40365 Braithwaite, LA
Stolthaven Terminal Facility
Onsite Summary of Air Monitoring and Sampling Results
October 6, 2012
PO# 12-H0408-MR

This data report discusses real-time air monitoring data collected within the work area between October 5th 00:00 and October 5th 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 indicated that there was one onsite VOC detection on October 5th. 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 11 locations within the work area, these results are preliminary and may include drift in the instrument's chemical sensors. AreaRAE Unit 14 reported a peak VOC reading of 33.3 ppm; investigation of this unit confirmed the presence of sensor drift. A single AreaRAE unit reported detections of LEL (Unit 20); 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 5th 00:00 – 23:59

Work Area				
Analyte	**Number of Readings**	**Number of Detections**	**Average Concentration of Detections**	**Highest Concentration**
Formic Acid	1	0	NA	< 0.52 ppm
LEL	853	0	NA	< 1.0 %
Methyl Acrylate	1	0	NA	< 2.0 ppm
VOC	849	1	0.2 ppm	0.2 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 5th 00:00 – 23:59

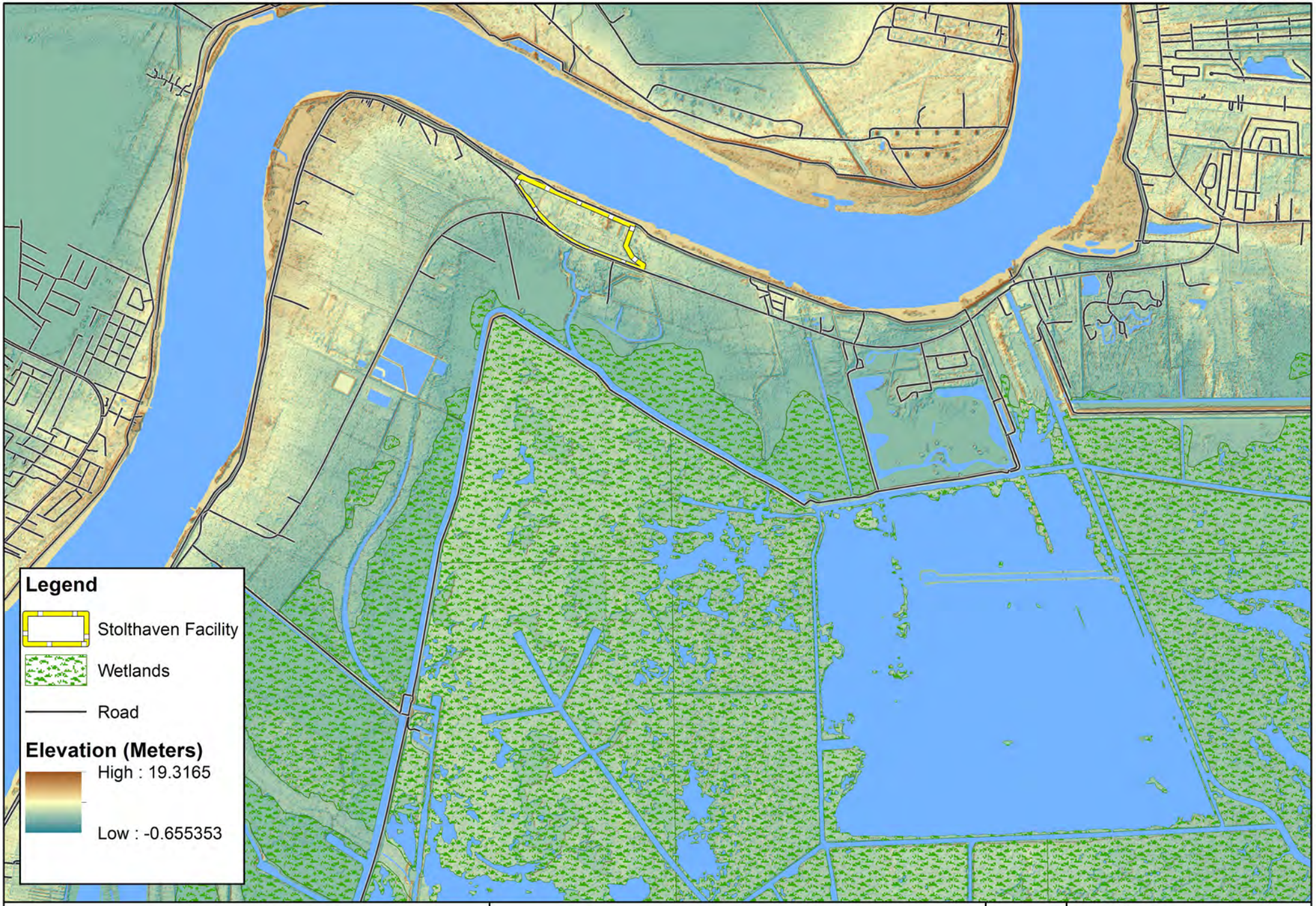
Unit	Analyte	Number of Readings	Number Of Detections	Concentration Range
Unit 14	LEL	3820	0	0 - 0 %
	VOC	3820	176	0.1 - 33.3 ppm
Unit 15	LEL	5637	0	0 - 0 %
	VOC	5637	0	0 - 0 ppm
Unit 16	LEL	5654	0	0 - 0 %
	VOC	5654	3	0.1 - 0.6 ppm
Unit 17	LEL	5624	0	0 - 0 %
	VOC	5624	23	0.1 - 0.2 ppm
Unit 18	LEL	5682	0	0 - 0 %
	VOC	5682	1	0.3 - 0.3 ppm
Unit 19	LEL	5665	0	0 - 0 %
	VOC	5665	23	0.1 - 0.3 ppm
Unit 20	LEL	5652	51	2.1 - 3.1 %
	VOC	5652	27	0.1 - 3.6 ppm
Unit 21	LEL	5471	0	0 - 0 %
	VOC	5471	77	0.1 - 1 ppm
Unit 22	LEL	5636	0	0 - 0 %
	VOC	5636	45	0.1 - 1 ppm
Unit 23	LEL	5501	0	0 - 0 %
	VOC	5501	73	0.1 - 0.6 ppm
Unit 24	LEL	5410	0	0 - 0 %
	VOC	5410	70	0.1 - 10.6 ppm
Unit 25	LEL	5598	0	0 - 0 %
	VOC	5598	71	0.1 - 2.4 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 5th 00:00 – 23:59

