

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

This data report discusses community real-time air monitoring data collected 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.

Community real-time air monitoring was conducted for VOCs, LEL, and hydrogen sulfide (H₂S) 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 AreaRAE and hand-held instrument data, respectively. While stationary AreaRAE results indicate elevated VOC levels at two locations outside of the facility perimeter, these results are preliminary and may include drift in the instrument’s electrochemical sensor. Additionally, these AreaRAE instruments are located adjacent to roads and are subject to detecting products of combustion due to vehicular emissions. No detections of VOC, LEL or H₂S were observed in the community using real-time handheld instruments. Table 3 highlights analytical sample counts collected within offsite air, and water. Appendix 1 shows incident site maps.

**Table 1
AreaRAE Summary – September 17th 00:00 – 23:59**

Unit	Analyte	Number of Readings	Number Of Detections	Concentration Range
Unit 1	LEL	4196	0	0 - 0 %
	VOC	4196	528	0.1 - 0.5 ppm
Unit 2	LEL	4421	0	0 - 0 %
	VOC	4421	0	0 - 0 ppm
Unit 3	LEL	5268	0	0 - 0 %
	VOC	5268	0	0 - 0 ppm
Unit 4	LEL	5280	0	0 - 0 %
	VOC	5280	0	0 - 0 ppm
Unit 9	LEL	5147	0	0 - 0 %
	VOC	5147	0	0 - 0 ppm
Unit 10	LEL	721	0	0 - 0 %
	VOC	721	64	0.1 - 6.8 ppm
Unit 11	LEL	4581	0	0 - 0 %
	VOC	4581	0	0 - 0 ppm
Unit 12	LEL	3602	0	0 - 0 %
	VOC	3602	0	0 - 0 ppm
Unit 13	LEL	5113	0	0 - 0 %
	VOC	5113	0	0 - 0 ppm

***Detections may include drift events** - Drift is defined as any interference in the electrochemical 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 – September 17th 00:00 – 23:59**

Community				
Analyte	Number of Readings	Number of Detections	Average Concentration of Detections	Highest Concentration
H2S	97	0	NA	< 1.0 ppm
LEL	215	0	NA	< 1.0 %
VOC	217	0	NA	< 0.1 ppm

