

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

This data report discusses community real-time air monitoring data collected between October 4th 00:00 and October 4th 23:59 in support of mitigation and remediation operations conducted near Stolthaven’s facility near Braithwaite, LA.

Community real-time air monitoring was conducted for VOCs, LEL, and formic acid using stationary AreaRAEs and/or hand-held instruments such as the MultiRAE and colorimetric detector tubes. Table 1 and Table 2 below display data summaries for AreaRAEs and hand-held instrument data, respectively. While stationary AreaRAE results indicate detections of VOCs at six AreaRAE units, these results are preliminary and may include drift in the instrument’s sensor. Additionally, these AreaRAE instruments are located adjacent to roads and are subject to detecting products of combustion due to vehicular emissions. No VOCs, formic acid or LEL detections were observed within the community using real-time handheld or colorimetric tubes. Table 3 highlights analytical sample counts collected within air and residential soil. Appendix 1 shows incident site maps.

**Table 1
AreaRAE Summary – October 4th 00:00 – 23:59**

Unit	Analyte	Number of Readings	Number Of Detections	Concentration Range
Unit 1	VOC	3687	1	9.3 - 9.3 ppm
Unit 2	VOC	5650	1	0.6 - 0.6 ppm
Unit 3	VOC	3696	1	0.5 - 0.5 ppm
Unit 4	VOC	3670	57	0.1 - 0.9 ppm
Unit 10	VOC	3410	0	0 - 0 ppm
Unit 11	VOC	3645	0	0 - 0 ppm
Unit 12	VOC	4085	104	0.1 - 2.1 ppm
Unit 13	VOC	3687	27	0.1 - 0.3 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 2
Hand-held Real-time Summary – October 4th 00:00 – 23:59

Community				
Analyte	Number of Readings	Number of Detections	Average Concentration of Detections	Highest Concentration
Formic Acid	3	0	NA	<0.52 ppm
LEL	285	0	NA	< 1.0 %
VOC	284	0	NA	< 0.1 ppm

