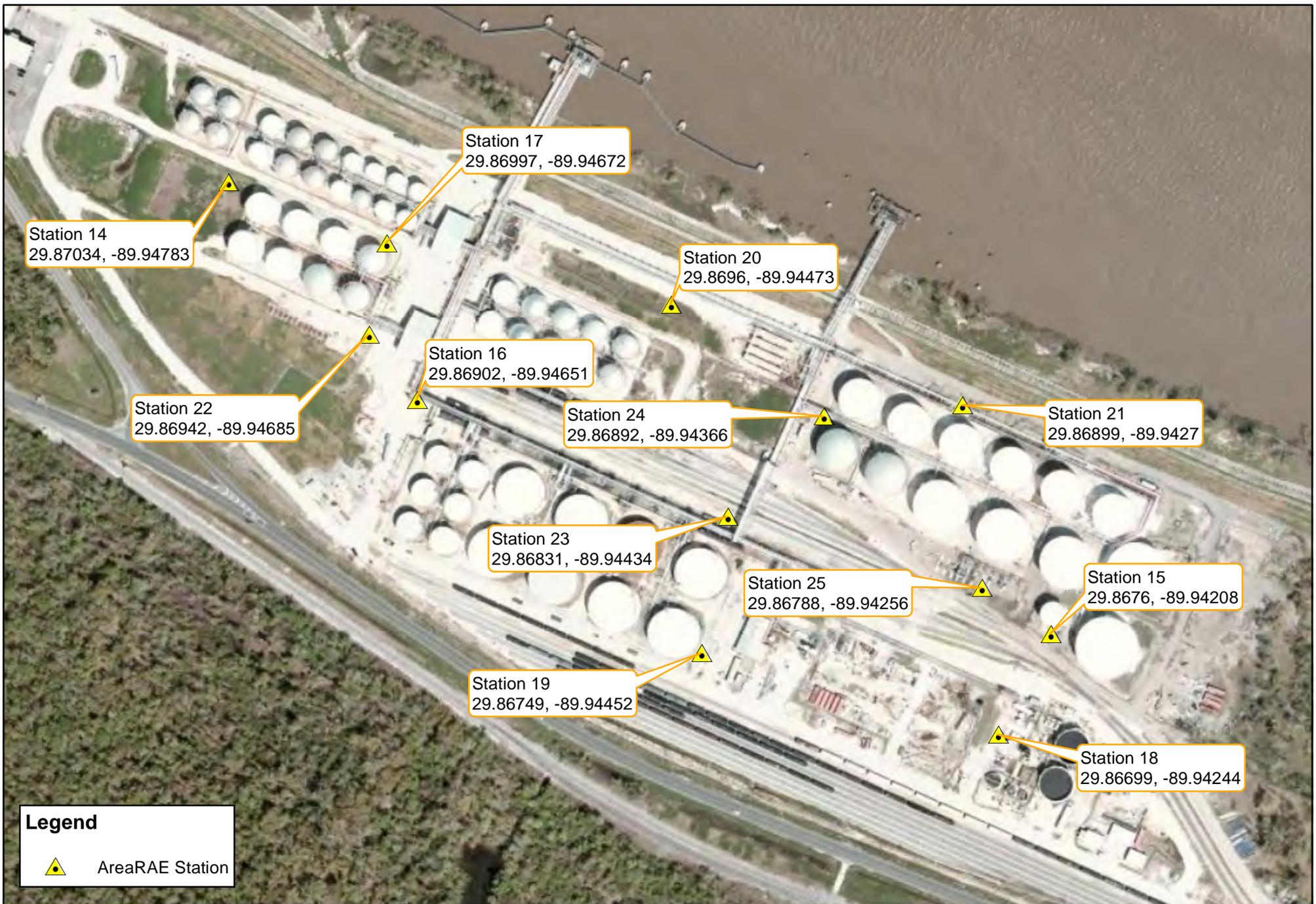
High : 19.3165

Low : -0.655353

**Stolthaven Facility
Shaded Relief of Elevation**



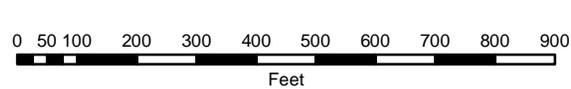
CTEH <small>Project No. 40355</small>	Stolthaven
	Braithwaite, LA
	Plaquemines Parish
Print Date: 9/17/2012	



Legend

 AreaRAE Station

Work Area
AreaRAE Station Locations
September 21, 2012



CTEH
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40365

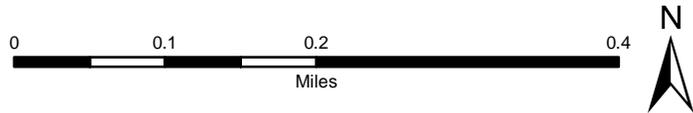
Stolthaven
Braithwaite, LA
Plaquemines Parish
Print Date: 9/26/2012



