

**40365 Braithwaite, LA  
Stolthaven Terminal Facility  
Onsite Summary of Air Monitoring and Sampling Results  
October 5, 2012  
PO# 12-H0408-MR**

This data report discusses real-time air monitoring data collected within the work area between October 4<sup>th</sup> 00:00 and October 4<sup>th</sup> 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 indicated that there were three onsite VOC detections on October 4<sup>th</sup>. No sustained readings in exceedence of action levels were observed on the facility at a time when workers were present. A maximum VOC detection of 10.7 ppm was observed approximately 20 feet from Tank H30-6 (1-octene); however, this reading was a peak value and quickly subsided to a sustained 2.1 ppm. No workers were present at the time of this reading. While stationary AreaRAE results indicate detections of VOCs at twelve locations within the work area, these results are preliminary and may include drift in the instrument's chemical sensors. A single AreaRAE unit reported detections of LEL; however, upon CTEH<sup>®</sup> investigation, these LEL detections were determined to be due to sensor drift. The unit was recalibrated and no further LEL detections 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, product quality and waste characterization. Appendix 1 shows incident site maps.

**Table 1  
Hand-held Real-time Summary – October 4<sup>th</sup> 00:00 – 23:59**

<b>Work Area</b>				
<b>Analyte</b>	<b>Number of Readings</b>	<b>Number of Detections</b>	<b>Average Concentration of Detections</b>	<b>Highest Concentration</b>
LEL	847	0	NA	< 1.0 %
VOC	853	3	3.8 ppm	10.7 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 4<sup>th</sup> 00:00 – 23:59**

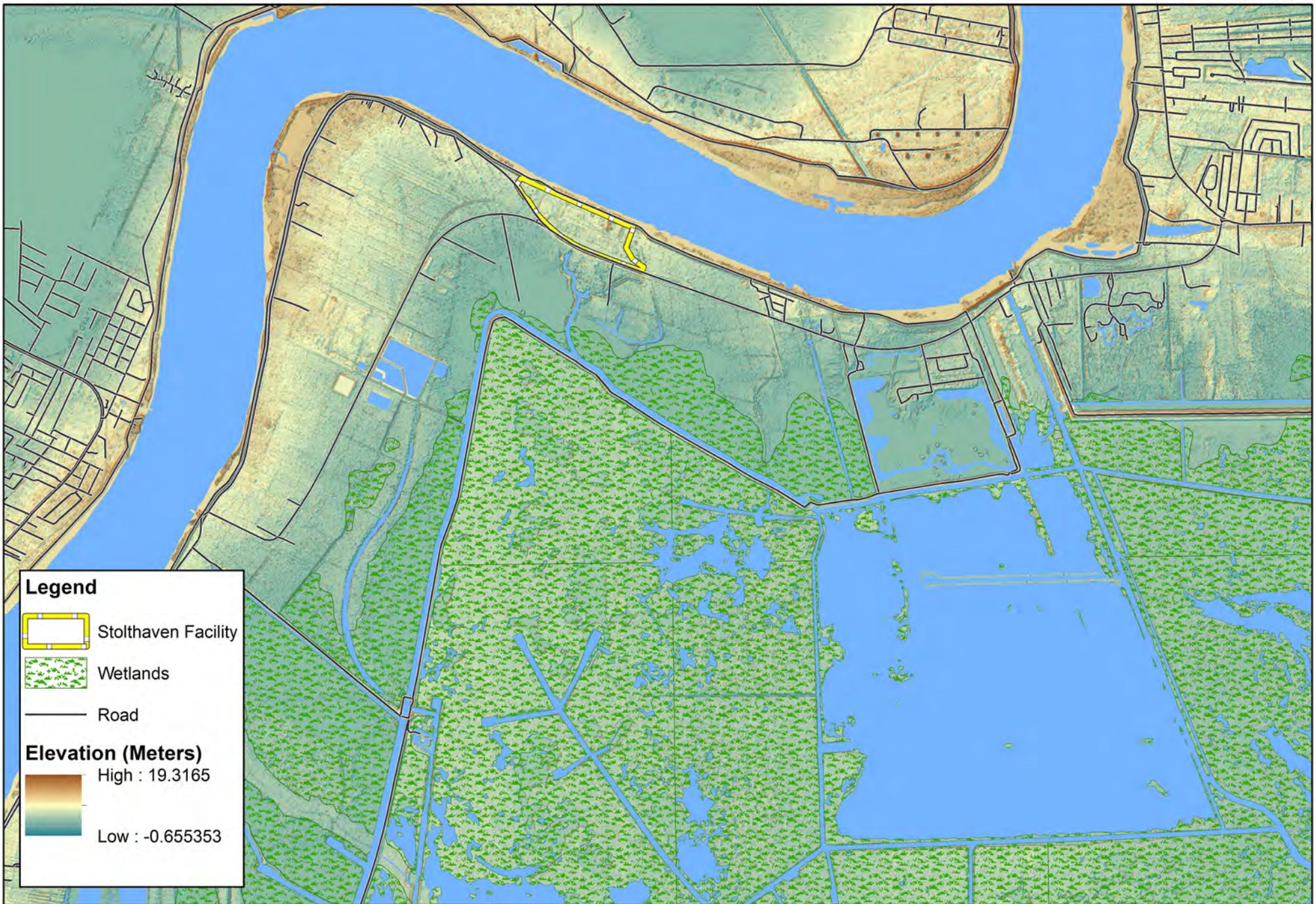
Unit	Analyte	Number of Readings	Number Of Detections	Concentration Range
Unit 14	LEL	5471	0	0 - 0 %
	VOC	5471	271	0.1 - 0.9 ppm
Unit 15	LEL	5659	0	0 - 0 %
	VOC	5659	1	1 - 1 ppm
Unit 16	LEL	5349	0	0 - 0 %
	VOC	5349	188	0.1 - 0.5 ppm
Unit 17	LEL	5488	9	3 - 3.1 %
	VOC	5488	62	0.1 - 1.6 ppm
Unit 18	LEL	5553	0	0 - 0 %
	VOC	5553	51	0.1 - 0.3 ppm
Unit 19	LEL	5633	0	0 - 0 %
	VOC	5633	63	0.1 - 0.6 ppm
Unit 20	LEL	5660	0	0 - 0 %
	VOC	5660	4	0.1 - 0.8 ppm
Unit 21	LEL	5624	0	0 - 0 %
	VOC	5624	74	0.1 - 0.4 ppm
Unit 22	LEL	5660	0	0 - 0 %
	VOC	5660	2	0.1 - 0.2 ppm
Unit 23	LEL	5626	0	0 - 0 %
	VOC	5626	38	0.1 - 0.1 ppm
Unit 24	LEL	5619	0	0 - 0 %
	VOC	5619	56	0.1 - 0.5 ppm
Unit 25	LEL	5228	0	0 - 0 %
	VOC	5228	28	0.1 - 0.1 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 4<sup>th</sup> 00:00 – 23:59**

