

**40365 Braithwaite, LA  
Stolthaven Terminal Facility  
Onsite Summary of Air Monitoring and Sampling Results  
September 25, 2012  
PO# 12-H0408-MR**

This data report discusses real-time air monitoring data collected within the work area between September 24<sup>th</sup> 00:00 and September 24<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 resulted in reports of detections exceeding the action level required for the donning of respiratory protection. If workers were present at the time of the action level exceedence, they were advised to don respiratory protection or egress from the area to an upwind position. While stationary AreaRAE results indicate reported detections of LEL and VOCs at 12 locations within the work area, these results are preliminary and include drift in the instrument’s chemical sensors. No hand-held MultiRAE detections of LEL were observed within the work area.

Real-time air monitoring for VOCs, LEL, and chlorobenzene was conducted using stationary AreaRAEs and/or hand-held instruments such as the MultiRAE and colorimetric detector tubes. While no formic acid-specific colorimetric detector tubes were utilized onsite, this analyte is detectible as a VOC on the hand-held MultiRAE with an 11.7 eV lamp. 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 and waste characterization. Appendix 1 shows incident site maps.

**Table 1  
Hand-held Real-time Summary – September 24<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	842	0	NA	< 1.0 %
Methyl Acrylate	1	0	NA	< 2.0 ppm
VOC	1010	25	0.5 ppm	2.4 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 24<sup>th</sup> 00:00 – 23:59**