NA = not applicable

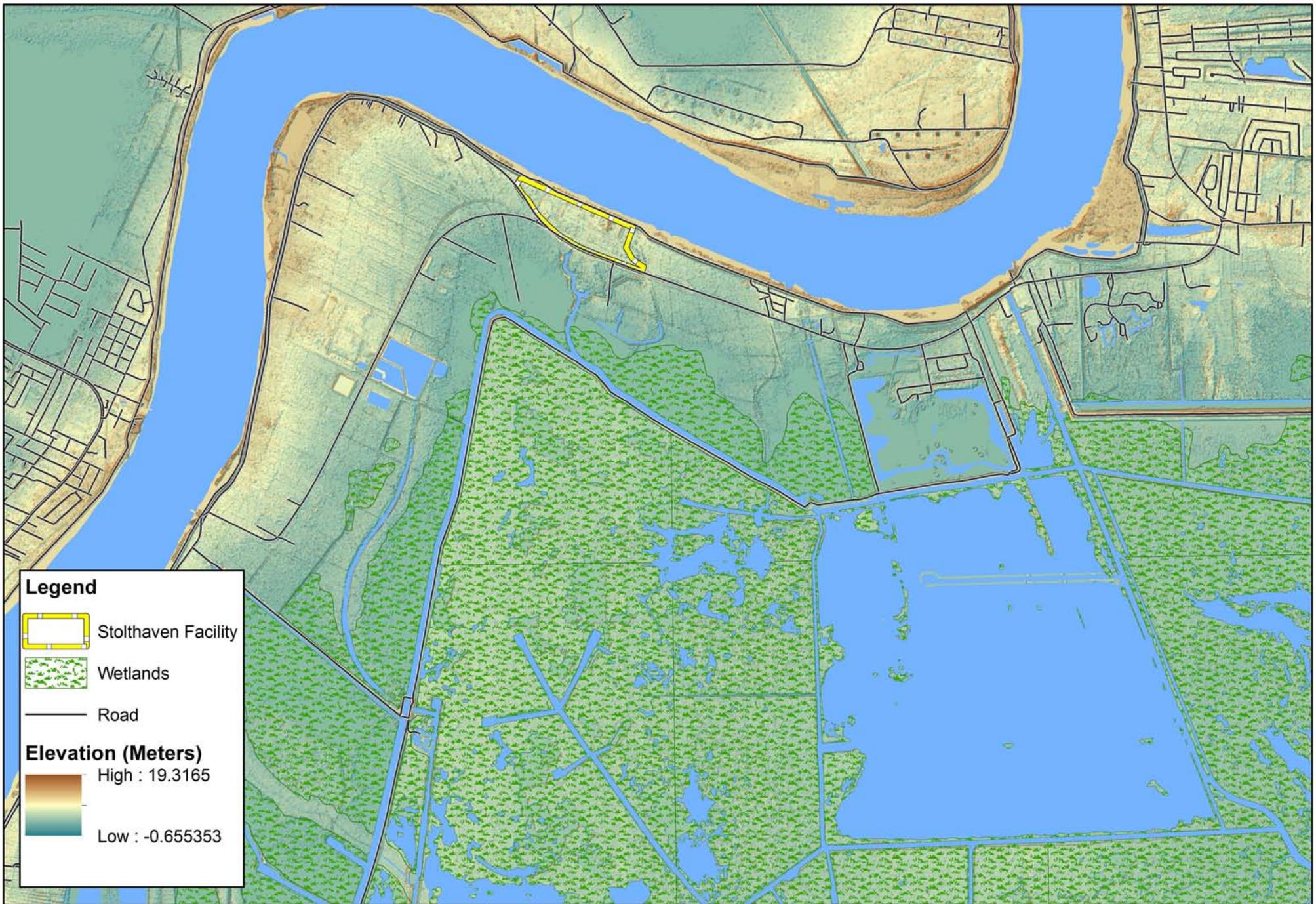
* In addition to the tabulated real-time data, additional air monitoring for the purpose of worker protection was performed throughout the work area. These data are used for task-specific decision-making, but may not be recorded in the tabulated data represented above.

**Table 3
Analytical Sample Counts – September 17th 00:00 – 23:59**

Matrix	Number of Samples
Air	34
Water`	2

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

Appendix 1: Incident Maps



Legend

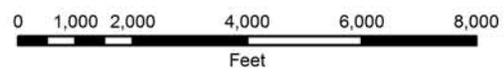
-  Stolthaven Facility
-  Wetlands
-  Road

Elevation (Meters)

High : 19.3165

Low : -0.655353

**Stolthaven Facility
Shaded Relief of Elevation**



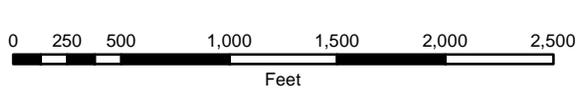
CTEH <small>Project No. 40355</small>	Stolthaven
	Braithwaite, LA
	Plaquemines Parish
Print Date: 9/17/2012	



