

**40365 Braithwaite, LA
Stolthaven Terminal Facility
Onsite Summary of Air Monitoring and Sampling Results
October 9, 2012
PO# 12-H0408-MR**

This data report discusses real-time air monitoring data collected within the work area between October 8th 00:00 and October 8th 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 using hand-held instruments indicated that there was one onsite VOC detection on October 8th (0.3 ppm). No readings in exceedence of action levels were observed. While stationary AreaRAE results reported detections of VOCs at 11 locations within the work area, these results are preliminary and may include drift in the instrument’s chemical sensors. A maximum reading of 33.3 ppm VOCs was observed on AreaRAE Unit 21. At the time of this reading, CTEH® personnel indicated that the instrument was undergoing calibration and that the elevated VOC reading was due to isobutylene calibration gas. No detections of LEL were observed.

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 and product quality. Appendix 1 shows incident site maps.

**Table 1
Hand-held Real-time Summary – October 8th 00:00 – 23:59**

Work Area				
Analyte	Number of Readings	Number of Detections	Average Concentration of Detections	Highest Concentration
LEL	611	0	NA	< 1.0 %
VOC	614	1	0.3 ppm	0.3 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 8th 00:00 – 23:59**

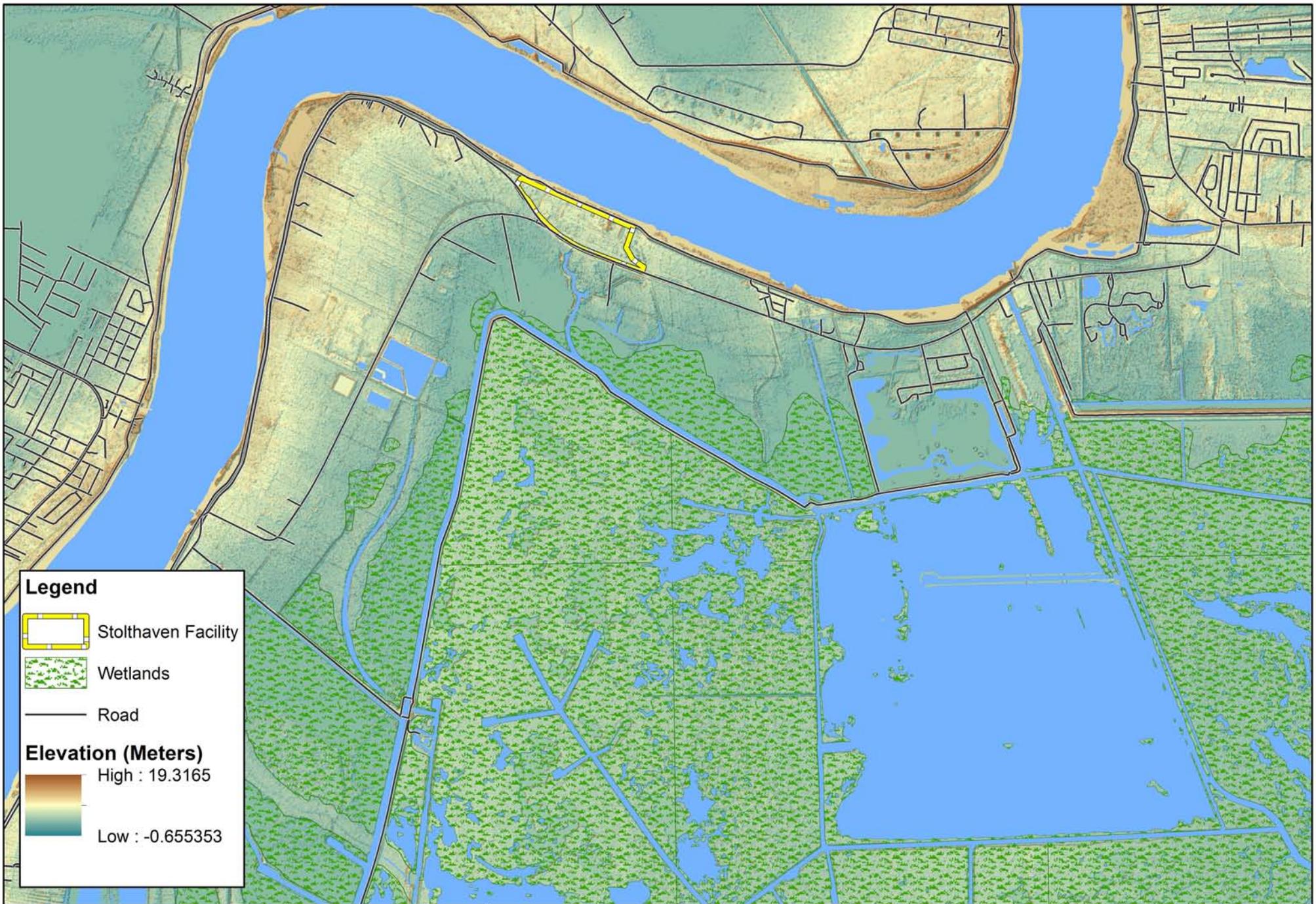
Unit	Analyte	Number of Readings	Number Of Detections	Concentration Range
Unit 14	LEL	5595	0	0 - 0 %
	VOC	5595	79	0.1 - 0.1 ppm
Unit 15	LEL	5022	0	0 - 0 %
	VOC	5022	85	0.3 - 23.2 ppm
Unit 16	LEL	5563	0	0 - 0 %
	VOC	5563	9	0.1 - 0.4 ppm
Unit 17	LEL	5641	0	0 - 0 %
	VOC	5641	0	0 - 0 ppm
Unit 18	LEL	5616	0	0 - 0 %
	VOC	5616	43	0.1 - 3.3 ppm
Unit 19	LEL	5637	0	0 - 0 %
	VOC	5637	61	0.1 - 0.2 ppm
Unit 20	LEL	5551	0	0 - 0 %
	VOC	5551	1	0.2 - 0.2 ppm
Unit 21	LEL	5390	0	0 - 0 %
	VOC	5390	190	0.1 - 33.3 ppm
Unit 22	LEL	5663	0	0 - 0 %
	VOC	5663	12	0.1 - 0.3 ppm
Unit 23	LEL	5387	0	0 - 0 %
	VOC	5387	120	0.1 - 2.2 ppm
Unit 24	LEL	5254	0	0 - 0 %
	VOC	5254	244	0.2 - 6.2 ppm
Unit 25	LEL	5344	0	0 - 0 %
	VOC	5344	1	10.5 - 10.5 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 8th 00:00 – 23:59

