



September 13, 2011

Mr. Chris Russell
On-Scene Coordinator
U.S. Environmental Protection Agency (EPA), Region 4
61 Forsyth Street SW, 11th Floor
Atlanta, GA 30303

**Subject: Oil Pollution Act (OPA) Emergency Response Action Report
Kinder Morgan Pipeline Release
Tampa, Hillsborough County, Florida
EPA Contract No. 68-W-00-120
TTD No. TTEMI-05-002-0018**

Dear Mr. Russell:

The Tetra Tech EM Inc. Superfund Technical Assessment and Response Team (START) is submitting this final OPA Emergency Response Action report generated for the Kinder Morgan Pipeline Release located in Tampa, Hillsborough County, Florida. This report summarizes field activities conducted at the site during the emergency response. The overall scope of this TDD, monitored by On-Scene Coordinator (OSC) Chris Russell, was to provide technical assistance during the emergency response activities. Specific elements of this TDD included providing air monitoring, documenting on-site conditions and activities with photographs (Enclosure 2) and logbook notes (Enclosure 3), preparing Clean Water Act (CWA) Section 311 documentation (Enclosure 4), and preparing a final report. Enclosure 1 presents the associated site figures, Enclosure 5 presents the EPA Removal Administrative Order, Enclosure 6 presents the National Response Center (NCR) incident reports, and Enclosure 7 presents the Table of Witnesses.

PHYSICAL LOCATION

The point of release (POR) occurred on Kinder Morgan's Central Florida Pipeline system. The 10-inch diameter pipeline that delivers jet fuel from the Tampa, Florida terminal to the Orlando International Airport was discovered by Kinder Morgan (Central Florida Pipeline) to have a product loss on July 22, 2011. The discharge was discovered east of interstate 75 on the south side East Broadway Ave across the street from the First Apostolic Church of Jesus Christ at 10720 East Broadway Ave, Tampa, Florida. The pipeline runs between and parallel to East Broadway Ave and a railroad track. The break in the pipeline was discovered at its intersection to Mango Channel just in front of the two eastern most culverts that run under the railroad track. The geographical coordinates of the POR are 27.97349 degrees north latitude and -82.319961 degrees west longitude.

SITE CHARACTERISTICS

The POR is located in Mango, Florida about 8 miles northeast of Tampa, Florida. The pipeline discharged directly into the Mango Channel. This channel flow takes a pathway past residential properties, religious properties, restaurants, the Citicorp Citibank Center, and the Sable Park business area. The jet fuel impacted approximately 2.5 miles of Mango Channel beginning at the First Apostolic Church of Jesus Christ at 10720 East Broadway Ave, Tampa, Florida heading west. The channel flows into the Tampa Bypass Canal before traveling 5 miles southwest entering into McKay Bay. No impacts

were observed in either the Tampa Bypass Canal, a drinking water source for the City of Tampa, or McKay Bay. Table 1 presents the geographical coordinates of interest for the POR, end of spill impact, and the 5 operational division boundaries. Figure 2 in Enclosure 1 also depicts these locations.

Table 1
Locations of Interest

Description	Degrees North Latitude	Degrees West Longitude
Point of Release [POR] (First Apostolic Church)	27.973490	-82.319961
Division 1 and 2 Boundary (I-75)	27.974085	-82.326363
Division 2 and 3 Boundary (N. Falkenburg Rd.)	27.978244	-82.335067
Division 3 and 4 Boundary (Cragmont Dr.)	27.978554	-82.341568
Division 4 and 5 Boundary (Riga Blvd.)	27.977958	-82.346835
End of Spill (Tampa Bypass Canal)	27.980485	-82.354417

SITE BACKGROUND

On July 22, 2011, reports of a fuel smell came in to 911 and the Hillsborough County Environmental Protection Commission (HCEPC) from the local community triggering the Hillsborough County Fire Rescue (HCFR) to investigate. The location of the leak was discovered by the fire department at approximately 1945 hours on Friday night, July 22, 2011. Central Florida Pipeline was notified and contacted the National Response Center (NRC) the same day stating that their 10-inch pipeline transporting jet fuel to the Orlando International Airport had been compromised. Central Florida Pipeline secured the valves on either end of the line break, blocking off a ten-mile section of pipeline. NRC incident reports, presented in Enclosure 6, document the release of an estimate of 820 barrels of jet fuel impacting a waterway.

The phone Duty Officer Gary Andrew deployed OSC Chris Russell to the site on July 23, 2011 where he met with state and local agencies and Central Florida Pipeline representatives. At the pipeline break, product was observed flowing upwards from the pipe and into Mango Channel. At 1500, the ongoing release was still unsecured.

Unified command was established with USEPA, Florida Department of Environmental Protection (FDEP), Florida Department of Environmental Management (FDEM), HCEPC, HCFR, and Central Florida Pipeline. Central Florida Pipeline hired contractors to stop the release and to address the mitigation efforts. OSC Russell requested START and an additional OSC to respond to the scene.

EMERGENCY RESPONSE ACTIVITIES

At the request of EPA, a Tetra Tech START team responded to the pipeline release on July 23, 2011, to provide air monitoring, oversight, and documentation support. The team arrived on-site at the Hillsborough County Fire Rescue station number 9 at approximately 2230 hours and met with Hillsborough County Fire Rescue and Central Florida Pipeline representatives to discuss air monitoring objectives and receive an update on the response progress.

Central Florida Pipeline contractors were initially monitoring 7 locations along the Mango Channel with handheld air monitors. These locations corresponded to areas with active recovery efforts. Additional locations were added, expanding the monitoring area further west, ending at the Tampa Bypass Canal (see

Figure 2 in Enclosure 1). This air monitoring data provided hourly around-the-clock information for worker safety evaluations and early warning for local community evacuations if necessary. To complement this air monitoring effort, Tetra Tech deployed four 24-hour continuous air monitoring AreaRAE instruments at community locations that could be affected by the release. The monitoring locations, located at the impacted channel, are as follows:

- the First Apostolic Church of Jesus Christ at 10720 East Broadway Ave, across the street from the spill location,
- the Revival Ministries International at 3738 River International Drive,
- the Citigroup daycare center,
- and, the Staybridge Suites.

Figure 2 in Enclosure 1 presents all the air monitoring locations and their associated maximum volatile organic compound (VOC) concentration collected during the response activities. The highest VOC reading of significance was 300 parts per million (ppm) monitored by the fire department over the pipeline fuel the day the release was discovered. No other VOC readings collected by Tetra Tech during response from July 24, 2011 to July 28, 2011 exceeded the low level of 10.4 ppm. Indoor air monitor was conducted in the Citigroup buildings and daycare center and the maximum VOC reading was 1.4 ppm.

Cleanup operations were conducted around the clock and the timeline of events are described below.

- By the second night of the response, July 23, 2011, a temporary sleeve placed over the breached pipeline secured any further release. Hard (containment) boom and absorbent boom was deployed and cleanup contractors were staged at several locations, manning vacuum trucks to collect the fuel that impacted the Mango Channel. Several temporary storage tanks were utilized to hold the captured petroleum contact water as off-site disposal trucks removed the contact water to maintain enough capacity for continuous vacuum truck operations.
- On the third day of the response, July 24, 2011, interviews with the local news stations provided information on the cleanup progress for the public. O'Brien's Response Management was running the incident management team (IMT) and the joint information center (JIC) was issuing press release updates. The four main objectives laid out in the incident action plan (IAP) were as listed.
 1. Ensure the safety of citizens and response personnel.
 2. Minimize the volume released and contain and recover the spilled material.
 3. Keep the stakeholders and the public informed of the response activities.
 4. Protect the environmentally sensitive areas.
- On the fourth day of the response, July 25, 2011, EPA issued an Administrative Order to Central Florida Pipeline asking for the estimated amount of jet fuel released and total liquids recovered to date with their assumptions and calculations generating these quantities. The order was issued after multiple attempts to validate the estimated quantities were unsuccessful.
- By day five and six, July 26 and 27, 2011, the efficiency of cleanup efforts increased by utilizing drum skimmers and more seasoned division leads that streamlined resources and employed proven cleanup techniques. Under the oversight of the U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA), the pipeline repair was

completed and on July 26, 2011 returned to service. Preliminary review of the pipeline showed the damage to be caused from mechanical impact (digging operations) by an undetermined Third Party.

- By day seventh day of the response, July 28, 2011, two earthen underflow dams had been installed in the Mango Channel at Riga Blvd and on the eastside of I-75. Also, six metal and wooden underflow dams had been installed. Hard boom and absorbent boom continued to be maintained in each of the five divisions at 11 locations along the channel.

With cleanup and recovery operations continuing to make good progress, EPA demobilized the site on August 2, 2011, transitioning duties over to the state On-Scene Coordinator (SOSC) with the FDEP and the HCEPC. To ensure the safety of community and response personnel, air monitoring by the Central Florida Pipeline contractor continued. A wetlands and wildlife group were conducting regular bird hazing, collection and identification of affected animals, and assessments of impacted wetland areas. A Central Florida Pipeline contractor managed off-site disposal of petroleum contact water to the FCC Environmental Plant City treatment facility. As of August 3, 2011, over 300,000 gallons of liquids were manifested to the treatment site.

Please contact me at (678) 775-3095 or Paul Prys at (678) 775-3106 if you have any questions regarding this draft OPA emergency response report.

Sincerely,



Yuen-Chang (Didi) Fung
START III Project Manager

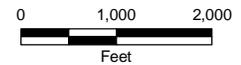
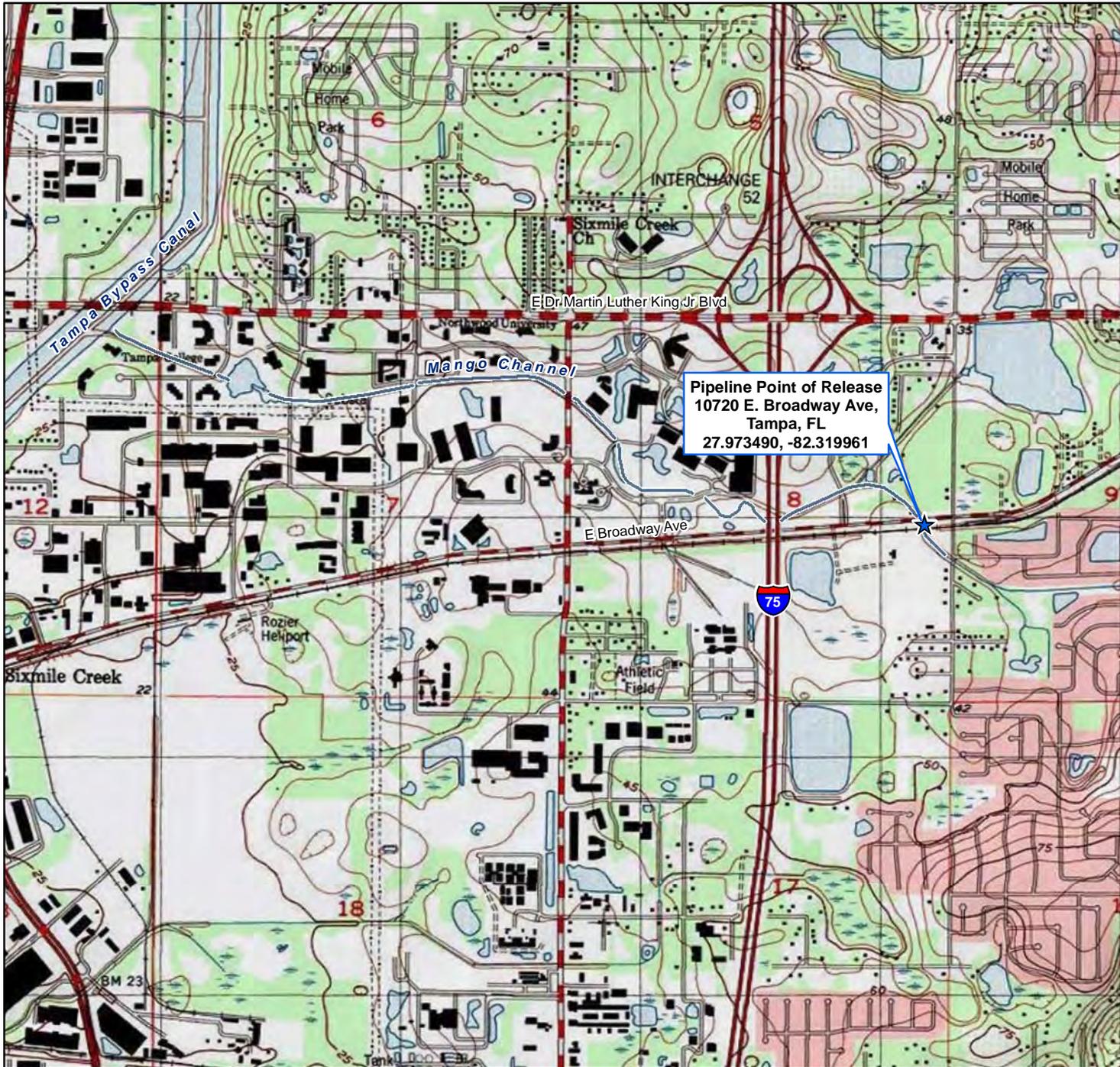
Enclosures (6)

cc: Katrina Jones, U.S. EPA Project Officer
Angel Reed, START III Document Control Coordinator

ENCLOSURE 1

SITE FIGURES

(Two Pages)



