

**40365 Braithwaite, LA
Stolthaven Terminal Facility
Onsite Summary of Air Monitoring and Sampling Results
October 7, 2012
PO# 12-H0408-MR**

This data report discusses real-time air monitoring data collected within the work area between October 6th 00:00 and October 6th 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 using hand-held instruments indicated that there were 11 onsite VOC detections on October 6th. No sustained readings in exceedence of action levels were observed on the facility while workers were present. While stationary AreaRAE results indicate detections of VOCs at 10 locations within the work area, these results are preliminary and may include drift in the instrument’s chemical sensors. AreaRAE Unit 20 reported detections of LEL; however, upon CTEH® investigation, these LEL detections were determined to be due to sensor drift. The unit was recalibrated and no further LEL detections were observed.

Real-time air monitoring for VOCs and LEL was conducted using stationary AreaRAEs and/or hand-held instruments including the MultiRAE. Table 1 and Table 2 display data summaries for hand-held instruments and AreaRAEs, respectively. Table 3 highlights analytical sample counts collected for onsite air, product quality and waste characterization. Appendix 1 shows incident site maps.

**Table 1
Hand-held Real-time Summary – October 6th 00:00 – 23:59**

| Work Area | | | | |
|------------------|---------------------------|-----------------------------|--|------------------------------|
| Analyte | Number of Readings | Number of Detections | Average Concentration of Detections | Highest Concentration |
| LEL | 695 | 0 | NA | < 1.0 % |
| Methyl Acrylate | 4 | 0 | NA | < 2.0 ppm |
| VOC | 707 | 11 | 1.3 ppm | 4.6 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 – October 6th 00:00 – 23:59**

