CTEH CENTER FOR TOXICOLOGY AND ENVIRONMENTAL HEALTH, LLC

40355 Braithwaite, LA
Stolthaven Terminal Facility
Summary of Real-time Air Monitoring Results
September 05, 2012

This data report discusses real-time air monitoring data collected between September 4th 06:00 and September 5th 06:00 in support of mitigation and remediation operations conducted near Stolthaven's facility near Braithwaite, LA. No action level exeedances were observed.

Real-time air monitoring for VOCs, LEL, 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 4th 06:00 to September 5th 06:00

Unit	Analyte	Number of Readings	Number Of Detections	Concentration Range
Unit 1	LEL	5127	0	0 – 0 %
	VOC	5127	4	0.6 – 0.6 ppm
Unit 2	LEL	5536	0	0 – 0 %
	VOC	5536	1	0.1 – 0.1 ppm
Unit 3	LEL	5605	0	0 – 0 %
	VOC	5605	1	0.1 – 0.1 ppm
Unit 4	LEL	5683	0	0 – 0 %
	VOC	5683	84	0.1 – 0.3 ppm
Unit 5	LEL	5621	0	0 – 0 %
	VOC	5621	16	0.3 – 0.6 ppm
Unit 6	LEL	5371	0	0 – 0 %
	VOC	5371	0	0 - 0 ppm
Unit 7	LEL	5667	0	0 – 0 %
	VOC	5667	431	0.1-2.2 ppm
Unit 8	LEL	5681	0	0 – 0 %
	VOC	5681	0	0 - 0 ppm
Unit 9	LEL	3101	0	0 – 0 %
	VOC	3101	254	0.1 – 2.4 ppm

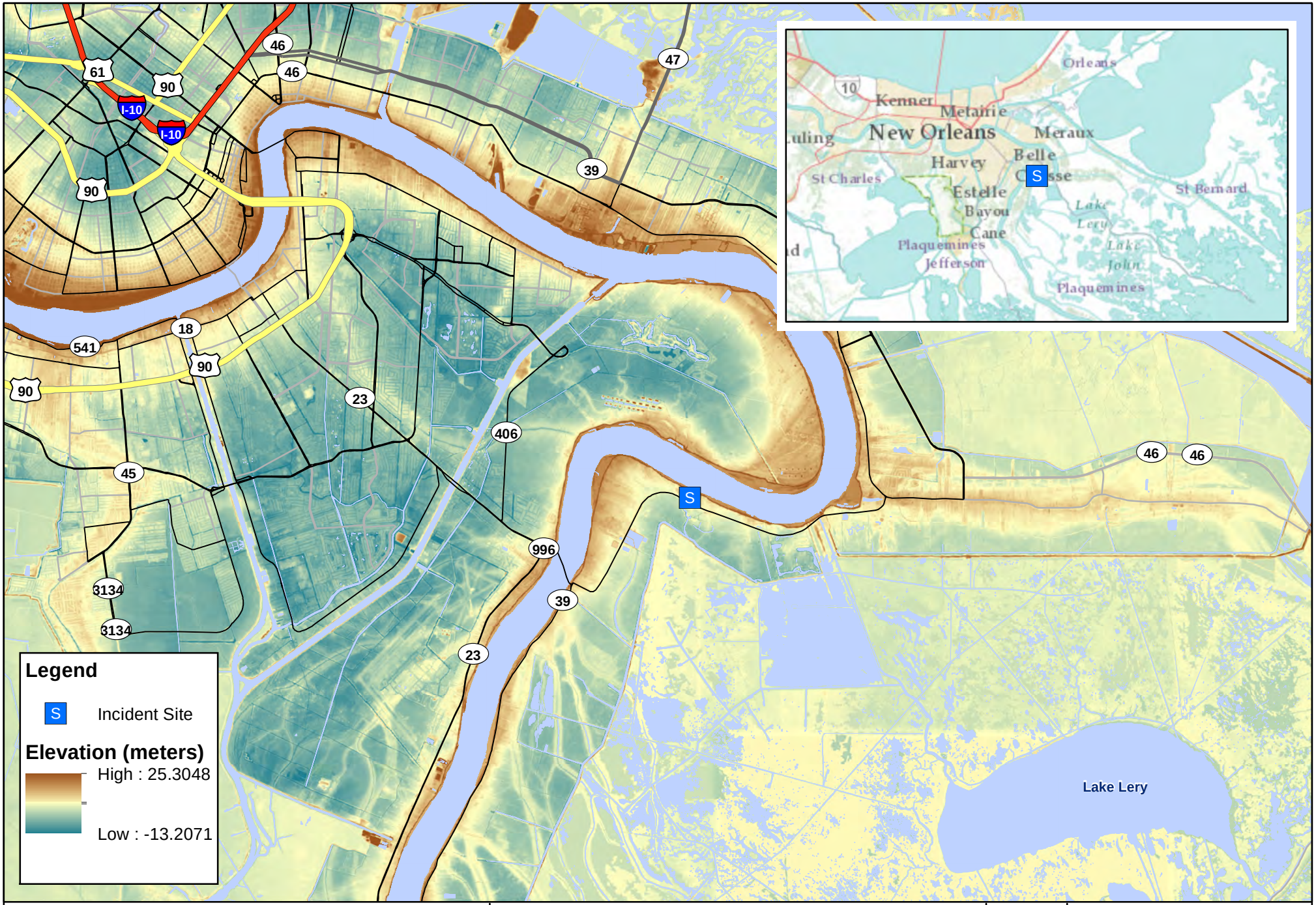
***Detections may include drift events -** Drift is defined as any interference in the electrochemical sensor's ability to accurately report the concentration of a chemical in the atmosphere. Humidity and temperature changes throughout the monitoring period are typical sources of drift.

