

**40365 Braithwaite, LA
Stolthaven Terminal Facility
Onsite Summary of Air Monitoring and Sampling Results
September 30, 2012
PO# 12-H0408-MR**

This data report discusses real-time air monitoring data collected within the work area between September 29th 00:00 and September 29th 23:59 in support of mitigation and remediation operations conducted near Stolthaven’s facility near Braithwaite, LA.

Real-time hand-held air monitoring identified three VOC detections within the work area on September 29th. At the time each of these detections was recorded, CTEH[®] personnel noted that workers were not present or that no work activity was occurring. While stationary AreaRAE results indicate reported detections of VOCs at 9 locations within the work area, these results are preliminary and may include drift in the instrument’s chemical sensors. If VOC detections were noted, CTEH[®] personnel were dispatched to the AreaRAE location for further evaluation. In this respect, AreaRAE unit 25 recorded a VOC detection of 33.5 ppm confirmed by a CTEH[®] employee. No workers were present at the time of this reading. 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. A Multi-Rae (11.7 eV lamp) was utilized to monitor for formic acid in areas located near the formic acid scrubber. Table 1 and Table 2 display data summaries for hand-held instruments and AreaRAEs respectively. Table 3 highlights analytical sample counts collected in onsite air, soil, surface water and waste characterization. Appendix 1 shows incident site maps.

**Table 1
Hand-held Real-time Summary – September 29th 00:00 – 23:59**

Work Area				
Analyte	Number of Readings	Number of Detections	Average Concentration of Detections	Highest Concentration
LEL	500	0	NA	< 1.0 %
VOC	505	3	1.2 ppm	1.8 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 – September 29th 00:00 – 23:59**