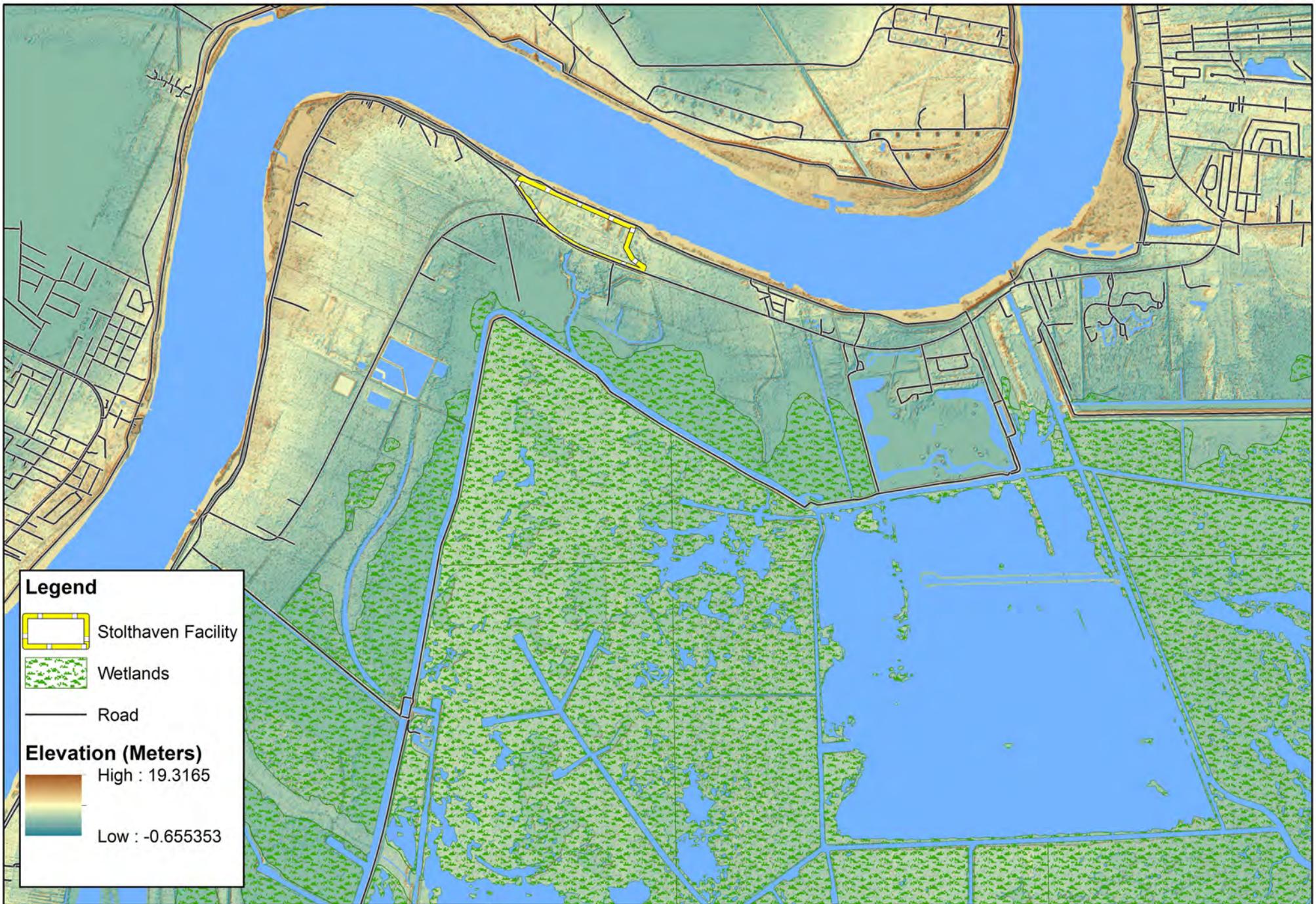
NA = not applicable

* 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 3
Analytical Sample Counts – October 4th 00:00 – 23:59

Matrix	Number of Samples
Air	44
Residential Soil	8

Appendix 1: Incident Maps



Legend

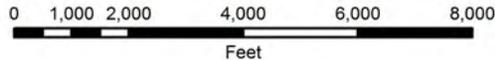
-  Stolthaven Facility
-  Wetlands
-  Road

Elevation (Meters)

High : 19.3165

Low : -0.655353

**Stolthaven Facility
Shaded Relief of Elevation**



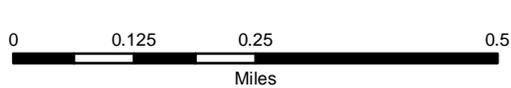
 <small>Project No.</small> 40355	Stolthaven
	Braithwaite, LA
	Plaquemines Parish
Print Date: 9/17/2012	