Map Source:
USGS Topographic Quadrangles,
Brandon, FL 1982

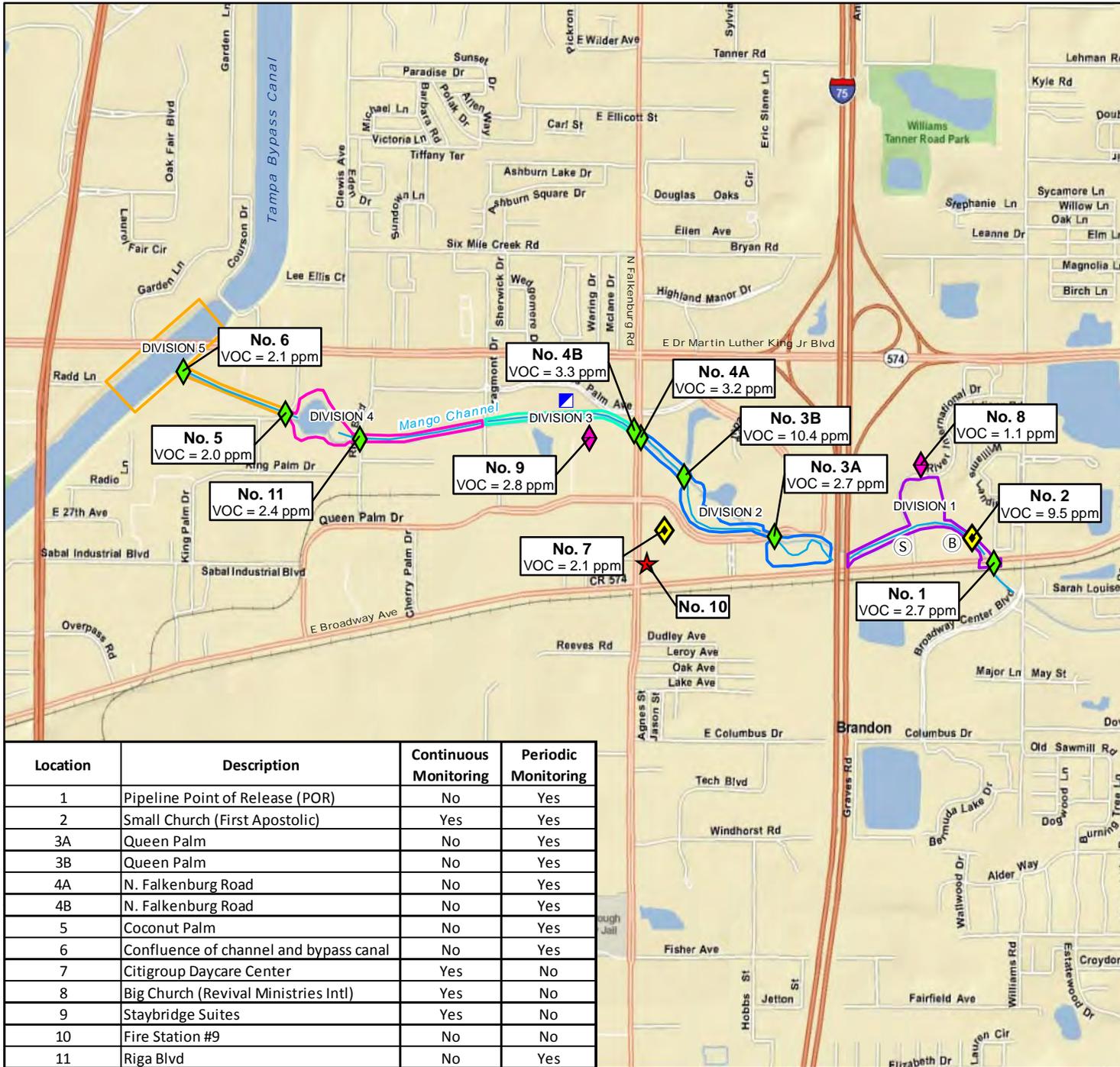


United States
Environmental Protection Agency

KINDER MORGAN
PIPELINE RELEASE
TAMPA,
HILLSBOROUGH COUNTY,
FLORIDA
TDD: TTEMI-05-002-0018

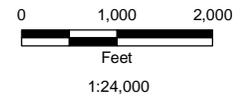
**FIGURE 1
SITE LOCATION**





Legend

- Monitoring Locations**
- ◆ Periodic Air Monitoring
 - ◆ Continuous Air Monitoring
 - ◆ Periodic and Continuous Air Monitoring
 - ★ Fire Station
 - ~ Mango_Channel
 - Unified Command Post
 - B Forward Command Post
 - S Frac Tank Staging Site



Note:
Maximum volatile organic compound (VOC) screening levels are presented at each monitoring location.

Map Source:
ESRI StreetMap World 2D

Location	Description	Continuous Monitoring	Periodic Monitoring
1	Pipeline Point of Release (POR)	No	Yes
2	Small Church (First Apostolic)	Yes	Yes
3A	Queen Palm	No	Yes
3B	Queen Palm	No	Yes
4A	N. Falkenburg Road	No	Yes
4B	N. Falkenburg Road	No	Yes
5	Coconut Palm	No	Yes
6	Confluence of channel and bypass canal	No	Yes
7	Citigroup Daycare Center	Yes	No
8	Big Church (Revival Ministries Intl)	Yes	No
9	Staybridge Suites	Yes	No
10	Fire Station #9	No	No
11	Riga Blvd	No	Yes



United States
Environmental Protection Agency

KINDER MORGAN
PIPELINE RELEASE
TAMPA,
HILLSBOROUGH COUNTY,
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**FIGURE 2
AIR MONITORING AND
SCREENING LEVELS**



ENCLOSURE 2

PHOTOGRAPHIC LOG

(30 Pages)



OFFICIAL PHOTOGRAPH NO. 1
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-002-0018 **Location:** Division 1 - East Broadway Street
Tampa, Florida

Orientation: Southwest **Date:** July 24, 2011

Photographer: Paul Prys, Tetra Tech **Witness:** Kinder Morgan representatives

Subject: Repairs to 10-inch jet fuel pipeline along East Broadway Street. The break in the line was clamped closed with a sleeve and the pipeline was tapped so fuel could be evacuated as necessary for further repairs.



OFFICIAL PHOTOGRAPH NO. 2
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-002-0018

Location: Division 1 - East Broadway Street
Tampa, Florida

Orientation: Southwest

Date: July 25, 2011

Photographer: Subash Patel, EPA

Witness: Kinder Morgan representatives

Subject: Repairs to 10-inch jet fuel pipeline along East Broadway Street. Workers prepare the ends of the pipeline to receive a new connecting section of pipe.





**OFFICIAL PHOTOGRAPH NO. 3
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018 **Location:** Division 1 - East Broadway Street
Tampa, Florida

Orientation: Southeast **Date:** July 26, 2011

Photographer: Didi Fung, Tetra Tech **Witness:** Kinder Morgan representatives

Subject: Repairs to 10-inch jet fuel pipeline along East Broadway Street. Workers are wrapping the pipeline with highly visible material.





OFFICIAL PHOTOGRAPH NO. 4
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-002-0018

Location: Division 1 - East Broadway Street
Tampa, Florida

Orientation: Southeast

Date: July 28, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Jordan Garrard, EPA

Subject: Repairs to 10-inch jet fuel pipeline along East Broadway Street after backfill. Orange flags indicate proposed soil sample locations for environmental impact assessment.





OFFICIAL PHOTOGRAPH NO. 5
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-002-0018

Location: Division 1 – Autoway Drive
Tampa, Florida

Orientation: East

Date: July 27, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Chris Russell, EPA

Subject: A large section of vegetative overgrowth was cleared from Mango Channel that released a heavy layer of jet fuel for recovery.





**OFFICIAL PHOTOGRAPH NO. 6
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018

Location: Division 1 – Autoway Drive
Tampa, Florida

Orientation: West

Date: July 27, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Chris Russell, EPA

Subject: A large section of vegetative overgrowth was cleared from Mango Channel that released a heavy layer of jet fuel for recovery. Two different types of drum skimmers were utilized during recovery efforts.





**OFFICIAL PHOTOGRAPH NO. 7
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018

Location: Division 1 – Autoway Drive
Tampa, Florida

Orientation: North

Date: July 27, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Rick Jardine, EPA

Subject: A large section of vegetative overgrowth was cleared from Mango Channel that released a heavy layer of jet fuel for recovery. An emulsified layer of fuel is captured by layered sock boom.





**OFFICIAL PHOTOGRAPH NO. 8
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018

Location: Division 1 – East Side of I-75 & Mango Channel, Tampa, Florida

Orientation: Northeast

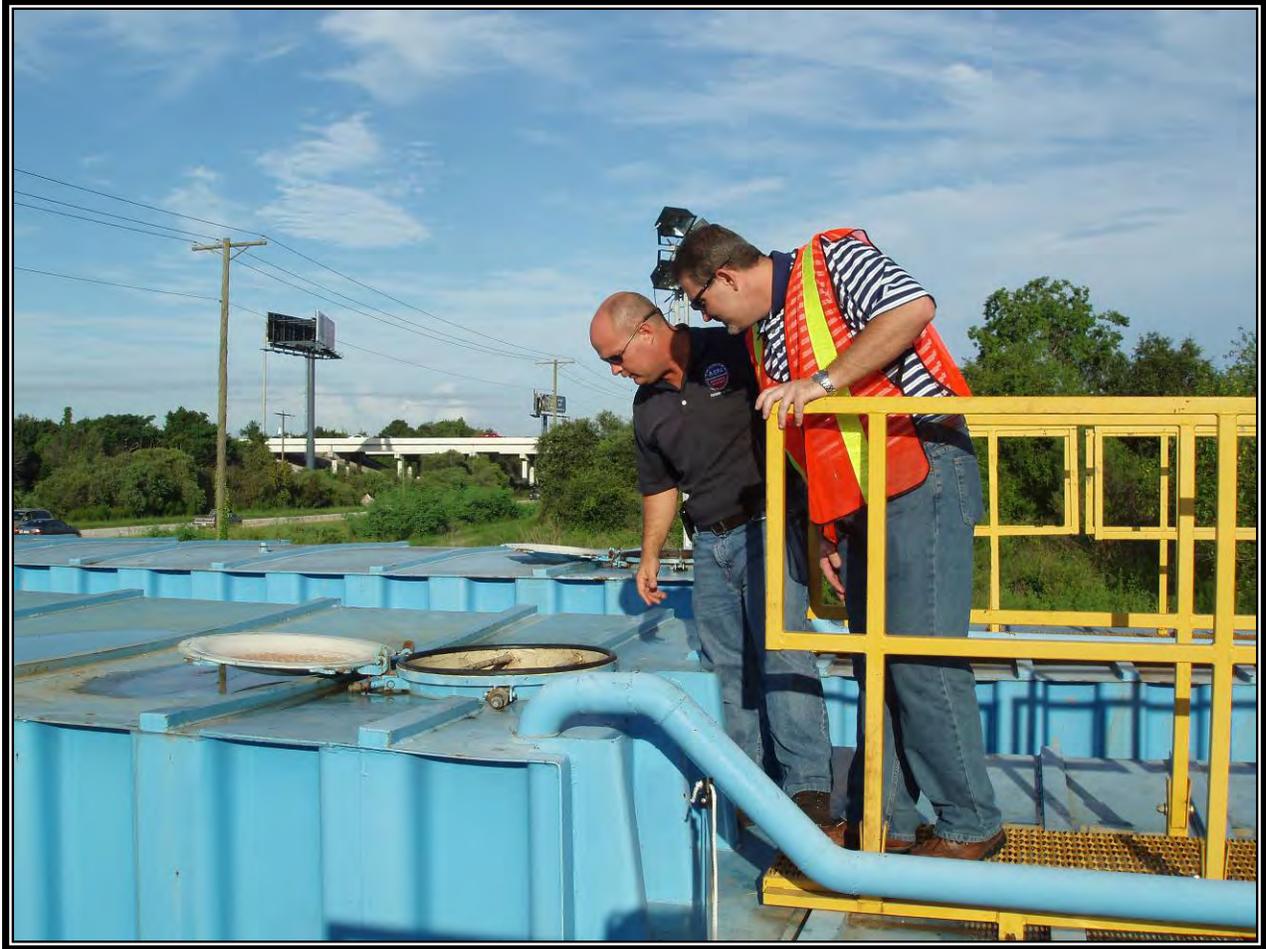
Date: July 28, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Jordan Garrard, EPA

Subject: EPA inspected an earthen underflow dam constructed by Kinder Morgan.





**OFFICIAL PHOTOGRAPH NO. 9
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018

Location: Division 1 – Autoway Drive
Tampa, Florida

Orientation: West

Date: July 26, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Chris Russell, EPA

Subject: EPA and Kinder Morgan unified command inspected the temporary recovery tanks.





OFFICIAL PHOTOGRAPH NO. 10
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-002-0018

Location: Division 1 – Autoway Drive
Tampa, Florida

Orientation: Southeast

Date: July 26, 2011

Photographer: Chris Russell, EPA

Witness: Didi Fung, Tetra Tech

Subject: The recovery tanks were measured to see how much fuel to water ratio was recovered. The tanks ranged from 2 % to 23% fuel.





**OFFICIAL PHOTOGRAPH NO. 11
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018

Location: Division 1 – Autoway Drive
Tampa, Florida

Orientation: Northwest

Date: July 24, 2011

Photographer: Paul Prys, Tetra Tech

Witness: None

Subject: Tetra Tech performed air monitoring for volatile organic compounds at the Revival Ministries International located west of the release.





OFFICIAL PHOTOGRAPH NO. 12
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-002-0018

Location: Division 1 – Juliann Road
Tampa, Florida

Orientation: South

Date: July 25, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Chris Russell, EPA

Subject: EPA provided local new stations information on the pipeline response and recovery efforts.





**OFFICIAL PHOTOGRAPH NO. 13
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018

Location: Division 2 – West Side of I-75 &
Mango Channel, Tampa, Florida

Orientation: South

Date: July 27, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Rick Jardine, EPA

Subject: EPA observed a drum skimmer recovering fuel that was flushed downstream.





OFFICIAL PHOTOGRAPH NO. 14
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-002-0018

Location: Division 2 – West Side of I-75 &
Mango Channel, Tampa, Florida

Orientation: South

Date: August 1, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Kinder Morgan representatives

Subject: A drink bottle top was used as a reducer to improve the fuel recovery efficiency through the hose.





OFFICIAL PHOTOGRAPH NO. 15
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-002-0018

Location: Division 2 – West Side of I-75 &
Mango Channel, Tampa, Florida

Orientation: Down

Date: August 1, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Kinder Morgan representatives

Subject: A drink bottle top was used as a reducer to improve the fuel recovery efficiency through the hose.