Table 2
Hand-held Real-time Summary – September 4th 06:00 – September 5th 06:00

Community				
Analyte	**Number of Readings**	**Number of Detections**	**Average Concentration of Detections**	**Highest Concentration**
LEL	75	0	NA	< 1 %
VOC	127	0	NA	< 0.1 ppm
Hot Zone				
Analyte	**Number of Readings**	**Number of Detections**	**Average Concentration of Detections**	**Highest Concentration**
VOC	9	0	NA	< 0.1 ppm
Work Area				
Analyte	**Number of Readings**	**Number of Detections**	**Average Concentration of Detections**	**Highest Concentration**
LEL	166	0	NA	< 1 %
Methyl Acrylate	2	0	NA	< 5 ppm
VOC	215	1	8.2 ppm	8.2 ppm

NA = not applicable

Appendix 1: Incident Maps



Stolthaven Facility Location

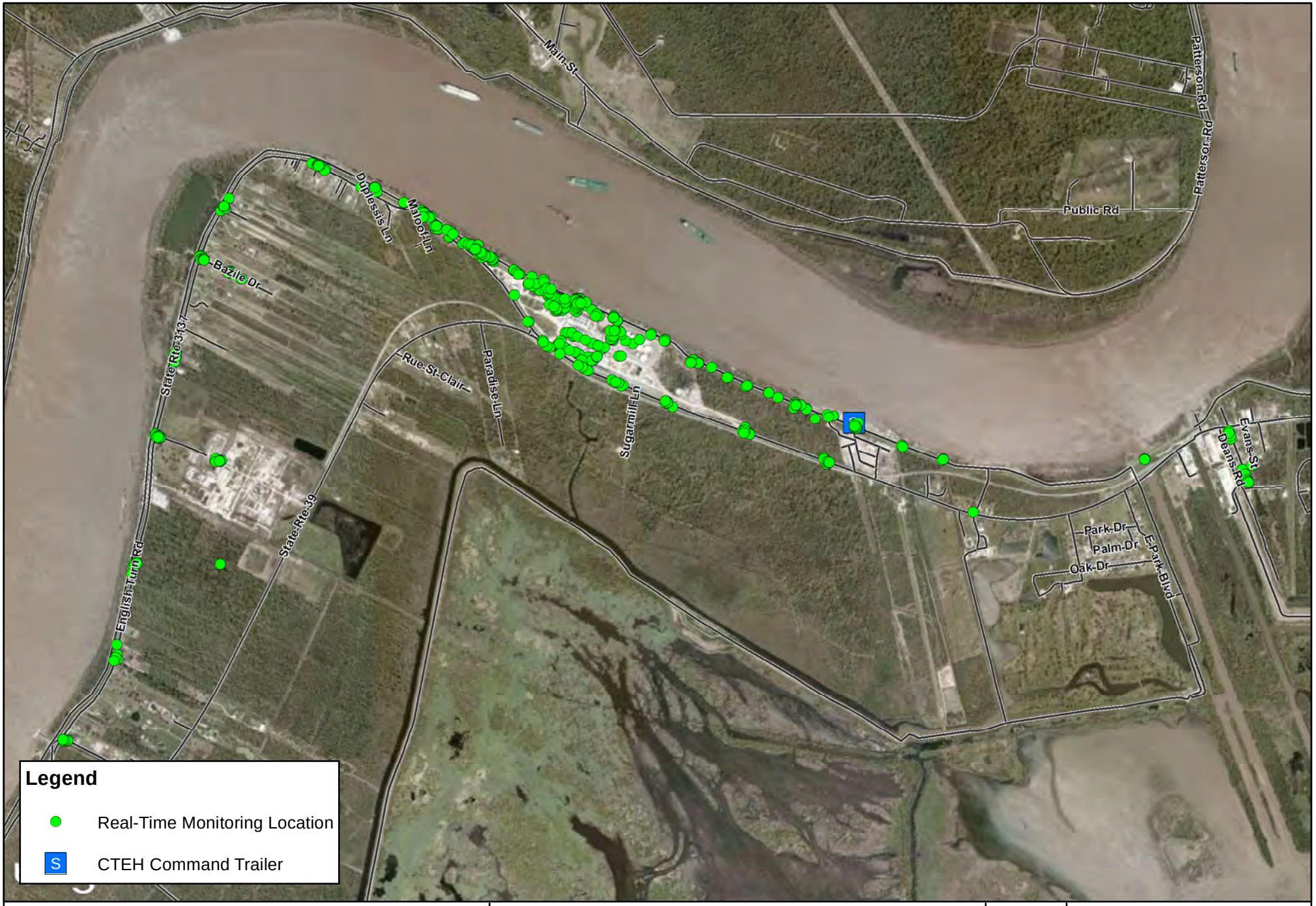
0 1 2 4 6
Miles

N

CTEH®

Project No.
40355

Garner Environmental
Braithwaite, LA
St. Bernard Parish
