

**40355 Braithwaite, LA
Stolthaven Terminal Facility
Summary of Real-time Air Monitoring Results
September 04, 2012**

This data report discusses real-time air monitoring data collected between September 3rd 06:00 and September 4th 06:00 in support of mitigation and remediation operations conducted near Stolthaven's facility near Braithwaite, LA. No action level exceedances were observed.

Real-time air monitoring for VOCs, LEL, Formic Acid, and Methyl Acrylate was conducted using stationary AreaRAEs and hand-held instruments such as the MultiRAE, and colorimetric detector tubes. Tables 1 and 2 display data summaries for AreaRAE and handheld data respectively. Appendix 1 shows incident site maps.

**Table 1
AreaRAE Summary – September 3rd 06:00 to September 4th 06:00**

| Unit | Analyte | Number of Readings | Number Of Detections | Concentration Range |
|--------|---------|--------------------|----------------------|---------------------|
| Unit 1 | LEL | 5679 | 0 | 0 – 0 % |
| | VOC | 5679 | 0 | 0 - 0 ppm |
| Unit 2 | LEL | 5638 | 0 | 0 – 0 % |
| | VOC | 5638 | 3 | 0.1 – 1.1 ppm |
| Unit 3 | LEL | 1026 | 0 | 0 – 0 % |
| | VOC | 1026 | 5 | 0.4– 0.4 ppm |
| Unit 4 | LEL | 4964 | 0 | 0 – 0 % |
| | VOC | 4964 | 5 | 35.5 – 45.9 ppm |
| Unit 5 | LEL | 3326 | 0 | 0 – 0 % |
| | VOC | 3326 | 18 | 0.1 – 0.3 ppm |
| Unit 6 | LEL | 5665 | 0 | 0 – 0 % |
| | VOC | 5665 | 0 | 0 - 0 ppm |
| Unit 7 | LEL | 4536 | 0 | 0 – 0 % |
| | VOC | 4536 | 346 | 0.1 – 2.6 ppm |
| Unit 8 | LEL | 5482 | 0 | 0 – 0 % |
| | VOC | 5482 | 0 | 0 - 0 ppm |

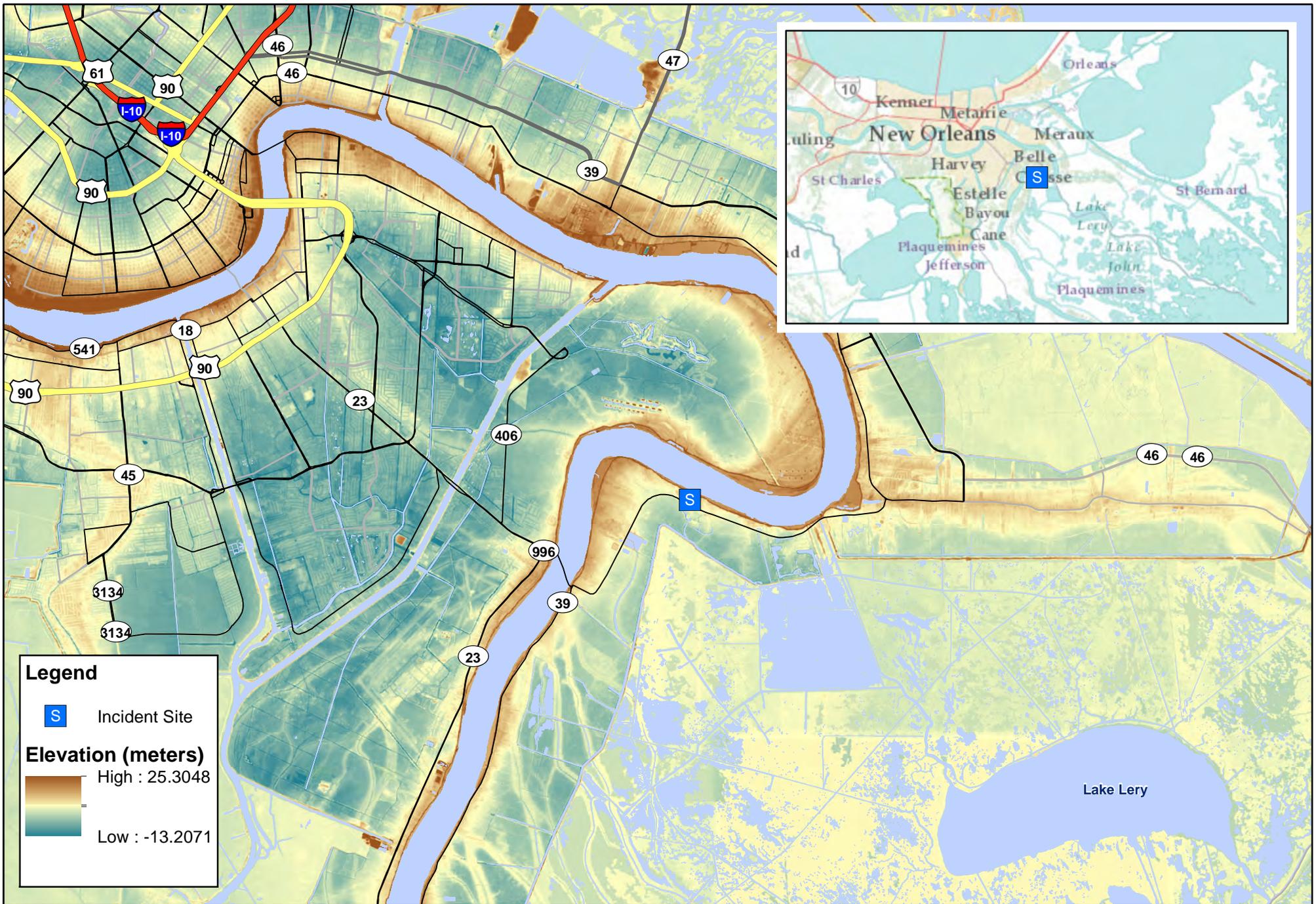
***Detections may include drift events** - Drift is defined as any interference in the electrochemical sensor's ability to accurately report the concentration of a chemical in the atmosphere. Humidity and temperature changes throughout the monitoring period are typical sources of drift.