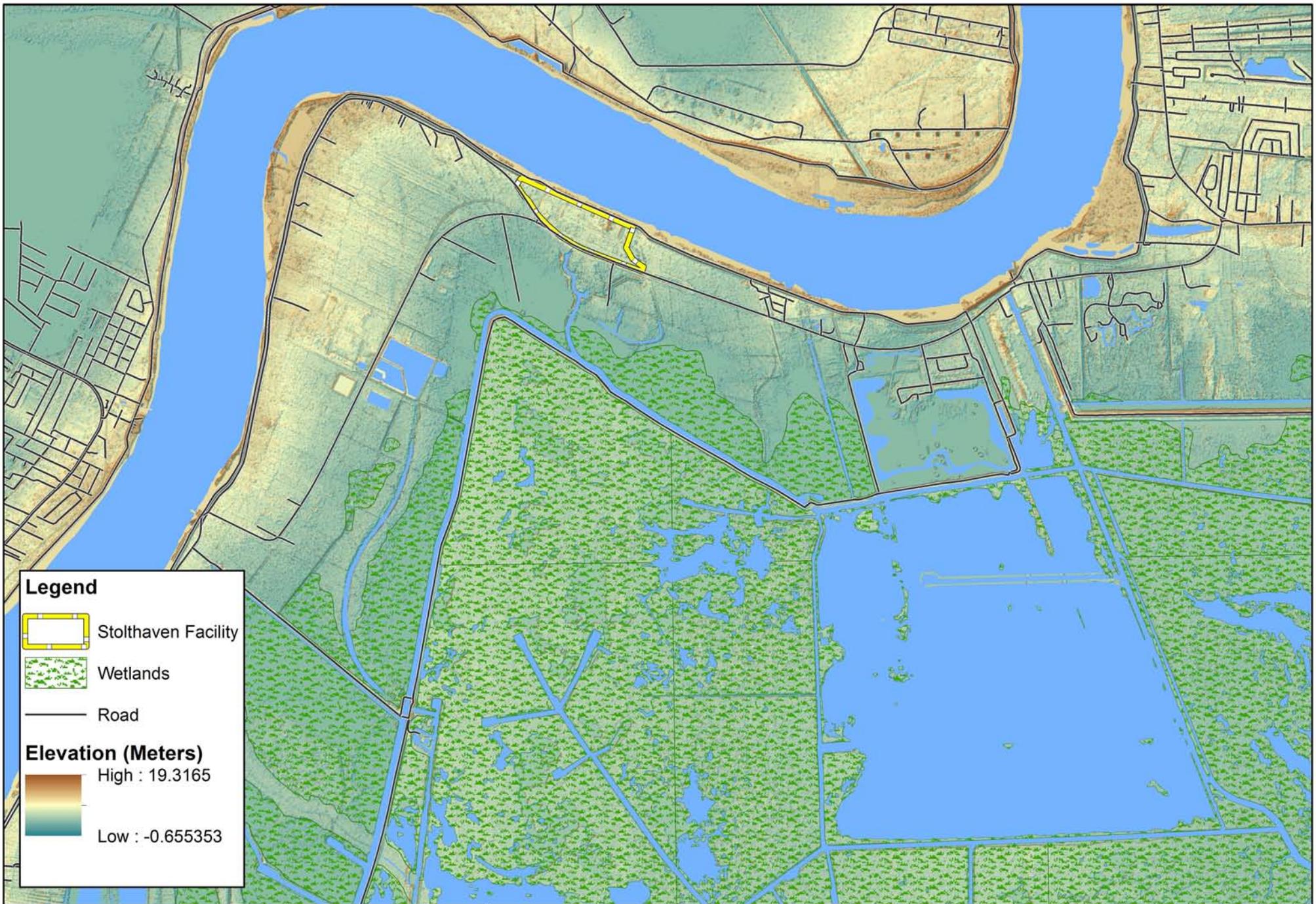
| Unit | Analyte | Number of Readings | Number Of Detections | Concentration Range |
|---------|---------|--------------------|----------------------|---------------------|
| Unit 14 | LEL | 5450 | 0 | 0 - 0 % |
| | VOC | 5450 | 542 | 0.1 - 3.9 ppm |
| Unit 15 | LEL | 5607 | 0 | 0 - 0 % |
| | VOC | 5607 | 0 | 0 - 0 ppm |
| Unit 16 | LEL | 5639 | 0 | 0 - 0 % |
| | VOC | 5639 | 1 | 0.2 - 0.2 ppm |
| Unit 17 | LEL | 5223 | 0 | 0 - 0 % |
| | VOC | 5223 | 85 | 0.3 - 2.5 ppm |
| Unit 18 | LEL | 5619 | 0 | 0 - 0 % |
| | VOC | 5619 | 0 | 0 - 0 ppm |
| Unit 19 | LEL | 5615 | 0 | 0 - 0 % |
| | VOC | 5615 | 251 | 0.1 - 1.3 ppm |
| Unit 20 | LEL | 5639 | 58 | 1.8 - 3.3 % |
| | VOC | 5639 | 109 | 0.1 - 0.4 ppm |
| Unit 21 | LEL | 5624 | 0 | 0 - 0 % |
| | VOC | 5624 | 52 | 0.1 - 0.3 ppm |
| Unit 22 | LEL | 5645 | 0 | 0 - 0 % |
| | VOC | 5645 | 149 | 0.1 - 1.6 ppm |
| Unit 23 | LEL | 5620 | 0 | 0 - 0 % |
| | VOC | 5620 | 64 | 0.1 - 0.4 ppm |
| Unit 24 | LEL | 5584 | 0 | 0 - 0 % |
| | VOC | 5584 | 32 | 0.1 - 2.2 ppm |
| Unit 25 | LEL | 5369 | 0 | 0 - 0 % |
| | VOC | 5369 | 254 | 0.1 - 5.8 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 – October 6th 00:00 – 23:59

| Matrix | Number of Samples |
|------------------------|--------------------------|
| Air | 4 |
| Product Quality | 2 |
| Waste Characterization | 1 |

Appendix 1: Incident Maps



Legend

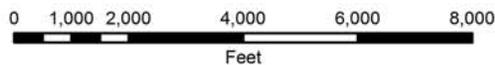
-  Stolthaven Facility
-  Wetlands
-  Road

Elevation (Meters)

