

**40355 Braithwaite, LA
Stolthaven Terminal Facility
Onsite Summary of Air Monitoring and Sampling Results
September 18, 2012
PO# 12-H0408-MR**

This data report discusses real-time air monitoring data collected in the work area between September 17th 00:00 and September 17th 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 and during entry activities resulted in reports of detections exceeding the chemical specific action level required for donning of respiratory protection. At the time of each action level exceedence, all workers present were wearing respiratory protection. Six detections of formic acid were reported within the work area. As reported by CTEH[®] personnel, these readings were associated with activity at the formic acid scrubber.

Real-time air monitoring for VOCs, LEL, methyl acrylate, formic acid, and styrene was conducted using hand-held instruments such as the MultiRAE and colorimetric detector tubes. As previously selected work-area fixed real-time monitoring locations were outside of the facility perimeter, beginning at approximately 16:40 on September 17th, these stations were reclassified as community air monitoring. Table 1 displays a data summary for hand-held instruments. Table 2 highlights analytical sample counts collected in onsite air. Appendix 1 shows incident site maps.

**Table 1
Hand-held Real-time Summary – September 17th 00:00 – 23:59**

Entry Activities				
Analyte	Number of Readings	Number of Detections	Average Concentration of Detections	Highest Concentration
Formic Acid	6	6	9.1 ppm	23.4 ppm
LEL	214	0	NA	< 1.0 %
VOC	235	4	1.2 ppm	4.0 ppm
Work Area				
Analyte	Number of Readings	Number of Detections	Average Concentration of Detections	Highest Concentration
LEL	72	0	NA	< 1.0 %
Methyl Acrylate	2	0	NA	< 2.0 ppm
Styrene	2	0	NA	< 0.5 ppm
VOC	72	0	NA	< 0.1 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.

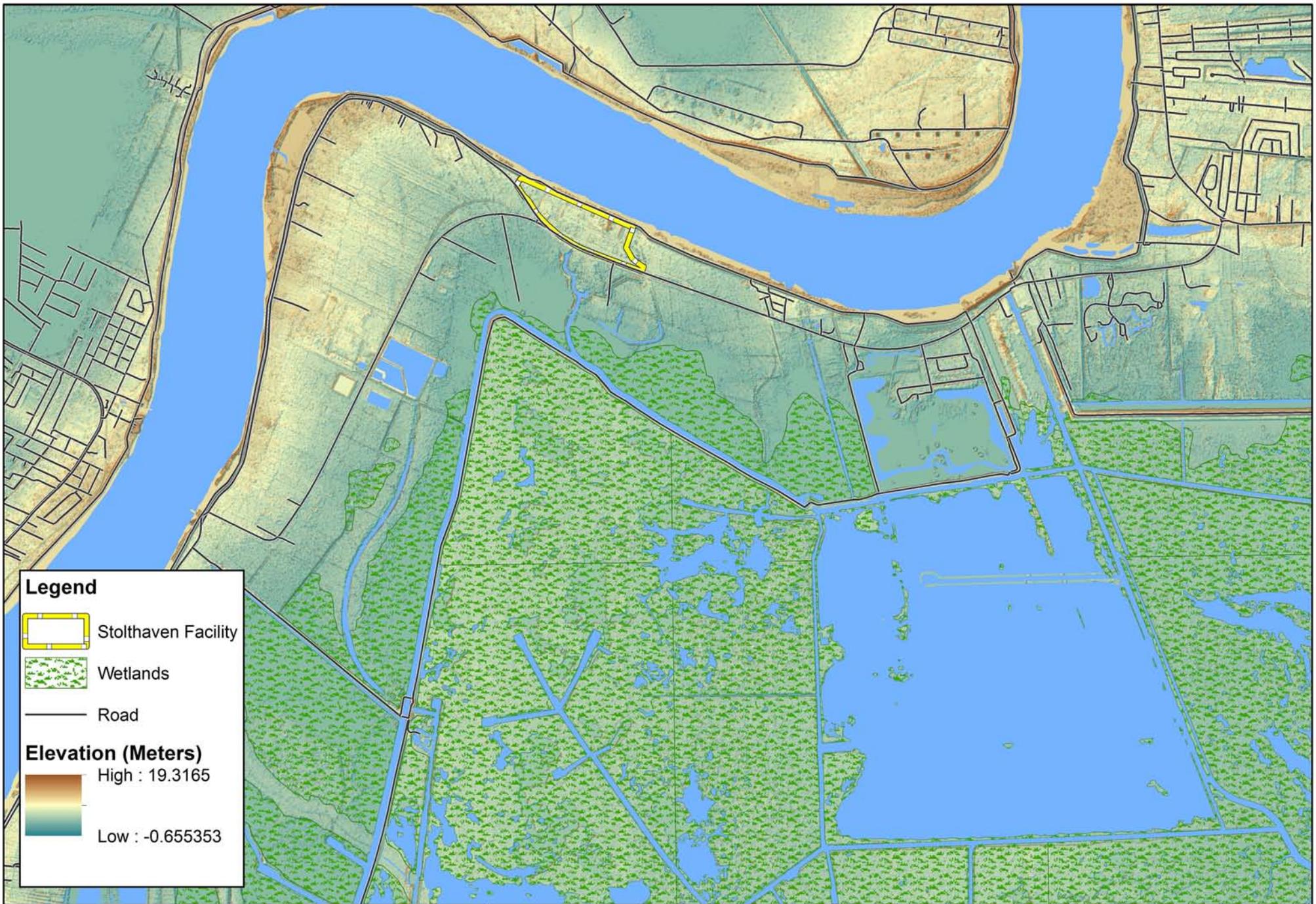
Table 2
Analytical Sample Counts – September 17th 00:00 – 23:59