**OFFICIAL PHOTOGRAPH NO. 16
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018

Location: Division 2 – Queen Palm Drive,
Tampa, Florida

Orientation: Down

Date: July 24, 2011

Photographer: Paul Prys, Tetra Tech

Witness: Kinder Morgan representatives

Subject: Rigid pipe was attached to flexible recovery hose to allow ease of positioning during fuel recovery efforts.





**OFFICIAL PHOTOGRAPH NO. 17
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018

Location: Division 2 – CitiGroup
Tampa, Florida

Orientation: Northeast

Date: July 30, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Chris Russell, EPA

Subject: Long-reach excavators were utilized to scoop oiled vegetation in the wetlands area near the CitiGroup buildings. Custom holes were cut in the bucket to allow the solid matter to be strained of liquid.





**OFFICIAL PHOTOGRAPH NO. 18
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018

Location: Division 2 – CitiGroup
Tampa, Florida

Orientation: East

Date: July 30, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Chris Russell, EPA

Subject: Workers waded out into the wetlands to effectively recover the fuel and emulsified fuel contained in the boom.





**OFFICIAL PHOTOGRAPH NO. 19
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018 **Location:** Division 2 – North Falkenburg Road
Tampa, Florida

Orientation: Northwest **Date:** July 29, 2011

Photographer: Didi Fung, Tetra Tech **Witness:** Jordan Garrard, EPA

Subject: Small 250 gallon capacity vacuum units mounted on trailers allowed recovery crews the ability to keep multiple containment points along the Mango Channel cleaned and maintained.





**OFFICIAL PHOTOGRAPH NO. 20
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018

Location: Division 2 – North Falkenburg Road
Tampa, Florida

Orientation: Northeast

Date: July 29, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Jordan Garrard, EPA

Subject: Using the portable vacuum units, workers waded into the channel to capture the fuel that collected behind the wooden underflow dam.





**OFFICIAL PHOTOGRAPH NO. 21
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018

Location: Division 2 – North Falkenburg Road
Tampa, Florida

Orientation: Down

Date: July 29, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Jordan Garrard, EPA

Subject: Using the portable vacuum units, workers waded into the channel to capture the fuel that collected behind the wooden underflow dam.





**OFFICIAL PHOTOGRAPH NO. 22
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018

Location: Division 2 – North Falkenburg Road
Tampa, Florida

Orientation: Northwest

Date: July 29, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Jordan Garrard, EPA

Subject: Workers attached a metal underflow dam to a concrete box culvert.





**OFFICIAL PHOTOGRAPH NO. 24
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018

Location: Division 3 – Princess Palm Avenue
Tampa, Florida

Orientation: North

Date: August 02, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Chris Russell, EPA

Subject: Unified command briefed local community environmental leadership on the status of the pipeline release and recovery efforts.





**OFFICIAL PHOTOGRAPH NO. 25
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018

Location: Division 3 – Riga Boulevard
Tampa, Florida

Orientation: Southeast

Date: July 28, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Jordan Garrard, EPA

Subject: Earthen underflow dam constructed at Riga Boulevard to retain fuel and sheen and protect the downstream channel.





**OFFICIAL PHOTOGRAPH NO. 26
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018 **Location:** Division 4 – Coconut Palm Drive
Tampa, Florida

Orientation: East **Date:** July 25, 2011

Photographer: Didi Fung, Tetra Tech **Witness:** Chris Russell, EPA

Subject: Kinder Morgan’s contractor URS tasked with bird hazing in an effort to keep the
wildlife from contaminating their feathers.





**OFFICIAL PHOTOGRAPH NO. 27
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018

Location: Division 4 – Coconut Palm Drive
Tampa, Florida

Orientation: East

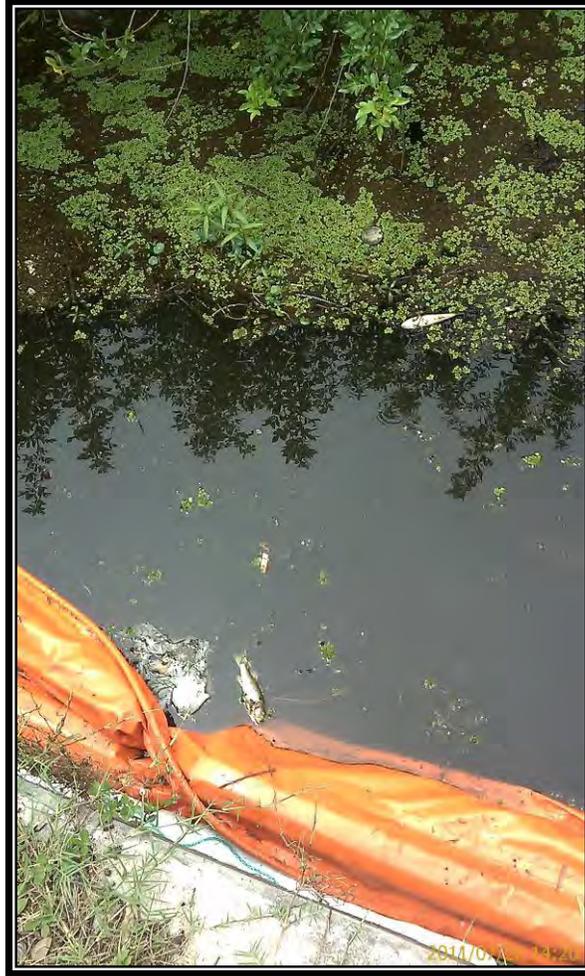
Date: July 29, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Kinder Morgan representatives

Subject: Swim and fish advisories were posted at multiple locations along the Mango Channel.





OFFICIAL PHOTOGRAPH NO. 28
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-002-0018

Location: Division 5 – Coconut Palm Drive
Tampa, Florida

Orientation: Down

Date: July 26, 2011

Photographer: Jeff Rapolti, Tetra Tech

Witness: Kinder Morgan representatives

Subject: By July 26, 2011, 456 fish and 12 crustaceans, amphibians, and reptiles were found dead and collected by Kinder Morgan's contractor URS.





OFFICIAL PHOTOGRAPH NO. 29
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-002-0018

Location: Division 5 – Bypass Canal & Mango Channel, Tampa, Florida

Orientation: North

Date: July 25, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Chris Russell, EPA

Subject: The end of Mango Channel before it enters the Tampa bypass canal; a drinking water intake for the City of Tampa, Florida.





**OFFICIAL PHOTOGRAPH NO. 30
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-002-0018

Location: Division 5 – Bypass Canal & Mango Channel, Tampa, Florida

Orientation: North

Date: July 27, 2011

Photographer: Didi Fung, Tetra Tech

Witness: Chris Russell, EPA

Subject: Water department representatives collected water samples from the Tampa bypass canal for analysis.



ENCLOSURE 3
LOGBOOK NOTES
(26 Sheets)

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...for outdoor writing people."



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TTEMI-05-002-0018

KINDER MORGAN Pipeline



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No. 371

Logbook 1 of 2
July 2011

"Rite in the Rain"
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TAMPA, FL

00316

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of Hillsborough County

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Tampa, Florida 33619-1309

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E-mail: watsona@epchc.org

Web Site: www.epchc.org

EPA

Chris Russell

Subash Patel

Rick Jardine

Jordan Gannard

KINDLE MORGAN

Greg Dempsey

Rick Krejci

John Dutt

(Planning)

(Night Operations)

TE

Paul Prys

Didi Fung

Jeff Rapoliti

Pete Johnson

July 23-24, 2011

Fung, Peng

1030-2230 Arrived at the fire department in Tampa, FL (3279 Falkenberg Road North). For initial situation briefing with a focus on air monitoring. See sign in sheet for meeting participants.

- 3" gauge in pipe the coating was scraped off

- the clamp has been installed on the pipe and the leak has been stopped.

- Tonight they will remove the remaining product from the line.

- Divisions A through K w/ 36 PPR & contractors

Environment Issues

- last night 2100 leak was discovered.

- product coming up out of the ground

- block valves were closed (10 miles apart)

- followed creek 2 miles

7 hard & 7 soft boom was laid out

- 10" line diameter

- 4 underflow dams were installed.

- vac trucks are running around the docks

- 25,000 gals water/product recovered.

Scale: 1 square=

P. Fung

July 23, 24, 2011

Fung, Peng

- 2 mobile homes & the church on well & septic. Cautioned on the use of water. PPR will provide water

PPR readings

O ₂ 20.9%	} current readings	_____ every HR
H ₂ S 0 ppm		_____ Locations
CO 0 ppm		_____ are monitored
LEL 0%		_____

last night at the ^{leak} master FD got ~~5000~~
VOL 300ppm

Potable well samples collected by PPR for analytical analysis.

The FD, EPA, PPR will monitor 7 previously determined locations and identifying more down stream locations. as well as identify Areal/RAE locations.

Next meeting at 0615 at _____

P. Fung

Scale: 1 square=

July 23-24, 2011

Fung, Pags

MONTARA SN

VOL Bump
READOUT

Record Bump

095-508250

~~101 ppm~~
101 ppm ✓

095-517536

89.1 ppm (X)

100 ppm ✓

A79453

95.0 ppm

~~100 ppm~~

(MONTARA)

Location Latitude Longitude TIME

1 break in fuel line N 27.97352 W 82.31920 0045

2 Church N 27.97445 W 82.32083 0050

3A Queen Palm N 27.97446 W 82.32922 0103

Notes: dead fish (3) at this location ^{one} ~~100 ppm~~

3B Queen Palm N 27.97638 W 82.33309 0115

City Cove Daycare N 27.97463 W 82.33390 0123

Center (Bright Horizons)

4A Falkenberg Rd N 27.97813 W 82.33492 0131

4B " " N 27.97839 W 82.33521 0131

5 Coconut Palm N 27.97888 W 82.35002 0139

Note: a lot of small dead fish

6 End of Creek & N 27.98044 W 82.35437 0200

By Pass Canal

1300-1400 Completed airmanatory work.

0100-0200

Doris Fung

Scale: 1 square=

July 23-24, 2011

Fung, Pags

H₂S Bump

LEL Bump

CO Bump

O₂ Bump

32 ppm (High)

5 1/2%

51 ppm

20.3%

25 ppm

38% (low)

50 ppm

20.9%

20.8%

23 ppm

47%

42 ppm

20.9%

LEL% O₂% H₂S ppm CO ppm VOL ppm Team

0% 20.6 0 0 1.1 EPA

0% 20.6 0 0 5.8 EPA

0 20.6 0 0 2.7 EPA

like gar. ~~10.4~~ EPA

0 20.6 0 0 10.4 EPA

0 20.6 0 0 2.9 EPA

0 20.6 0 0 3.2 EPA

0 20.6 0 0 2.8 EPA

0 20.6 0 0 1.4 EPA

0 20.6 0 0 1.8 EPA

Doris Fung

Scale: 1 square=

	Time	CEU%	O2%	
1	Break in fuel line	0452	0	20.6
2	Church	0500	0	20.6
3A	Queen Palm	0512	0	20.6
3B	Queen Palm	0518	0	20.6
	Daycare - City Ave	0520	0	20.9
1A	Falkenberg Rd	0524	0	20.9
1B	"	0526	0	20.6
5	Coconut Palm	0532	0	20.9
6	End of Creek	0542	0	20.5

0800 START PAYS on-site. Picked up from hotel by START Fung. START Fung briefed START PAYS on night's activities and towed AREA RAE monitoring locations (small church, large church, Stuyvesant Suites, City Creek Daycare Center)

Location	Latitude	Longitude
Small Church	27.97352	-82.3199
Large Church	27.97722	-82.32304
Stuyvesant	27.97809	-82.33711
Daycare	27.97299	-82.33031

0930 START Fung and OSC Patel off-site to meet with OSC Russell. START PAYS continued to monitor AREA-RAE units.

Scale: 1 square =



H2S ppm	CO ppm	NO ppm	Team
0	0	1.6	EPA
0	0	9.5	EPA
0	0	1.7	EPA
0	0	3.0	EPA
0	0	2.3	EPA
0	0	2.3	EPA
0	0	3.3	EPA
0	0	1.5	EPA
0	0	1.8	EPA

1035 ARRIVED at fire station. URS and FIRE Dept. ALREADY DEPARTED. RECEIVED RIDE from FD personnel to meet sampling team.

1055 ARRIVED at City Group (N. 27.97567 W-82.33025). MET with Hillsborough Co. FIRE RESCUE CHRIS BOLES AND ANDREW DEVEREAUX. City Group REPRESENTATIVE not on-site. START PAYS and HCFR to conduct air monitoring in their bldgs. SWS informed START PAYS they would not be on site for 1.5 hrs. START and HCFR to conduct monitoring without SWS REPRESENTATIVE. START USED MULTI-RAE 5gas (055-509250).

According to HCFR, they were informed



Scale: 1 square =

cont. on pg 10

July 24, 2011

Fungus, Pays

Building	Time	LEL %	O ₂ %
C Bldg, 1 st Fl	1110-1121	0%	20.9
		0	< 20.8
C Bldg, 2 nd Fl	1123-1127	0	20.9
		0	< 20.8
G Bldg, 2 nd Fl	1128-1131	0	20.9
		0	20.8
G Bldg, 3 rd Fl	1132-1139	0	20.9
		0	20.8
G Bldg, 1 st Fl	1141-1148	0	20.9
		0	20.8
F Bldg, 1 st Fl	1152-1157	0	20.9
		0	20.8
F Bldg, 2 nd Fl	1159-1204	0	20.9
		0	20.8
F Bldg, 3 rd Fl	1205-1211	0	20.9
		0	20.8
A Bldg, 1 st Fl	1223-1229	0	20.9
		0	20.8
A Bldg, 2 nd Fl	1230-1235	0	20.9
		0	20.8
A Bldg, 3 rd Fl	1236-1245	0	20.9
		0	20.8

* Crew was cleaning floors in the lobby entering

Scale: 1 square =

July 24, 2011

Fungus, Pays

H ₂ S ppm	CO ppm	VOC ppm	TEAM
0	0	0-0.2	EPA
0	0	0 / 1.0	HCFR
0	0	0	EPA
0	0	0	HCFR
0	0	0-1.0	EPA
0	0	0	HCFR
0	0	0-0.1	EPA
0	0	0	HCFR
0	0	0-0.8	EPA
0	0	0	HCFR
0	0	0.1-0.8	EPA
0	0	0	HCFR
0	0	0-0.6	EPA
0	0	0	HCFR
0	0	0-0.4	EPA
0	0	0	HCFR
0	0	0-0.8*	EPA
0	0	0	HCFR
0	0	0-0.7	EPA
0	0	0	HCFR
0	0	0-1.0	EPA
0	0	0	HCFR

A Bldg. Results closer to 0.8 ppm near this area.