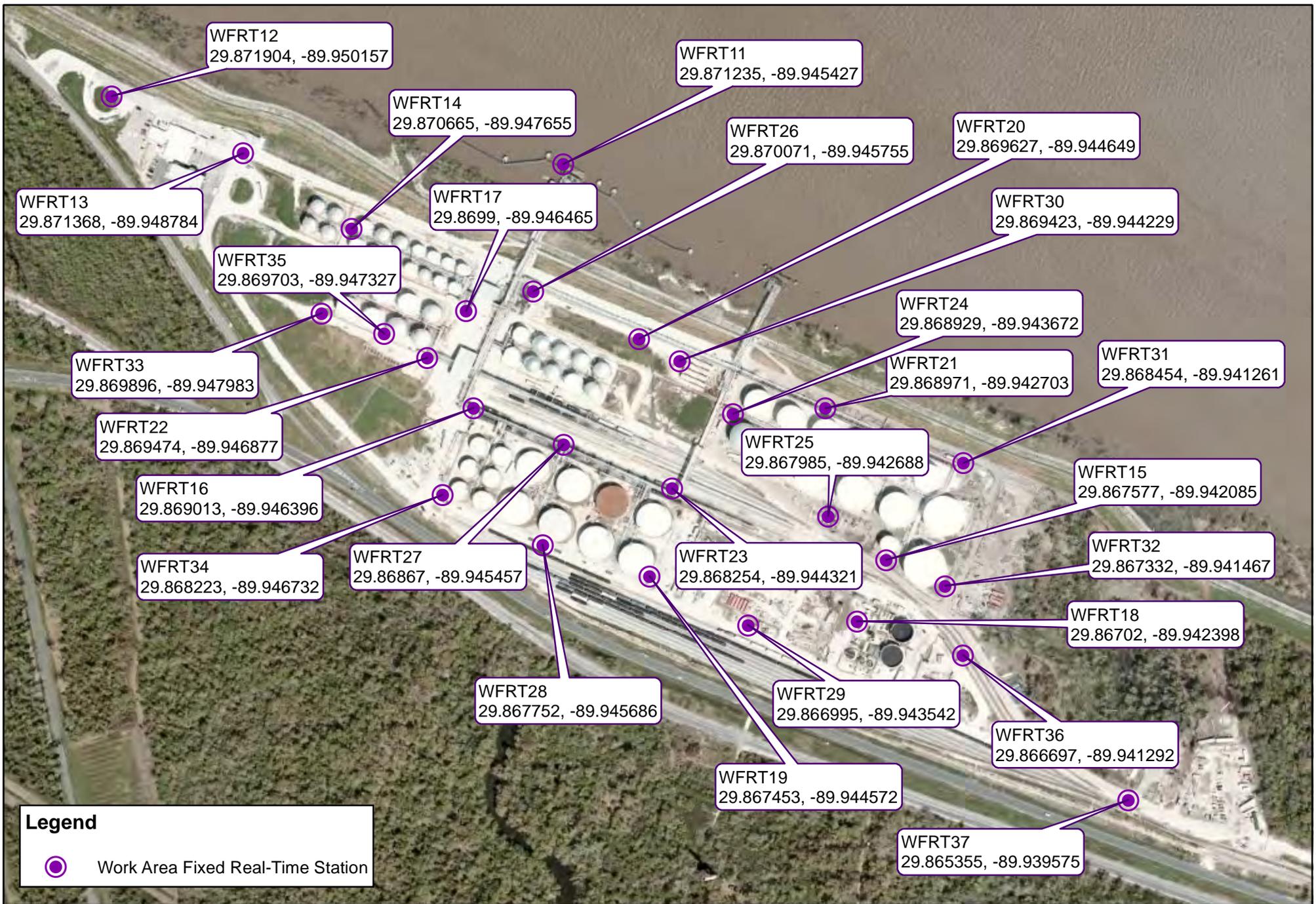
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 Air Sample Location

**Ambient Air
Analytical Sampling Locations**



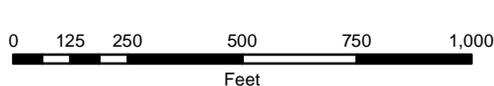
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	Plaquemines Parish
	Print Date: 9/28/2012



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● Work Area Fixed Real-Time Station