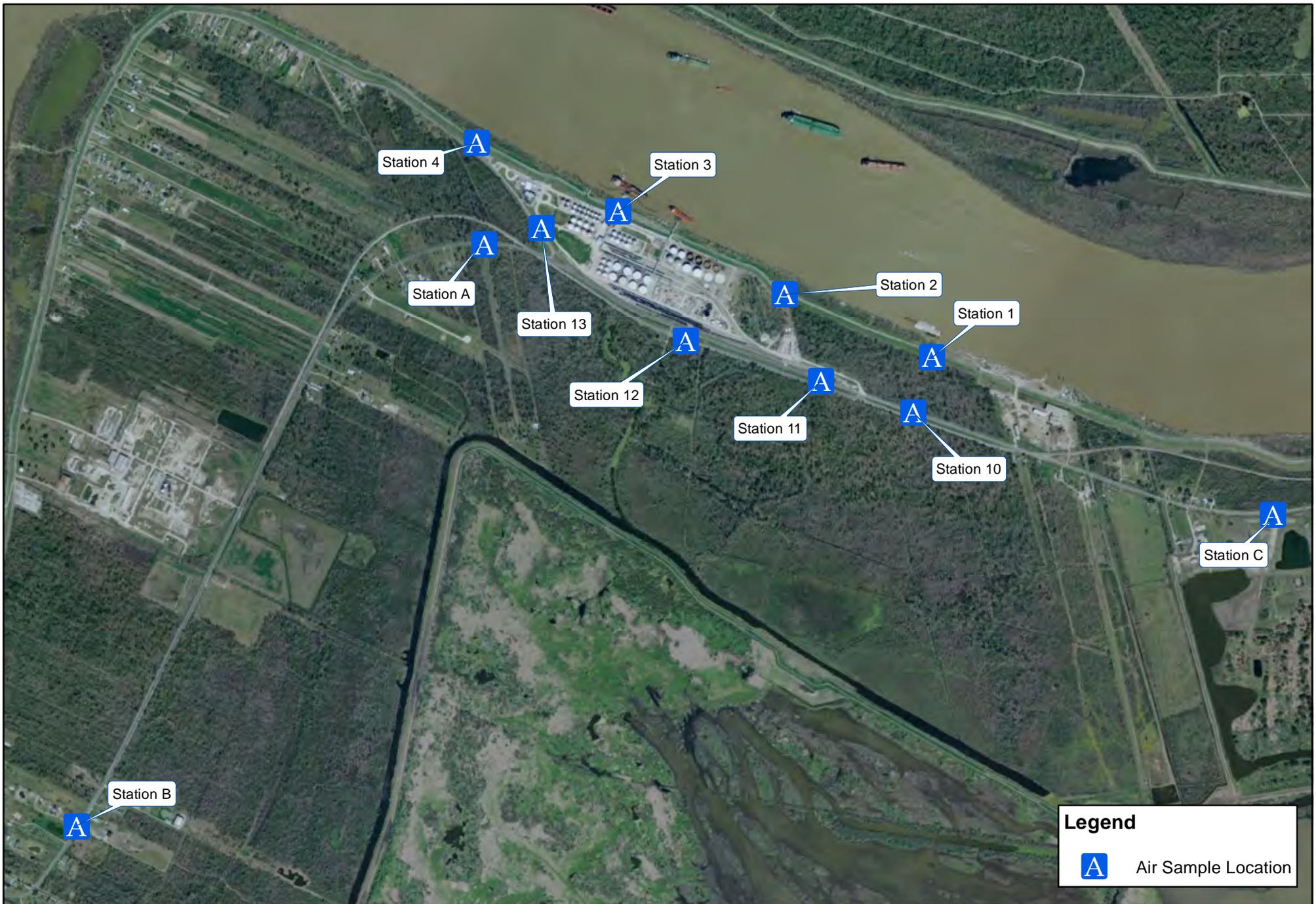
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 AreaRAE Station

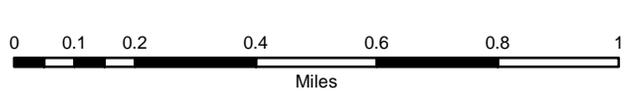
**Community
AreaRAE Station Locations**
September 21, 2012