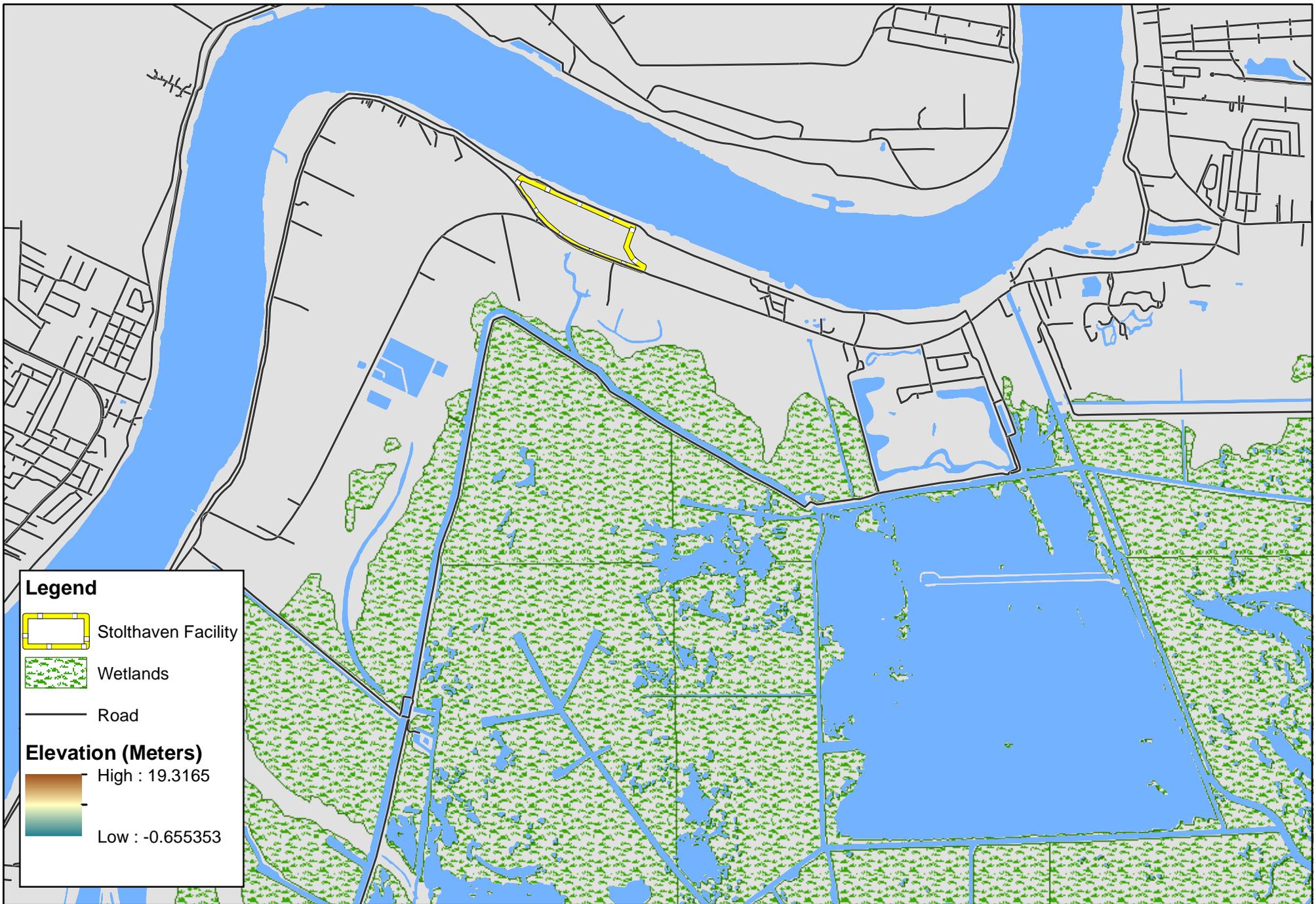
Unit	Analyte	Number of Readings	Number Of Detections	Concentration Range
Unit 14	LEL	5319	0	0 - 0 %
	VOC	5319	4	0.2 - 7.6 ppm
Unit 15	LEL	5411	0	0 - 0 %
	VOC	5411	347	0.1 - 10.7 ppm
Unit 16	LEL	5145	0	0 - 0 %
	VOC	5145	330	0.1 - 85.5 ppm
Unit 17	LEL	5367	0	0 - 0 %
	VOC	5367	111	0.1 - 1.6 ppm
Unit 18	LEL	5367	0	0 - 0 %
	VOC	5367	39	0.1 - 11.1 ppm
Unit 19	LEL	5030	0	0 - 0 %
	VOC	5030	159	0.1 - 165.5 ppm
Unit 20	LEL	5511	0	0 - 0 %
	VOC	5511	474	0.1 - 2.4 ppm
Unit 21	LEL	5368	0	0 - 0 %
	VOC	5368	120	12 - 28.9 ppm
Unit 22	LEL	5467	0	0 - 0 %
	VOC	5467	11	0.1 - 0.1 ppm
Unit 23	LEL	5177	0	0 - 0 %
	VOC	5177	102	0.1 - 3.2 ppm
Unit 24	LEL	5395	0	0 - 0 %
	VOC	5395	174	0.1 - 3.4 ppm
Unit 25	LEL	5445	0	0 - 0 %
	VOC	5445	39	0.1 - 3.3 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.

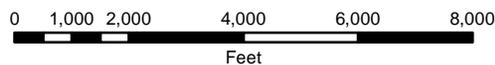
**Table 3**  
**Analytical Sample Counts – September 24<sup>th</sup> 00:00 – 22:59**

<b>Matrix</b>	<b>Number of Samples</b>
Air	4
Soil	10
Waste Characterization	3
Waste Water	9
Product Quality	10

