

**40365 Braithwaite, LA
Stolthaven Terminal Facility
Onsite Summary of Air Monitoring and Sampling Results
September 29, 2012
PO# 12-H0408-MR**

This data report discusses real-time air monitoring data collected within the work area between September 28th 00:00 and September 28th 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 donned respiratory protection. All hand-held detections of VOCs within the work area not requiring respiratory protection were instantaneous readings. While stationary AreaRAE results indicate reported detections of VOCs at 10 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.

Real-time air monitoring for VOCs, LEL, formic acid, methyl acrylate, styrene, and amines was conducted using stationary AreaRAEs and/or hand-held instruments such as the MultiRAE and colorimetric detector tubes. In addition to colorimetric detector tubes, a Multi-Rae (11.7 eV lamp) was utilized to monitor for formic acid in areas located near the formic acid scrubber. No detections of amines, formic acid, styrene, methyl acrylate, or LEL were noted. AreaRAE unit 25 recorded a VOC detection of 16.7 ppm confirmed by CTEH[®] employee; reading lasted for 2 minutes and then returned to 0.3 ppm. 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 28th 00:00 – 23:59**

Work Area				
Analyte	Number of Readings	Number of Detections	Average Concentration of Detections	Highest Concentration
Amines	4	0	NA	< 0.5 ppm
Formic Acid	8	0	NA	< 0.52 ppm
LEL	832	0	NA	< 1.0 %
Methyl Acrylate	8	0	NA	< 2.0 ppm
Styrene	1	0	NA	< 0.5 ppm
VOC	921	7	0.8 ppm	2.0 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 28th 00:00 – 23:59**