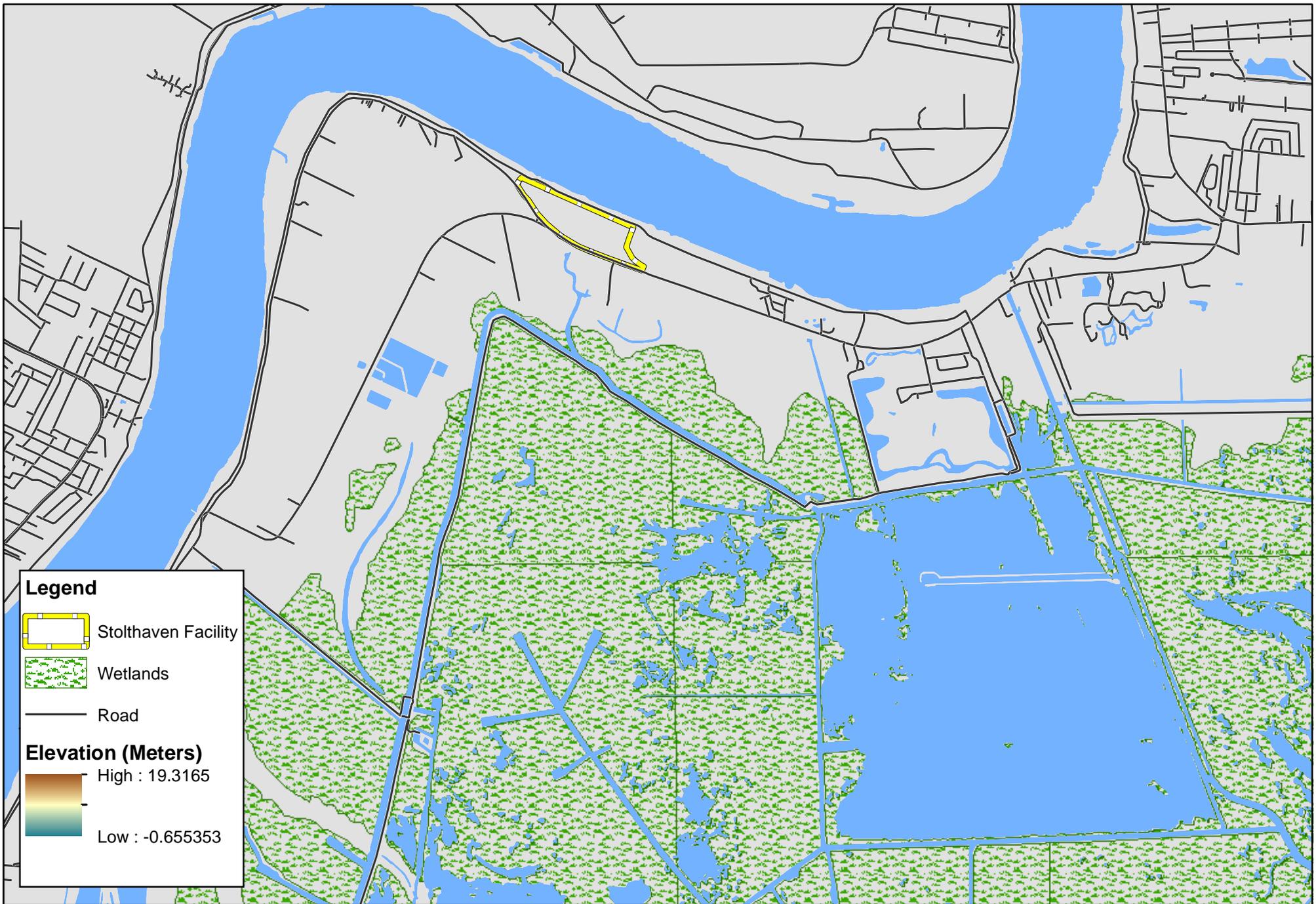
Unit	Analyte	Number of Readings	Number Of Detections	Concentration Range
Unit 14	LEL	5558	0	0 - 0 %
	VOC	5558	47	0.1 - 2.6 ppm
Unit 15	LEL	3705	0	0 - 0 %
	VOC	3705	0	0 - 0 ppm
Unit 16	LEL	5545	0	0 - 0 %
	VOC	5545	5	0.1 - 0.5 ppm
Unit 17	LEL	5564	0	0 - 0 %
	VOC	5564	33	0.1 - 0.1 ppm
Unit 18	LEL	5595	0	0 - 0 %
	VOC	5595	0	0 - 0 ppm
Unit 19	LEL	5553	0	0 - 0 %
	VOC	5553	44	0.1 - 0.7 ppm
Unit 20	LEL	5489	0	0 - 0 %
	VOC	5489	302	0.1 - 12.6 ppm
Unit 21	LEL	5567	0	0 - 0 %
	VOC	5567	417	0.1 - 3.3 ppm
Unit 22	LEL	5633	0	0 - 0 %
	VOC	5633	0	0 - 0 ppm
Unit 23	LEL	5534	0	0 - 0 %
	VOC	5534	184	0.1 - 1.4 ppm
Unit 24	LEL	5589	0	0 - 0 %
	VOC	5589	234	0.1 - 2 ppm
Unit 25	LEL	5302	0	0 - 0 %
	VOC	5302	139	0.1 - 33.5 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 – September 29th 00:00 – 22:59

Matrix	Number of Samples
Air	4
Soil	7
Surface Water	2
Waste Characterization	2

Appendix 1: Incident Maps



Legend

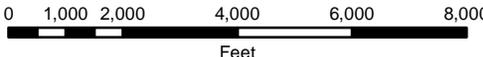
-  Stolthaven Facility
-  Wetlands
-  Road

Elevation (Meters)