# Appendix 1: Incident Maps

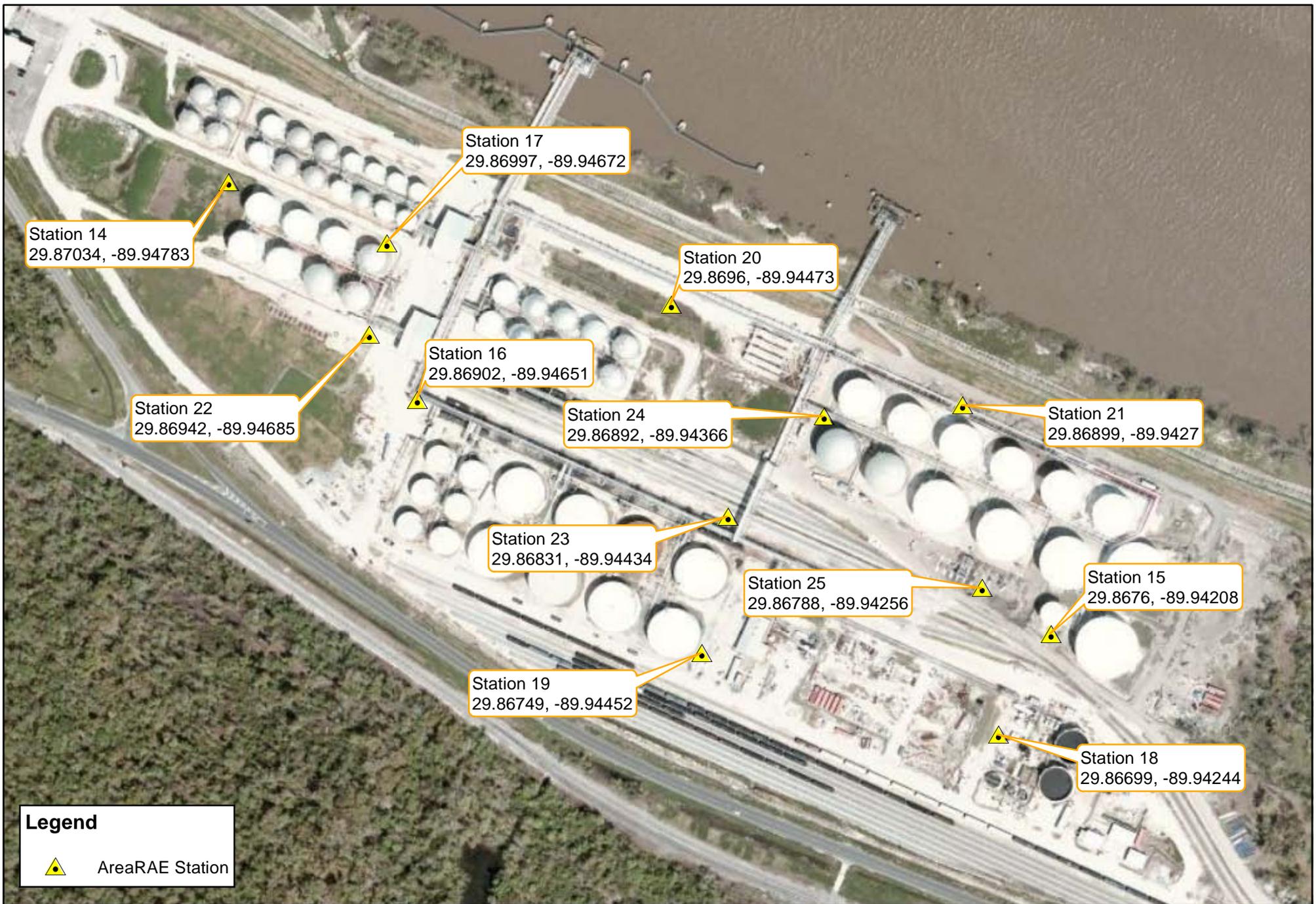


**Stolthaven Facility  
Shaded Relief of Elevation**



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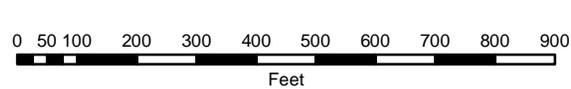
**Stolthaven  
Braithwaite, LA**  
**Plaquemines Parish**  
Print Date: 9/25/2012