Scale: 1 square =

July 24, 2011

Fung. Pays

Building	Time	LEL %	O ₂ %
Bldg B 3 rd Fl	1248-1256	0	20.9
		0	20.8
Bldg B 2 nd Fl	1258-1305	0	20.9
		0	20.8
Bldg B 1 st Fl	1306-1315	0	20.9
		0	20.8

1055 cont that they intake to the bldg HVAC (from pg 7) has been off for last 2 days and air has been recircled.

1320 Completed air monitoring at Citi Group bldg.

1335 Arrived at Citi Group Day Care to conduct air monitoring in Bldg.

Playarea Wing	Time	LEL %	O ₂ %
B-Wing	1338-1345	0	20.9
		0	20.8
A-Wing	1345-1350	0	20.9
A Wing	1345-1350	0	20.8
E Wing	1350-1358	0	20.9
		0	20.8
Kitchen	1400-1412	0	20.9

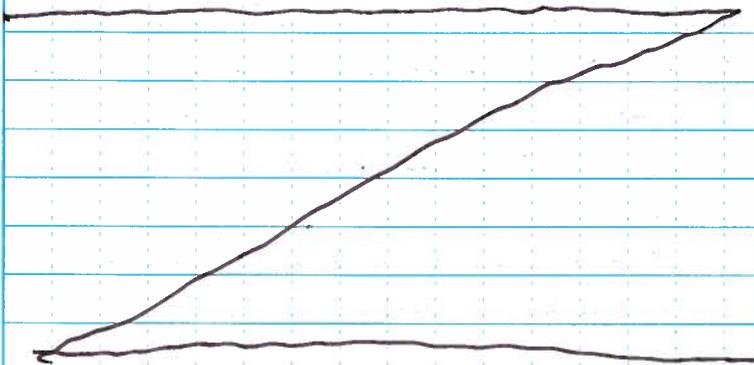
NOTE: HECTOR COSMIE (WACKENHUT) was the security

Scale: 1 square=

July 24, 2011

Fung. Pays

H ₂ S ppm	CO ppm	VOC ppm	TEAM
0	0	0.1-0.5	EPA
0	0	0-1.4	HCFR
0	0	0.1-0.6	EPA
0	0	0	HCFR
0	0	0.1-0.7	EPA
0	0	0	HCFR



H ₂ S ppm	CO ppm	VOC ppm	TEAM
0	0	0.1-0.4	EPA
0	0	0	HCFR HCFR
0	0	0.0-0.2	EPA
0	0	0	HCFR
0	0	0.0-0.4	EPA
0	0	0	HCFR
0	0	0.0-0.3	EPA

Escort during both air monitorings.

Scale: 1 square=

July 24, 2011

Fung, Pays

1405 ~~PM~~ Completed air monitoring at drycove center. Returned to HCFR bldg.

Notes: Equipments used by HCFR during monitoring. MSA Sirius (HL# 0138320)
MSA ~~Series~~ ^{SP} Sirius (SN AD-1396-605)

1500 Departed AREA RAG monitoring location to check AREA RAGS.

1515 Arrived at "small church". First Apostolic Church of Jesus Christ, 10720 E. Broadway Ave
AREA RAG #5 working properly.

1540 Arrived at Revival Ministries International + THE RIVER at Tampa Bay
AREA RAG #7 working properly.

1555 Arrived at drycove. AREA RAG #2 working properly.

1605 Arrived at Stoubridge Suites parking lot. AREA RAG #8 is ~~working~~ ^{SP} working properly.

1620 START PAYS/FUNG met with OSCs Russell AND Patel to plan for tomorrow's activity.

1710 Discussed boosting REPBAT signals with QSI Rutledge. START FUNG PRINTED OUT SITE FIGURES FOR OSC RUSSELL.

1800 Returned to HCFR Fishhouse. Wrote

Scale: 1 square =



July 24, 2011

Fung, Pays

1800 AND Emailed summary of today's sampling activities ~~and sent~~ ^{PM} to OSCs Russell and Patel. START FUNG TROUBLESHOOTING ISSUES WITH DOWNLOADING DATA FROM AREA RAGS.

1900 PROGRAM ISSUES ASSOCIATED WITH THE AREA RAGS RESULTED IN THE LOSS OF THE AIR MONITORING DATA GATHERED THROUGHOUT THE DAY. START FUNG AND PAYS AND OSC Patel worked to improve REPEATABLE signals with AREA RAGS, AND MOVED THE AREA RAG host to the Baymont Suites located at 10077 PRINCESS PALM AVE.

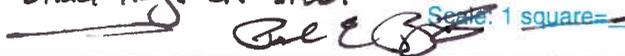
2030 START PAYS uploaded site photos to OSC website. OSC Patel and START FUNG continued to troubleshoot RECEPTION ISSUES WITH AREA RAGS.

2230 OSC Patel and START FUNG returned to Baymont. START PAYS changed out battery for AREA RAG #2.

2345 OSC Patel / START FUNG off-site. START PAYS PLACED AREA RAG #2 at drycove center. AR #2 RECEIVED by host.

0005 START PAYS off-site.

Scale: 1 square =



July 25, 2011
 0625 Morning mtg.
 (last night)

2230 - line wash drained out (7/24/11)

0530 - tank A 16,086 gal

B 15,152 gal

31,238 gal verify as oil with

vac trucks → 744 bbs ^{stuck (color change)}

- blocked at 1030 pm Friday

- line was shut down Friday morning 1030 AM

- last night vac (SWS) readings max ~ 53 ppm

- the cement tapper out from the line to clear out of the final patch ~ 600 bbs product & water.

- the initial release ests will need to be relooked.

0703 mtg ends

0830 AM location 3B to look at oil layer; still present

0900 @ Big church ~~with~~ roadway @ fire tanks

↑ taking measurement of oil/water ratio & observing
 skimming ops. #1 fire tank had a few inches
 of ^{water} product with mostly emulsion below.

(SWS is waiting of city core workers coming into work; ops had stopped for a short period of time)

1030 Walked the bypass canal and did not see or smell oil.

Scale: 1 square =

Dick Fung

July 25, 2011

1100 @ Coconut palm met with URS team. Keeping wild life away from oil impacted areas. See photos.

1145 @ small church, pipeline break location.

EPA interviewed by local news stations.

Location 2, still collecting oil with vac truck see pros. Vol = 0.8 ppm.

1230 Observed pipe work at break in line.

A section of pipe has been removed & workers are ~~preparing~~ preparing ^{both} either ends to receive the new section. See pictures.

1400 START PRYS on-site. START FUNG

BRIEFGD ^{me} START PRYS on today's ACTIVITIES.

1500 DROPPED off START FUNG AT HOTEL AND RETURNED to site.

1535 Contracted MILLS with SWS to conduct PERIODIC monitoring and 16ft MESSAGE.

1550 Calibrated EPA multi-RAE (095-S17536)

Post cal. Sample check results: VOC 98.4 ppm

100 ppm; LEL 48%; CO 50 ppm; O₂ 20.9%

Note: The H₂S sensor indicated an ERROR during calibration.

1640 DEPARTED Baymont TO REPLACE REPORTER AT

Dick Fung

Scale: 1 square =

July 25, 2011

1640 OVERPASS and to pick up START Fung.
 1815 START Fung and Pags met OSC RUSSELL
 AT FRANK TANKS STAGED AT ^{RIVER} INTERNATIONAL
 RIVER DAM TO SEE IF PRODUCTS IN
 TANKS HAS EMULSIFIED IN THE WATER.
 1735 About 7.5 FT WATER COLUMN IN TANK
 237250. Had approx 2" of product on
 top. PRP contractor using oil/water
 interface probe on some tank and
 found ~4" of product based on the probe.
 1840 Returned to IC to pick up batteries ^(PR)
 equipment to change out batteries
 and filters on AREA RAES.
 1900 Arrived at "small church". changed
 out battery and moisture filter for
 unit 5. Calibrated unit 5. Post
 calibration check: VOC 100 ppm;
 O₂ 20.9%; LEL 50%.
 2000 Arrived at "large church". changed
 out battery and moisture filter and
 calibrated unit 7. Post cal. check:
 VOC 100 ppm; O₂ 20.9%; LEL 45%.
 2030 Arrived at daycare center. changed
 out battery and moisture filter and

Scale: 1 square =

July 25, 2011

2030 Calibrated unit 2. Post cal. check:
 VOC 101 ppm; O₂ 20.6%; LEL 48%.
 2105 Arrived at Strawberry Suites. changed
 out battery and moisture filter for ^(PR)
 and calibrated unit 9. Post cal. check:
 VOC 99 ppm; O₂ 20.9%; LEL 49%.
 Unit 8 was transmitting at times during
 calibration. ELEVATED READINGS may
 HAVE BEEN RECORDED DURING THIS TIME.
 2145 Returned to IC and all ^(PR) units
 WERE BEING RECEIVED.
 1015 Returned to small church to give
 OSC Patel another multi-RAE. First
 multi-RAE battery ran out. Calibrated
 multi-RAE 095-517536. Post cal.
 check: VOC 93 ppm; CO 54 ppm;
 N₂S 25 ppm; LEL 45%; O₂ 20.9%.
 2300 Contact Andre w/ SWS for this second
 time. (NOTE: Left message 1st time at
 1700). START Pags informed that as
 of 1000 ^(PR) this morning WRS was
 conducting periodic air monitoring.
 Spoke with Kelly Naiburt with SWS and
 he confirmed the change.

Scale: 1 square =

July 25, 2011

2325 START PRYS AND OSC Patel spoke with Kinosh-Margou John Dutt to get URS contract for PERIODIC AIR monitoring. NE DID NOT HAVE IT AT THE TIME BUT WILL PROVIDE IT TO OSC Patel WHEN HE GETS IT.

2345 RETURNED TO ICP. DOWNLOADED ~~sample~~^{SP} monitoring results from AREA-RABS AND UPDATED LOGBOOK. NOTE: MONITORING RESULTS FROM UNIT 8 DID RECORD ELEVATED VOC LEVELS FROM 2117 TO 2131 hrs.

0045 START PRYS OFF-SITE.

~~CP~~
26 July 2011

July 26th Tuesday

7/26/11

0500 AreaRAE results were computed.

0620 Morning briefing

- under flow darts were installed but not completed.
- today high volume/low flow flush will begin in the drainage areas.
- skimmer were brought in.
- 0700 the line will be re-engaged.
- START AreaRAE readings MAX VOC'S = 2.8ppm, LEL = 0% O₂ = 20.9-20.5%
- The recover volume will be recalculated the amount released stands as 750 bbs.
- JIC will handle daily press releases.
- Planning will consider ^{entire} night operations risk/reward. 2) transition federal presence to local agencies.

0700 mtg ends.

0730 setup 2 new repeaters for the antennas

0830 gauged two frac tanks.

tank #1 (gauge yesterday) was the same at 7.5 foot depth & 2 inches of product. Tank #2 was 6.5 feet total wet depth. 1 foot 4" of product.

Did: Fung

7/26/11

MULTI RAE 095-508250 SN# 601

1128 Bump readings, H₂S too high. Cal needed1135 Cal readings H₂S = 25

LEL = 48

O = 20.9

CO = 51

1137 VOC bump = 112

1139 need VOC cal = 98.9 / 97.5 (after cal)

1230 Met with County EPD drinking water manager to look at the faint odor and thin build up of film at the outlet to the by-pass canal. The spill filter strip did not ~~show~~ show a detection of petroleum, pH was neutral. No other color changes observed.

1300 Observed a bird with a rag stick in its mouth. Trying to local wildlife expert for opinion.

1330 Continued site orientation with Pete Johnson & Jeff Rapolti with TB to support Area RAE & multi RAE air monitoring readings.

1501-1530 Lunch.

Duke Fung

Scale: 1 square =

7/26/11

1545^{CP} START RETURNED TO SITE. DISCUSSED NIGHT shift activities.

1600 START JOHNSON OFF-SITE.

1630 START Fung and Rapolti off-site. START PRYS DISCUSSED NIGHT OPS WITH OSC Patel.

Scanned and uploaded Removal Admin.

ORDER to EPA website.

1800 START JOHNSON RETURNED TO SITE.

DISCUSSED NIGHT ACTIVITIES. COORDINATED PERIOD MONITORING WITH Univ. Solutions Joe Matai. Will meet at 1900.

1900 START PRYS AND JOHNSON MET WITH US Matai. DEPARTED SMALL CHURCH TO MEET WITH O'BRIEN'S HOLTON TO DISCUSS ADDING NEW LOCATION TO PERIODIC MONITORING. NEW LOCATION ON EAST SIDE OF RIGA BLVD ^{CP} AT LOCATION OF HOW GARDEN W CHECK DAM. LOCATION II COORDINATES N 27.977972 W-82.346810 AIR MONITORING RESULTS AND ADDITIONAL INFO IN LOGBOOK 2 PGS 4-5.

2045 RETURNED TO RCP. UNITS 5 & 7 WERE DOWN. START PRYS AND JOHNSON WILL CHANGE OUT BATTERIES AND CONDUCT ^{CP}

Gul E. Fung

Scale: 1 square =

7/24/11

2045 bump checks of units. All results of
batt bump checks/calibrations ARE RECORDED
in Logbook 2 on pgs. 4-7.

2310 Changed out REPEATERS at QUEEN Palm
and at overpass.

2345 Returned to RCP. All units on host
WERE RECORRING data.

2400 DOWNLOADED AND SAVED data. Updated
cost tracking sheet.

0030 START Prys and Johnson off-site

Paul L. [Signature]
27 JUN 2011

Scale: 1 square=

Wednesday

7/27/11

0630 Fung arrived at the site. Checked
archives & repeaters. ^{battery} for power.

0730 Reviewed yesterday readings. Highest
VOL was 1Apm.

0900 Soil underflow dam & weir were installed
yesterday. ① War pools were observed and
questioning if oil is being drawn into the pipes.
The touch ball test will be a possible
solution to hold back the oil. ② Mtg w/
EPA identify transition to the State and who
will be lead moving forward.