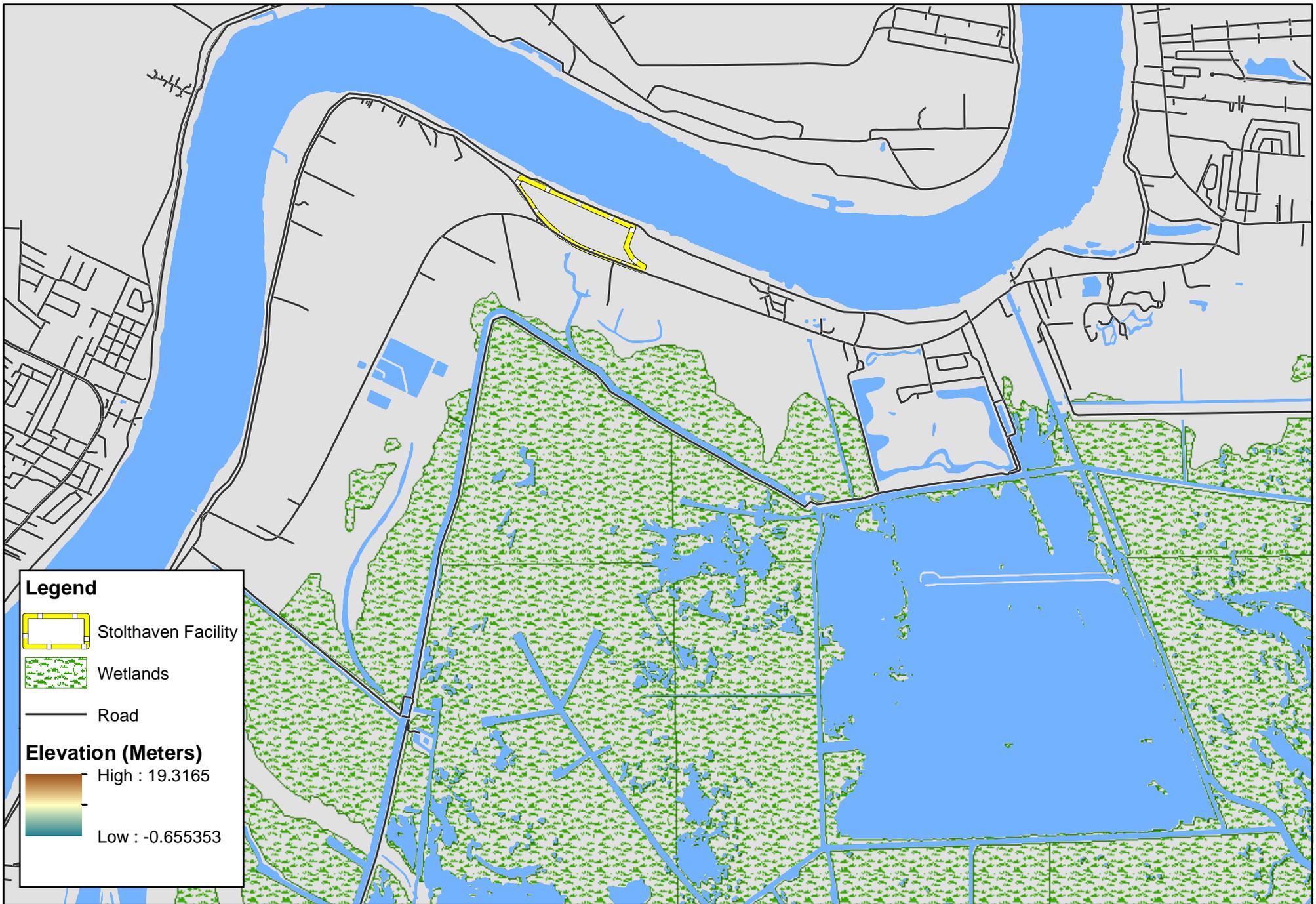
Unit	Analyte	Number of Readings	Number Of Detections	Concentration Range
Unit 14	LEL	5294	0	0 - 0 %
	VOC	5294	132	0.1 - 5.4 ppm
Unit 15	LEL	5240	0	0 - 0 %
	VOC	5240	0	0 - 0 ppm
Unit 16	LEL	5416	0	0 - 0 %
	VOC	5416	171	0.1 – 2.0 ppm
Unit 17	LEL	5445	0	0 - 0 %
	VOC	5445	40	0.1 - 0.4 ppm
Unit 18	LEL	5348	0	0 - 0 %
	VOC	5348	0	0 - 0 ppm
Unit 19	LEL	5443	0	0 - 0 %
	VOC	5443	8	0.1 - 0.4 ppm
Unit 20	LEL	5417	0	0 - 0 %
	VOC	5417	254	0.1 – 6.0 ppm
Unit 21	LEL	5471	0	0 - 0 %
	VOC	5471	246	0.1 - 8.6 ppm
Unit 22	LEL	5567	0	0 - 0 %
	VOC	5567	71	0.1 - 0.4 ppm
Unit 23	LEL	5276	0	0 - 0 %
	VOC	5276	318	0.1 - 4.2 ppm
Unit 24	LEL	5536	0	0 - 0 %
	VOC	5536	365	0.1 - 1.5 ppm
Unit 25	LEL	4861	0	0 - 0 %
	VOC	4861	30	0.1 - 16.7 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.

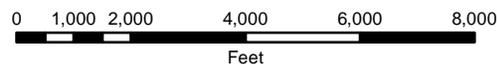
Table 3
Analytical Sample Counts – September 28th 00:00 – 22:59

Matrix	Number of Samples
Air	4
Product Quality	1
Soil	1
Surface Water	1
Waste Characterization	1