Print Date: 9/2/2012



Real-Time Monitoring Locations

9/4/12 06:00 to 9/5/12 06:00

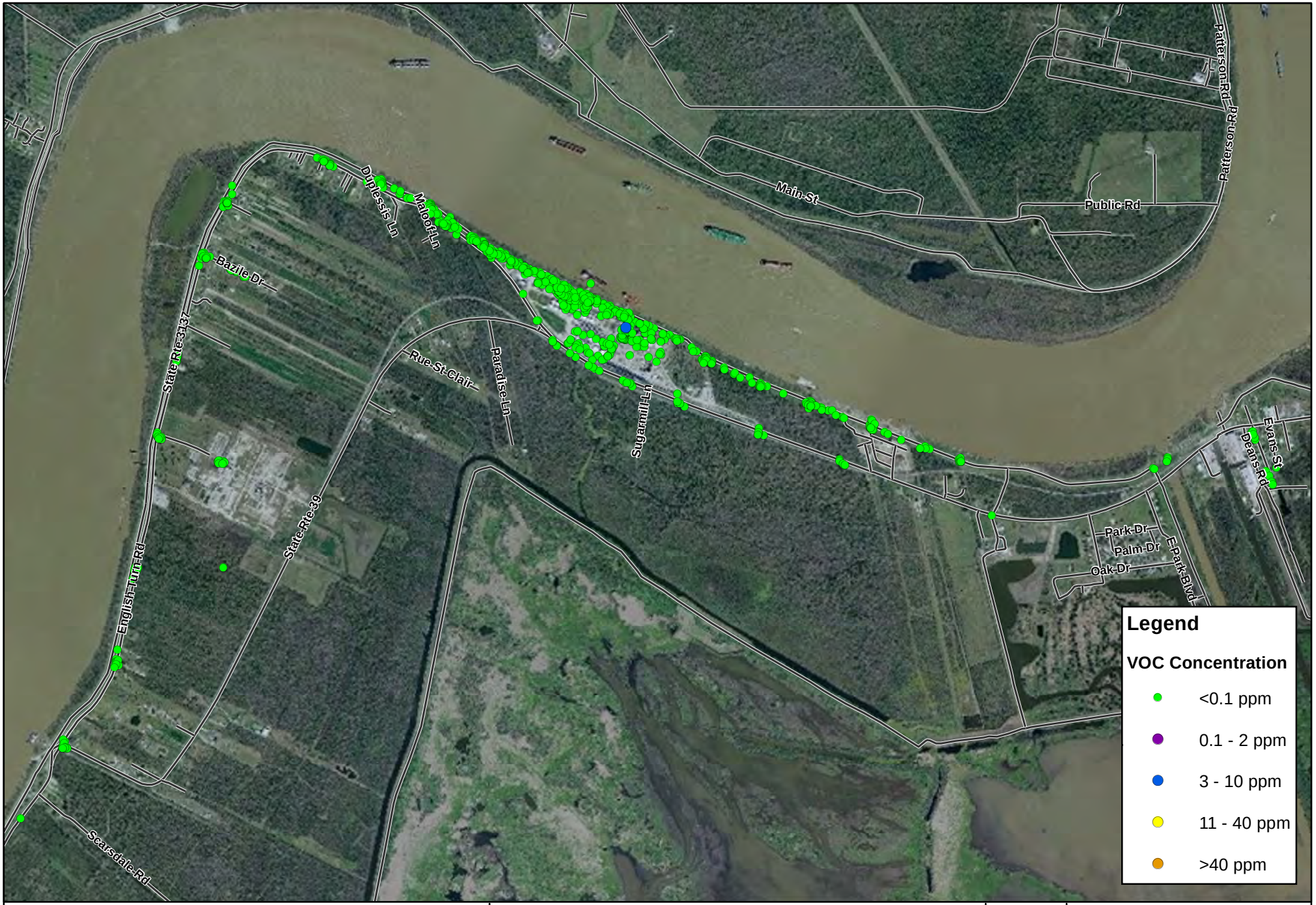
0 0.125 0.25 0.5 0.75 1 1.25
Miles

N

CTEH®

Project No.
40355

Garner Environmental
Braithwaite, LA
St. Bernard Parish
Print Date: 9/5/2012



Manually-Logged VOC Concentrations 9/4/12 06:00 to 9/5/12 06:00

0 0.125 0.25 0.5 0.75 1 1.25
Miles

N

CTEH®

Project No. 40355