1030 Observed flushing ops at 1st vac location
behind small church. Small boat with pump &
chase.

1045 observed wooden underflow dam (new) at
big church dirt road to west.

★ 1115 observed drum skimmer on west side of
I-75. Its working well. The booms need to
be tightened up & and key-d into the bank.

★ 1209 ② Falkenberg need drum skimmer at the
wooden weir.

1300 VES confirmed collecting 8 new fish (dead)
at the coconut palm collecting area. 7 bass
& 1 talapia. No sears were seen.

Didi Fung

Scale: 1 square=

7/27/11

1430 START RAPOLTI DEPARTED SITE, START

Johnson COORDINATED PERIODIC MONITORING WITH US MAINT.

NOTE: AT 1400, START FURY CONDUCTED H₂S mtg ADDRESSING NEW ISSUES FROM DAY SHIFT.

1515 START FURY AND PAYS MET WITH OSC

RUSSELL CONCERNING SITE ACTIVITIES. AIR MONITORING (AREA RAES) WILL BE DISCONTINUED AT 0600 ON 7/28/11, START

Johnson and Rapolti HAVE BEEN CUT.

1630 START RAPOLTI DEPARTED DEMOBILIZED.

1700 START JOHNSON DEMOBILIZED.

1730 PUMP 5 AT SMALL CHURCH WAS DOWN.

Pump was on upon arrival. TURNED OFF AND ON TO RESET TRANSMISSION. CHECKED REST OF PUMPS AND REPEATERS. PUMP 4 NEEDS BATTERY CHANGED.

1830 CHANGED OUT BATTERY AND BUMP CHECKED UNIT 4. READINGS SLIGHTLY OUT OF CALIBRATION RANGE. CALIBRATED UNIT 4. VOC 100 ppm; LEL 49%; O₂ 20.9%.

1930 CHANGED OUT ~~sm~~ UNIT 5 BATTERY AT SMALL CHURCH AND DID A BUMP CHECK. VOC 100 ppm. CALIBRATED UNIT 5 FOR

7/27/11

1930 LEL AND O₂. LEL 49% O₂ 21.1%

2025 ARRIVED AT PRODUCT REMOVAL LOCATION NEAR FRACK TANKS ON RIVER INTERNATIONAL DR.

SWS WAS WORKING ON EAST SIDE OF WATERWAY USING A DRAIN SKIMMER. PRODUCT SEEMED ~~to~~ TO BE A THIN LAYER ON WATER SURFACE. ALMED FROM O'BRIEN'S SAID THAT SWS WOULD SWITCH WORK BACK AND FORTH ~~from~~ ON EACH SIDE OF ROAD. APPROX 1 IN LAYER ON WEST SIDE OF ROAD IN WATERWAY INSIDE ABSORBENT BOOMS.

2130 CHANGED OUT OVERPASS AND ANTIEN PALM REPEATERS.

2200 CHANGED OUT BATTERY ON UNIT 8 AND DID BUMP CHECK. LEL 49% O₂ 21.1% VOC 100 ppm. NOTE: UNIT 8 WAS TRANSMITTING AT 2210 DURING BUMP CHECK FOR ALL 3 GASES.

2225 RETURNED TO ECP. ALL UNITS ARE TRANSMITTING AND THE HOST WAS RECEIVING THE DATA. BUMP CHECKED T6 MULTI-RAE 095-508250. VOC 91.4 ppm LEL 52% H₂S 23 ppm CO 50 ppm O₂ 20.9%

2245 CONDUCTED A ROUND OF PERIODIC AIR

7/27/11

2245 monitoring AND changed out battery
in unit 7 at large church and performed
bump check.

Location	Time	VOL	LEL	O ₂	H ₂ S	CO
1	2148	0	0	20.9	0	0
2	2152	0	0	20.9	0	0
3A	2323	0	0	20.9	0	0
3B	2327	1.0	0	20.9	0	0
4A	2330	0.7-1.3	0	20.9	0	0
4B	2333	0.2-0.7	0	20.9	0	0
5	2344	0.7-1.4	0	20.9	0	0
6	2350	0-0.2	0	20.9	0	0
7	2400	0.2-0.4	0	20.9	0	0
11	2039	0.1-0.7	0	20.9	0	0

2300 changed battery AND BUMP CHECKED
unit #7. Results out of calibration
range - Calibrated unit 7. VOL 100 ppm
LEL 49% O₂ 21.0% Note: unit 7
was transmitting during bump check
of VOL at 2307.

2405 RETURNED TO ICP. Unit 5 DOWN AGAIN.
Downloaded data from ARBA RAES.
2430 START PREP off-site.

Scale: 1 square=

Paul E. G. 28 JUL 11

Friday

27
7/27/11

0730 Fung arrives at the Command post at the
Baymont Inn and processed the last days
AreaRAE data.

0900 Met w/ EPA to discuss further demo of
air monitoring equipment back to ATL, GA
and reduce down to one START on
site.

1334 Paul Prys demo from Tampa, FL back
to ATL, GA.

1300 Lunch Break

1330 Back at Baymont. After discussing
field activities with FDEP: 1) the site recovery
efforts are going well 2) wells are being installed
Mango Channel - water body. (indivision 1
using a geoprobe (track-mounted).

1400-1700 posted new photos to the goose website
from the past few days.

1700-1830 Surveyed the recovery locations w/
EPA OSC Gammon + Thunder storms were
active.

1830 End of Day

Scale: 1 square=

7/30/11

Friday

0830 Arrived at the unified command and began posting 16S files posted on OBrien's FTP site.

1200-1300 Lunch break

1300 Began geotagging pics of recovery sites & dams. Posted a few successfully to KML links.

~~1500~~ Continued visiting each division to capture the containment structures with geotagged photos.

1410 @ the end of Mango Channel & the bypass canal. No crews were at this location.

1421 @ pond area at Coconut palm. Crews were working at this location.

1426 @ Riga bleed & crews were working at this location.

1439 @ Cragmont & no crews were working at this location.

1449 @ drainage branch feeding into the channel between Riga & Cragmont. Crews were working in this area.

1500 @ Falkenberg. crews were making modification to the under-flow dam attached to the box culvert & testing out the trailer mounted mini-vac collection system.

Friday

7/30/11

1552 @ air monitoring station 3B east of the staging area near the daycare. No crews were working in this area.

1623 @ air monitoring station 3A. A vac truck was recovering at this location.

1640 - 1800 Began posting the photos (geotagged)

1800 - 1830 Recon performed w/ EPA to observe sweep boom placed at the pond along coconut road.

End of day at 1900.

Robert Fung

07/30/11

SATURDAY

0713- Reported to Unified Command to begin
1000 summarizing resource count for Jardine (BC)

Personnel, equipment, volume recovered,
volume disposed, etc.

1000-1200 Begin scouting for metal underflow dam
close up photos.

1200-1300 Lunch break

1300 Continued photos, documentation. An orsted
bird was picked up and dropped off at the
animal hospital. Crews continue to flush,
recover (vac) and vegetative debris removed.
The large strike excavator was taking out
vegetative matter out of the pond area
by catigrap.

1500 Continued posting new photos to website
& updated spreadsheet to track quantities.

1830 End of day.

Dale Fong

SUNDAY

7/31/11

1200 Visited Coconut Palm and observed
pond scum collecting in the sweep
boom. Workers were clearing a path on the
far side. Heard sounds of a weed wacker

1211 Visited bypass canal. Workers were
changing out the absorbent material.

1230 Talked with CTEH air monitor over by the
bypass canal. Josh was using ArealTE strapped
to top of his car to collect readings along the
set monitoring locations by Mango Channel. He
has not seen any notable readings today.

1250 At Unified Command to continue posting docs
from KM FTP site to EPA's website.

1300-1730 Continued posting KM documents.
End of Day.

Dale Fong

8/1/11

Monday

0800 Arrived at the UC. Just notified that the ankura (bird) ~~died~~ died at the hospital yesterday. Continue to update km documents to EPA website.

1130 STMT completed updates.

1250 Firstaid lunch (1130 to 1200)

1517 @ Division 1 behind small church. Slight sheen seen along south bank. No crews present.

1600 Med sheen seen at Auto way on either side of road. Heavy sheen & oil seen at underflow dam and ~~the~~ dam stream of wooden dam at east side of I-75.

1614 On west side of I-75 steady light to med emulsification showing up. Vac truck is keeping up with the removal.

1644 The pond at Citigumy looks very good. Only slight sheen is getting down stream to Fullenberg Rd.

A med size ~~turtle~~ turtle was seen @ Fullenberg in and out of the sheen. The long stick was moved down queen palm dr towards I-75.

1830 End of day mtg ends.

TUESDAY

8/2/11

0900 Prepare for demo from ste.

1000 Attended meeting with local activist to brief her on the operations & answering any questions.

1130 Briefing ends.

1130-1900 Demo to Duluth, GA

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Logbook 2 of 2
July 2011

2 EPA-TE START Program 7/26/11

Tampa, FL Kinder Morgan Pipeline
Tetra Tech, Inc. EPA Air monitoring Release

Pete Johnson (PJ), Jeff Rigotti (JR)

1205 PJ + JR Swap AR #2 with #4
at Day Care Fence

1212

3A VOC = 0

1220 Change/check Repeater @
overpass

1230 AR #5 at Cont. Mon. ST#2

All readings = 0 except O₂ = 20.9

1245 Cont. Mon. ST#8 AR #17 PJ

LEL drift (radio off)

so bump LEL = 2-0

1253 Calibrate Fresh Air

Calibrate Multi gas

CO 50

Bump Reading

50

H₂S 10

10

LEL 50

50

O₂ 20.9

20.9

1256 Reading O₂ 20.6 (radio on)

H₂S 0

LEL 0

CO 0

VOC 0

Scale: 1 square =

3 7/26/11

1330 Cont. Mon ST #9

AR unit #8

Replace battery

Bump O₂ 20.9

H₂S NA

LEL 46

CO NA

VOC 90.0

Fresh Air cal

Bump VOC 93.7 OK

1350 Didi said AR #8 reading OK

Returned to Belmonte / pickup

Didi / visit Periodic ST's

4A/B, 5, 6

1420 Point 6 PID results:

VOCs = 0.7 ppm

CO = 0 ppm

H₂S = 0 ppm

LEL = 0%

O₂ = 20.9%

No fish kills observed

Plycostamus observed.

Scale: 1 square =

1430 Fish Kill (large mouth Bass) of gravel,
VOCs = 0.7 ppm @ Point #6

Pete Johnson (PJ) Paul Prys (PP)
1900 PJ + PP check Contamon #2

compared w/ Multi RAE = same
except

H₂S = 0

CO = 0

VOC 0.1 - 0.7 generator
running

O₂ = 0 ± 40' away

LEL = 0

Moderate Jet A odor noticed
occasionally in 5 minutes

1940 Start Prys and Johnson conducted
periodic air monitoring with Universal
Solutions Job Matrix.

Location	Time	VOC (ppm)	LEL (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)
1	1946	0	0	20.9	0	0
2	1947	0.5	0	20.9	0	0
3A	1955	0.1-0.8	0	20.9	0	0
3B	2005	6.6	0	20.9	0	0
4A	2010	0.1	0	20.9	0	0
4B	2012	0	0	20.9	0	0
5	2025	0	0	20.9	0	0
6	2034	0	0	20.9	0	0

Scale: 1 square =

Pete Johnson

Location Time VOC (ppm) LEL (%) O₂ (%) H₂S (ppm) CO (ppm)

7 2000 0.1 0 20.9 0 0

11 2020 0 0 20.9 0 0

Note: Location 11 on Riga Blvd (W 27.977972
W - 82.346810) on East side of road.

ADDED By OBRIGU'S ARRON Holton.

Check Dam (Earthen) was installed

on East side of road. Location 5

had absorbant and hoed boom. Metal

sheeting installed across culvert
face to act as a skimmer.

2125 Johnson + Prys Arrive Small
Change battery AR#5 Church
Bump Check!

VOC 100

O₂ 21.1

LEL 55

2155 Johnson Prys arrive at
Big Church AR#7 Replace
Bump Check Battery

VOC 119

O₂ 20.9 (based on Bump
needs Recal)

LEL 83 AR#7

2156 PJ called Paul from Universal Services
to do a round of periodic readings PJ
- left him voicemail

Scale: 1 square =

Paul Prys

7/26/11

2210 Recalibration of AR#7

O₂ 20.8

LEL 49

VOC 99.9

Post Cal Bump Check

VOC 102

LEL 49

O₂ 20.9

2245 Day care Bump check AR#4

VOC ~~64~~ 94.3O₂ 21.2

LEL 64

Multi Sensor Calibration

O₂ 20.9

LEL 50

VOC NA

Post Cal Bump Check

O₂ 20.9

LEL 48

2310 Repeater replaced on light pole
by Daycare

2315 Staybridge AR#8 Bump Check

LEL 48

O₂ 21.3

VOC 100

Scale: 1 square=

D. J. [Signature]

7/26 & 7/27/11

2330 Repeater replaced on
Chain link fence NW corner
of I-75 overpass at top of bank2345 Return to Baymonte and fill out
Calibration logs & check system

July 27, 2011

0500 Jet fuel odor @ Baymont Inn.

— Check Area RAEs from host and

— #5 is down → checking Repeater.

— and #5.

0530 Repeater swapped at I-75 overpass

— ~~64~~

06:30 Reset Radio on #5 = back online

06:45 Backing up data from host.

0700 Bumping #4 at day care center.

0715 Point #7 PID, fuel odor present.

H₂S=0ppm VOCs = 2.3 ppm LEL = 0%O₂ = 20.9% CO = 0 ppm

0725 Point #3A PID results:

VOCs = 1.7 ppm O₂ = 20.9%

LEL = 0% CO = 1 ppm

H₂S = 0 ppm.

D. J. [Signature]

Scale: 1 square=

7/27/11

0730 Point #1 PID results:

- ✓ VOCs = 1.6 ppm $O_2 = 20.9\%$
- ✓ LEL = 0% CO = 2 ppm
- ✓ $H_2S = 0$ ppm Jet fuel odor.