Appendix 1: Incident Maps

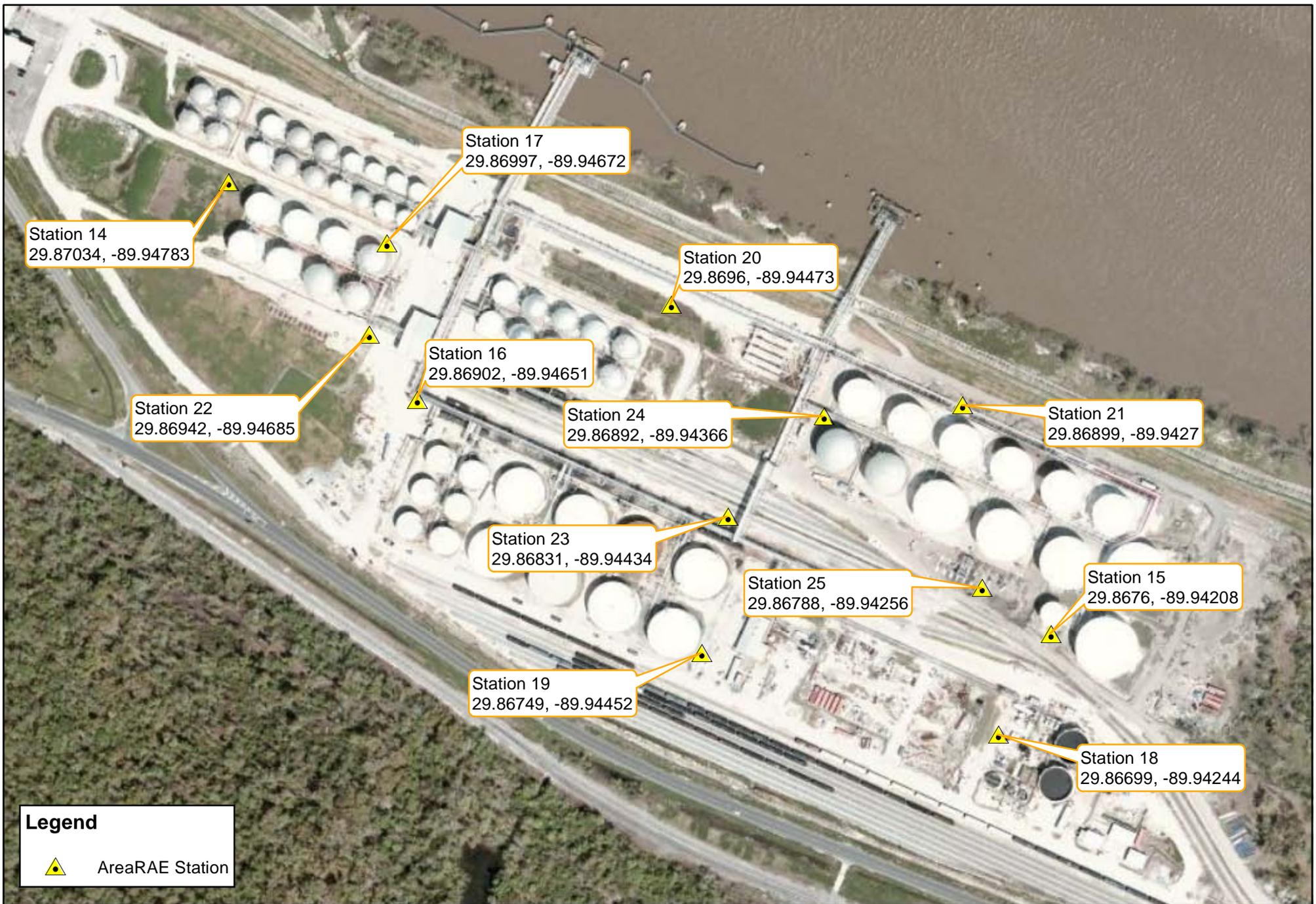


**Stolthaven Facility
Shaded Relief of Elevation**



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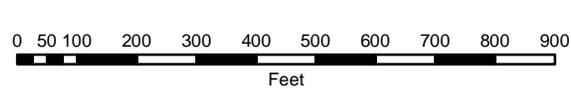
**Stolthaven
Braithwaite, LA
Plaquemines Parish
Print Date: 9/28/2012**