Garner Environmental
Braithwaite, LA
St. Bernard Parish
Print Date: 9/5/2012

Methyl Acrylate Reading Locations

9/04/12 06:00 to 9/05/12 06:00

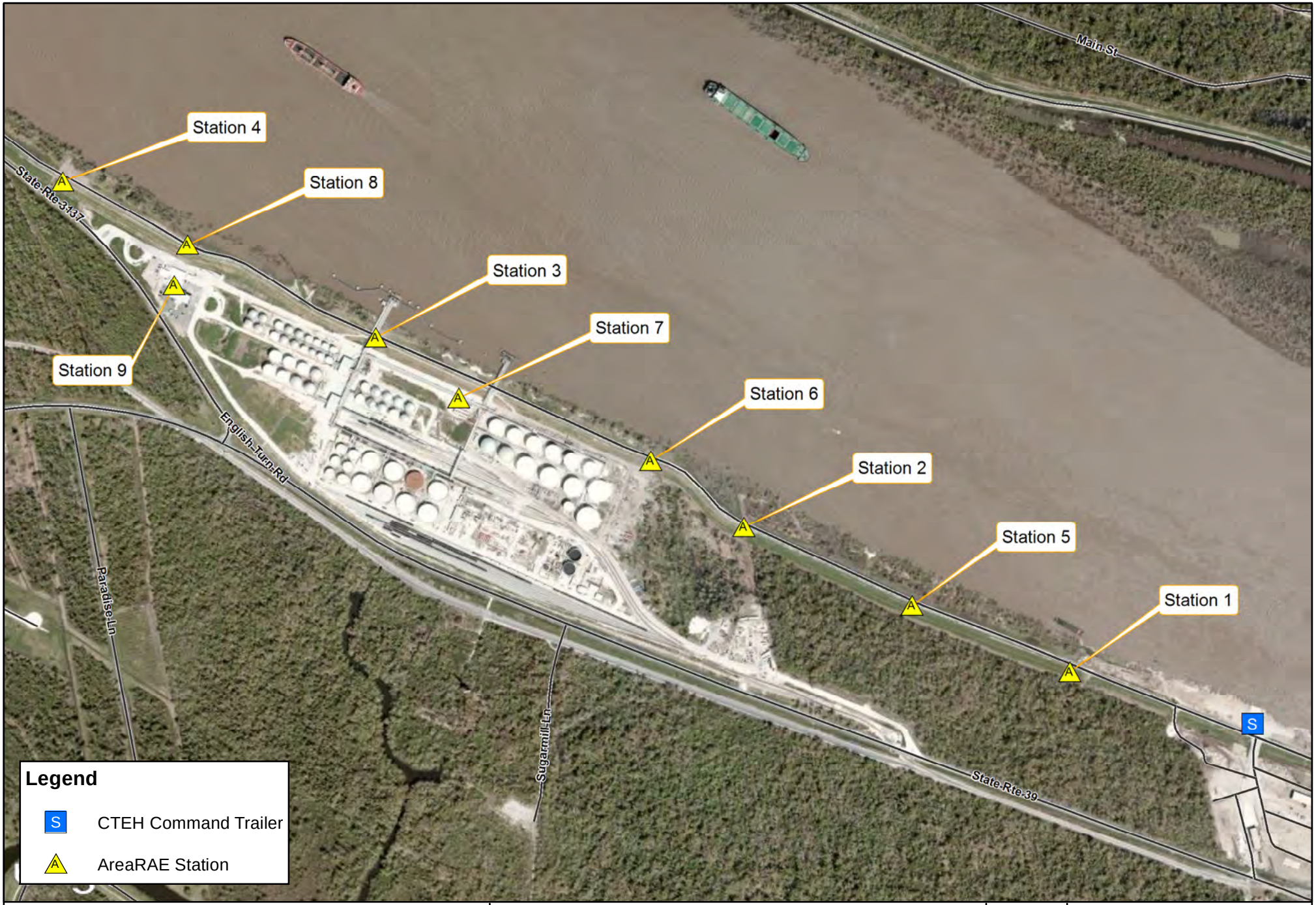
0 125 250 500 750
Feet

N

CTEH®

Project No.
40355

Garner Environmental
Braithwaite, LA
St. Bernard Parish
Print Date: 9/5/2012



AreaRAE Station Locations

September 05, 2012

0 250 500 1,000 1,500 2,000 2,500

Feet

N

CTEH®

Project No.