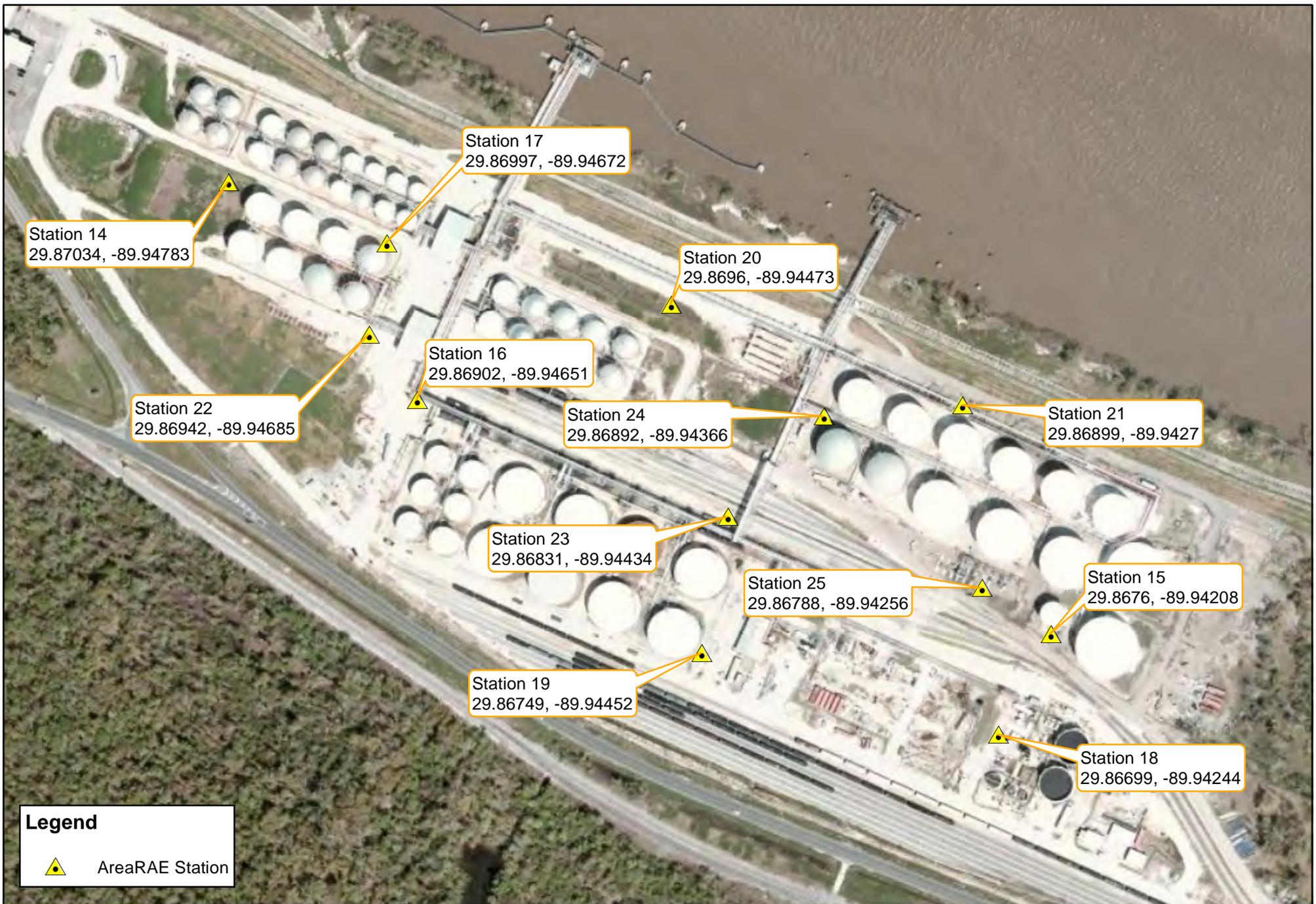
High : 19.3165

Low : -0.655353

**Stolthaven Facility
Shaded Relief of Elevation**



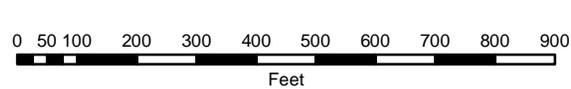
| | |
|---|---|
| CTEH <small>Project No. 40365</small> | Stolthaven Braithwaite, LA |
| | Plaquemines Parish Print Date: 10/6/2012 |



Legend

 AreaRAE Station

Work Area
AreaRAE Station Locations
 September 21, 2012



CTEH
 Project No.
40365

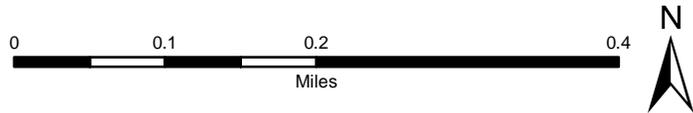
Stolthaven
Braithwaite, LA
Plaquemines Parish
Print Date: 9/26/2012



