Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:16 PM
To: Pressley, Miriam
Subject: Fw: Emergency ESA Consultation on Colonial CR-251 [WARNING: DKIM validation failed]

From: Ford, Anthony <anthony_ford@fws.gov>
Sent: Tuesday, January 3, 2017 3:25 PM
To: Buerki, Karen; Booth, Jason
Cc: Jeff Powell; John Rawls; Greg Masson; Joyce_Stanley@ios.doi.gov
Subject: Re: Emergency ESA Consultation on Colonial CR-251 [WARNING: DKIM validation failed]

Karen,

I was wanting to follow up with you regarding a formal emergency consultation for Colonial CR-251 and again offer my assistance. As stated previously, it is likely at least one or more T&E species were directly affected. Formal consultation will likely need to be initiated with the Service. When you have time, I'd like to give you a call to see where we can assist.

For additional guidance, refer to the inter-agency MOA online at: https://www.fws.gov/southeast/es/pdf/OilSpillContingency2.pdf.

www.fws.gov

www.fws.gov

Author: KONICA MINOLTA 920 Created Date: 20080722001433Z

A guidebook for the MOA can also be downloaded at: https://www.nrt.org/sites/2/files/MOATrainingManualVersion02.pdf.

Inter-agency Memorandum of Agreement Regarding Oil Spill ...

www.nrt.org

Inter-agency Memorandum of Agreement Regarding Oil Spill Planning and Response Activities Under the Federal Water Pollution Control Act's National Oil and

Andy

Anthony "Andy" Ford
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
Alabama Ecological Services Field Office
1208-B Main Street
Daphne, AL 36526
(251) 441-5838 (O)
(251) 441-6222 (F)
https://www.fws.gov/daphne/

This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

On Tue, Nov 8, 2016 at 3:40 PM, Ford, Anthony <anthony_ford@fws.gov> wrote:
Karen,

Good talking to you on the phone this morning. As we discussed this morning, we would recommend emergency ESA consultation for the expected take of listed snails from the placement and retrieval of precautionary boom during the response. I went out on site with Joe and Kirk with EPS on Friday to all of the booming sites, noted listed snails and/or habitat at the sites (see attached photos), and advised them on ways to minimize impacts to listed snails during the retrieval of boom.

According to the Section 7 Consultation Handbook, you as the action agency should initiate consultation by submitting a description of the emergency; a justification for the expedited consultation; and an evaluation of the response to and the impacts of the emergency on affected species and their habitats, including documentation on how the Services' recommendations were implemented, and results of implementation in minimizing take.

I asked Joe Nicolette to assist you in summarizing these things within a biological assessment. This document should assist us in our writing a formal consultation on the emergency. I'll help Joe with any survey information that we have in these area for baseline.

Please contact me with any questions you may have.

Thanks,
Andy

Anthony "Andy" Ford
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
Alabama Ecological Services Field Office

1208-B Main Street
Daphne, AL 36526
(251) 441-5838 (O)
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Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:14 PM
To: Pressley, Miriam
Subject: Fw: Colonial Pipeline

From: Prys, Paul <Paul.Prys@tetratech.com>
Sent: Thursday, December 15, 2016 12:59 PM
To: Buerki, Karen
Subject: RE: Colonial Pipeline

Sounds good.

From: Buerki, Karen [mailto:Buerki.Karen@epa.gov]
Sent: Thursday, December 15, 2016 12:59 PM
To: Prys, Paul <Paul.Prys@tetratech.com>
Subject: Re: Colonial Pipeline

Hi Paul,

We should at least do an analytical report for the samples we collected. Anything beyond that I would like to be consistent with the prior Colonial spill Chuck led.

Sound good to you?

Karen

Sent from my iPhone

On Dec 15, 2016, at 12:27 PM, Prys, Paul <Paul.Prys@tetratech.com> wrote:

> Karen,
>
> Just wanted to follow up with you on Colonial Pipeline. Do you want a report for that response or is there anything more you would like to do with that project? If not on either one, is it okay if we begin project closeout?
>
> Just let me know when you get a chance.
>
> Hope all is going well!
>
> Paul Prys | Senior Environmental Scientist/Project Manager
> Direct: 678.775.3106 | Cell: 404.849.7136 | Fax: 678.775.3138
> paul.prys@tetratech.com
>
> Tetra Tech | Atlanta Office

1955 Evergreen Blvd. Bldg. 200, Ste. 300, Duluth, GA 30096 www.tetratech.com | NASDAQ:TTEK

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Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:13 PM
To: Pressley, Miriam
Subject: Fw: Emergency ESA Consultation on Colonial CR-251 [WARNING: DKIM validation failed]