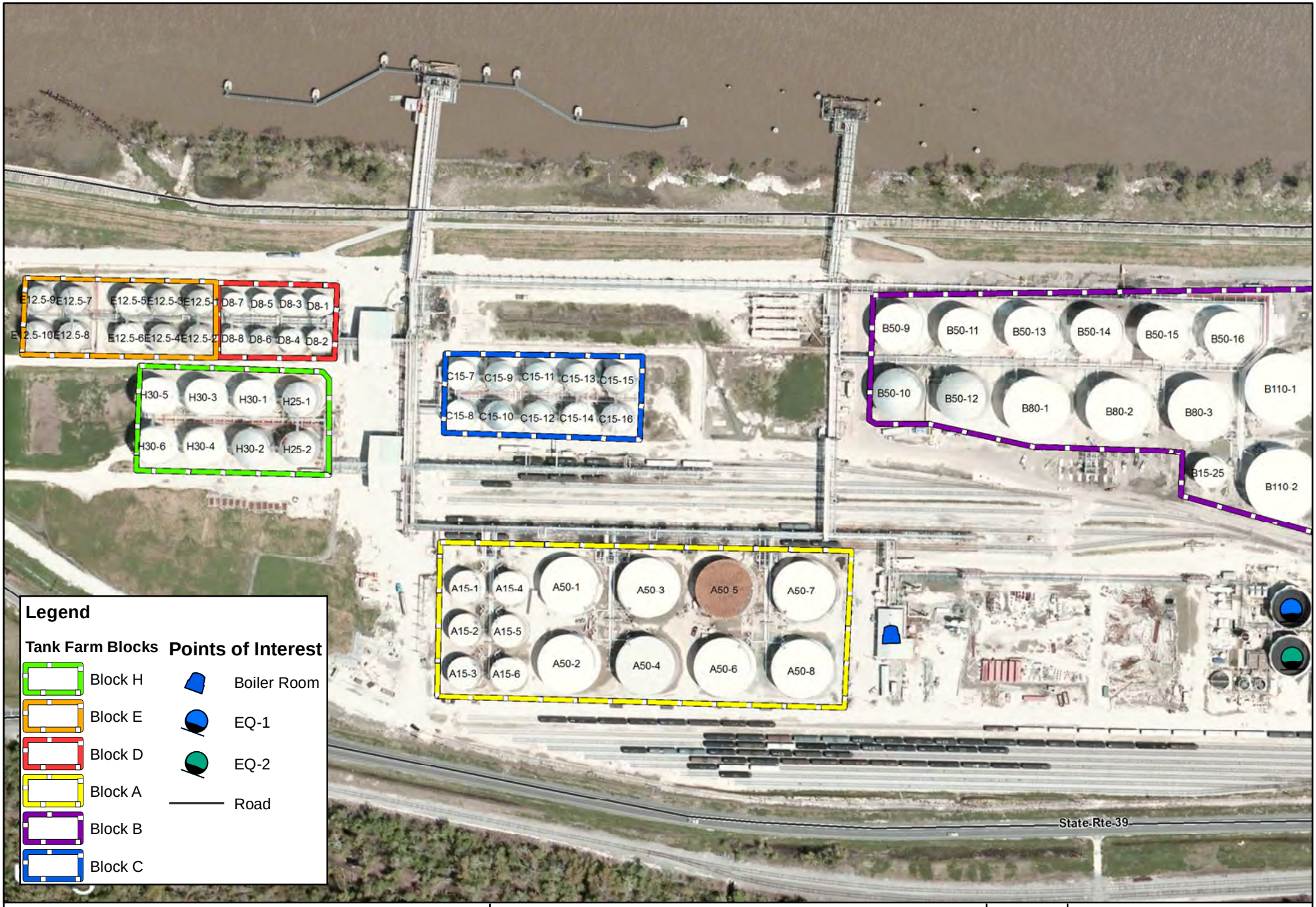
40355

Garner Environmental

Braithwaite, LA

St. Bernard Parish

Print Date: 9/5/2012



Stolthaven Terminal

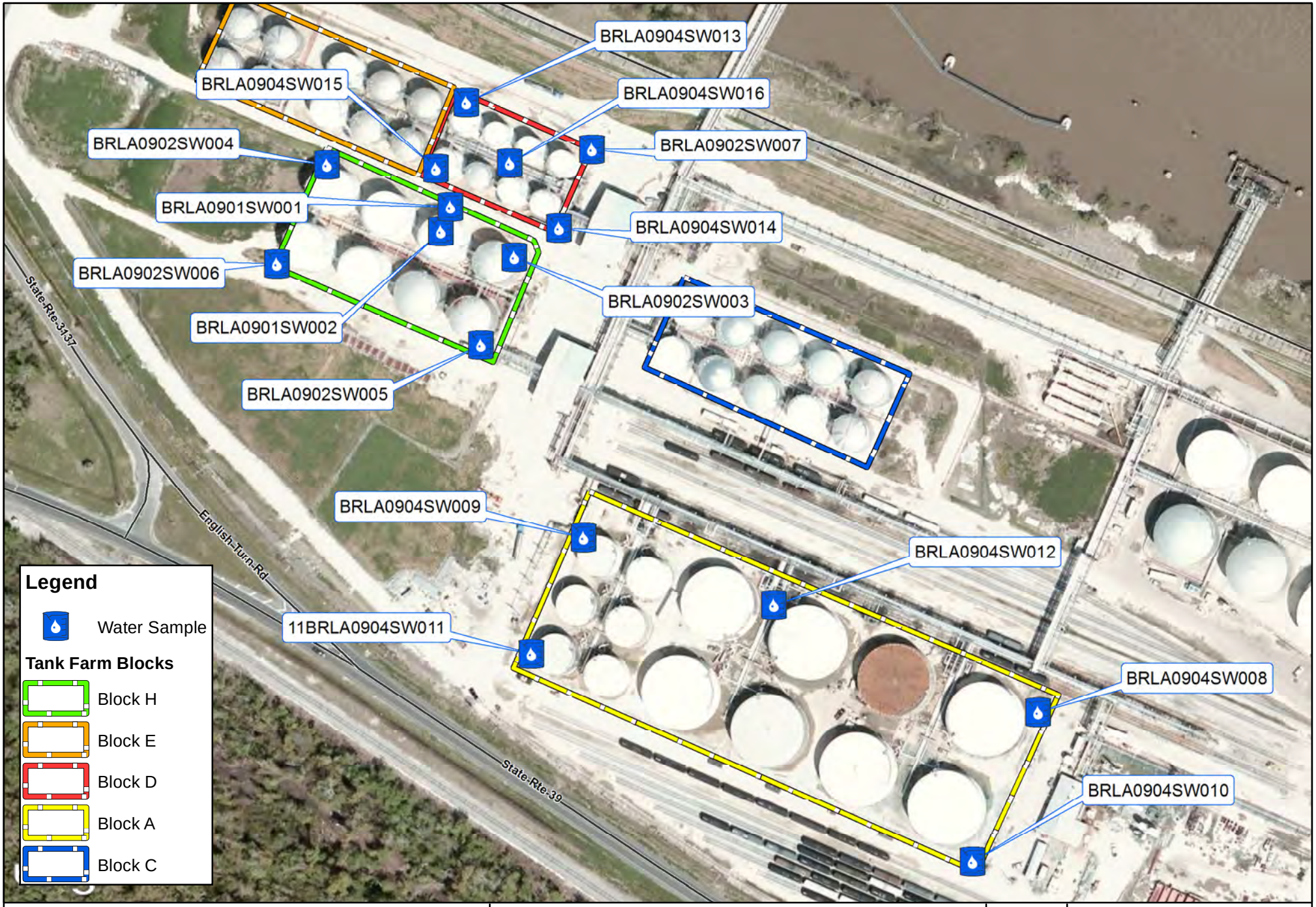
0 50 100 200 300 400 500 600
Feet

N

CTEH®

Project No.
40355

Garner Environmental
Braithwaite, LA
St. Bernard Parish
Print Date: 9/3/2012



Water Sampling Locations

0 50 100 200 300 400 500
Feet

N

CTEH®

Project No.
40355

Garner Environmental
Braithwaite, LA
St. Bernard Parish
Print Date: 9/5/2012