**Table 2
Hand-held Real-time Summary – September 3rd 06:00 – September 4th 06:00**

| Work Area | | | | |
|------------------|---------------------------|-----------------------------|--|------------------------------|
| Analyte | Number of Readings | Number of Detections | Average Concentration of Detections | Highest Concentration |
| Amines | 1 | 0 | NA | < 0.5 ppm |
| Formic Acid | 3 | 0 | NA | < 5.2 ppm |
| LEL | 209 | 0 | NA | < 1 % |
| Methyl Acrylate | 3 | 0 | NA | < 5 ppm |
| VOC | 216 | 0 | 0.4 ppm | 0.4 ppm |
| Styrene | 1 | 0 | NA | < 10 ppm |
| Community | | | | |
| LEL | 45 | 0 | NA | < 1 % |
| VOC | 69 | 1 | NA | 0.1 ppm |

NA = not applicable

Appendix 1: Incident Maps



Legend

S Incident Site

Elevation (meters)

High : 25.3048

Low : -13.2071

**Stolthaven Facility
Location**

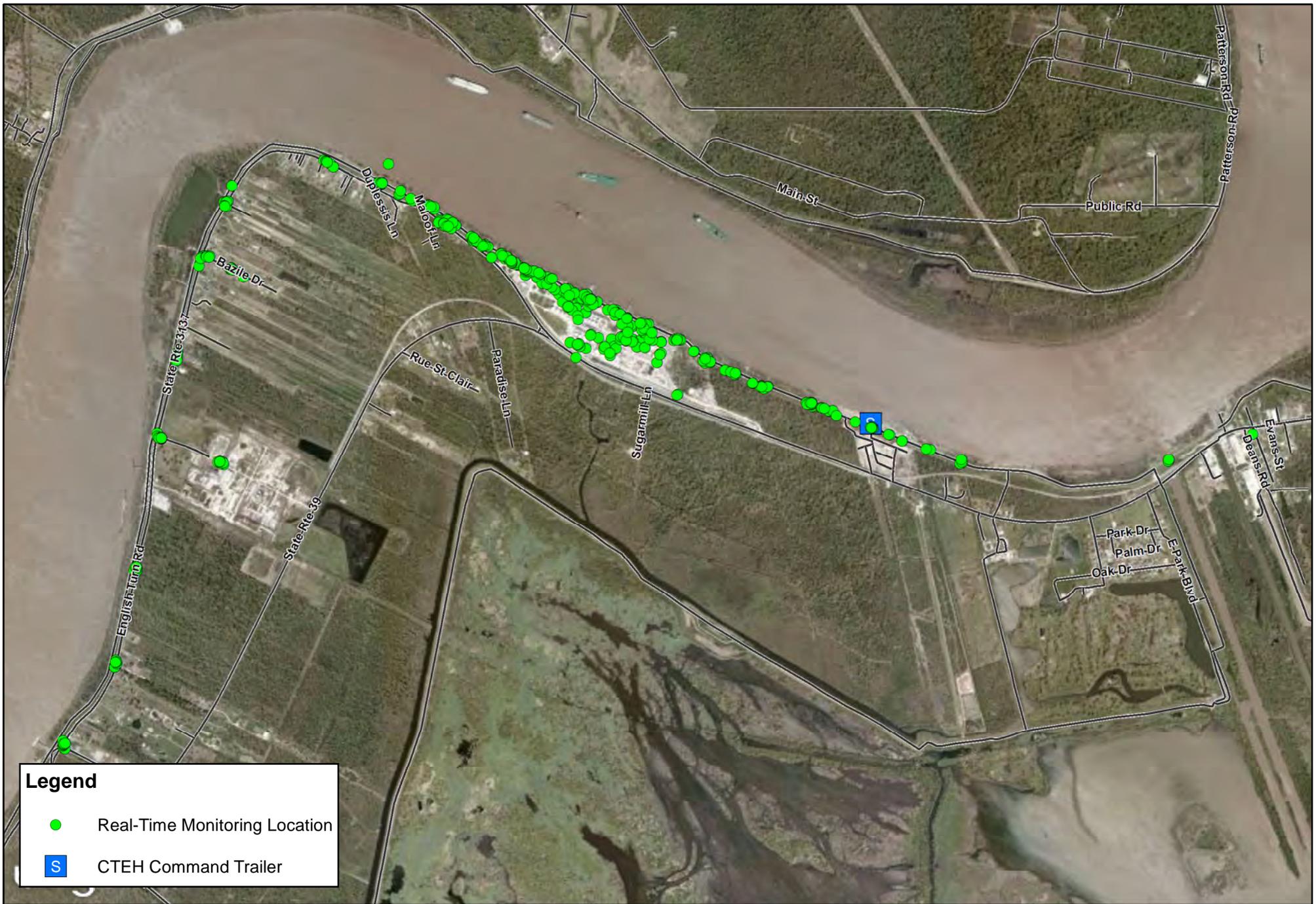


CTEH[®]

Project No.
40355

Garner Environmental
Braithwaite, LA

St. Bernard Parish
Print Date: 9/2/2012



Legend

- Real-Time Monitoring Location
- S CTEH Command Trailer

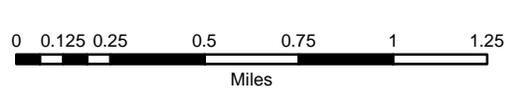
Real-Time Monitoring Locations
 9/3/12 06:00 to 9/4/12 06:00



| | |
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**Manually-Logged
VOC Concentrations
9/3/12 06:00 to 9/4/12 06:00**



| | |
|-----------------------------|-----------------------------|
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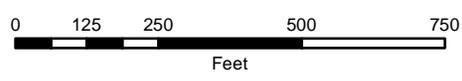


Legend

Methyl Acrylate Reading Location

- Detection
- No Detection

**Methyl Acrylate
Reading Locations**
9/03/12 06:00 to 9/04/12 06:00



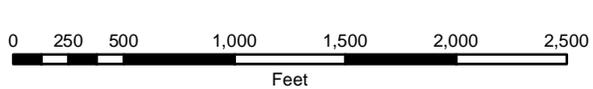
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Legend