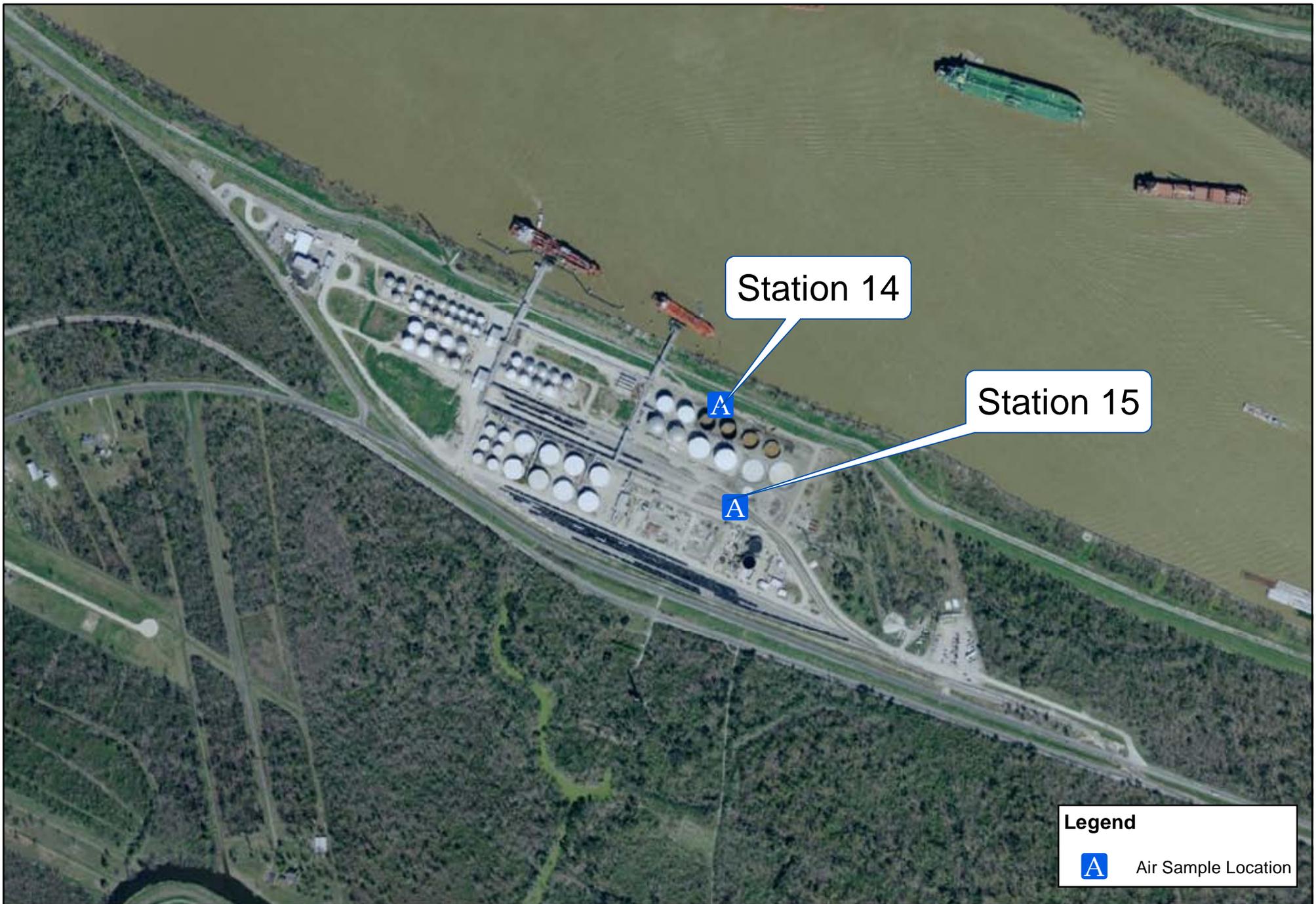
**Legend**

 AreaRAE Station

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



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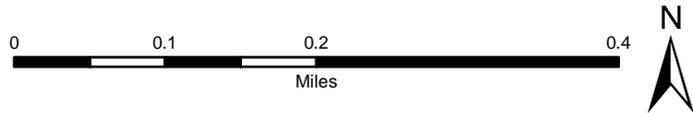
Station 14