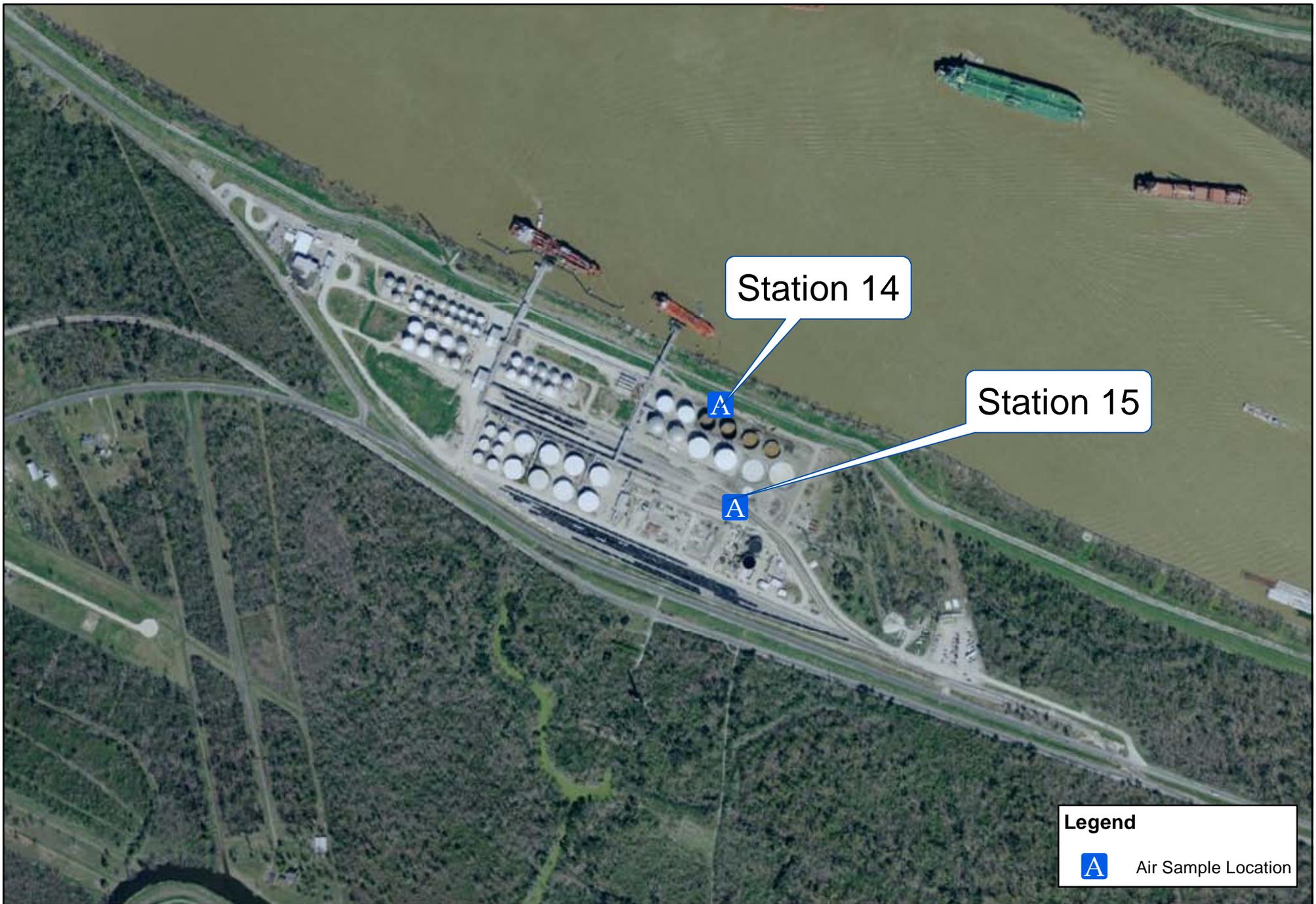
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 AreaRAE Station

Work Area
AreaRAE Station Locations
 September 21, 2012



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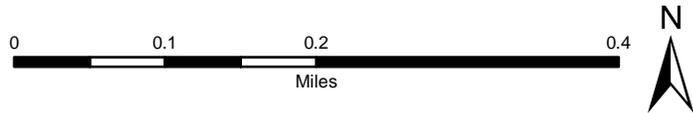
Station 14