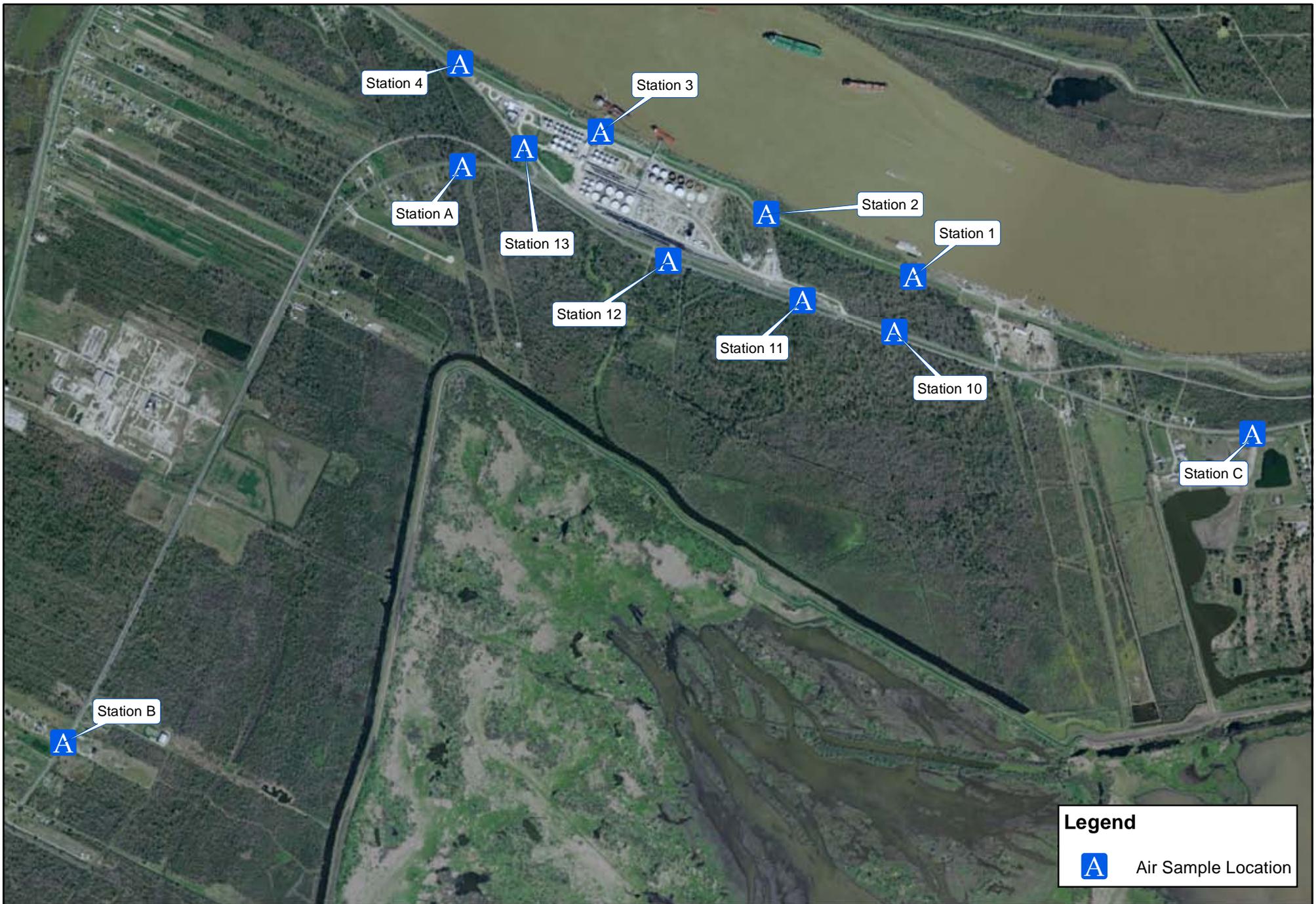
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 AreaRAE Station

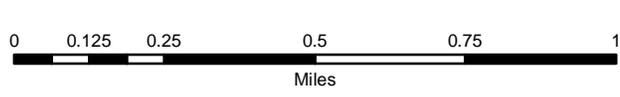
AreaRAE Station Locations
September 15, 2012