Matrix	Number of Samples
Air	4
Product Quality	5

Appendix 1: Incident Maps



Legend

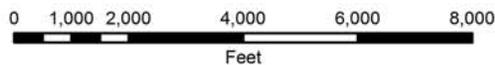
-  Stolthaven Facility
-  Wetlands
-  Road

Elevation (Meters)

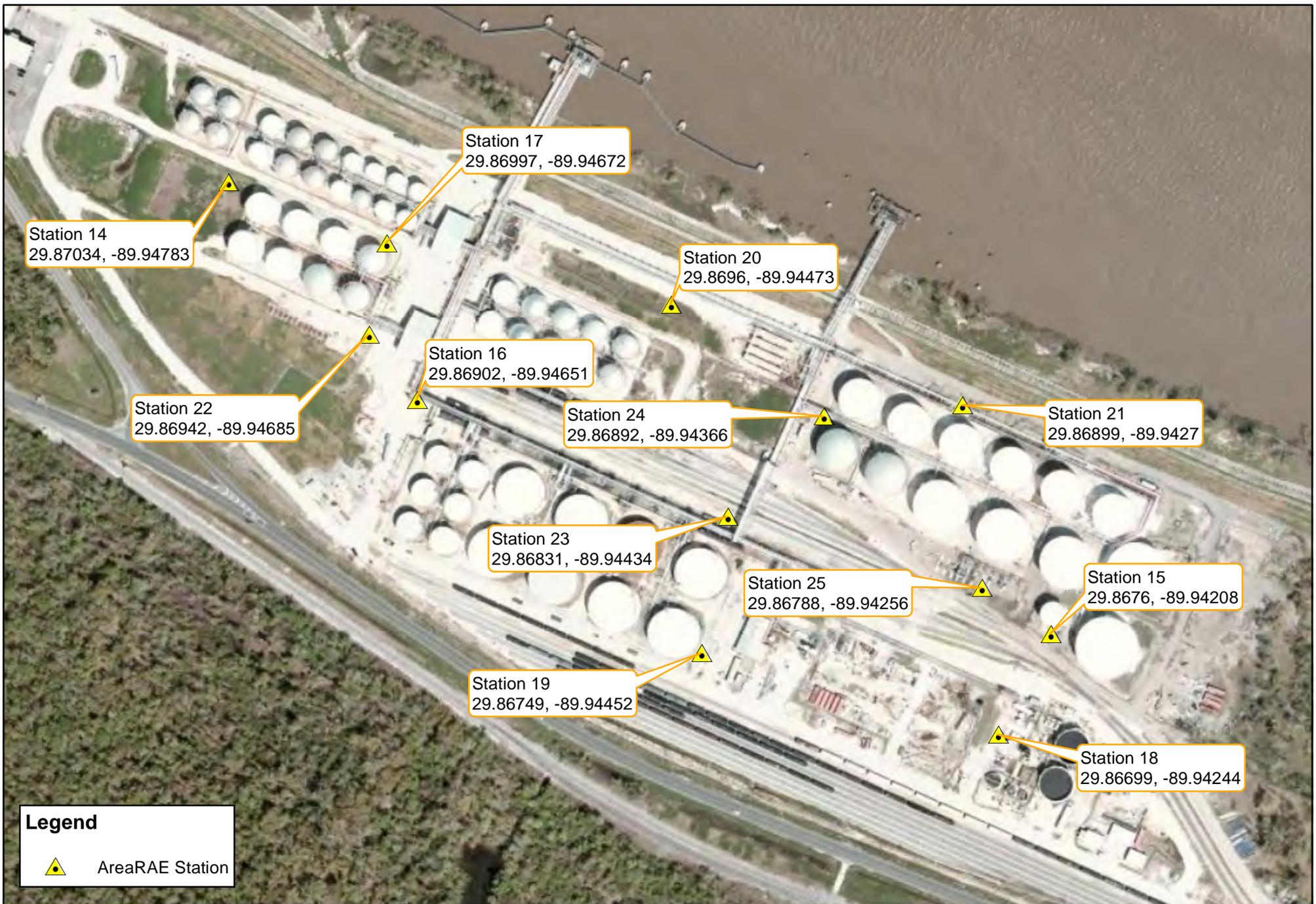
High : 19.3165

Low : -0.655353

**Stolthaven Facility
Shaded Relief of Elevation**



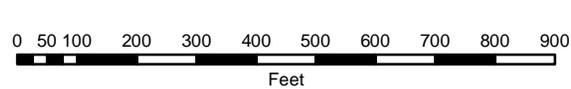
CTEH Project No. 40365	Stolthaven Braithwaite, LA
	Plaquemines Parish Print Date: 10/6/2012



Legend

 AreaRAE Station

Work Area
AreaRAE Station Locations
 September 21, 2012



CTEH
 Project No.
40365

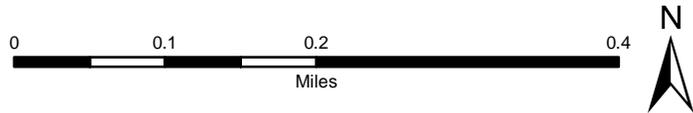
Stolthaven
Braithwaite, LA
Plaquemines Parish
Print Date: 9/26/2012