High : 19.3165

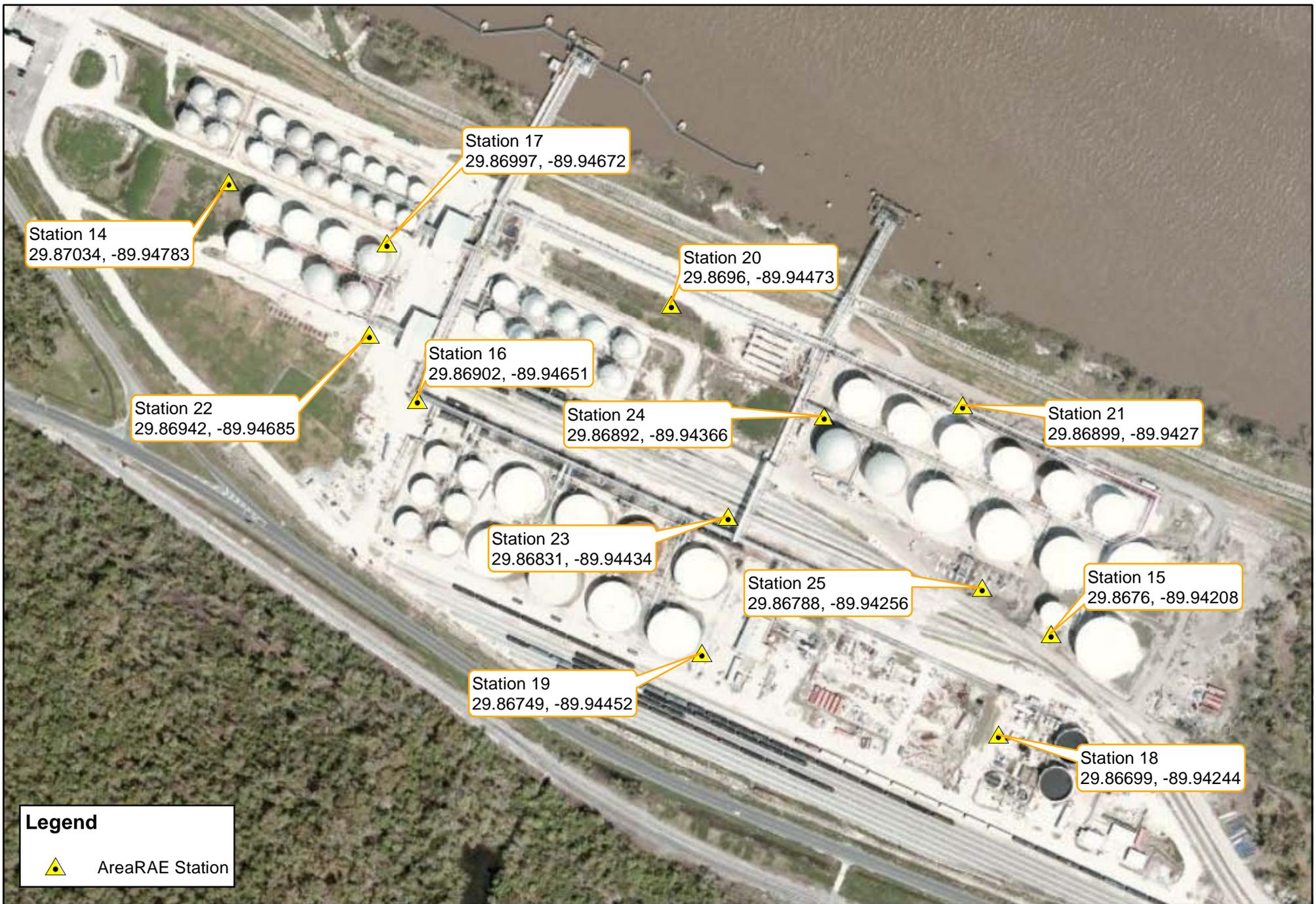
Low : -0.655353

**Stolthaven Facility
Shaded Relief of Elevation**



CTEH[®]
Project No.
40365

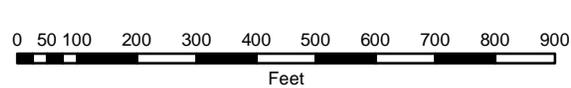
**Stolthaven
Braithwaite, LA
Plaquemines Parish
Print Date: 9/28/2012**