Station 15

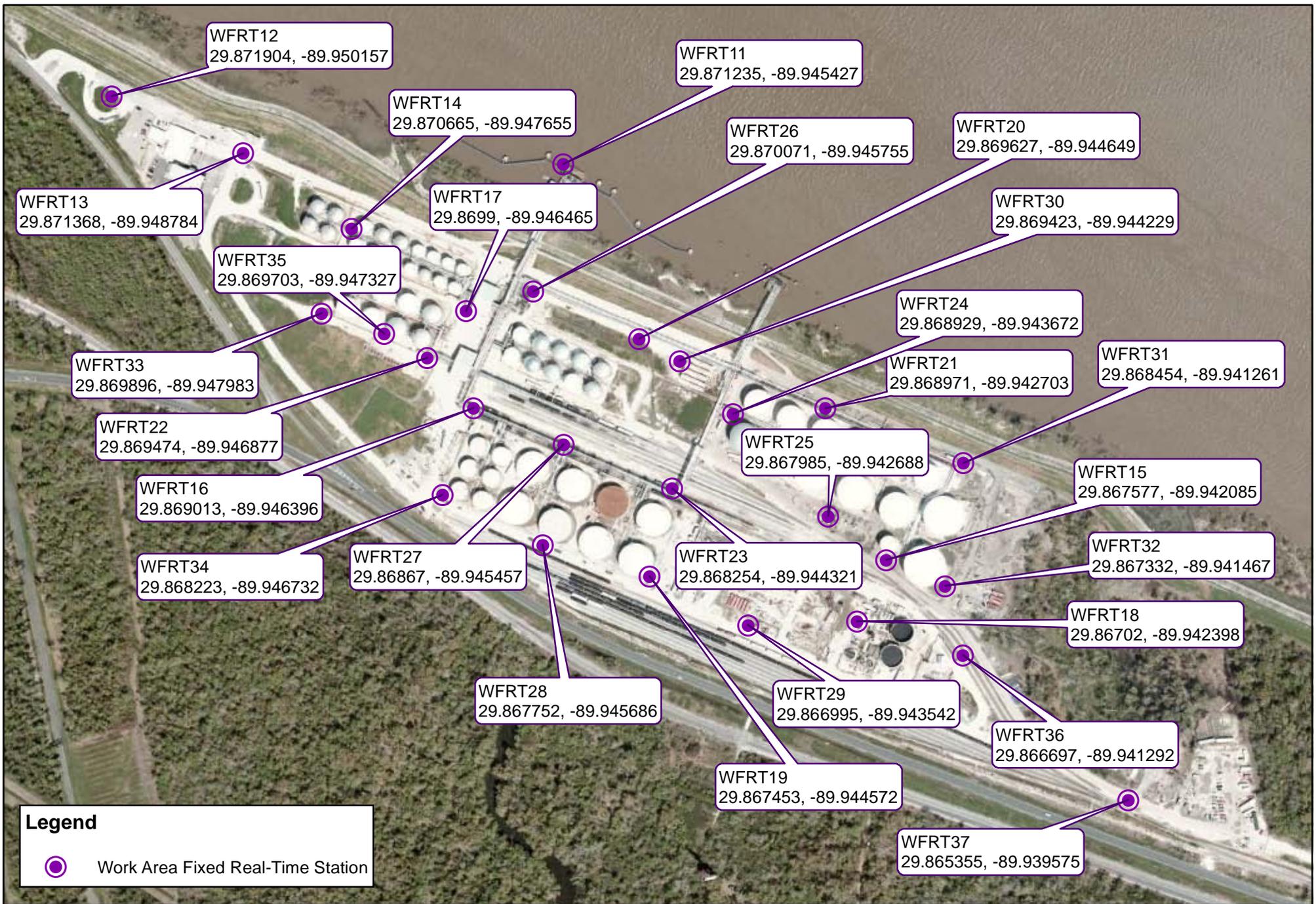
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 Air Sample Location

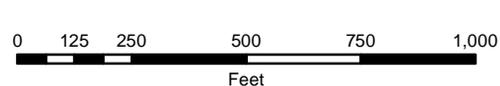
**Ambient Air
Analytical Sampling Locations**