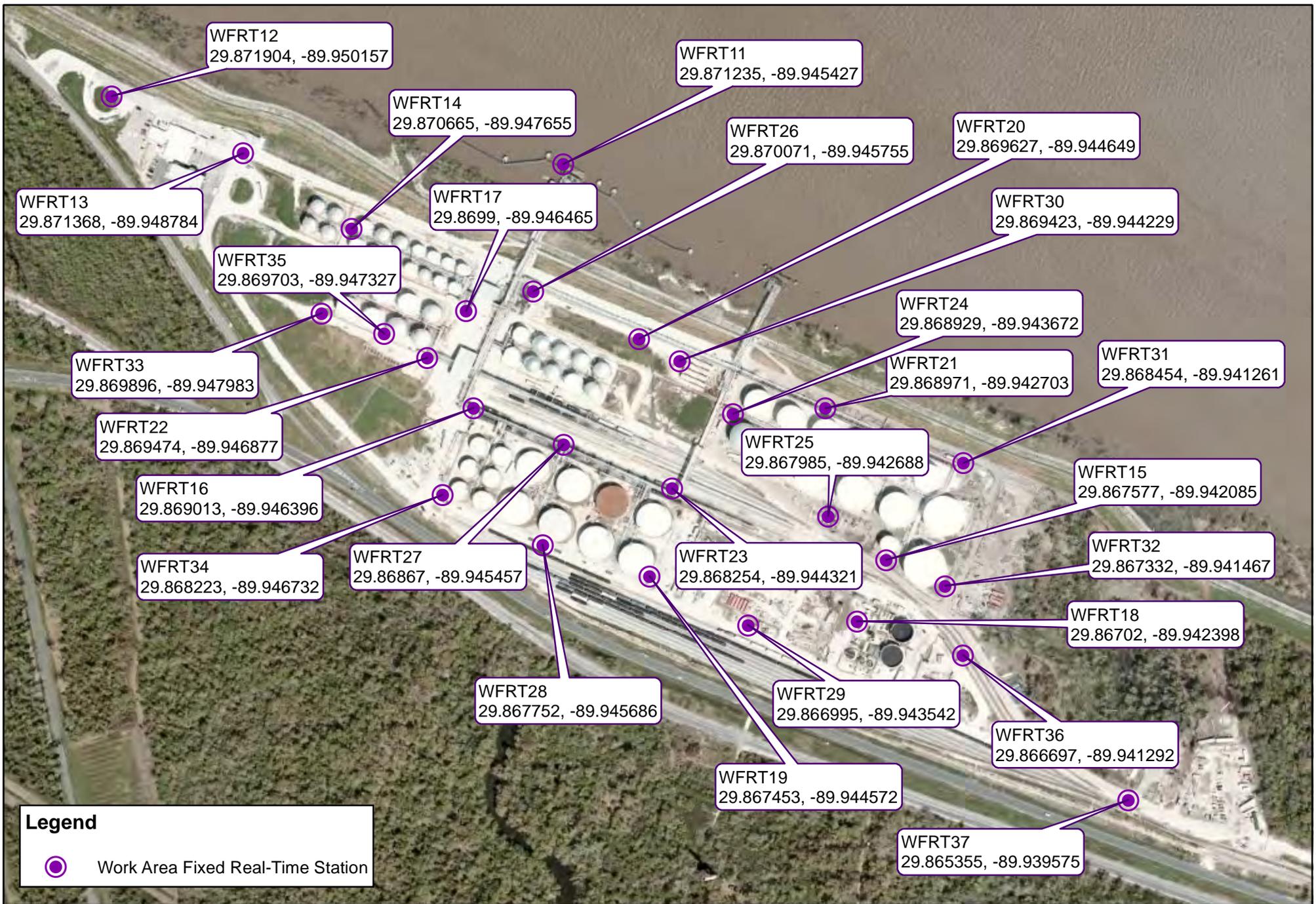
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 Air Sample Location

**Ambient Air
Analytical Sampling Locations**



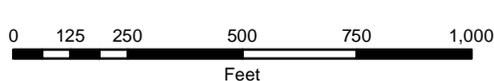
| | |
|--|------------------------------|
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| | Braithwaite, LA |
| | Plaquemines Parish |
| | Print Date: 9/28/2012 |