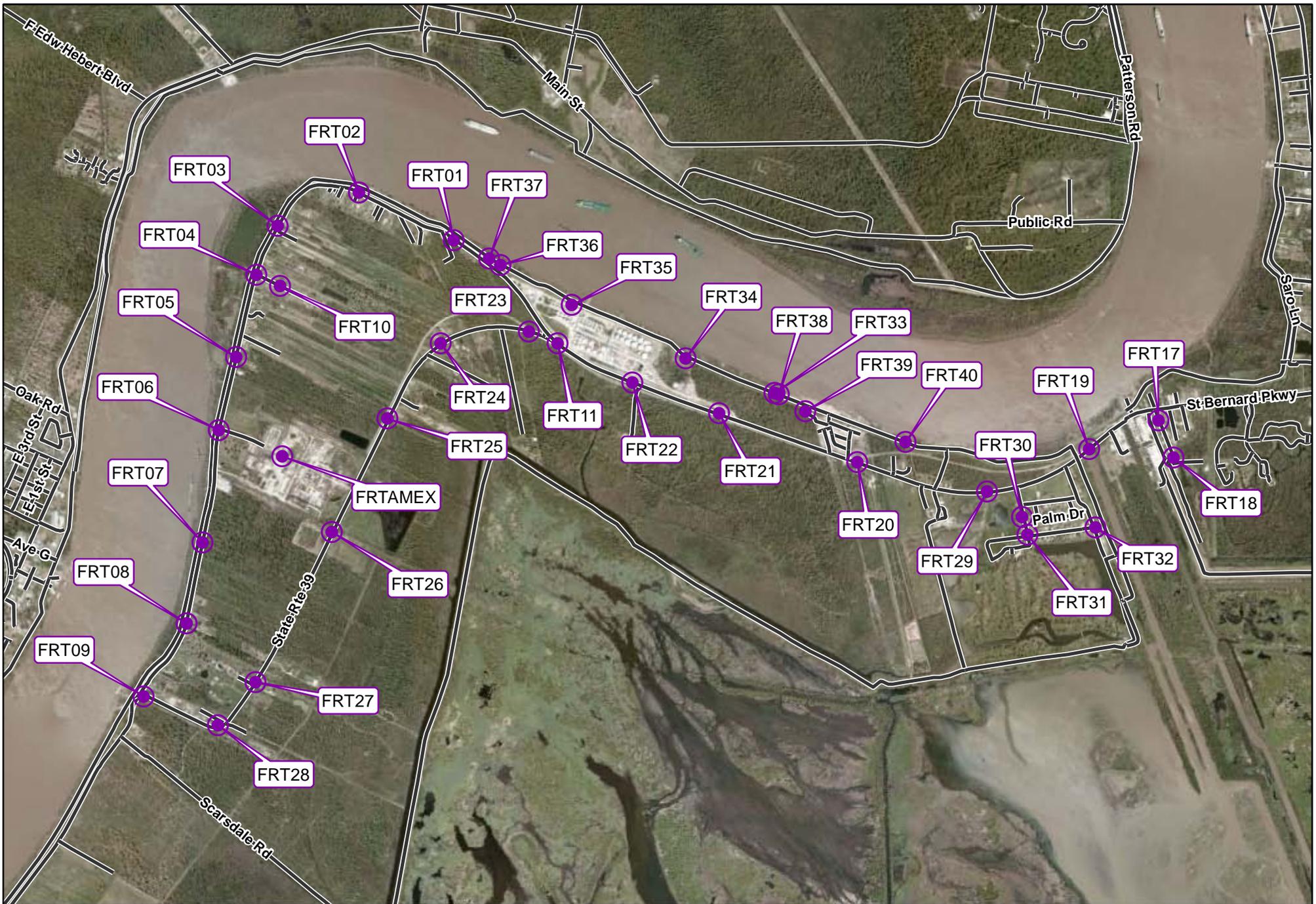
 Project No. 40355	Garner Environmental
	Braithwaite, LA
	Plaquemines Parish
Print Date: 9/16/2012	



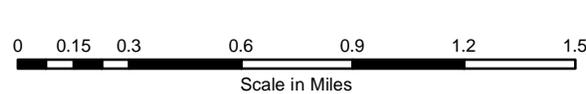
Community Ambient Air Analytical Sampling Locations