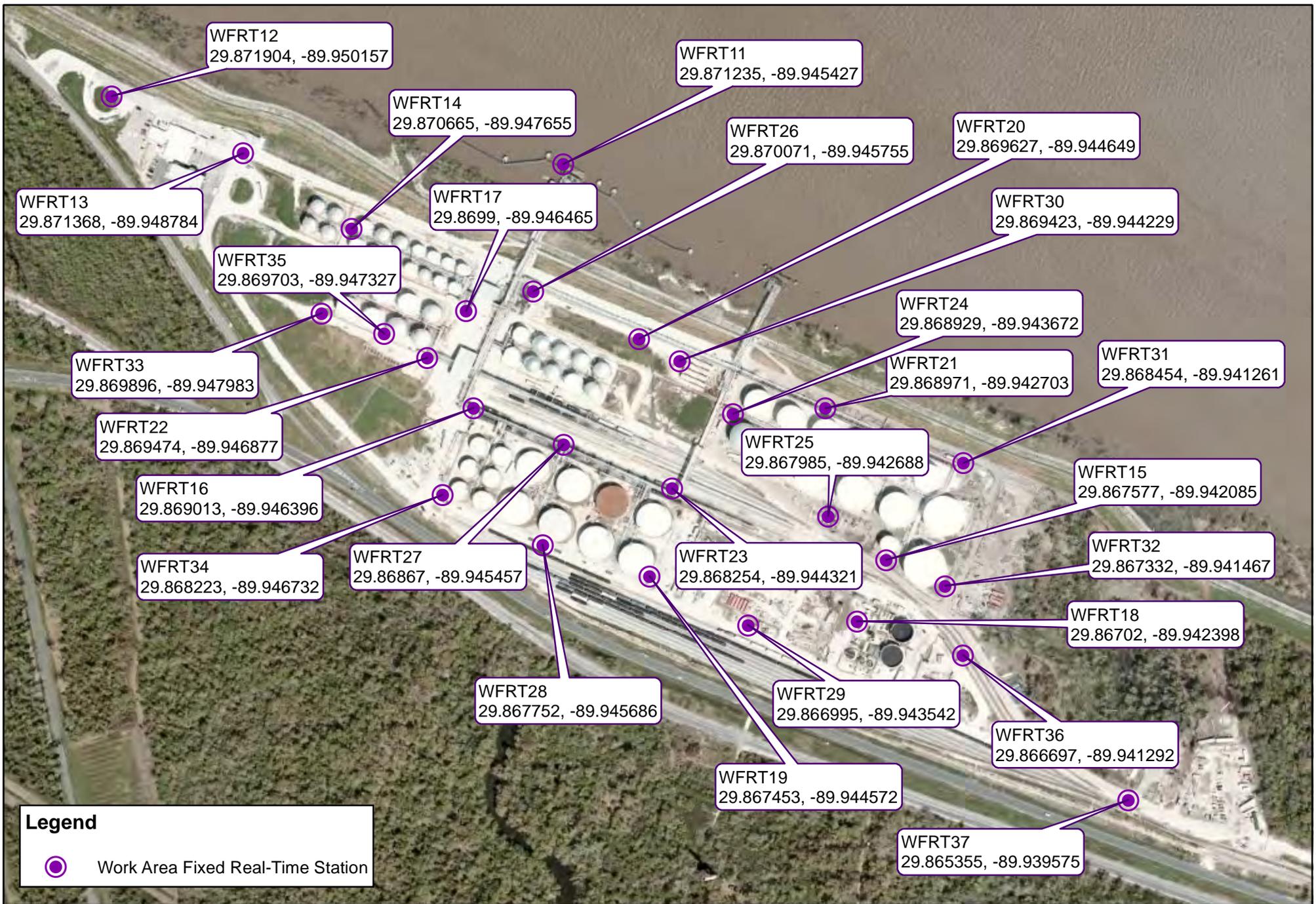
Legend

 Air Sample Location

**Ambient Air
Analytical Sampling Locations**



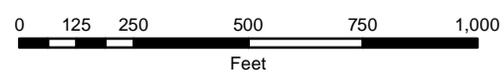
 Project No. 40365	Stolthaven
	Braithwaite, LA
	Plaquemines Parish
	Print Date: 9/28/2012