From: Joe Nicolette <jnicolette@envplanning.com>
Sent: Tuesday, November 22, 2016 9:06 AM
To: Buerki, Karen
Subject: RE: Emergency ESA Consultation on Colonial CR-251 [WARNING: DKIM validation failed]

Hi Karen, do you have a second to give me a call? I can best be reached at (b)(6) . Thanks, Joe

Joseph Nicolette
Senior Principal
PLEASE NOTE NEW CONTACT INFORMATION
Direct: (678) 336-8554
(b)(6)
jnicolette@envplanning.com

NOTICE: This communication may contain privileged or other confidential information. If you are not the intended recipient, or believe that you have received this communication in error, please do not print, copy, retransmit, disseminate, or otherwise use the information. Also, please indicate to the sender that you have received this communication in error, and delete the copy you received. Thank you.

From: Ford, Anthony [mailto:anthony_ford@fws.gov]
Sent: Tuesday, November 08, 2016 4:40 PM
To: Buerki.Karen@epa.gov; booth.jason@epa.gov
Cc: Joe Nicolette <jnicolette@envplanning.com>; Kirk Kessler <KKessler@envplanning.com>; Jeff Powell <jeff_powell@fws.gov>; John Rawls <john_rawls@fws.gov>; Greg Masson <greg_masson@fws.gov>; Joyce Stanley <joyce_stanley@ios.doi.gov>
Subject: Emergency ESA Consultation on Colonial CR-251

Karen,

Good talking to you on the phone this morning. As we discussed this morning, we would recommend emergency ESA consultation for the expected take of listed snails from the placement and retrieval of precautionary boom during the response. I went out on site with Joe and Kirk with EPS on Friday to all of the booming sites, noted listed snails and/or habitat at the sites (see attached photos), and advised them on ways to minimize impacts to listed snails during the retrieval of boom.

According to the Section 7 Consultation Handbook, you as the action agency should initiate consultation by submitting a description of the emergency; a justification for the expedited consultation; and an evaluation of the response to and the impacts of the emergency on affected species and their habitats, including

documentation on how the Services' recommendations were implemented, and results of implementation in minimizing take.

I asked Joe Nicolette to assist you in summarizing these things within a biological assessment. This document should assist us in our writing a formal consultation on the emergency. I'll help Joe with any survey information that we have in these area for baseline.

Please contact me with any questions you may have.

Thanks,
Andy

Anthony "Andy" Ford
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
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Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:12 PM
To: Pressley, Miriam
Subject: Fw: Trinity Highway Products Sulfuric Acid Spill

From: Joyce Stanley <joyce_stanley@ios.doi.gov>
Sent: Sunday, November 20, 2016 7:44 PM
To: Buerki, Karen
Subject: RE: Trinity Highway Products Sulfuric Acid Spill

Hello Karen,

Pls email me the latest SITREPs for the last Colonial spill. I'm unable to access EPA OSC website. Getting message "access denied" after changing my password. I assume I had too many attempts.

Thanks,

From: Buerki, Karen [mailto:Buerki.Karen@epa.gov]
Sent: Sunday, November 20, 2016 6:52 PM
To: Joyce_Stanley@ios.doi.gov
Cc: Williamson, Carter <Williamson.Carter@epa.gov>
Subject: Trinity Highway Products Sulfuric Acid Spill

Joyce,

There was a fish kill in an unnamed tributary of the Edisto River as a result of this spill on Saturday. I sent OSC Carter Williamson to it and SCDHEC also responded.

Karen Buerki

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:12 PM
To: Pressley, Miriam
Subject: Fw: Resending PRFA request
Attachments: Colonial Pipeline 2_2016.pdf; Form_7600A Colonial_ 2_2016.pdf

---

From: Buerki, Karen
Sent: Friday, November 18, 2016 12:58 PM
To: Buerki, Karen
Subject: FW: Resending PRFA request

From: Masson, Greg [mailto:greg_masson@fws.gov]
Sent: Monday, November 07, 2016 7:01 AM
To: Buerki, Karen <Buerki.Karen@epa.gov>
Cc: Anthony Ford <anthony_ford@fws.gov>; Jeff Powell <jeff_powell@fws.gov>; Joyce_Stanley@ios.doi.gov
Subject: Resending PRFA request

Karen,

Joyce just let me know you didn't receive this. My apologies I sent it last week to you and Kevin. I have used the cost estimation tool that was accepted by the USCG and using the Dept. of Treasury 7600A form.