Matrix	Number of Samples
Air	4
Product Quality	3
Waste Characterization	3

Appendix 1:
Incident Maps



Stolthaven Facility
Shaded Relief of Elevation

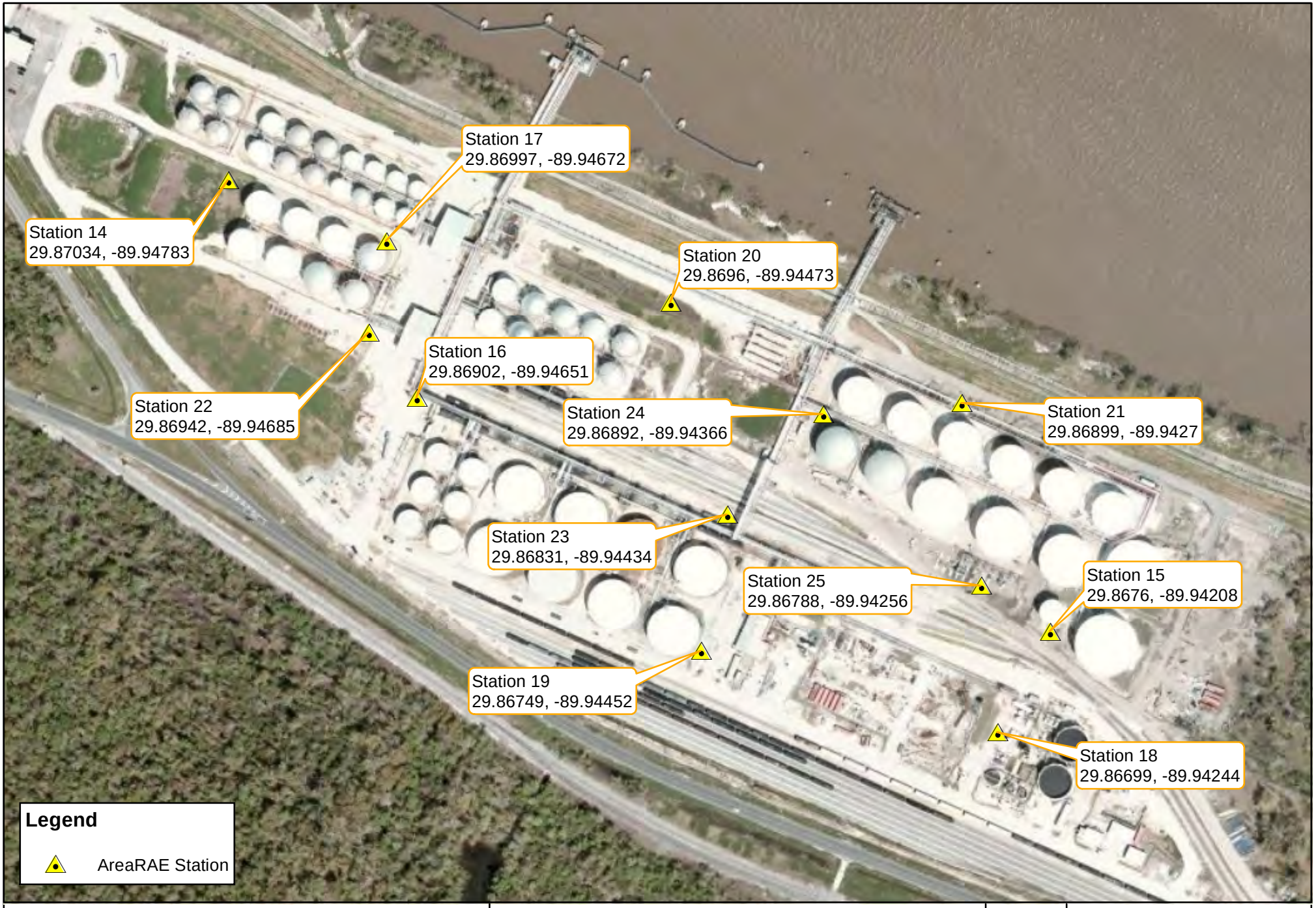
0 1,000 2,000 4,000 6,000 8,000
Feet

N