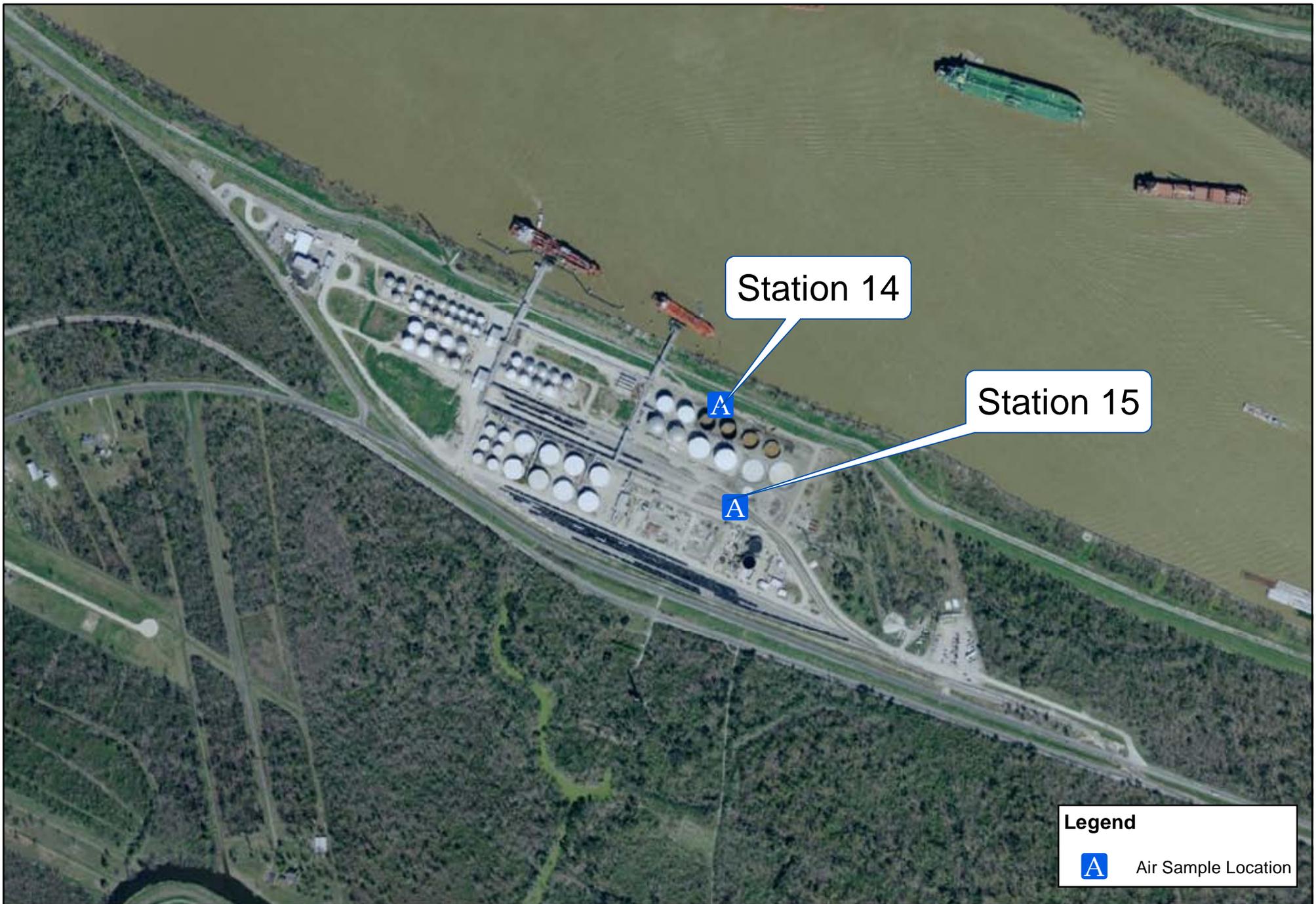
Legend

 AreaRAE Station

Work Area
AreaRAE Station Locations
 September 21, 2012



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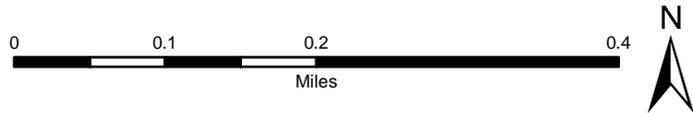
Station 14