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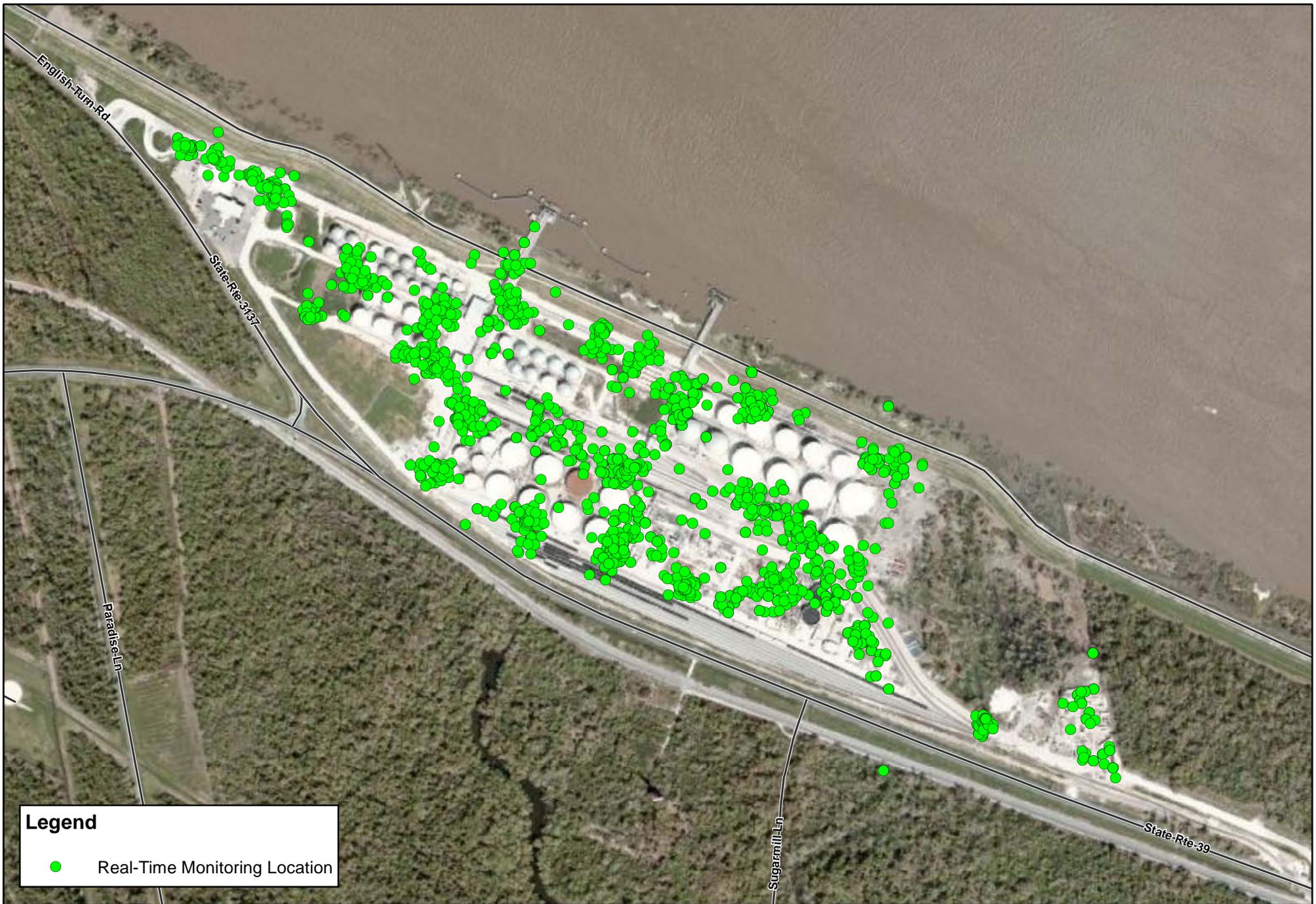