Legend

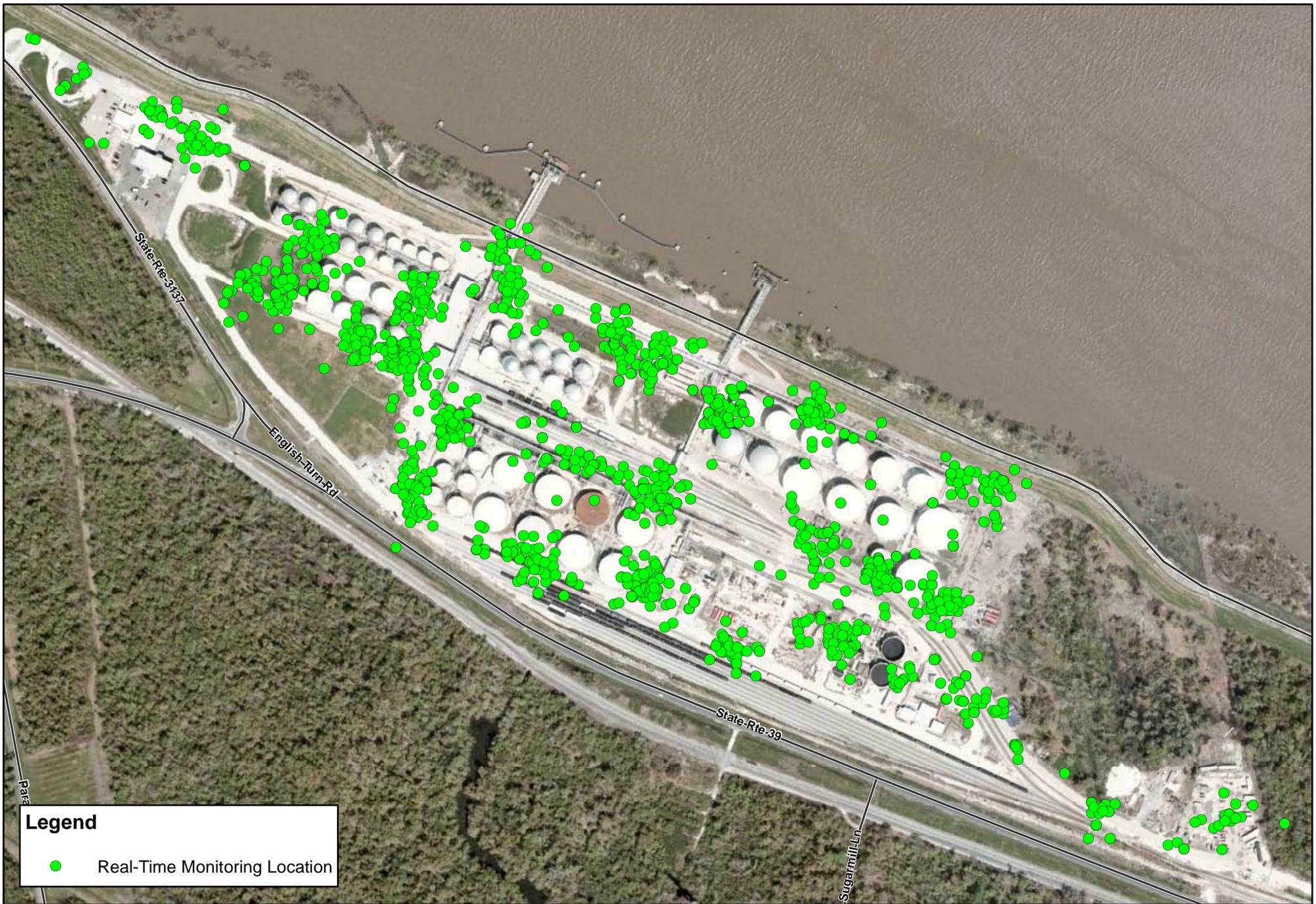
● Work Area Fixed Real-Time Station

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



CTEH
Project No.
40365

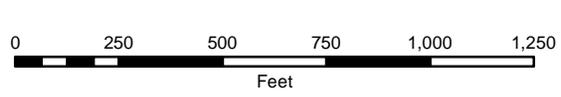
**Stolthaven
Braithwaite, LA
Plaquemines Parish
Print Date: 9/28/2012**