Station 15

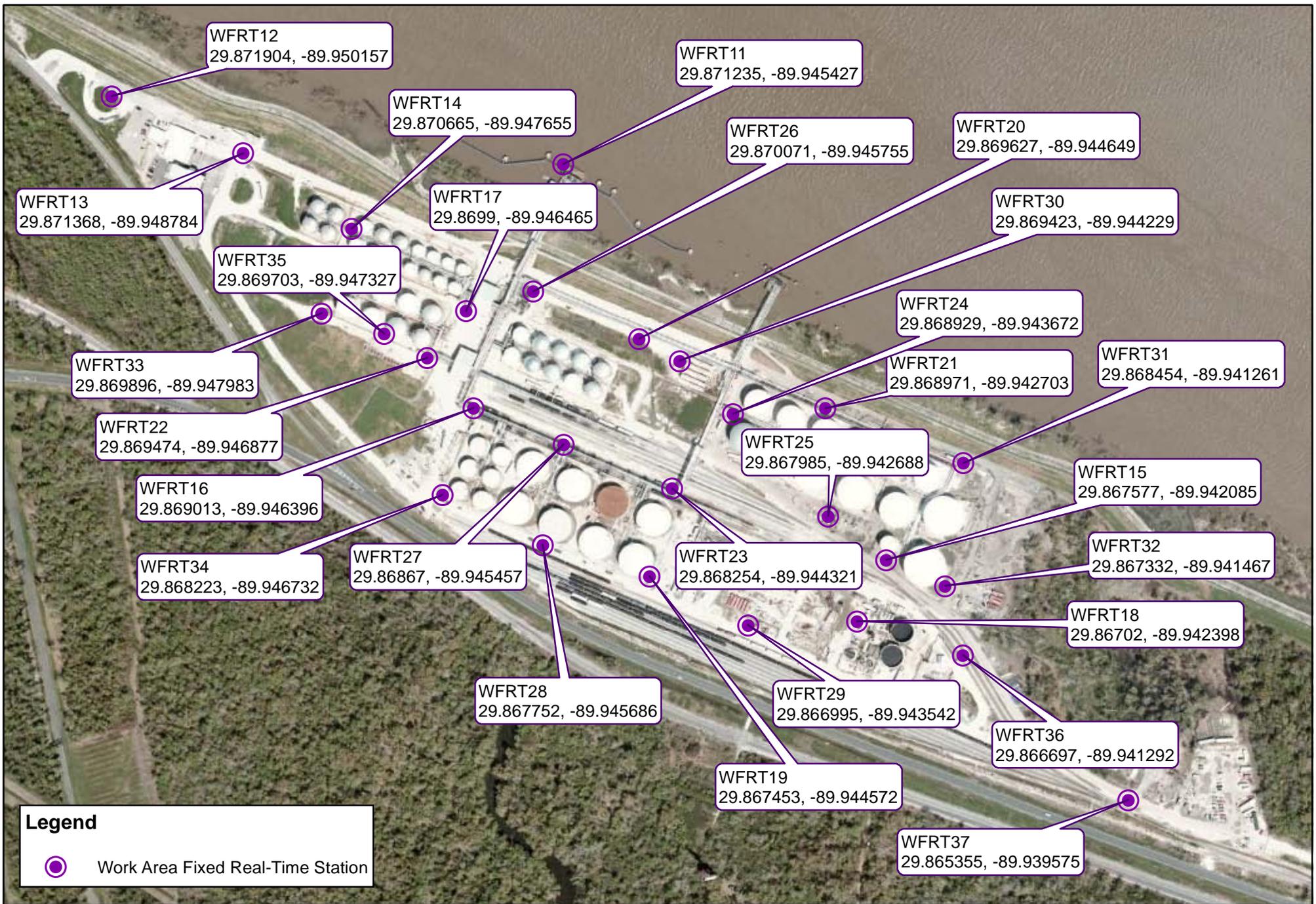
Legend

 Air Sample Location

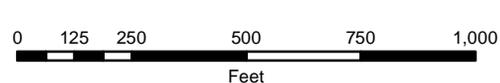
**Ambient Air
Analytical Sampling Locations**