<b>Matrix</b>	<b>Number of Samples</b>
Air	4
Product Quality	9
Waste Characterization	3

# Appendix 1: Incident Maps



**Legend**

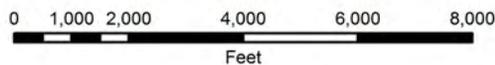
-  Stolthaven Facility
-  Wetlands
-  Road

**Elevation (Meters)**

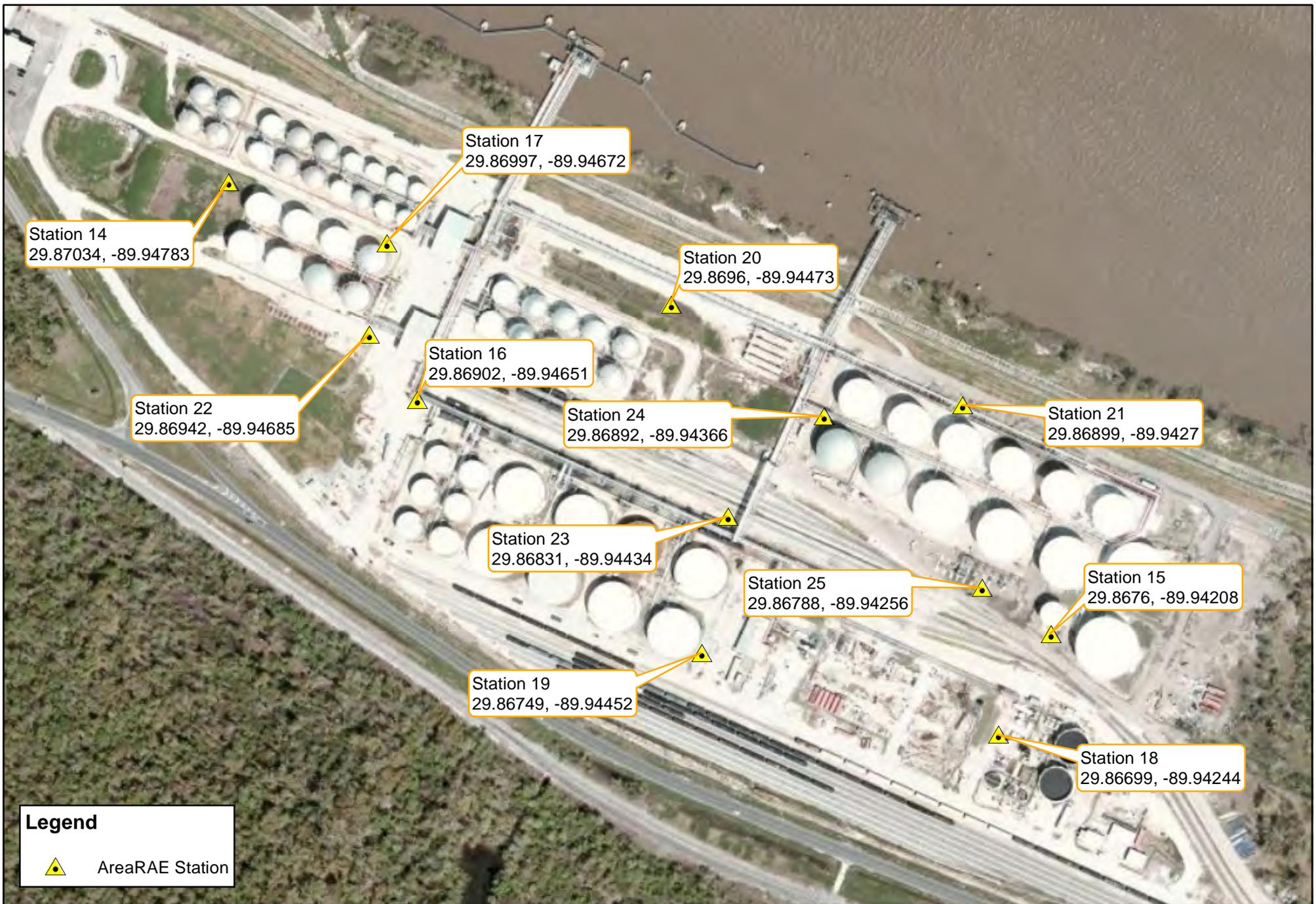
High : 19.3165

Low : -0.655353

**Stolthaven Facility  
Shaded Relief of Elevation**



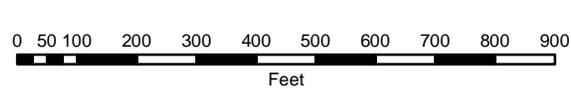
<b>CTEH</b> <small>Project No. 40355</small>	<b>Stolthaven</b>
	<b>Braithwaite, LA</b>
	<b>Plaquemines Parish</b>
<b>Print Date: 9/17/2012</b>	



**Legend**

 AreaRAE Station

**Work Area**  
**AreaRAE Station Locations**  
 September 21, 2012



**CTEH**<sup>®</sup>  
 Project No.  
**40365**

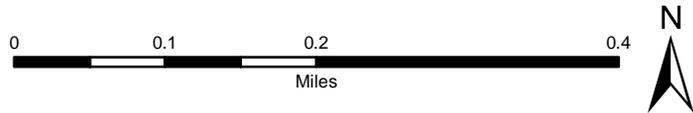
**Stolthaven**  
**Braithwaite, LA**  
**Plaquemines Parish**  
**Print Date: 9/26/2012**