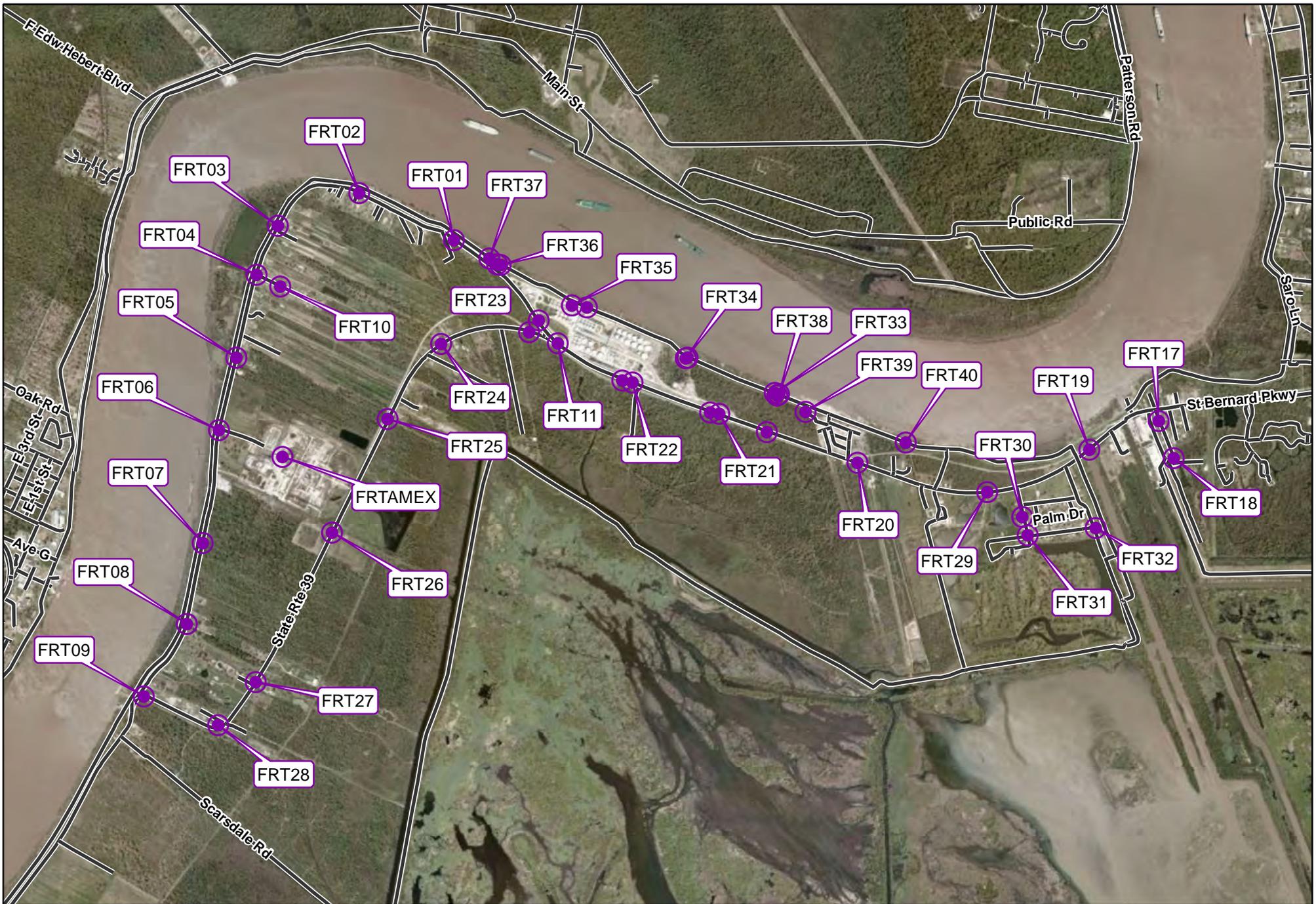
 Project No. 40365	Stolthaven Braithwaite, LA
	Plaquemines Parish Print Date: 9/26/2012



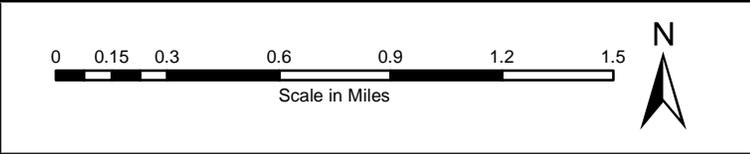
**Ambient Air
Analytical Sampling Locations**