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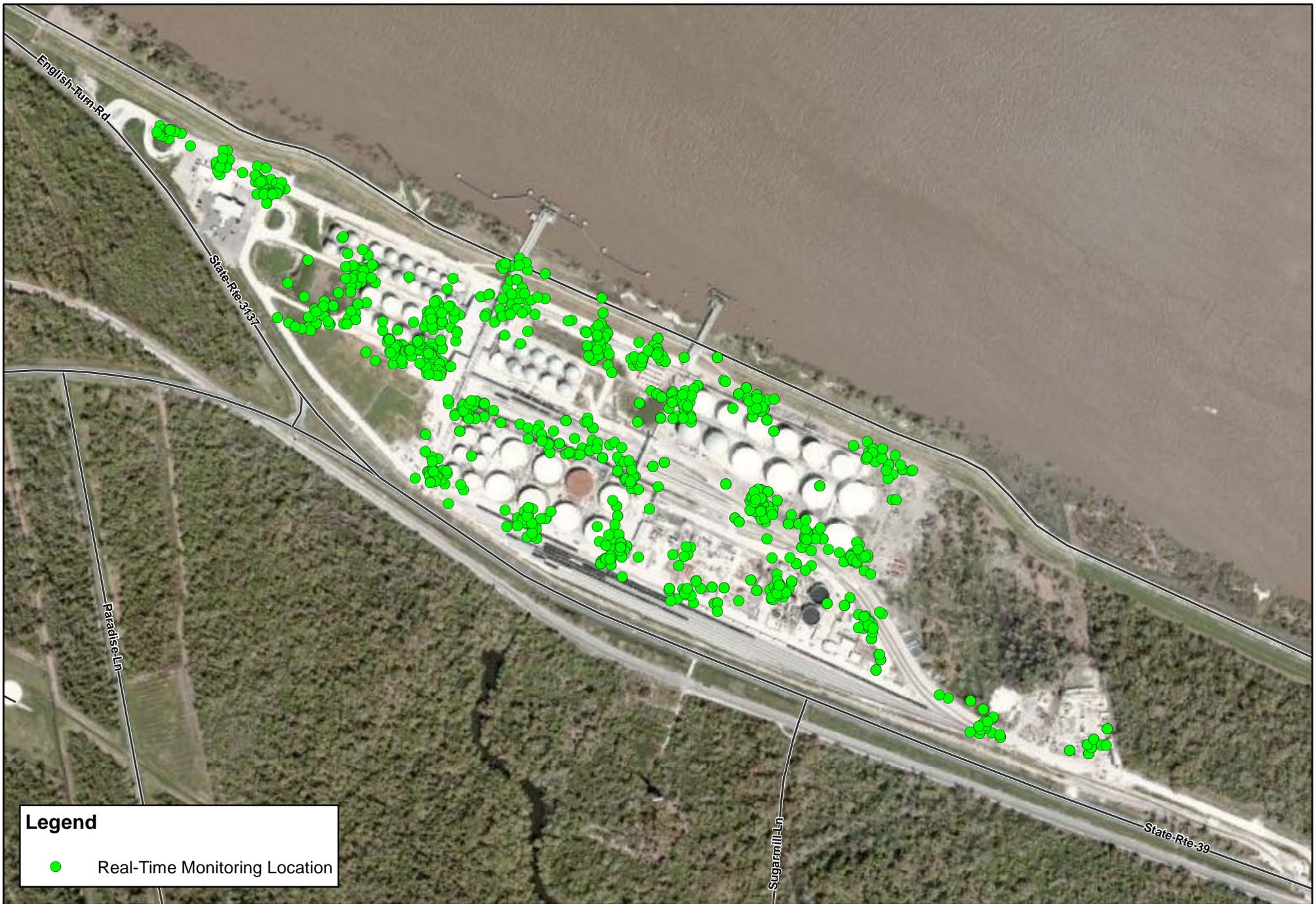