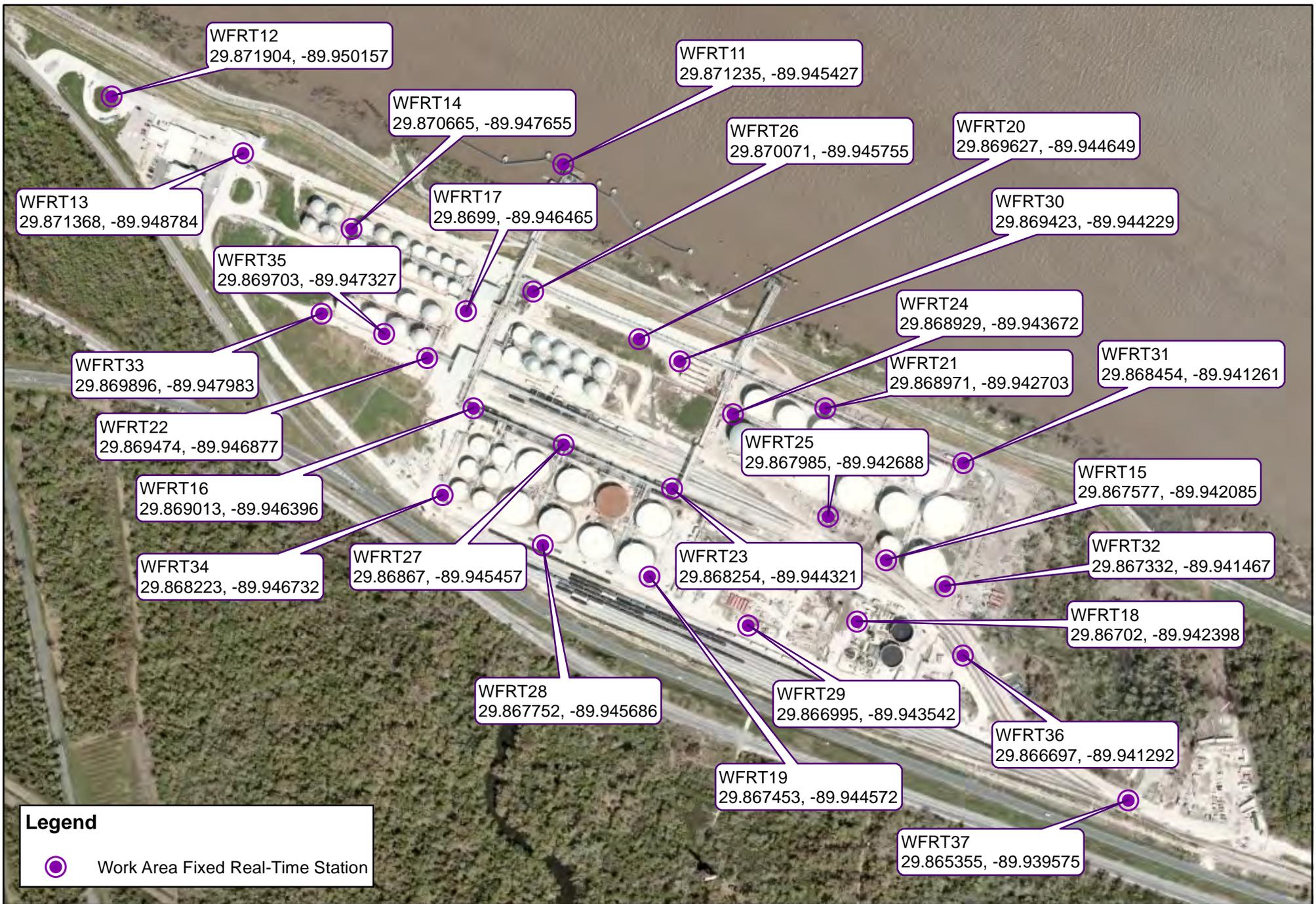
**Legend**

 Air Sample Location

**Ambient Air  
Analytical Sampling Locations**



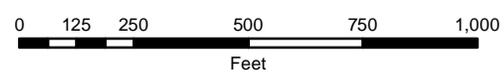
 Project No. <b>40365</b>	<b>Stolthaven</b>
	<b>Braithwaite, LA</b>
	<b>Plaquemines Parish</b>
	<b>Print Date: 9/28/2012</b>