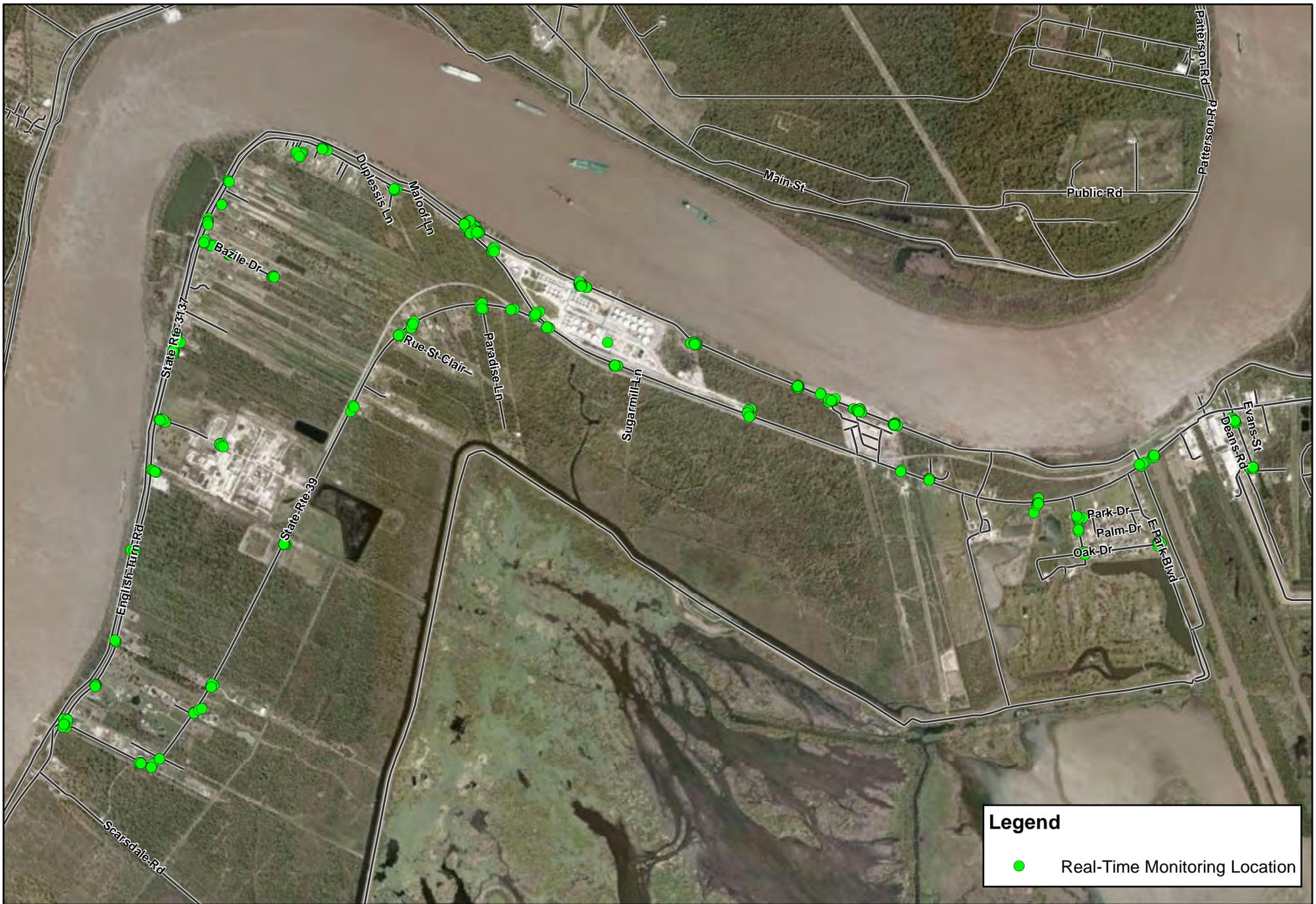
	Stolt Haven
	Braithwaite, LA
Project No. 40365	Plaquemines Parish
	Print Date: 9/28/2012



Community Fixed Real-Time Monitoring Locations



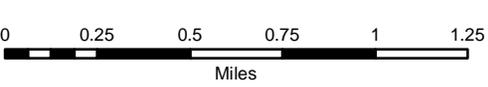
	Stolthaven Braithwaite, LA
	Plaquemines Parish Print Date: 9/26/2012
Project No. 40365	