**Work Area
Fixed Real-Time Station**
September 21, 2012



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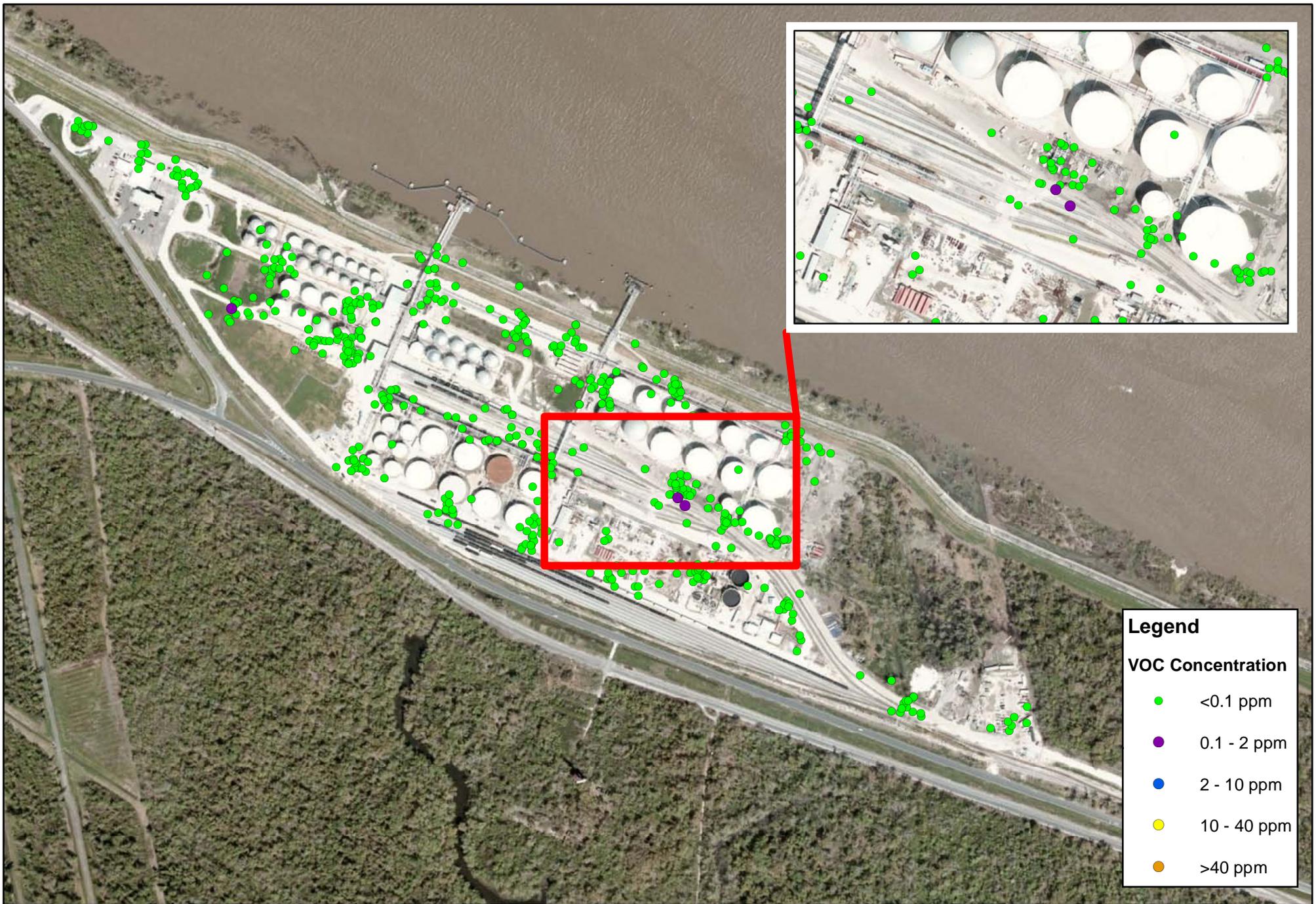
Legend

- Real-Time Monitoring Location

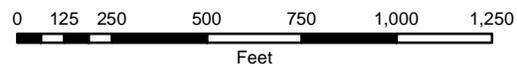
Work Area
Real-Time Monitoring Locations
 9/29/2012



 Project No. 40365	Stolthaven Braithwaite, LA
	Plaquemines Parish Print Date: 9/30/2012



**Manually-Logged
Work Area VOC Concentrations**
9/29/2012



Project No.
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Braithwaite, LA**

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