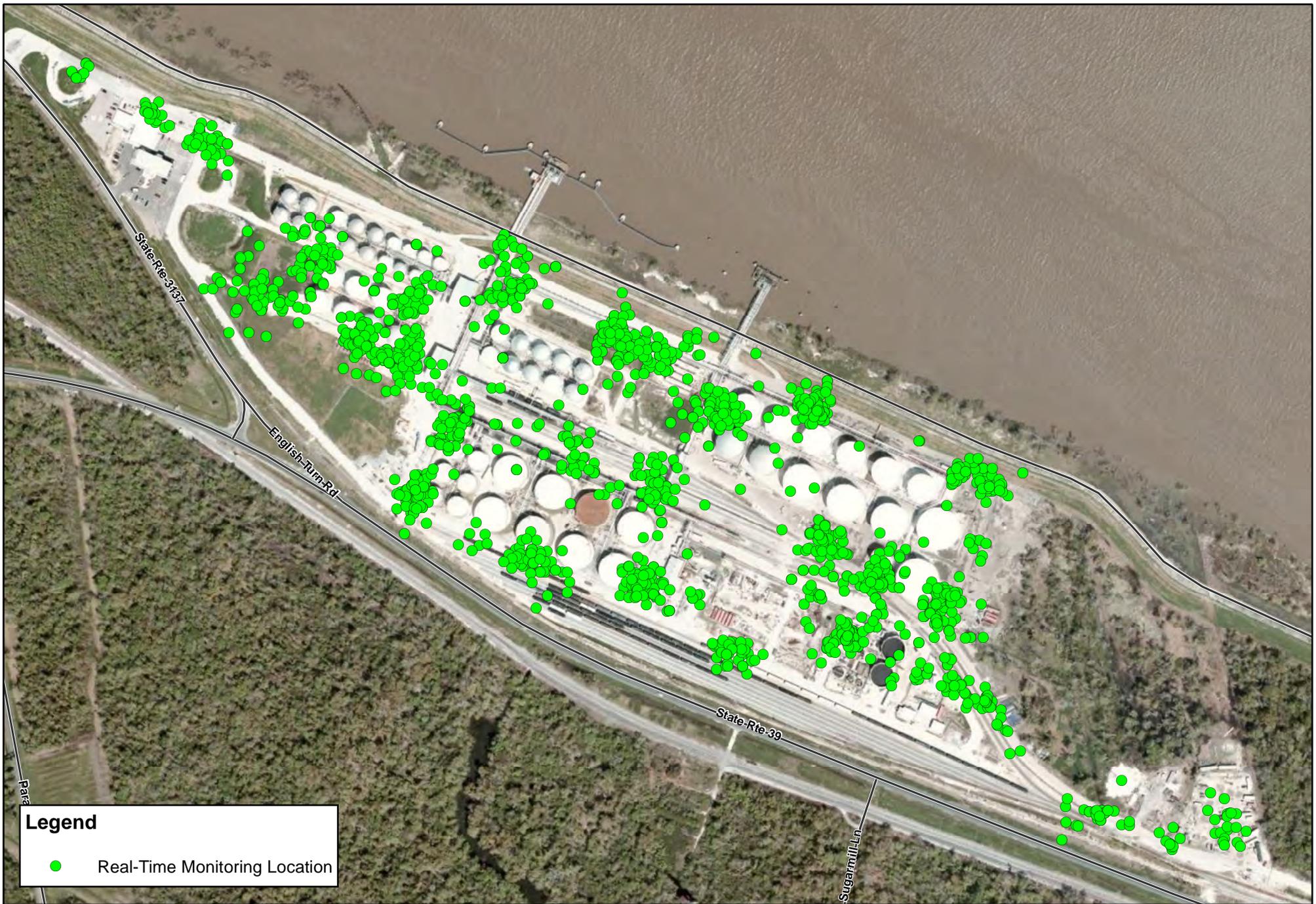
**Legend**

 Work Area Fixed Real-Time Station

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



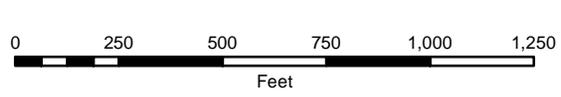
 Project No. <b>40365</b>	<b>Stolthaven</b> <b>Braithwaite, LA</b>
	<b>Plaquemines Parish</b> <b>Print Date: 9/28/2012</b>