0735 Point #2 PID results

- ✓ VOCs = 2.8 $O_2 = 20.9\%$
- ✓ LEL = 0% CO = 0 ppm
- ✓ $H_2S = 0$ ppm No odors

0744 Point #3B PID results

- ✓ VOCs = 2.1 ppm $O_2 = 20.9\%$
- ✓ LEL = 0% CO = 0 ppm
- ✓ $H_2S = 0$ ppm Jet fuel odor.

0750 Point #4A PID results

- ✓ VOCs = 1.5 ppm $O_2 = 20.9\%$
- ✓ LEL = 0% CO = 0 ppm
- ✓ $H_2S = 0$ ppm Jet fuel odor.

0753 Point #4B PID results.

- ✓ VOC = 1.3 ppm $O_2 = 20.9\%$
- ✓ LEL = 0% CO = 1 ppm
- ✓ $H_2S = 0$ ppm faint Jet fuel odor.
- ✓ Sheen/film on water

0800 Point #11 PID results.

- ✓ VOC = 2.4 ppm $O_2 = 20.9\%$
- ✓ LEL = 0% CO = 0 ppm

$H_2S = 0$ ppm Jet fuel odor.

Scale: 1 square=

7/27/11

0810 Point #5 PID results; fish kill(2)

- ✓ VOCs = 2.0 ppm $O_2 = 20.9\%$
- ✓ LEL = 0% CO = 0 ppm
- ✓ $H_2S = 0$ ppm Jet fuel odor.

0820 Point #6 PID results

- ✓ VOCs = 1.9 ppm $O_2 = 20.9\%$
- ✓ LEL = 0% CO = 0 ppm
- ✓ $H_2S = 0$ ppm Jet fuel odor

Sheen/film on water

0845 #5 Area RAE ratio reset.

0950 Point 7 PID results:

- ✓ VOCs = 1.6 ppm $O_2 = 20.9\%$
- ✓ LEL = 0% CO = 0 ppm
- ✓ $H_2S = 0$ ppm No odor.

1015 Checking repeaters f-course #5 and

#7 are yellow

1050 Contacted Joe of URS to

conduct periodic air quality

samples.

1125 Point #1 PID results:

- ✓ VOCs = 2.7 $O_2 = 20.9\%$
- ✓ LEL = 0% CO = 0 ppm
- ✓ $H_2S = 0$ Jet fuel odor

Sheen/film on water

Scale: 1 square=

7/27/11

1130 Point #2 PID results:

— VOCs = 1.8 ppm O₂ = 20.9%
 — LEL = 0% CO = 0 ppm
 — H₂S = 0 ppm Fuel odor.

1140 Point #3A PID results:

— VOCs = 1.5 ppm O₂ = 20.9%
 — LEL = 0% CO = 0 ppm
 — H₂S = 0 ppm Fuel odor
 — Sheen/film on water.

1150 Point #7 PID results:

— VOCs = 1.6 ppm O₂ = 20.9%
 — LEL = 0% CO = 0 ppm
 — H₂S = 0 ppm No odor

1155 Point #3B PID result:

— VOCs = 2.9 ppm O₂ = 20.9%
 — LEL = 0% CO = 0 ppm
 — H₂S = 0 ppm Fuel odor

1158 Point 4A PID results:

— VOCs = 1.5 ppm O₂ = 20.9%
 — LEL = 0% CO = 0 ppm
 — H₂S = 0 ppm Fuel odor

1200 Point 4B PID results:

— VOCs = 1.6 ppm O₂ = 20.9%
 — LEL = 0% CO = 0 ppm

Scale: 1 square = _____ light fuel odor
 with RD

7/27/11

1207 Point #11 PID results

— VOCs = 1.8 ppm O₂ = 20.9%
 — LEL = 0% CO = 0 ppm
 — H₂S = 0 ppm Fuel odor.

1215 Point #5 PID results

— VOCs = 1.6 ppm O₂ = 20.9%
 — LEL = 0% CO = 0 ppm
 — H₂S = 0 ppm Fuel odor

— 8 dead fish, sheen/film on water.

1225 Point #6 PID results:

— VOCs = 2.1 ppm O₂ = 20.9%
 — LEL = 0% CO = 0 ppm.
 — H₂S = 0 ppm Fuel odor

— Sheen/film on water

1235 Unit 5 went offline at 12:21

— going to check radio.

1250 Area RAE 5 back online

1315 Replacing both repeaters.

1515 P. Johnson met Joe Matri (Universal Solutions)

at Periodic Monitoring Station #1 to

start a ^{air-monitoring} verification run stations 1-9 and

Station 11.

Air monitoring run delayed periodically

by rain storms, over/next page

For results

Scale: 1 square = _____
 D.J. [Signature]

7/27/11

Location	Time	VOL (ppm)	LEL (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)
1	1520	0.1	0	20.9	0	0
2	1525	0.5	0	20.9	0	0
3A	1545	1.5	0	20.9	0	0
3B	1555	1.1-2.3	0	20.9	0	0
4A	1559	1.6	0	20.9	0	0
4B	1600	1.3	0	20.9	0	0
5	Battery failure - did not read 5-16					
6	Battery failure - did not read 5-16					
7	1550	1.2	0	20.9	0	0
11	1605	1.1	0	20.9	0	0

[Handwritten signature]

ENCLOSURE 4

**CLEAN WATER ACT
SECTION 311 DOCUMENTATION**

(Five Pages)

FPN: Not Available
Incident Name: Kinder Morgan Pipeline Release
Location: Tampa, Florida
USCG District: 7, Sector St Petersburg
OSC: Mr. Chris Russell

311: 20 Questions

- 1) Provide the time and date of oil or hazardous substance discharge, and the time and date of discovery that the discharge was reaching or threatening a waterway.

The discharge occurred on July 22, 2011 at approximately 20:45 and at 23:09 it was reported to have impacted the Mango Channel.

- 2) The time and date of the response to the discharge by EPA, START, and the PRP if applicable. Provide the name(s) of any contractor(s) employed.

Kinder Morgan and their contractors (SWS Eagle) responded to the discharge on the evening of July 22, 2011. EPA and START responded to discharge on the afternoon of July 23, 2011.

- 3) The type of discharge (oil or hazardous substances), the type of oil or the chemical name and formula, the total amount of discharge in gallons, barrels, pounds, or kilograms; and the total number of days of discharge. If the solution discharged was a mixture, please give the percentages of substances in the mixture or solution.

According to Kinder Morgan, 820 barrels of jet fuel was discharged before the leak could be stopped.

- 4) The location of the discharge including street address, city, county, and state.

The break in the pipeline was across the street from the First Apostolic Church of Jesus Christ at 10720 East Broadway Avenue, Tampa, Hillsborough County, Florida 33610.

- 5) The description of the facility or vessel from which the material was discharged (i.e. pipeline, tank, well, ship, container, etc.).

The discharge was from a 10" diameter underground pipeline.

- 6) The total storage capacity (gallons, barrels, pounds, kilograms, etc.) of the facility or vessel responsible for the discharge.

Taking into account the uneven pipe inverts, Kinder Morgan estimates approximately 600 barrels had to be removed from the pipeline.

7) Did the oil or hazardous substances discharge into water?

Yes.

- a. Please indicate the location, in relation to the facility or vessel responsible for the discharge, of the first water reached.

The pipeline break was at the location where the buried line intersected the Mango Channel across from the First Apostolic Church of Jesus Christ at 10720 East Broadway Avenue, Tampa, Hillsborough County, Florida 33610.

- b. If not already in water, what is the distance between the source of discharge and the nearest water body?

The pipeline break occurred underwater in the Mango Channel.

- c. Give the quantity of oil or hazardous substances reaching the water.

Approximately, 820 barrels of jet fuel was discharged into the Mango Channel before the leak could be stopped.

- d. Give the quantity of oil or hazardous substances that did not reach the water.

All 820 barrels of jet fuel reached the Mango Channel.

- e. Describe the type of waterway affected (i.e. mudflat, sandflat, wetland, ditch, creek, bayou, tributary, stream, river, lake, etc.). Give the name of the waterway and bodies of water to which it connects.

The Mango Channel connects to the Tampa Bypass Canal which leads to McKay Bay. The Tampa Bypass Canal is a drinking water intake source for the City of Tampa.

- f. Provide a physical description of the receiving waters, including depth, width, and flow rate.

Receiving body 1: The Mango Channel is a concrete culvert approximately 4 feet wide. Its flow rate is dependent on storm water flow.
Receiving body 2: Tampa Bypass Canal is a primary storm water conveyance out of Tampa into McKay Bay. It is 250 ft across and varies in depth. It has an unknown flow rate and is tidally influenced.

Receiving body 3: McKay Bay is tidally influenced.

- g. Indicate if any of the water bodies or connecting water bodies, as described above, are used for commerce, recreation, agriculture, etc.

McKay Bay is bordered by McKay Bay Nature Park, Desoto Park, numerous commercial business, residential housing and marinas. Recreational and commercial fishing take place on the Bay.

- h. List any sensitive environments (i.e. wetlands), endangered species, water wells and/or drinking water intakes impacted or potentially impacted by the discharge.

The Mango Channel does flow through a wetlands restoration area on the Citigroup property. The Tampa Bypass Canal is a drinking water intake source for the City of Tampa. Threatened species include: Bald Eagle, Roseate Spoonbill, Manatee, and Brown Pelican. Habitats impacted include: Fringe Mangrove, Salt Marsh, and extensive Tidal Flat. Wildlife resources in the area include: Migratory Waterfowl, Fishery Habitat, Birds, Osprey, Audubon Park, Brown Pelican, and Roseate Spoonbill.

- 8) Document how this spill violated the Clean Water Act.

Oil was discharged to navigable waters and adjoining shorelines which is prohibited by Section 311 of the CWA.

- 9) Describe in detail what actually caused the discharge.

The U.S. Department of Transportation believes the break in the pipeline was caused by a third party that damaged the line without reporting. This damage caused the eventual break in the line and discharge.

- 10) Describe the damage to public health and the environment as a result of the spill. How many feet, miles, etc., of land and water were affected by the discharge? Was there observed damage to the terrestrial and aquatic biota and vegetation? Were any drinking water intakes forced to close? Were any persons required to evacuate? If yes, describe the damage.

Normal activity of surrounding business, churches, and residents were affected by the cleanup efforts. Approximately 4 miles of the Mango Channel were affected. Dead fish and one bird were observed and collected. A wetland restoration area on the Citigroup property was damaged. No drinking water intakes were forced to close and no evacuations took place.

- 11) Describe the procedures taken to clean up the discharge and to mitigate the environmental damage and public health threats. Include dates and times for the individual procedures.

Kinder Morgan mobilized containment, recovery, and pipeline repair crews to address the discharge beginning on July 22, 2011. An incident management team was started and 5 operational divisions were setup on July 24, 2011. By July 28, 2011 multiple underflow dams were constructed to collect the released fuel. Vacuum trucks and portable vacuum units were utilized to collect the fuel and stored in onsite temporary tanks for disposal. Hard boom and absorbent boom were placed at 11 separate locations along Mango Channel.

- 12) List the federal and state agencies contacted by the owner or operator at the time of the discharge. Also include the agency's location (mailing address, city, county, state), the date and time of notification, and the name of the official contacted.

*The following agencies were contacted.
USCG National Response Center
Department of Homeland Security
USCG (Sector St. Petersburg)
Department of Transportation
US EPA Region 4
Florida Department of Environmental Protection (State Warning Point)
Florida Department of Health
NOAA
NTSB Pipeline
Pipeline & Hazmat Safety Administration
Local Hazmat*

- 13) State whether an SPCC inspection was conducted and describe any findings.

No inspection was conducted, the pipeline is not SPCC regulated.

- 14) Document the spill history of the facility and list the discharges which have occurred at this facility within the past five years using the following table.

DATE	AMT DISCHARGED	AMT IN WATER	SOURCE & CAUSE
------	----------------	--------------	----------------

Not aware of any discharges within the last five years.

- 15) Provide the name, title, home address, and home/work telephone number(s) of the owner(s) of the vessel or facility responsible for the discharge.

See table of witness in the OPA response report Enclosure 7.

- 16) Provide the name, title, home address, and home/work telephone number(s) of the operator(s) of the vessel or facility responsible for the discharge if different from the owner, and the relationship between the owner and operator (i.e. employee, contractor, subcontractor, lessee, etc.)

See table of witness in the OPA response report Enclosure 7.

- 17) Provide the names, titles, home addresses, and home/work telephone numbers of the persons who have knowledge of the facts concerning the spill as an attachment to the report labeled "Table of Witnesses". Include EPA, State, and local officials, START/Strike Team members, other Federal agencies, the company, and the cleanup contractor in the table.

See table of witness in the OPA response report Enclosure 7.

- 18) Does the owner or operator have a National Pollutant Discharge Elimination System (NPDES) permit or any other discharge permit provided by the local, state, or federal government? If yes, name and describe the permit.

Unknown.

- 19) Has the facility ever been assessed a fine for this incident or any other discharge by any other government entity (i.e. city, county, state, federal)? If yes, name the agency or agencies that have assessed a fine(s) on the facility or vessel, and the date(s) when the fine(s) was assessed.

See table of witness in the OPA response report Enclosure 7.

- 20) Include the Federal Project Number on the title (cover) sheet of the incident summary report.

Not available.

ENCLOSURE 5

EPA REMOVAL ADMINISTRATIVE ORDER

(Five Pages)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REMOVAL ADMINISTRATIVE ORDER

UNDER SECTION 311(c) OF THE CLEAN WATER ACT

REGION 4

IN THE MATTER OF Kinder Morgan/Central Florida Pipeline Broadway Avenue Site,
Hillsborough County, Florida

Docket Number: CWA-04-2011-5251

Proceedings under Section 311(c) of the Clean Water Act (CWA), 33 U.S.C. 1321(c)

This Order is issued by the United States Environmental Protection Agency pursuant to the authority vested in the President of the United States by Section 311(c) of the Federal Water Pollution Control Act, 33 U.S.C. 1321 as amended (CWA). This authority has been delegated to the Administrator of the EPA by Executive Order No. 12777, 58 Federal Register 54757 (October 22, 1991), and further delegated to the EPA Regional Administrators by EPA Delegation No (2-89) and to the On-Scene Coordinator by Regional Delegation No (2-89).