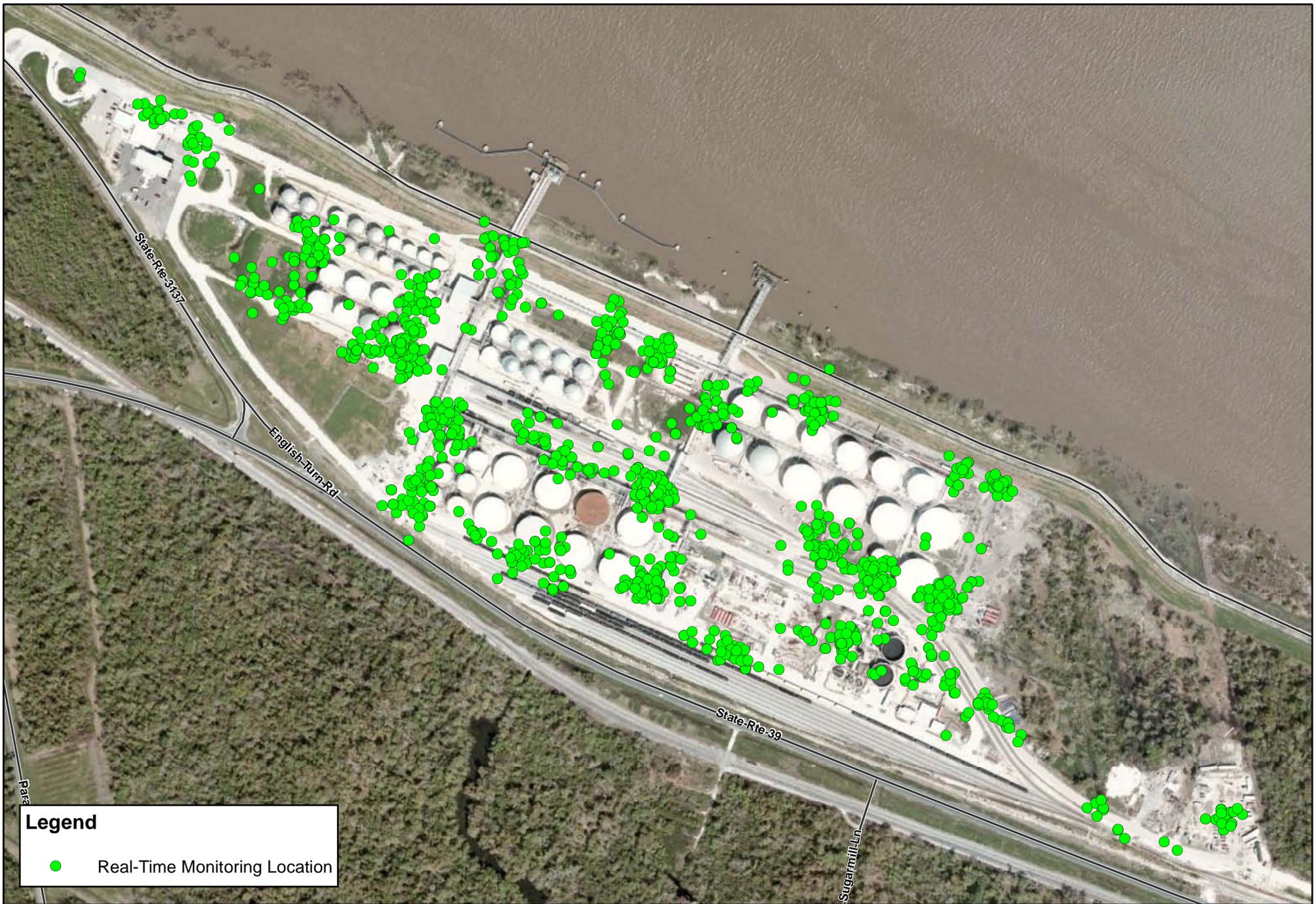
Legend

 Work Area Fixed Real-Time Station

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



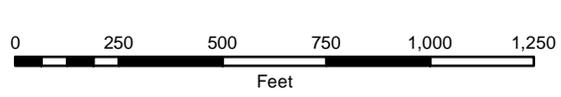
 Project No. 40365	Stolthaven Braithwaite, LA
	Plaquemines Parish Print Date: 9/28/2012