**Work Area
Fixed Real-Time Station**
September 21, 2012



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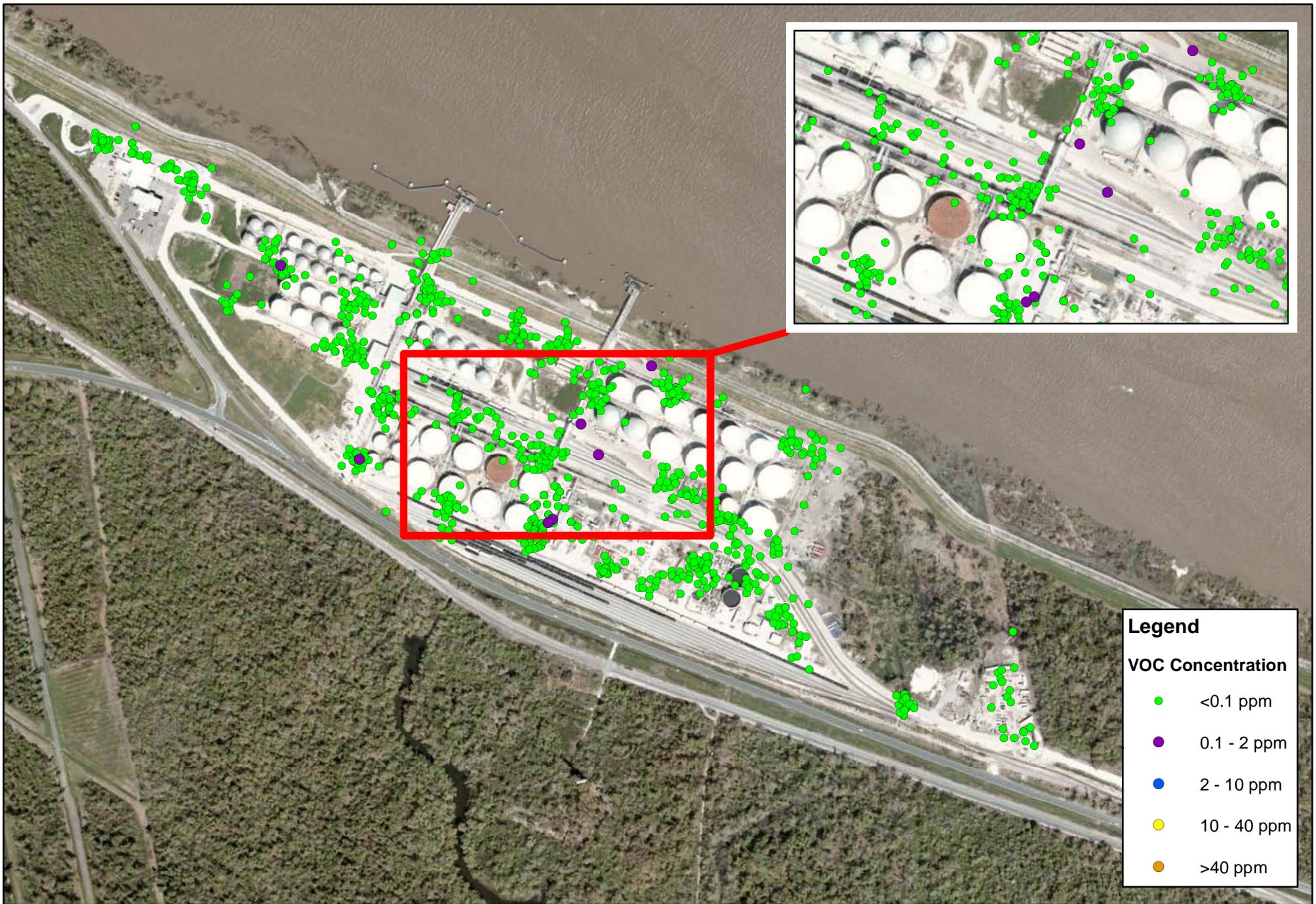
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- Real-Time Monitoring Location

Work Area
Real-Time Monitoring Locations
 9/28/2012

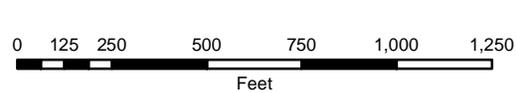


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Legend	
VOC Concentration	
●	<0.1 ppm
●	0.1 - 2 ppm
●	2 - 10 ppm
●	10 - 40 ppm
●	>40 ppm

**Manually-Logged
Work Area VOC Concentrations**
9/28/2012



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