In order that the Federal On-Scene Coordinator (OSC) can evaluate the effectiveness of response actions, the Responsible Party (RP) is directed to provide a written estimate of the volume of petroleum product discharged as a result of the pipeline breach adjacent to East Broadway Avenue in Hillsborough County, Florida. The RP is further directed to provide a written estimate of the total liquids recovered thus far. This written response is to state the method of arriving at these estimates, including assumptions and calculations.

This written response shall be submitted to the Federal On-Scene Coordinator within 24 hours of receipt of this directive. If you have any questions or comments, please contact OSC Chris Russell at (850) 274-1575.

“Oil” shall have the meaning set forth in Section 311(a)(1) of the CWA, 33 U.S.C. 1321(a)(1).

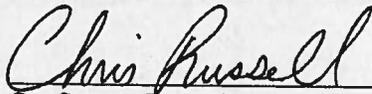
“Discharge” shall have the meaning set forth in Section 311(a)(2) of the CWA, 33 U.S.C. 1321(a)(2)

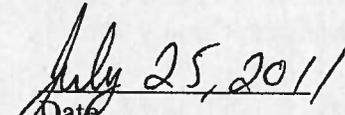
Violation of any term of this Order or oral direction from EPA may subject Respondent to a civil penalty of up to \$37,500 per day of violation or an amount up to three times the cost incurred by the Oil Spill Liability Trust Fund as a result of such failure under Section 311(b)(7)(B) of the CWA, 33 U.S.C. 1321(b)(7)(B).

EFFECTIVE DATE

This Order is effective upon signature by the EPA OSC.

FOR EPA


On-Scene Coordinator


Date

Estimate of volume discharged

The Supervisory and Data Control System (SCADA) enables a pipeline operator to remotely control the starting and stopping of pumps as well as the opening and closing of remote operated valves. In addition to operating various components of the pipeline, the SCADA system collects and retains information related to operating conditions. The SCADA information includes, but is not limited to: operating pressures, flow rates, volume metered into the pipeline at origin, as well as volume measured at the delivery location.

Note that all times referenced in this document are based on pipeline control center operations and are Eastern Standard Time.

In regards to the Central Florida Pipeline (CFPL), the volume measured at the delivery location is compared to the volume injected at the origin to calculate a volumetric variance. This volumetric variance is referred to as the "pipeline overs (positive) and shorts (negative)." Overs and shorts are often attributable to events other than releases including normal operations associated with pipeline startup, pump changes and product changes, as well as metering issues.

Pipelines run in cycles which regarding CFPL, is defined as 5 days. On July 21 at 03:37 a.m. EST CFPL completed cycle 29 and was shut down. At that time, there was no indication of abnormal operations. Prior to the scheduled start-up on the CFPL 10 inch on Thursday, July 21, the pipeline overs and shorts were 80 barrels positive. This is a normal condition attributable to the pump shutting down at origin prior to closing the valve at the destination. After a normal start-up at 11:18 a.m. EST on July, 21 a flow-rate of approximately 1,475 barrels per hour was established and expected pressure readings at Hemlock (800 psi), Auburndale (400 psi), and Orlando (40 psi) were obtained. These pressures and flow rates remained relatively constant until the pipeline was shutdown at 10:30 a.m. EST on July 22; which is indicative of normal operating conditions.

The first overs and shorts report after start-up was at 12:00 a.m. EST on July 21. The report indicated a 44 barrel negative variance. This is a normal operating condition attributable to the pump at origin starting-up and subsequent line pack prior to establishing flow at the destination. The following overs and shorts report at 2:00 a.m. EST indicated a 104 barrel negative variance. Pipeline Controllers continued to monitor the overs and shorts and believed based on their experience that the overs and shorts were the result of a measurement problem because the line pressures and flow rates were constant and therefore not indicating a release. Each subsequent overs and shorts report (calculated at 2 hour intervals) indicated an approximate 30 barrel per hour negative variance. Steps were taken to verify that the meters were accurately capturing the information and when the cause of the overs and shorts issue could not be verified, the pipeline was shut down. CFPL began to conduct a right of way inspection for any evidence of abnormal operating conditions along the entire length of the line between Tampa and Orlando. During the inspection, the control center received a call from a local hazmat team who had discovered the release on July 22 at 7:44 p.m EST.

The cumulative overs and shorts from the time the pipeline was started-up until the time the pipeline was shut down was approximately 714 barrels negative. The initial estimated release volume reported to the National Response Center (NRC) included the total volume from the overs and shorts (714 bbls), and an additional amount to account for any product released after the pipeline was shut down. There was no data available to estimate this drain down amount other than visual observations at the site that product continued to bubble up in the drainage way after the pipeline pumps were shut down. CFPL estimated this amount to be 36 barrels. The total initial release volume was estimated to be 750 barrels (714 barrels plus the 36 barrels).

Amount of Product Remaining In and Removed From the Line

For the amount of product remaining in the line after the shutdown, we calculated the amount of product held between the isolation valves that were closed on either side of the leak location. These valves are noted as Main Line Block Valve #2 and Main Line Block Valve #3. The volume of product between these two valves is 4,578 barrels based on a calculation of the internal volume of the pipeline over the distance between the two valves.

The amount of product removed from the pipeline for the repair is based on the elevation of the pipeline. We only have to remove the volume that may drain out naturally from the nearest pipeline high point in elevation upstream and downstream of the leak point. We estimated that amount would be about 600 barrels. The actual amount vacuumed out was 594 barrels. This material was vacuumed from the pipe into truck trailers. Each truck trailer was then measured by the tank trailer gauge that is built into the trailer.

Total Liquids Recovered To Date

Initial measurements of the recovered product used a standard water/product measurement test utilized in normal tank storage situations, leading us to report an estimated recovered volume of 510 barrels of product July 24. Subsequent testing has shown that because of the very large amount of water being mixed into the product by the vacuuming process, the measurement technique we utilized was inaccurate and gave an erroneously high product recovery volume.

We are tracking the total amount of the water/product mixture gathered by vacuum truck operations. The total amount of water/hydrocarbon mixture gathered from the start of recovery operations on July 22 through 12:01 a.m. EST on July 26 is 201,474 gallons (4797 barrels). This represents the total volume of water/product mixture stored in the four storage tanks on site plus the water received and recorded at the processor. We will continue to provide updates on this process as requested.

We hope this answers all of your questions. CFPL believes that the 750 barrel estimate is valid and we will continue to assess whether we need to update the estimate to both the unified command and the NRC as more data becomes available.

ENCLOSURE 6

NATIONAL RESPONSE CENTER INCIDENT REPORTS

(11 Pages)

NATIONAL RESPONSE CENTER 1-800-424-8802

*** For Public Use ***

Information released to a third party shall comply with any applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 983593

INCIDENT DESCRIPTION

*Report taken at 21:19 on 22-JUL-11

Incident Type: PIPELINE

Incident Cause: UNKNOWN

Affected Area:

The incident occurred on 22-JUL-11 at 20:45 local time.

Affected Medium: LAND BUBBLING FROM SOIL

SUSPECTED RESPONSIBLE PARTY

Organization: KINDER MORGAN
ALPHARETTA, GA 30005

Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

County: HILLSBOROUGH

State: FL

BROADWAY AVE WILLIAMS RD, EAST OF I-75

RELEASED MATERIAL(S)

CHRIS Code: OUN Official Material Name: UNKNOWN OIL

Also Known As: UNKNOWN TYPE OF FUEL OIL

Qty Released: 0 UNKNOWN AMOUNT

DESCRIPTION OF INCIDENT

CALLER IS REPORTING A RELEASE OF AN UNKNOWN FUEL OIL FROM A SUBSURFACE 10 INCH PIPELINE SYSTEM, CAUSE IS UNKNOWN.

INCIDENT DETAILS

Pipeline Type: TRANSMISSION
DOT Regulated: YES
Pipeline Above/Below Ground: BELOW
Exposed or Under Water: NO
Pipeline Covered: UNKNOWN

DAMAGES

Fire Involved: NO Fire Extinguished: UNKNOWN
INJURIES: NO Hospitalized: Empl/Crew: Passenger:
FATALITIES: NO Empl/Crew: Passenger: Occupant:
EVACUATIONS: NO Who Evacuated: Radius/Area:
Damages: NO

<u>Closure Type</u>	<u>Description of Closure</u>	<u>Length of Closure</u>	<u>Direction of Closure</u>	
Air:	N			
Road:	N			Major Artery: N
Waterway:	N			
Track:	N			
Passengers Transferred: NO				

Environmental Impact: UNKNOWN
 Media Interest: NONE Community Impact due to Material:

REMEDIAL ACTIONS

CLEANUP CONTRACTOR EN-ROUTE, COUNTY HAZMAT ON-SCENE
 Release Secured: UNKNOWN
 Release Rate:
 Estimated Release Duration:

WEATHER

Weather: UNKNOWN, °F

ADDITIONAL AGENCIES NOTIFIED

Federal: NONE
 State/Local: HAZMAT
 State/Local On Scene: HAZMAT
 State Agency Number: NONE

NOTIFICATIONS BY NRC

USCG ICC (ICC ONI)
 22-JUL-11 21:24
 DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)
 22-JUL-11 21:24
 U.S. EPA IV (MAIN OFFICE)
 22-JUL-11 21:25
 FLD INTEL SUPPORT TEAM SCTR ST PETE (INTELLIGENCE SPECIALIST)
 22-JUL-11 21:24
 FLORIDA DEPT OF HEALTH (COMMAND CENTER)
 22-JUL-11 21:24
 NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)
 22-JUL-11 21:24
 NOAA RPTS FOR FL (MAIN OFFICE)
 22-JUL-11 21:24
 PIPELINE & HAZMAT SAFETY ADMIN (OFFICE OF PIPELINE SAFETY (AUTO))
 22-JUL-11 21:24
 FL DEM STATE WATCH OFFICE (MAIN OFFICE)
 22-JUL-11 21:24
 MIAMI TACTICAL ANALYTICAL UNIT (FUSION CENTER)
 22-JUL-11 21:24
 USCG DISTRICT 7 (MAIN OFFICE)
 22-JUL-11 21:24

ADDITIONAL INFORMATION

NO ADDITIONAL INFORMATION TO REPORT.

*** END INCIDENT REPORT # 983593 ***

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NATIONAL RESPONSE CENTER 1-800-424-8802

*** For Public Use ***

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Incident Report # 983598

INCIDENT DESCRIPTION

*Report taken at 23:09 on 22-JUL-11

Incident Type: PIPELINE

Incident Cause: UNKNOWN

Affected Area: STREAM (NAME UNKNOWN)

The incident occurred on 22-JUL-11 at 20:45 local time.

Affected Medium: WATER STREAM (NAME UNKNOWN)

SUSPECTED RESPONSIBLE PARTY

Organization: KINDER MORGAN
ALPHARETTA, GA 30005

Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

BROADWAY AVE County: HILLSBOROUGH

WILLIAMS ROAD

City: TAMPA State: FL

EAST OF I-75

RELEASED MATERIAL(S)

CHRIS Code: OUN Official Material Name: UNKNOWN OIL

Also Known As:

Qty Released: 0 UNKNOWN AMOUNT Qty in Water: 0 UNKNOWN AMOUNT

DESCRIPTION OF INCIDENT

THIS IS AN UPDATE TO NRC REPORT 983593. THERE WAS A DISCHARGE OF AN UNKNOWN FUEL OIL FROM A SUBSURFACE 10 INCH PIPELINE SYSTEM. INITIALLY, NO WATER IMPACT WAS REPORTED. THE UPDATE IS THAT WATER HAS BEEN IMPACTED.

INCIDENT DETAILS

Pipeline Type: TRANSMISSION
DOT Regulated: YES
Pipeline Above/Below Ground: BELOW
Exposed or Under Water: NO
Pipeline Covered: UNKNOWN

---SHEEN INFORMATION---

Sheen Color:
Sheen Odor Description: SHEEN INFO UNKNOWN
Sheen Travel Direction:
Sheen Size Length:
Sheen Size Width:

---WATER INFORMATION---

Body of Water: STREAM (NAME UNKNOWN)
Tributary of: RETENTION POND
Nearest River Mile Marker:
Water Supply Contaminated: NO

DAMAGES

Fire Involved: NO Fire Extinguished: UNKNOWN
INJURIES: NO Hospitalized: Empl/Crew: Passenger:
FATALITIES: NO Empl/Crew: Passenger: Occupant:
EVACUATIONS: NO Who Evacuated: Radius/Area:
Damages: NO

Length of Direction of

<u>Closure Type</u>	<u>Description of Closure</u>	<u>Closure</u>	<u>Closure</u>
Air:	N		
Road:	N		Major Artery: N
Waterway:	N		
Track:	N		

Passengers Transferred: NO
 Environmental Impact: UNKNOWN
 Media Interest: NONE Community Impact due to Material:

REMEDIAL ACTIONS

OIL SPILL REMOVAL ORGANIZATION AND HAZMAT TEAM ARE BOTH ON SCENE; THE LINE HAS BEEN ISOLATED.

Release Secured: YES
 Release Rate:
 Estimated Release Duration:

WEATHER

Weather: UNKNOWN, °F

ADDITIONAL AGENCIES NOTIFIED

Federal: US EPA, US DOT (PHMSA)
 State/Local: HAZMAT TEAM
 State/Local On Scene: HAZMAT TEAM, FL DEPT OF ENVIRONMENTAL PR
 State Agency Number: NONE

NOTIFICATIONS BY NRC

DHS NOC (NOC)

22-JUL-11 23:16

USCG ICC (ICC ONI)

22-JUL-11 23:16

DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)

22-JUL-11 23:16

U.S. EPA IV (MAIN OFFICE)

22-JUL-11 23:18

FLD INTEL SUPPORT TEAM SCTR ST PETE (INTELLIGENCE SPECIALIST)

22-JUL-11 23:16

FLORIDA DEPT OF HEALTH (COMMAND CENTER)

22-JUL-11 23:16

NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)

22-JUL-11 23:16

NOAA RPTS FOR FL (MAIN OFFICE)

22-JUL-11 23:16

PIPELINE & HAZMAT SAFETY ADMIN (OFFICE OF PIPELINE SAFETY (AUTO))

22-JUL-11 23:16

SECTOR ST PETERSBURG (MARINE SAFETY OFFICE)

22-JUL-11 23:19

FL DEM STATE WATCH OFFICE (MAIN OFFICE)

22-JUL-11 23:16

MIAMI TACTICAL ANALYTICAL UNIT (FUSION CENTER)

22-JUL-11 23:16

USCG DISTRICT 7 (MAIN OFFICE)

22-JUL-11 23:16

ADDITIONAL INFORMATION

NO ADDITIONAL INFORMATION WAS PROVIDED.