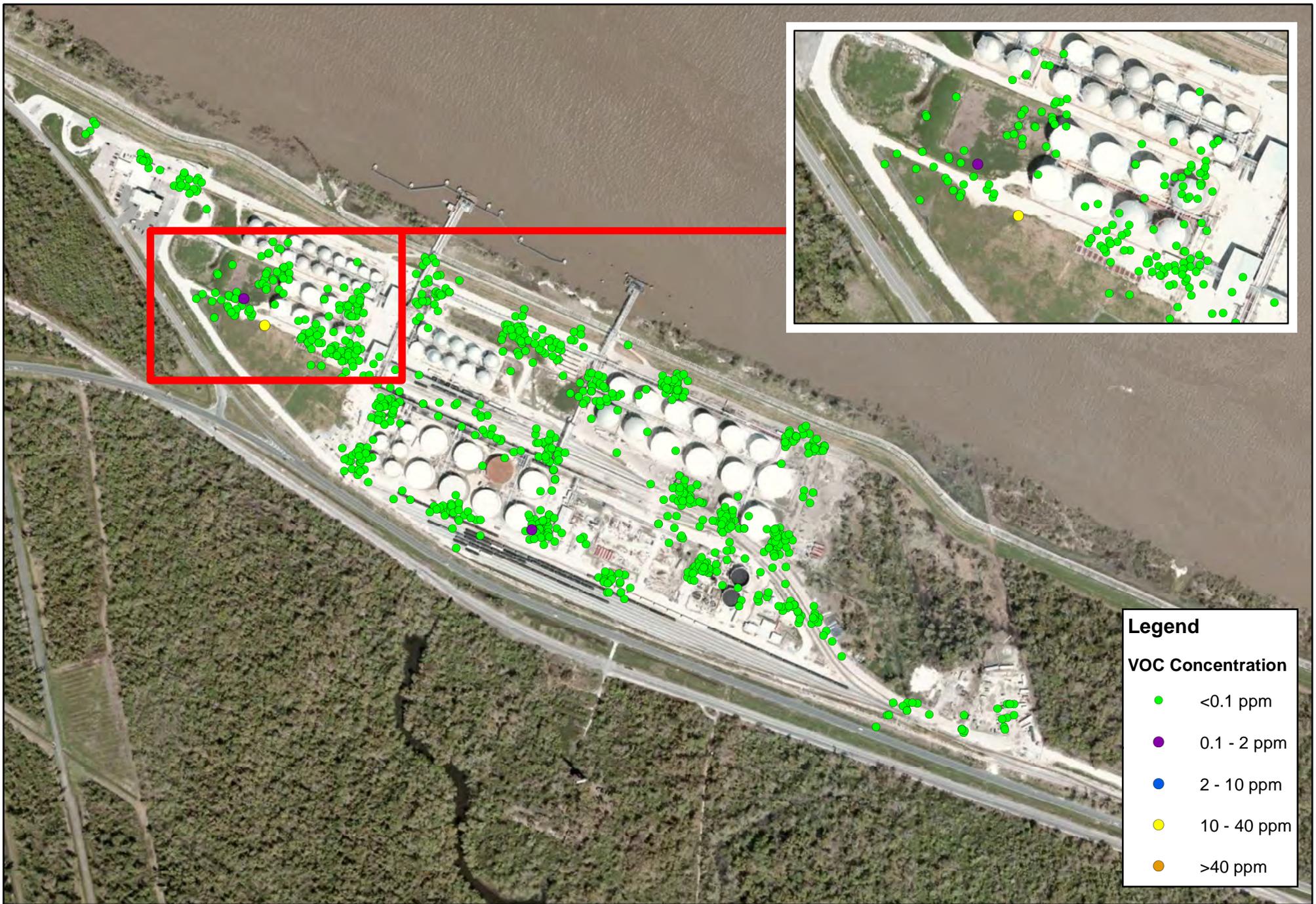
**Legend**

- Real-Time Monitoring Location

**Work Area**  
**Real-Time Monitoring Locations**  
 10/04/2012



 Project No. <b>40365</b>	<b>Stolthaven</b> <b>Braithwaite, LA</b>
	<b>Plaquemines Parish</b> <b>Print Date: 10/5/2012</b>

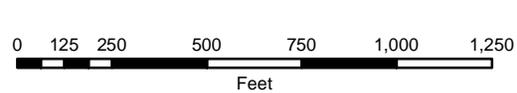


**Legend**

**VOC Concentration**

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

**Manually-Logged  
Work Area VOC Concentrations**  
10/04/2012



<b>CTEH</b> <sup>®</sup>	<b>Stolthaven</b>
	<b>Braithwaite, LA</b>
Project No. <b>40365</b>	<b>Plaquemines Parish</b>
	<b>Print Date: 10/5/2012</b>