**Work Area
Fixed Real-Time Station**
September 21, 2012



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40365

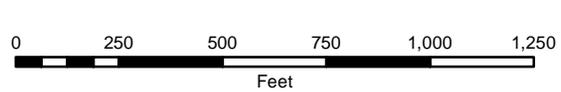
**Stolthaven
Braithwaite, LA**
Plaquemines Parish
Print Date: 9/28/2012



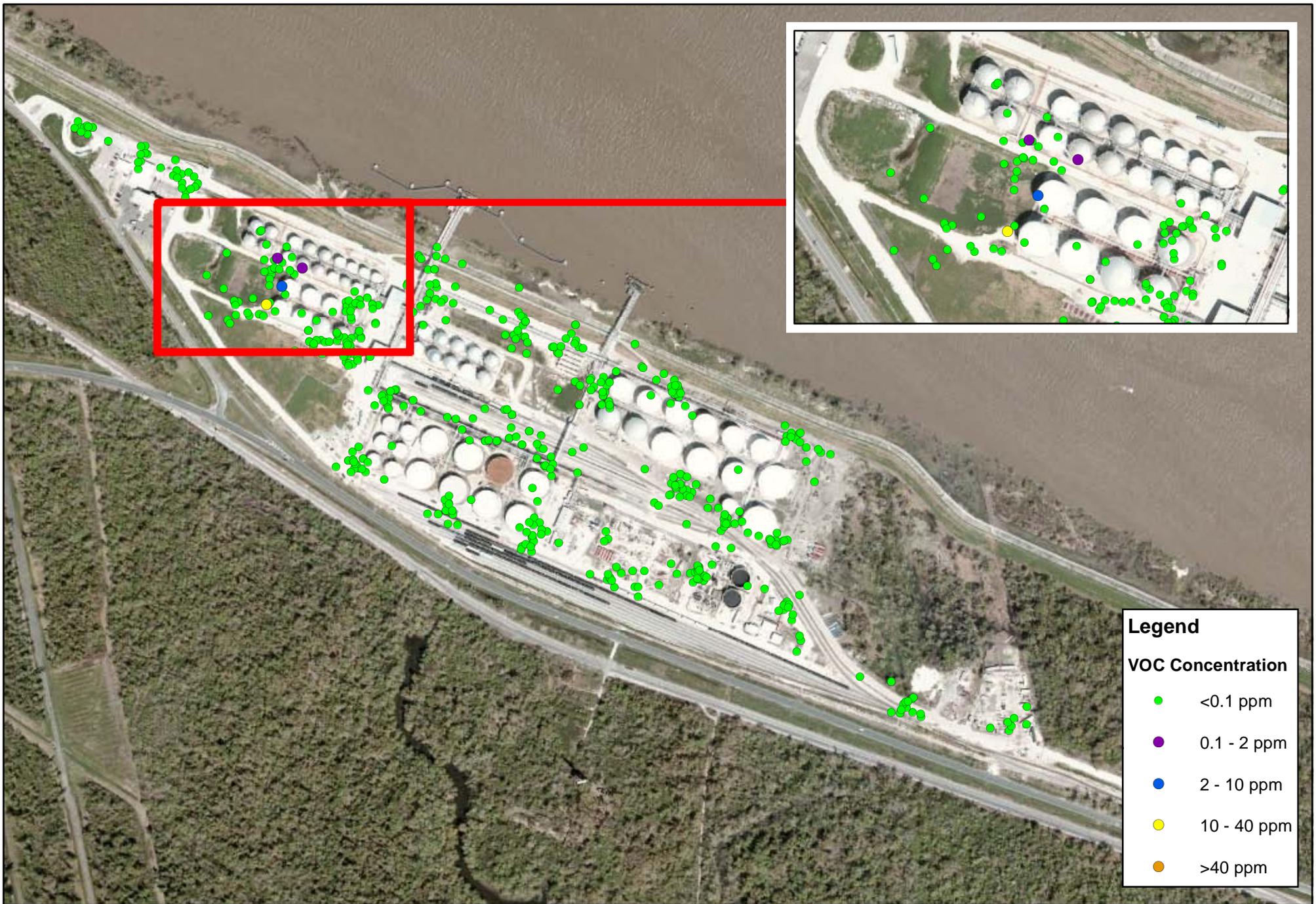
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- Real-Time Monitoring Location

Work Area
Real-Time Monitoring Locations
 10/03/2012

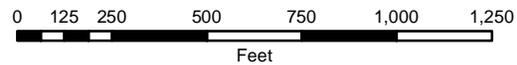


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**Manually-Logged
Work Area VOC Concentrations**

10/03/2012



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40365

**Stolthaven
Braithwaite, LA**

**Plaquemines Parish
Print Date: 10/4/2012**