Matrix	Number of Samples
Air	4

References:

LDEQ. Title 33: Environmental Quality. Part III. Air. Baton Rouge, LA: Louisiana Department of Environmental Quality; 2007 Jun.

Appendix 1: Incident Maps



Legend

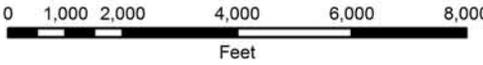
-  Stolthaven Facility
-  Wetlands
-  Road

Elevation (Meters)

High : 19.3165

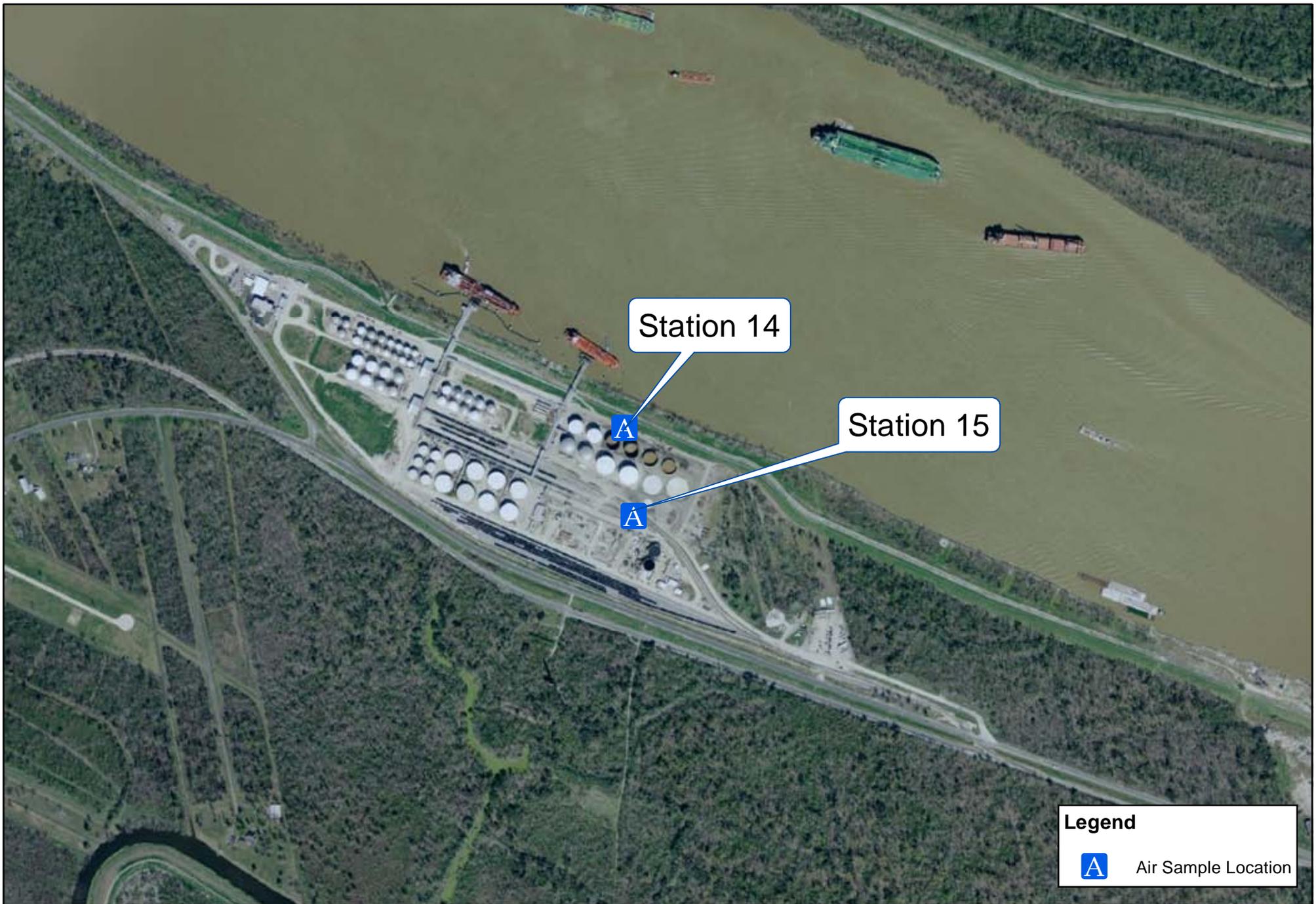
Low : -0.655353