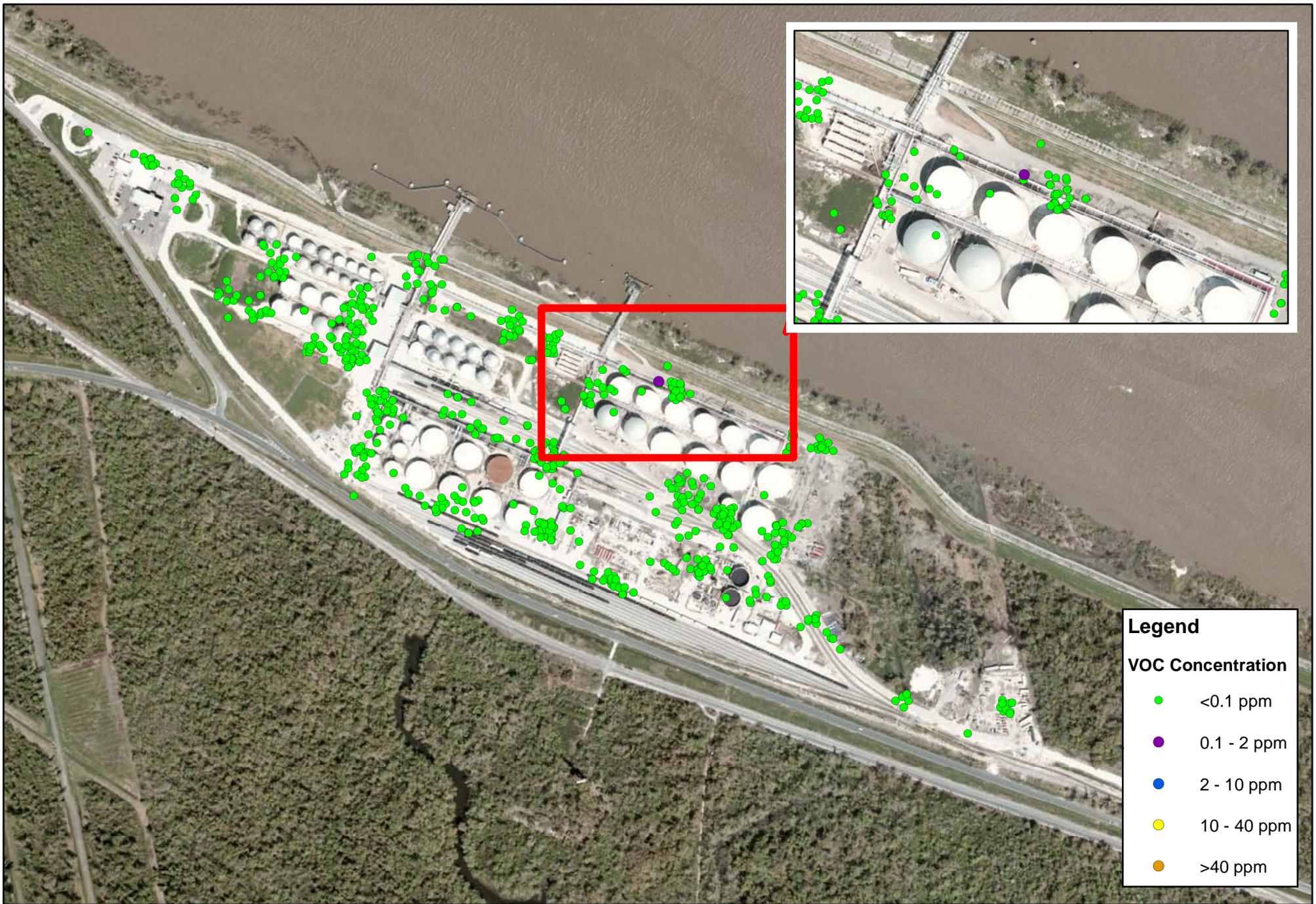
Legend

- Real-Time Monitoring Location

Work Area
Real-Time Monitoring Locations
 10/08/2012



 Project No. 40365	Stolthaven Braithwaite, LA
	Plaquemines Parish Print Date: 10/9/2012

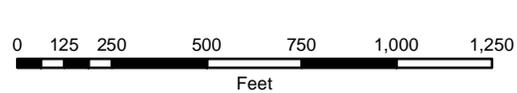


Legend

VOC Concentration

- <0.1 ppm
- 0.1 - 2 ppm
- 2 - 10 ppm
- 10 - 40 ppm
- >40 ppm

**Manually-Logged
Work Area VOC Concentrations**
10/08/2012



 Project No. 40365	Stolthaven Braithwaite, LA
	Plaquemines Parish Print Date: 10/9/2012