Station 15

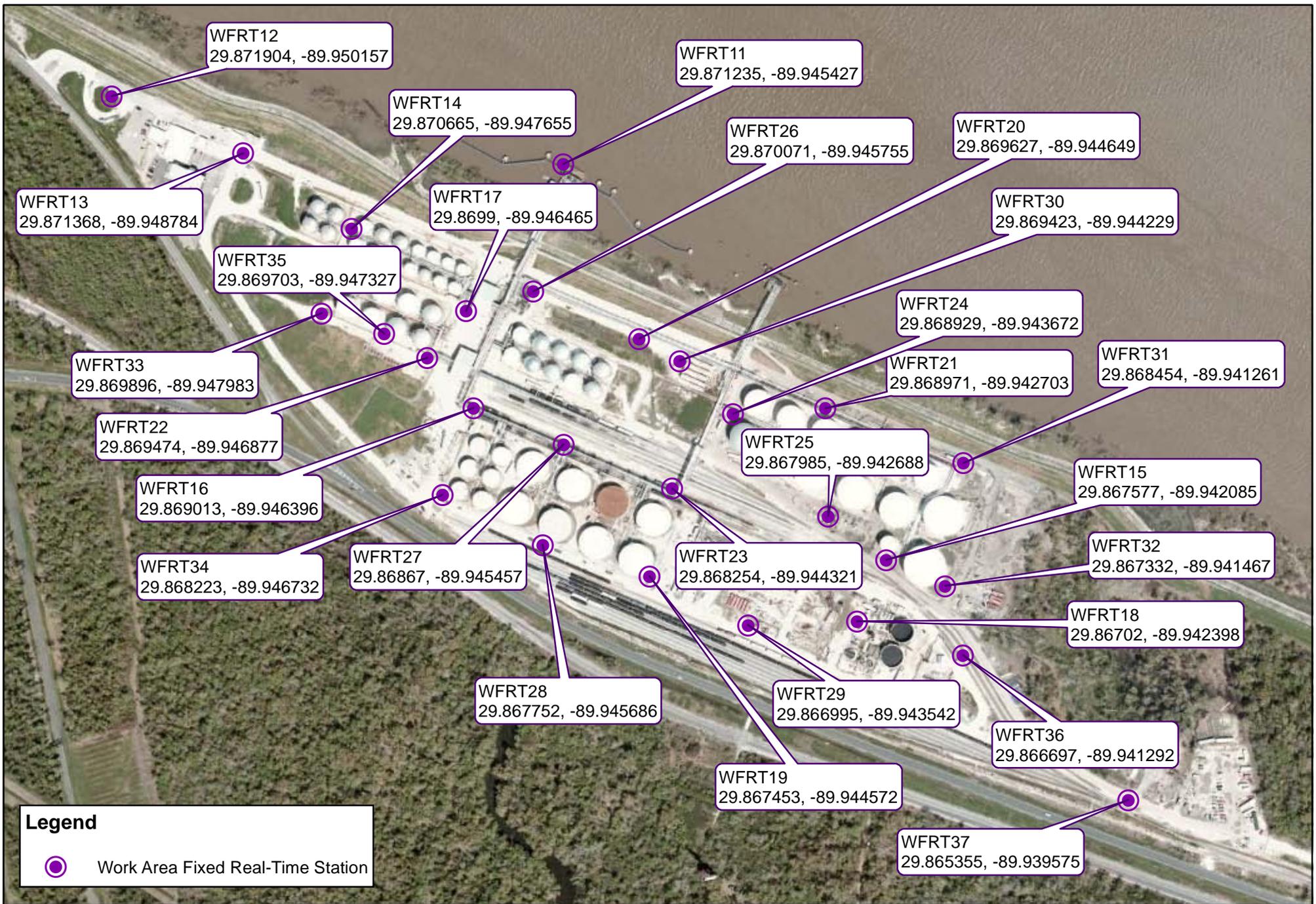
**Legend**

 Air Sample Location

**Ambient Air  
Analytical Sampling Locations**



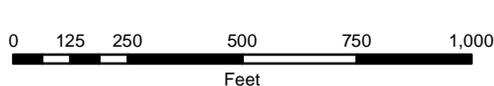
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**Legend**