**Stolthaven Facility
Shaded Relief of Elevation**



CTEH
Project No.
40355

**Stolthaven
Braithwaite, LA
Plaquemines Parish
Print Date: 9/17/2012**



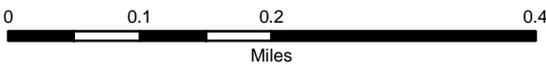
Station 14

Station 15

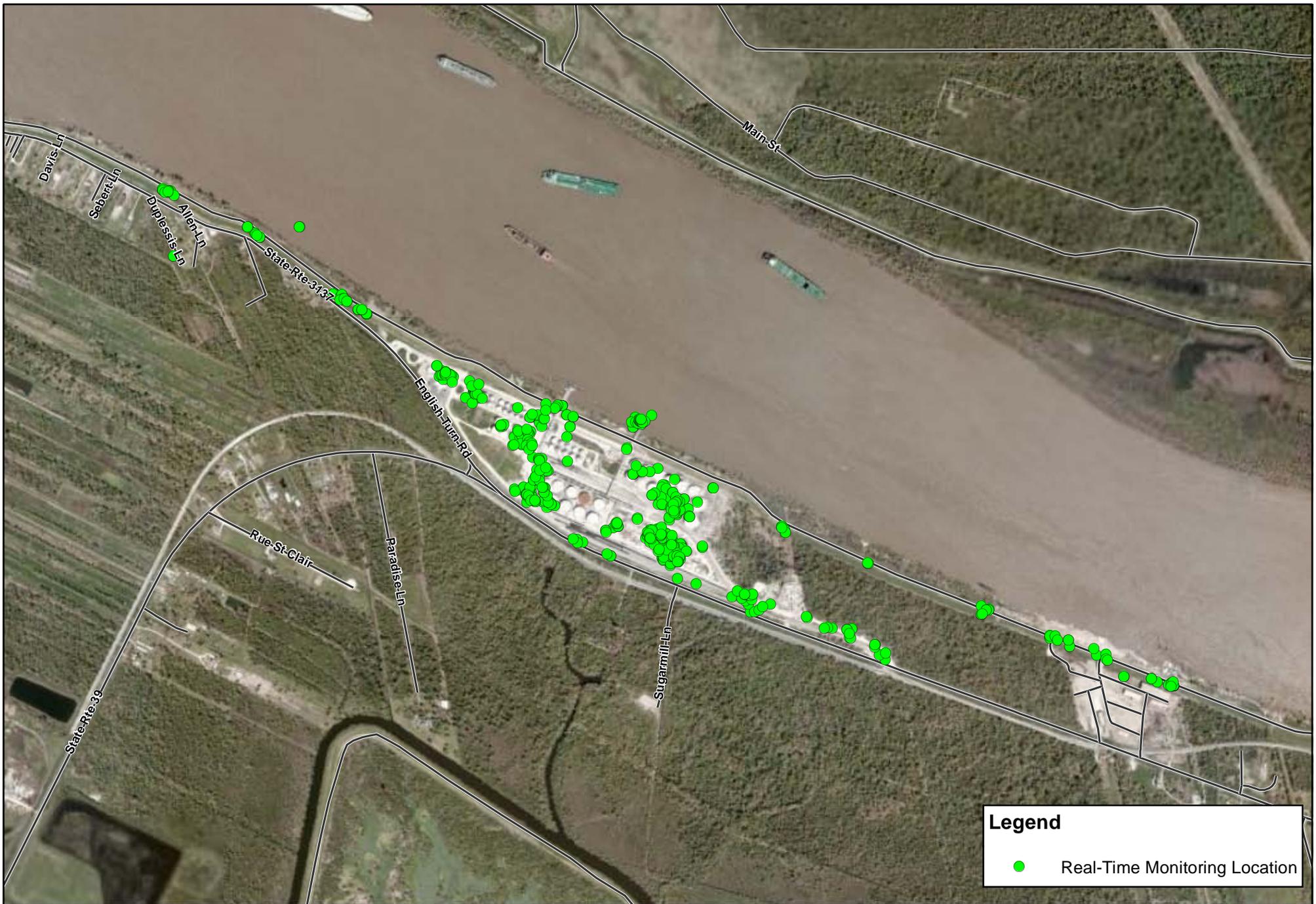
Legend

 Air Sample Location

**Ambient Air
Analytical Sampling Locations**



 Project No. 40355	Stolthaven
	Braithwaite, LA
	Plaquemines Parish
	Print Date: 9/18/2012