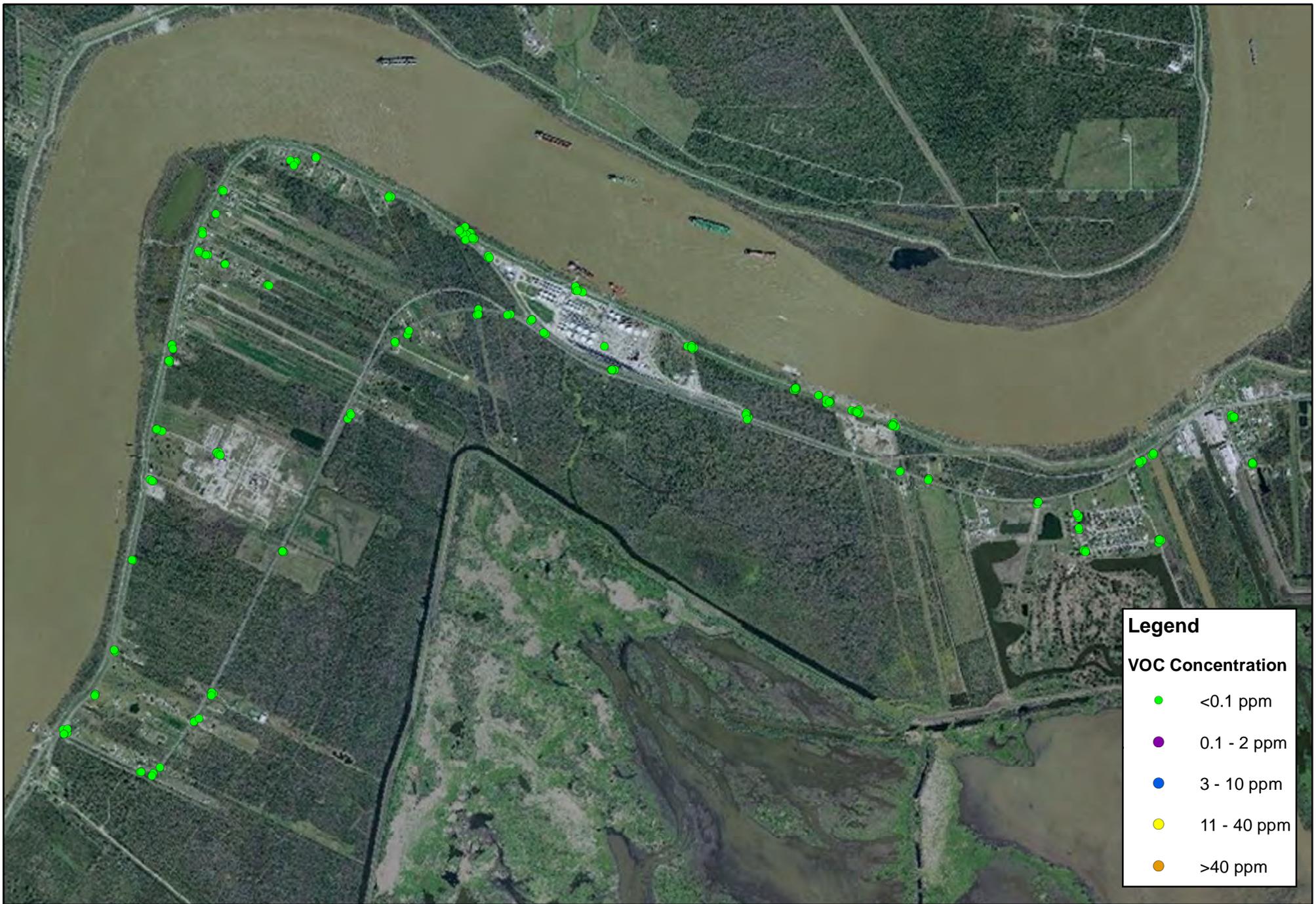
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- Real-Time Monitoring Location

Community Real-Time Monitoring Locations
10/04/2012



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

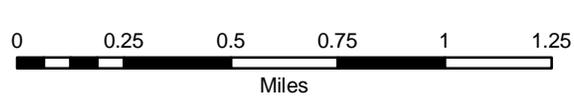


Legend

VOC Concentration

- <0.1 ppm
- 0.1 - 2 ppm
- 3 - 10 ppm
- 11 - 40 ppm
- >40 ppm

**Manually-Logged
Community VOC Concentrations**
10/04/2012



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Braithwaite, LA**
Plaquemines Parish
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