CTEH®

Project No.
40365

Stolthaven
Braithwaite, LA
Plaquemines Parish
Print Date: 10/6/2012



Work Area
AreaRAE Station Locations
September 21, 2012

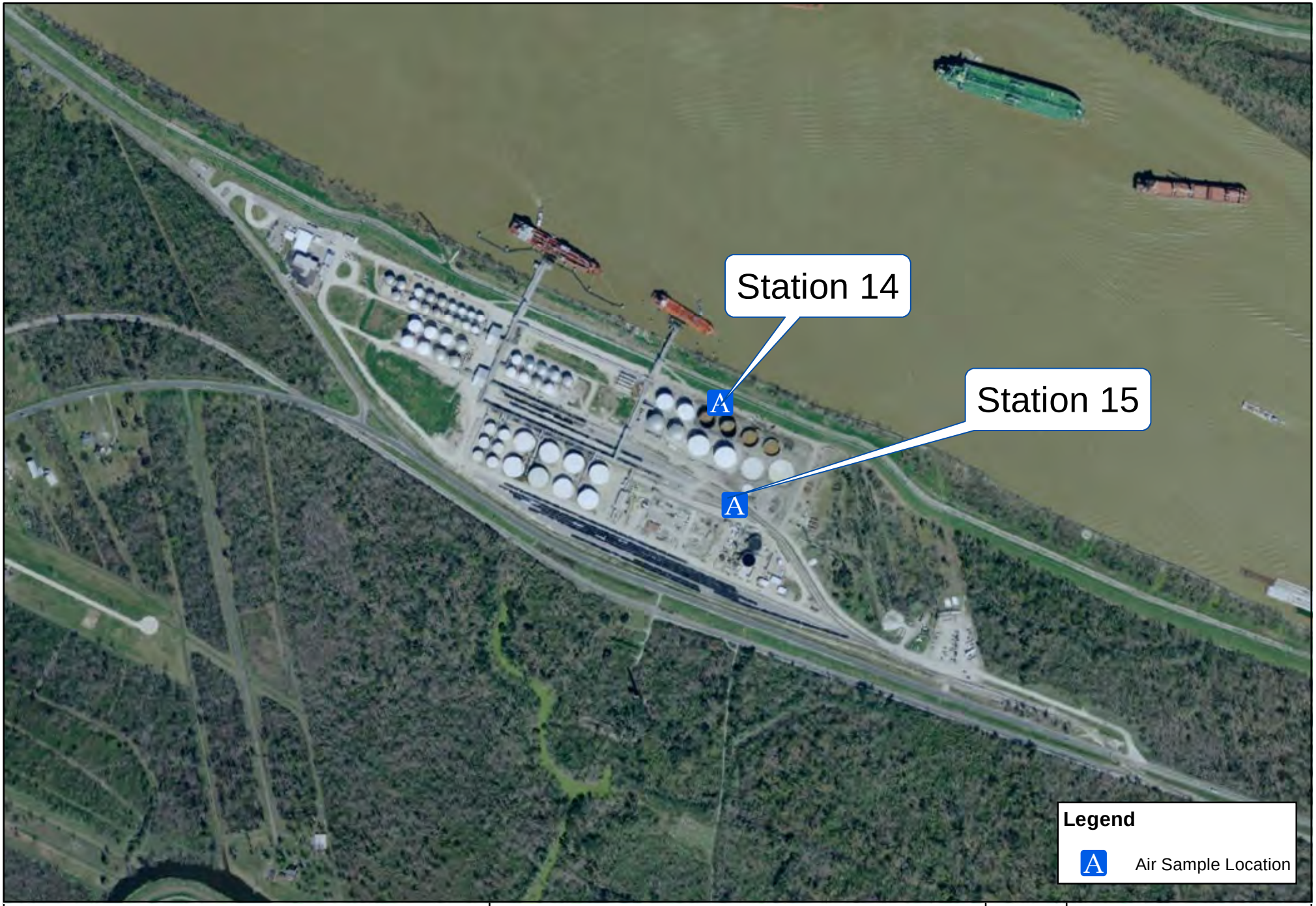
0 50 100 200 300 400 500 600 700 800 900
Feet