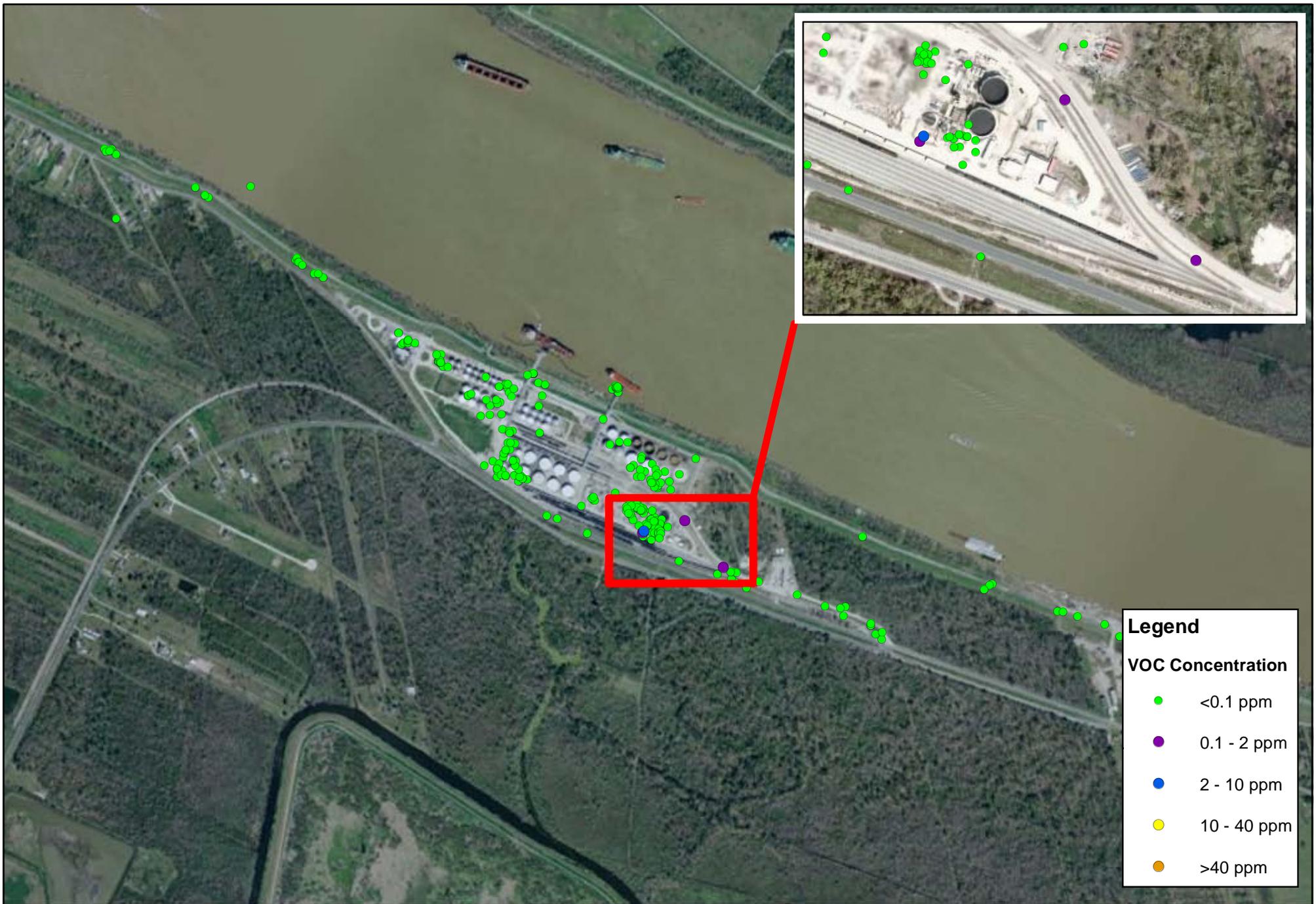
Legend

- Real-Time Monitoring Location

Real-Time Monitoring Locations
9/17/2012



 Project No. 40355	Stolthaven Braithwaite, LA
	Plaquemines Parish Print Date: 9/18/2012



**Manually-Logged
VOC Concentrations**
9/17/2012



CTEH[®]
Project No.
40355

Stolthaven
Braithwaite, LA
Plaquemines Parish
Print Date: 9/18/2012

Legend	
VOC Concentration	
●	<0.1 ppm
●	0.1 - 2 ppm
●	2 - 10 ppm
●	10 - 40 ppm
●	>40 ppm

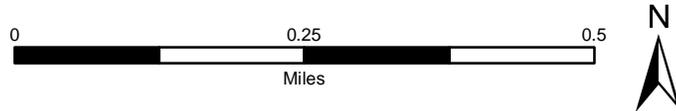


Formic Acid Readings

- Detection
- No Detection



**Formic Acid
Reading Locations**
9/17/2012



 Project No. 40355	Stolthaven
	Braithwaite, LA
	Plaquemines Parish
	Print Date: 9/18/2012