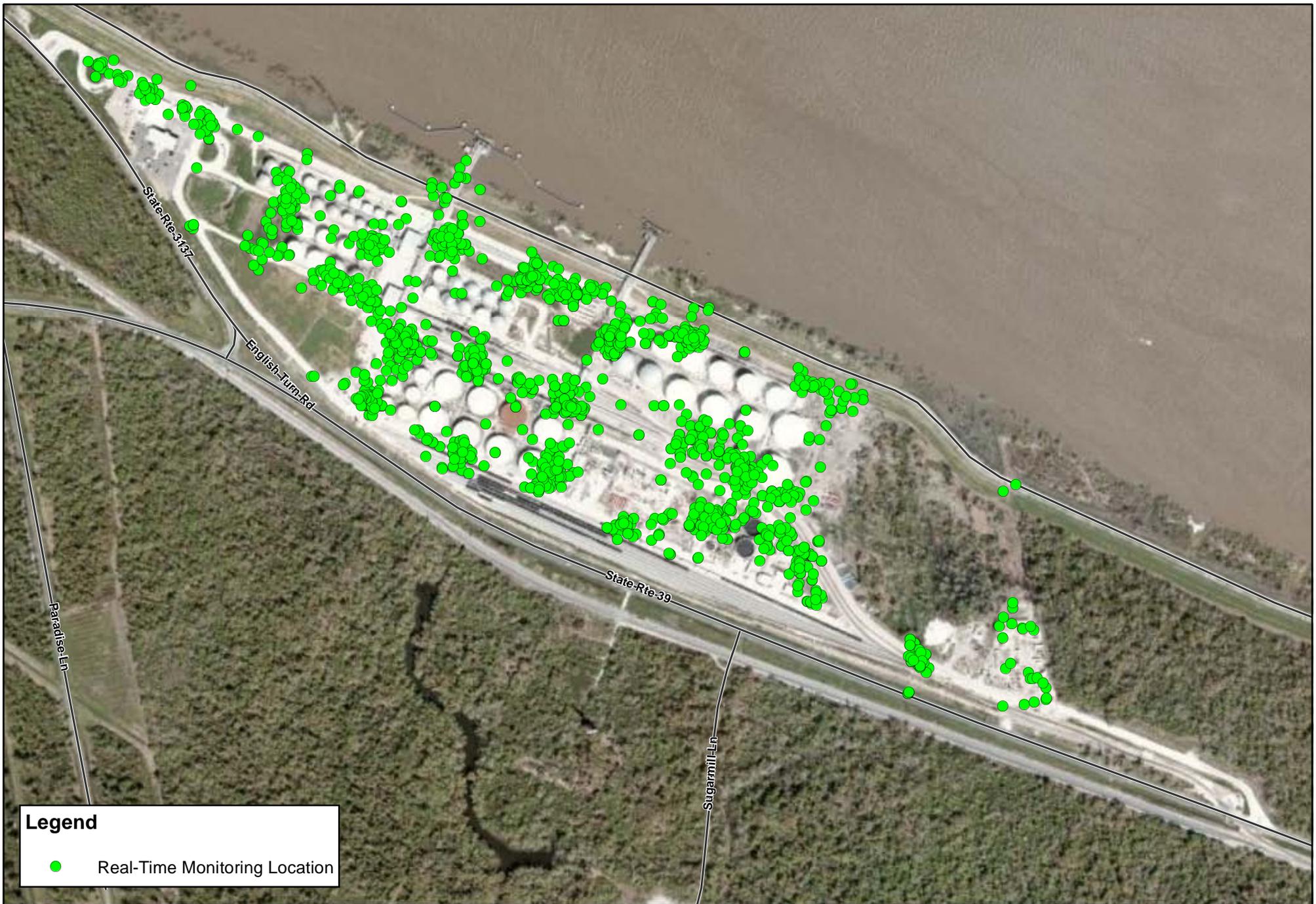
● Work Area Fixed Real-Time Station

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



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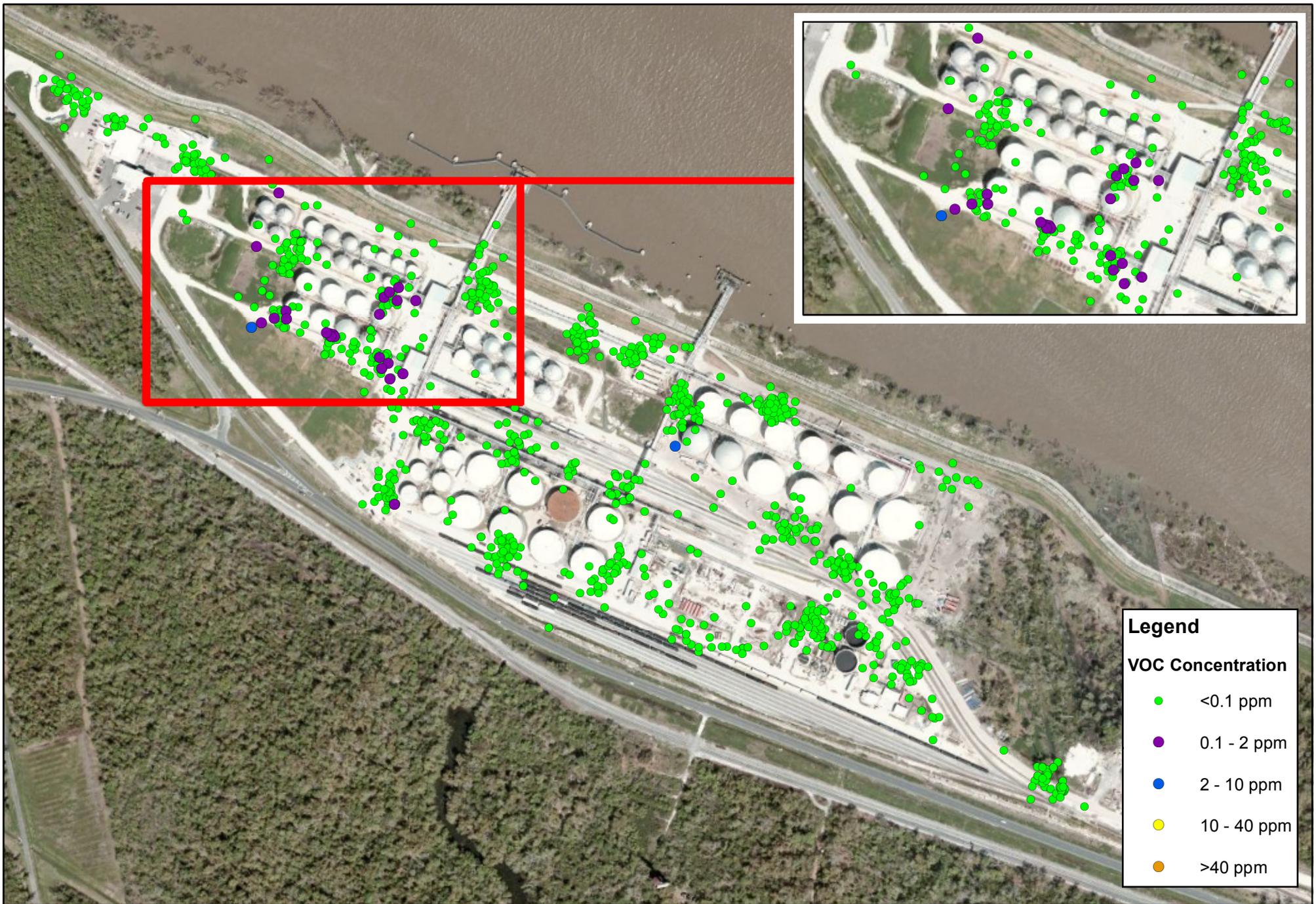
**Legend**

- Real-Time Monitoring Location

**Work Area**  
**Real-Time Monitoring Locations**  
 9/24/2012



	<b>Stolthaven</b> <b>Braithwaite, LA</b>
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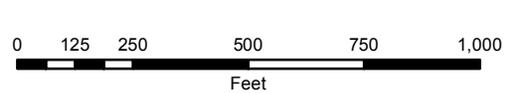


**Legend**

**VOC Concentration**

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

**Manually-Logged  
Work Area VOC Concentrations**  
9/24/2012



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