N

CTEH®

Project No.
40365

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



Ambient Air
Analytical Sampling Locations

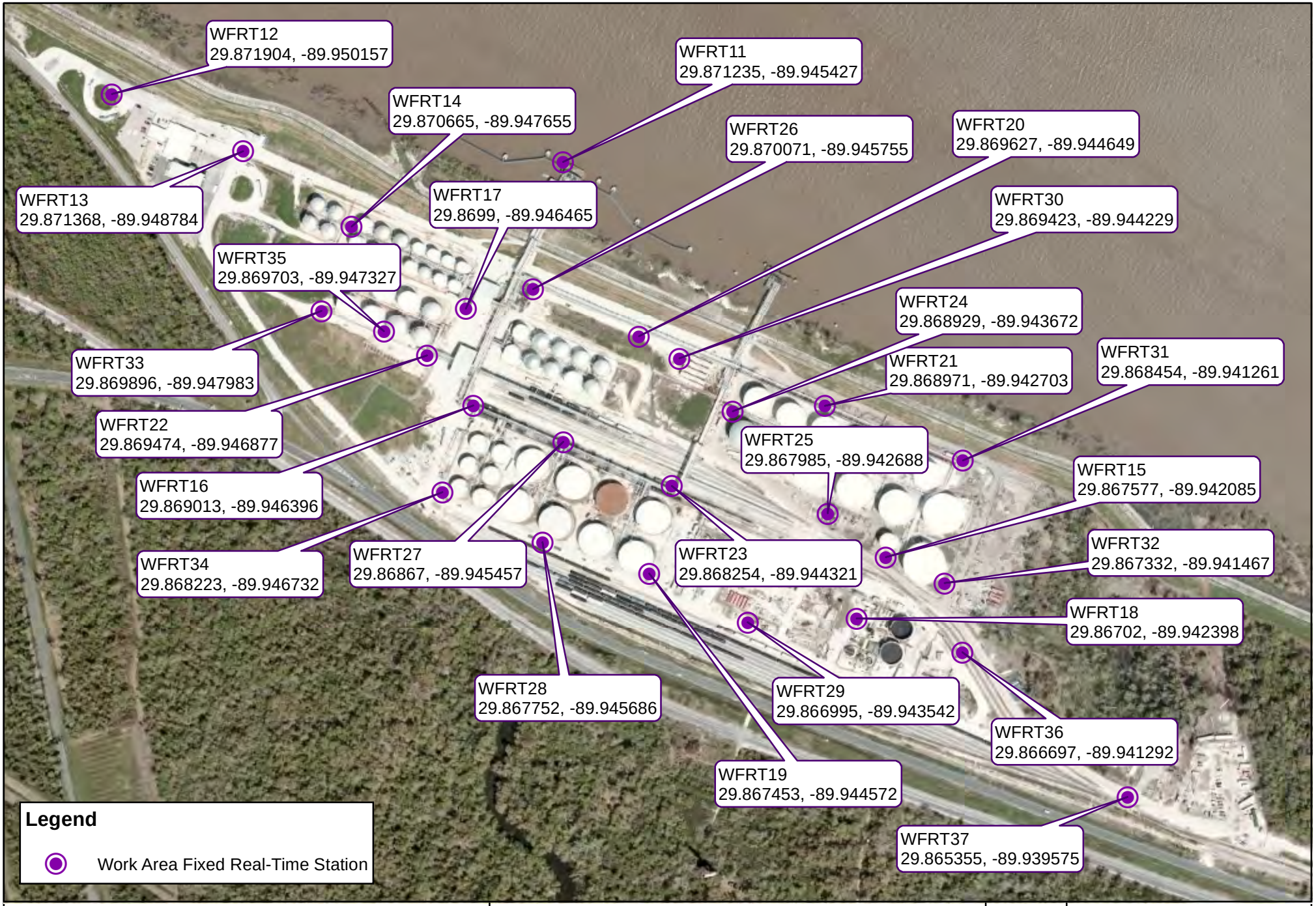
0 0.1 0.2 0.4
Miles

N

CTEH®

Project No.
40365

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



Work Area
Fixed Real-Time Station

September 21, 2012

0 125 250 500 750 1,000
Feet

N

CTEH®

Project No.
40365

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