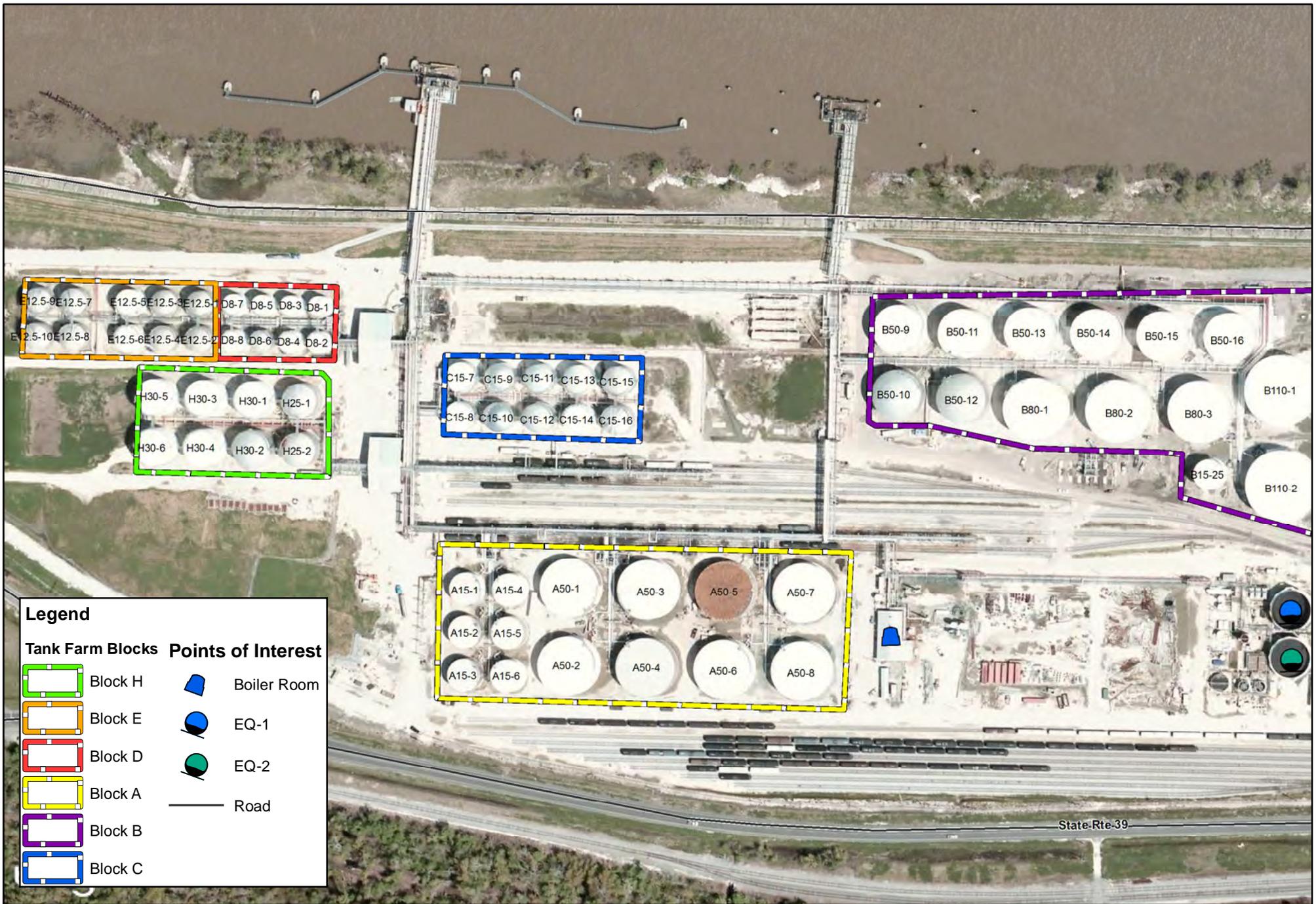
- S CTEH Command Trailer
- ▲ AreaRAE Station

AreaRAE Station Locations
September 03, 2012



| | |
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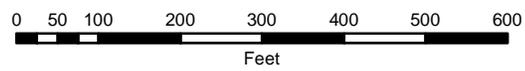




Legend

| Tank Farm Blocks | Points of Interest |
|------------------|--------------------|
| Block H | Boiler Room |
| Block E | EQ-1 |
| Block D | EQ-2 |
| Block A | Road |
| Block B | |
| Block C | |

Stolthaven Terminal



| | |
|-----------------------------|----------------------|
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