*** END INCIDENT REPORT # 983598 ***

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does it take follow-on incident information. Verification of data and incident response is the sole responsibility of Federal/State On-Scene Coordinators. Data contained within the FOIA Web Database is initial information only. All reports provided via this server are for informational purposes only. Data to be used in legal proceedings must be obtained via written correspondence from the NRC.

NATIONAL RESPONSE CENTER 1-800-424-8802

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Incident Report # 983610

INCIDENT DESCRIPTION

*Report taken at 07:44 on 23-JUL-11

Incident Type: PIPELINE

Incident Cause: UNKNOWN

Affected Area: UNKNOWN NAME OF STREAM

The incident occurred on 22-JUL-11 at 20:45 local time.

Affected Medium: WATER UNKNOWN NAME OF STREAM/ RETENTION POND

SUSPECTED RESPONSIBLE PARTY

Organization: KINDER MORGAN
ALPHARETTA, GA 30005

Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

BROADWAY AVE & WILLIAMS County: HILLSBOROUGH

ROAD

City: TAMPA State: FL

RELEASED MATERIAL(S)

CHRIS Code: OUN Official Material Name: UNKNOWN OIL

Also Known As:

Qty Released: 750 BARREL(S) Qty in Water: 750 BARREL(S)

DESCRIPTION OF INCIDENT

THIS IS AN UPDATE TO NRC REPORT#983598. THE AMOUNT OF MATERIAL IN THIS REPORT WAS 0 UNKNOWN AMOUNT. REPORTING PARTY CONTACTED THE NRC 22 JULY, 2011 AT 07:40 EST. AND STATED THE AMOUNT OF THE SPILL WAS 750 BARRELS. THERE WAS A DISCHARGE OF AN UNKNOWN FUEL OIL FROM A SUBSURFACE 10'' INCH PIPELINE SYSTEM DUE TO UNKNOWN CAUSES.

INCIDENT DETAILS

Pipeline Type: TRANSMISSION

DOT Regulated: YES

Pipeline Above/Below Ground: BELOW

Exposed or Under Water: NO

Pipeline Covered: UNKNOWN

---SHEEN INFORMATION---

Sheen Color:

Sheen Odor Description: NO SHEEN INFORMATION

Sheen Travel Direction:

Sheen Size Length:

Sheen Size Width:

---WATER INFORMATION---

Body of Water: UNKNOWN NAME OF STREAM

Tributary of: RETENTION POND

Nearest River Mile Marker:

Water Supply Contaminated: UNKNOWN

DAMAGES

Fire Involved: NO Fire Extinguished: UNKNOWN

INJURIES: NO Hospitalized: Empl/Crew: Passenger:

FATALITIES: NO Empl/Crew: Passenger: Occupant:

EVACUATIONS: NO Who Evacuated: Radius/Area:

Damages: NO

Length of Direction of

<u>Closure Type</u>	<u>Description of Closure</u>	<u>Closure</u>	<u>Closure</u>
Air:	N		
Road:	N		Major Artery: N
Waterway:	N		
Track:	N		

Passengers Transferred: NO
 Environmental Impact: UNKNOWN
 Media Interest: NONE Community Impact due to Material:

REMEDIAL ACTIONS

OIL SPILL REMOVAL ORGANIZATION AND HAZMAT TEAM ARE BOTH ON SCENE. CALLER STATES CLEAN UP IS UNDERWAY AND THE LINE HAS BEEN ISOLATED.

Release Secured: YES
 Release Rate:
 Estimated Release Duration:

WEATHER

Weather: UNKNOWN, °F

ADDITIONAL AGENCIES NOTIFIED

Federal: US EPA, US DOT
 State/Local: HAZMAT TEAM
 State/Local On Scene: HAZMAT TEAM, FL DEPT. OF ENVIRONMENTAL
 State Agency Number: NO REPORT#

NOTIFICATIONS BY NRC

DHS NOC (NOC)
 23-JUL-11 08:00

USCG ICC (ICC ONI)
 23-JUL-11 08:00

DHS PROTECTIVE SECURITY ADVISOR (PSA DESK)
 23-JUL-11 08:00

DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)
 23-JUL-11 08:00

U.S. EPA IV (MAIN OFFICE)
 23-JUL-11 08:04

FLD INTEL SUPPORT TEAM SCTR ST PETE (INTELLIGENCE SPECIALIST)
 23-JUL-11 08:00

FLORIDA DEPT OF HEALTH (COMMAND CENTER)
 23-JUL-11 08:00

GULF STRIKE TEAM (MAIN OFFICE)
 23-JUL-11 08:00

NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)
 23-JUL-11 08:00

NOAA RPTS FOR FL (MAIN OFFICE)
 23-JUL-11 08:00

NTSB PIPELINE (MAIN OFFICE)
 23-JUL-11 08:00

PIPELINE & HAZMAT SAFETY ADMIN (OFFICE OF PIPELINE SAFETY (AUTO))
 23-JUL-11 08:00

SECTOR ST PETERSBURG (COMMAND CENTER)
 23-JUL-11 08:16

SECTOR ST PETERSBURG (MARINE SAFETY OFFICE)
 23-JUL-11 08:04

FL DEM STATE WATCH OFFICE (MAIN OFFICE)
 23-JUL-11 08:00

MIAMI TACTICAL ANALYTICAL UNIT (FUSION CENTER)
 23-JUL-11 08:00

USCG DISTRICT 7 (MAIN OFFICE)
 23-JUL-11 08:00

ADDITIONAL INFORMATION

CALLER HAD NO ADDITIONAL INFORMATION.

*** END INCIDENT REPORT # 983610 ***

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NATIONAL RESPONSE CENTER 1-800-424-8802

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Incident Report # 984890

INCIDENT DESCRIPTION

*Report taken at 11:04 on 04-AUG-11

Incident Type: PIPELINE

Incident Cause: UNKNOWN

Affected Area: UNKNOWN STREAM

The incident occurred on 22-JUL-11 at 20:45 local time.

Affected Medium: WATER UNKNOWN STREAM/ RETENTION POND

SUSPECTED RESPONSIBLE PARTY

Organization: KINDER MORGAN
ALPHARETTA, GA 30005

Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

County: HILLSBOROUGH

City: TAMPA State: FL

BROADWAY AVE & WILLIAMS ROAD

RELEASED MATERIAL(S)

CHRIS Code: OUN Official Material Name: UNKNOWN OIL

Also Known As:

Qty Released: 820 BARREL(S) Qty in Water: 820 BARREL(S)

DESCRIPTION OF INCIDENT

THIS IS AN UPDATE TO NRC REPORT#983610. THE AMOUNT OF MATERIAL IN THIS REPORT WAS 750 BARRELS. REPORTING PARTY CONTACTED THE NRC 04 AUGUST, 2011 AT 11:00 EST AND STATED THE AMOUNT OF THE SPILL WAS 820 BARRELS. THERE WAS A DISCHARGE OF AN UNKNOWN FUEL OIL FROM A SUBSURFACE 10'' INCH PIPELINE SYSTEM DUE TO UNKNOWN CAUSES.

INCIDENT DETAILS

Pipeline Type: TRANSMISSION

DOT Regulated: YES

Pipeline Above/Below Ground: BELOW

Exposed or Under Water: NO

Pipeline Covered: UNKNOWN

---SHEEN INFORMATION---

Sheen Color:

Sheen Odor Description: NO SHEEN INFORMATION

Sheen Travel Direction:

Sheen Size Length:

Sheen Size Width:

---WATER INFORMATION---

Body of Water: UNKNOWN STREAM

Tributary of: RETENTION POND

Nearest River Mile Marker:

Water Supply Contaminated: UNKNOWN

DAMAGES

Fire Involved: NO Fire Extinguished: UNKNOWN

INJURIES: NO Hospitalized: Empl/Crew: Passenger:

FATALITIES: NO Empl/Crew: Passenger: Occupant:

EVACUATIONS: NO Who Evacuated: Radius/Area:

Damages: NO

<u>Closure Type</u>	<u>Description of Closure</u>	<u>Length of Closure</u>	<u>Direction of Closure</u>
Air:	N		
Road:	N		Major Artery: N
Waterway:	N		
Track:	N		

Passengers Transferred: NO
 Environmental Impact: UNKNOWN
 Media Interest: NONE Community Impact due to Material:

REMEDIAL ACTIONS

OIL SPILL REMOVAL ORGANIZATION AND HAZMAT TEAM ARE BOTH ON SCENE. CALLER STATES CLEAN UP IS UNDERWAY AND THE LINE HAS BEEN ISOLATED.

Release Secured: YES
 Release Rate:
 Estimated Release Duration:

WEATHER

Weather: UNKNOWN, °F

ADDITIONAL AGENCIES NOTIFIED

Federal: EPA. DOT
 State/Local: HAZMAT TEAM
 State/Local On Scene: HAZMAT TEAM, FL DEP
 State Agency Number: NONE

NOTIFICATIONS BY NRC

DHS NOC (NOC)
 04-AUG-11 11:25

USCG ICC (ICC ONI)
 04-AUG-11 11:25

DHS PROTECTIVE SECURITY ADVISOR (PSA DESK)
 04-AUG-11 11:25

DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)
 04-AUG-11 11:25

U.S. EPA IV (MAIN OFFICE)
 04-AUG-11 11:27

FLD INTEL SUPPORT TEAM SCTR ST PETE (INTELLIGENCE SPECIALIST)
 04-AUG-11 11:25

FLORIDA DEPT OF HEALTH (COMMAND CENTER)
 04-AUG-11 11:25

GULF STRIKE TEAM (MAIN OFFICE)
 04-AUG-11 11:25

NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)
 04-AUG-11 11:25

NOAA RPTS FOR FL (MAIN OFFICE)
 04-AUG-11 11:25

NRC SENIOR WATCH OFFICER (MAIN OFFICE)
 04-AUG-11 11:27

NTSB PIPELINE (MAIN OFFICE)
 04-AUG-11 11:25

PIPELINE & HAZMAT SAFETY ADMIN (OFFICE OF PIPELINE SAFETY (AUTO))
 04-AUG-11 11:25

SECTOR ST PETERSBURG (MARINE SAFETY OFFICE)
 04-AUG-11 11:29

FL DEM STATE WATCH OFFICE (MAIN OFFICE)
 04-AUG-11 11:25

MIAMI TACTICAL ANALYTICAL UNIT (FUSION CENTER)

04-AUG-11 11:25
USCG DISTRICT 7 (MAIN OFFICE)
04-AUG-11 11:25

ADDITIONAL INFORMATION

THIS IS AN UPDATE TO NRC REPORT NUMBER 983610.

*** END INCIDENT REPORT # 984890 ***

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ENCLOSURE 7

TABLE OF WITNESSES

(One Page)

Table 2
Table of Witnesses

Name	Title	Organization	Office Address	Office Number	Cellular Number	Email Address
Greg Dempsey	Responsible Party Incident Commander (RPIC)	Kinder Morgan	1100 Alderman Drive, Ste 200, Alpharetta, GA 30005		770.841.1026	greg_dempsey@kindermorgan.com
Richard Krejci	Responsible Party Incident Commander (RPIC)	Kinder Morgan			770.853.1896	rick_krejci@kindermorgan.com
Clint Lonon	Responsible Party Incident Commander (RPIC)	Kinder Morgan	2101 GATX Drive, Tampa, FL 33605	813.241.1106	813.458.9341	clint_lonon@kindermorgan.com
Joe Hollier	Public Information Officer (POI)	Kinder Morgan			713.823.5419	joe_hollier@kindermorgan.com
Aaron Holton	Operations Section Chief	O'brian's Response Management			985.290.6634	aaron.holton@obriensrm.com
Rick Jardine	Federal On-Scene Coordinator (FOSC)	Environmental Protection Agency (EPA)	61 Forsyth Street, Atlanta, GA 30303	404.562.8754	404.386.4657	jardine.richard@epa.gov
Chris Russell	Federal On-Scene Coordinator (FOSC)	Environmental Protection Agency (EPA)			850.274.1575	russell.chris@epa.gov
Jamie Arleo	State On-Scene Coordinator (SOSC)	Florida Department of Environmental Protection (FDEP)	13051 North Telecom Parkway, Temple Terrace, FL 33637-0926	813.632.7641	813.267.3561	jamie.arleo@dep.state.fl.us
Jeff Tobergte	State On-Scene Coordinator (SOSC)	Florida Department of Environmental Protection (FDEP)	13051 North Telecom Parkway, Temple Terrace, FL 33637-0926	813.632.7669	813.267.3521	jeff.tobergte@dep.state.fl.us
David Karlen		Hillsborough Co. Environmental Protection Commision (EPC)	3629 Queen Palm Dr, Tampa, FL 33619-1309	813.272.7104	813.393.9547	karlen@epchc.org
Alain Watson		Hillsborough Co. Environmental Protection Commision (EPC)	3629 Queen Palm Dr, Tampa, FL 33619-1309	813.627.2600	813.393.9547	watsona@epchc.org
Doug Shirley	Captian	Hillsborgh Co. Fire Rescue	3225 N. Falkenburg Rd., Tampa, FL		813.393.9547	
Didi Fung	Superfund Technical Assessment and Response Team (START)	Tetra Tech EM Inc.	1955 Evergreen Blvd, Duluth, GA 30096	678.775.3095	678.773.5660	dd.fung@tetrattech.com
Paul Prys	Superfund Technical Assessment and Response Team (START)	Tetra Tech EM Inc.	1955 Evergreen Blvd, Duluth, GA 30096	678.775.3106	404.849.7136	paul.prys@tetrattech.com