Work Area
Real-Time Monitoring Locations
10/05/2012

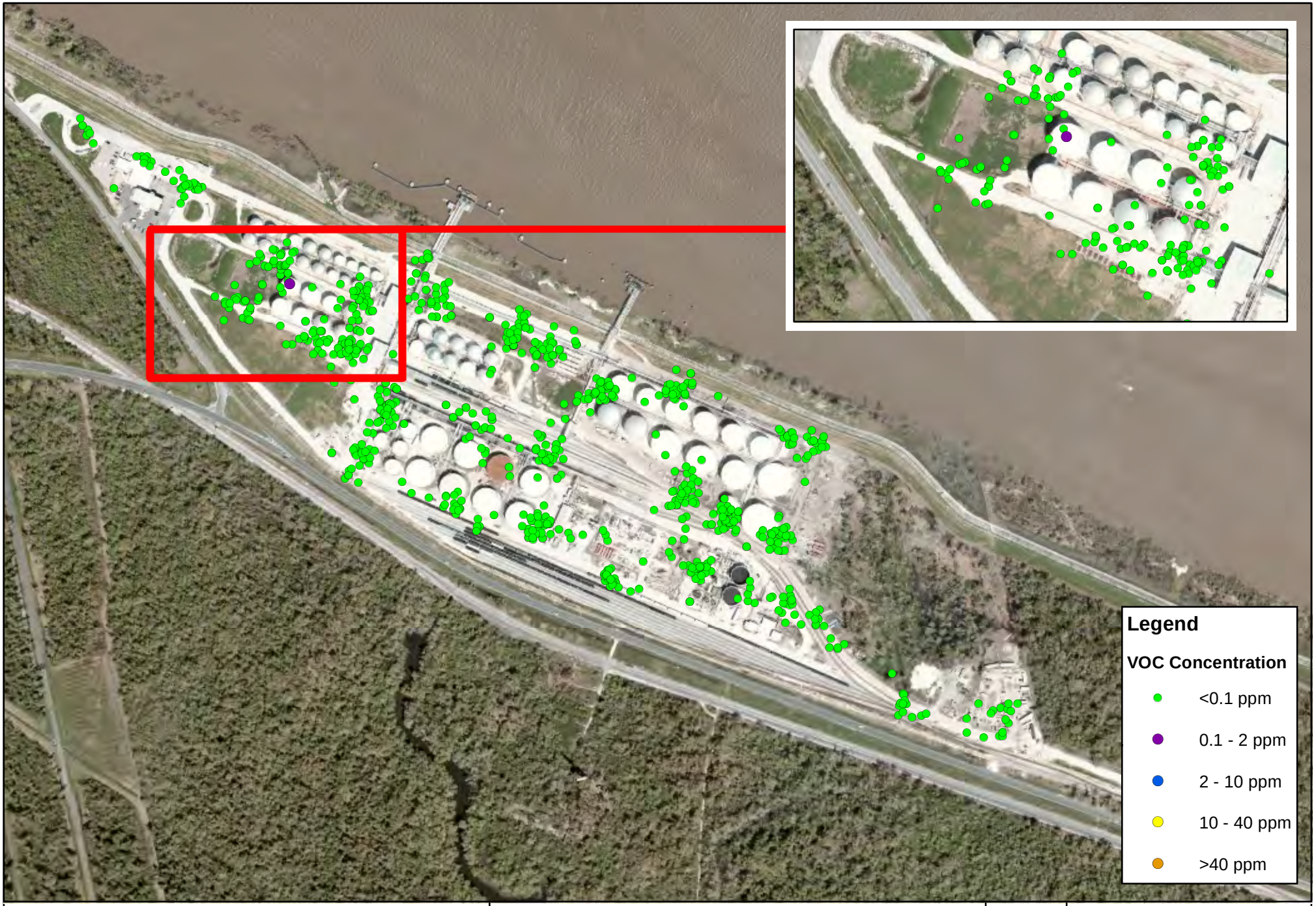
0 250 500 750 1,000 1,250
Feet

N

CTEH®

Project No.
40365

Stolthaven
Braithwaite, LA
Plaquemines Parish
Print Date: 10/6/2012



Manually-Logged Work Area VOC Concentrations

10/05/2012

0 125 250 500 750 1,000 1,250
Feet

N

CTEH®

Project No.
40365

Stolthaven
Braithwaite, LA
Plaquemines Parish
Print Date: 10/6/2012