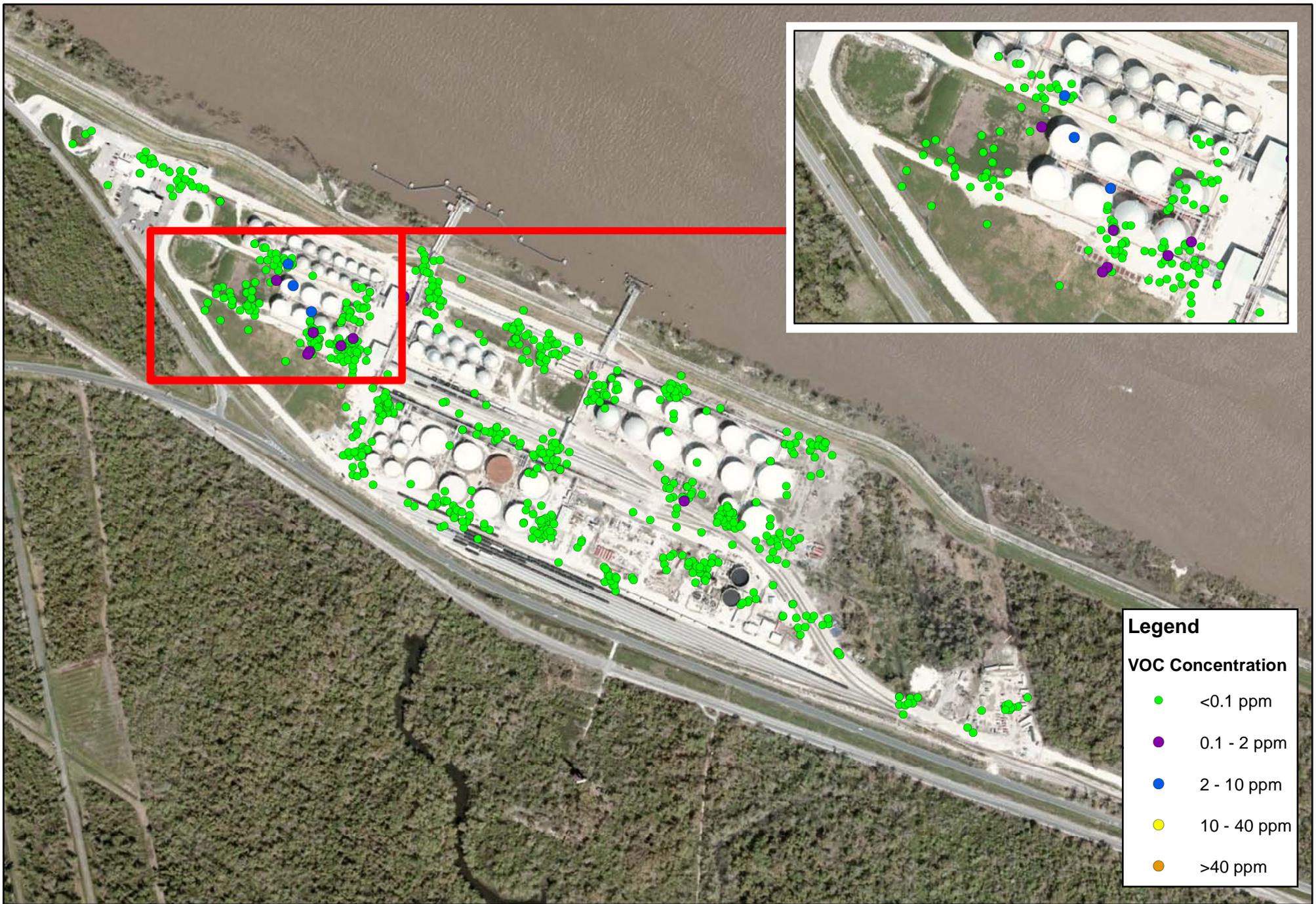
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- Real-Time Monitoring Location

Work Area
Real-Time Monitoring Locations
 10/06/2012

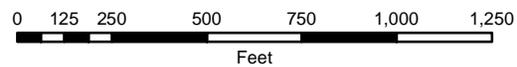


| | |
|--|---|
|  Project No. 40365 | Stolthaven Braithwaite, LA |
| | Plaquemines Parish Print Date: 10/7/2012 |



**Manually-Logged
Work Area VOC Concentrations**

10/06/2012



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**Stolthaven
Braithwaite, LA**

**Plaquemines Parish
Print Date: 10/7/2012**