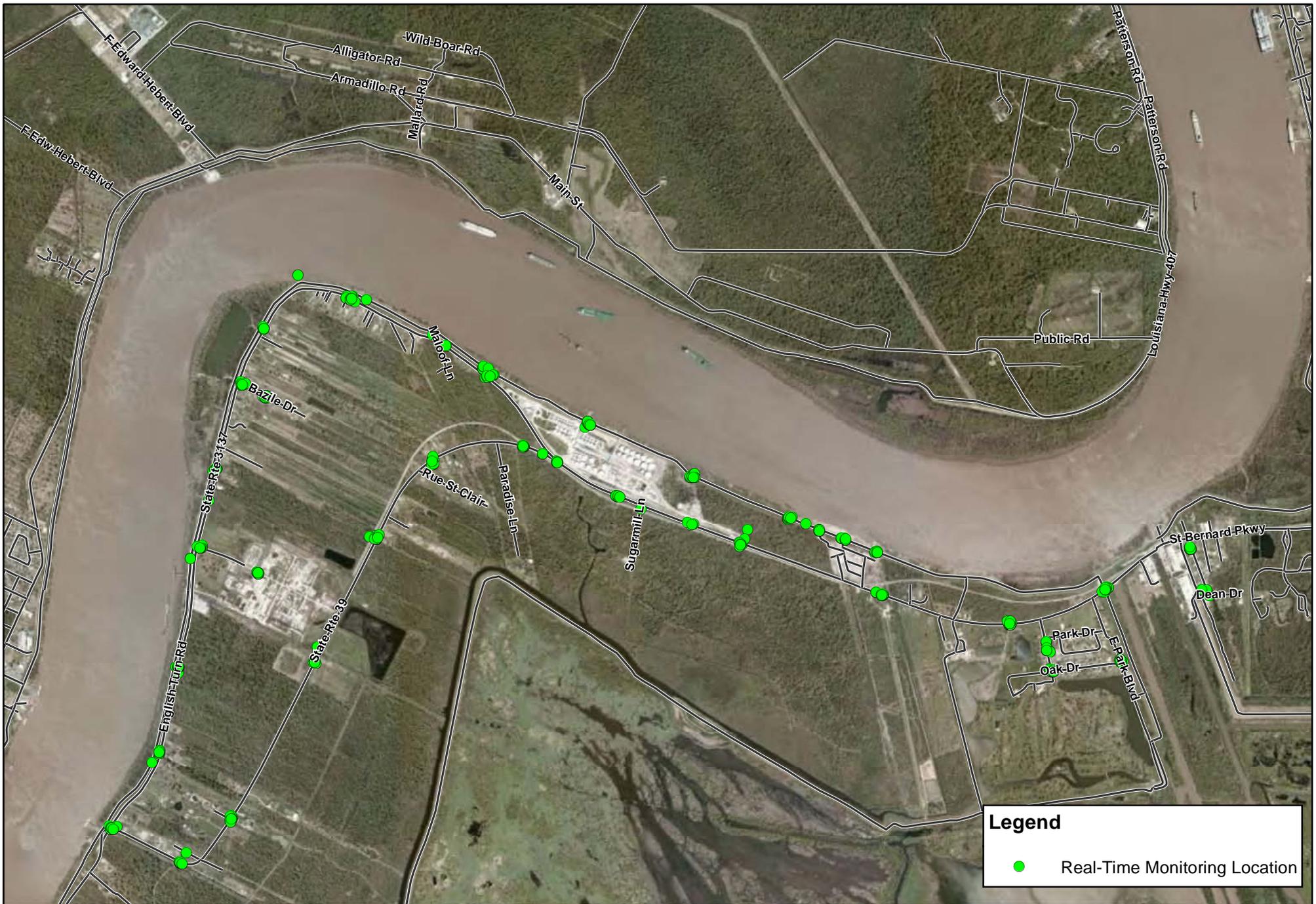
 Project No. 40355	Stolthaven
	Braithwaite, LA
	Plaquemines Parish
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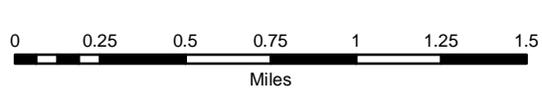
Community Fixed Real-Time Monitoring Locations



	Stolthaven
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Community Real-Time Monitoring Locations
9/17/2012



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- Real-Time Monitoring Location

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	Plaquemines Parish Print Date: 9/18/2012

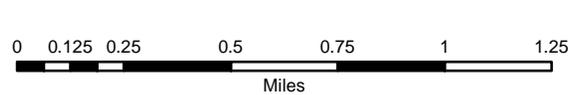


Legend

VOC Concentration

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

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



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H2S Readings

- Detection
- No Detection

**H2S
Reading Locations**
9/17/2012



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