The form still has the original name of the OSC I was given so I apologize

Please let me know if you have any questions. I didn't get a chance to recheck this as I was hit from behind on my way to work and suffered a concussion and did not check e-mails or go back to work.

Thank you,

Greg

--
Greg R. Masson, Ph.D.
Regional Environmental Quality / Spill / NRDA Coordinator
Southeast Region US FWS
1875 Century Blvd, Suite 200
Atlanta GA 30345
(404) 679-7223 office
(b) (6) [redacted] cell
(404) 895-7093 spill phone

(404) 679-7081 fax
Greg_Masson@fws.gov

****

All things are connected. Whatever befalls the earth befalls the sons of the earth.
Man did not weave the web of life, he is merely a strand in it. Whatever he does to the web, he does to himself.

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United States Fish and Wildlife Service

COLONIAL PIPLINE (LINE 1)

Summary Report

Cost Category		Amount
Labor and Benefits		$10,437.00
Travel		$700.00
Contracts		$50,000.00
Supplies and Equipment		$0.00
Land and Structures		$0.00
Vehicles		$0.00
FWS Indirect Support		$12,386.99
DOI Indirect Support		$0.00
TOTAL PROJECT COSTS w/ inflation		**$73,523.99**
Contingency Costs	10.00%	**$7,352.40**
TOTAL PROJECT COST with Contingency		**$80,876.39**

Calculation Scenario: DEFAULT SPILL RESPONSE

Wednesday, November 02, 2016

UNITED STATES GOVERNMENT
INTERAGENCY AGREEMENT (IAA)
Agreement Between Federal Agencies
General Terms & Conditions (GT&C) Section

BUREAU OF THE
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IAA Number _____ GT&C # _____ Order # _____ Amendment # / Mod #

DEPARTMENT AND/OR AGENCY		
1.	**Requesting Agency of Products / Services**	**Servicing Agency Providing Products / Sevices**
Name	Greg R. Masson	US Fish and Wildlife Service
Address	1875 Century Blvd. Atlatna, GA, 30345	

2. Servicing Agency Tracking Number (Optional) : _____

3. Assisted Acquisition Agreement ☐ **Yes** ☐ **No**

4. GT&C Action (Check action being taken)

☑ **New**

☐ **Amendment** - Complete only the GT&C blocks being changed and explain the changes being made.

☐ **Cancellation** - Provide a brief explanation for the IAA cancellation and complete the effective End Date.

5. Agreement Period Start Date _____ (MM-DD-YYYY) End Date _____ (MM-DD-YYYY) of IAA or effective cancellation date

6. Recurring Agreement (Check One) A Recurring Agreement will continue, unless a notice to discontinue is received

☐ Yes If **Yes**, this is an: Annual Renewal ☐ Other Renewal ☐ State the other renewal period: _____

☑ No

7. Agreement Type (Check One) ☑ Single Order IAA ☐ Multiple Order IAA

8. Are Advance Payments Allowed for this IAA (Check One) ☐ Yes ☑ No

If **Yes** is checked, enter Requesting Agency's Statutory Authority Title and Citation

Note: Specific advance amounts will be captured on each related order.

UNITED STATES GOVERNMENT
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IAA Number _____ GT&C # _____ Order # _____ Amendment # / Mod #

9. Estimated Agreement Amount (The Servicing Agency completes all information for the estimated agreement amount)

(Optional for assisted Acquisitions)

Direct Cost	$73,523.99	Provide a general explanation of the Overhead Fees and Charges This is overhead for administrative work and contingency costs if the direct costs are exceeded.
Overhead Fees & Charges	$7,352.40	
Total Estimated Amount	$80,876.39	

10. STATUTORY AUTHORITY

a. Requesting Agency's Authority (Check One)

Franchise Fund	Revolving Fund	Working Capital Fund	Economy Act (31 U.S.C. 1535 / FAR 17.5)	Other Authority
☐	☐	☐	☐	☑

Fill in Statutory Authority Title and Citation for Franchise Fund, Revolving Fund, Working Capital Fund, or Other Authority

Oil Spill Liability Trust Fund

b. Servicing Agency's Authority (Check One)

Franchise Fund	Revolving Fund	Working Capital Fund	Economy Act (31 U.S.C. 1535 / FAR 17.5)	Other Authority
☐	☐	☐	☐	☑

Fill in Statutory Authority Title and Citation for Franchise Fund, Revolving Fund, Working Capital Fund, or Other Authority

Oil Pollution Act

11. Requesting Agency's Scope (State and/or List Attachments that support Requesting Agency's Scope.)

A PRFA is being requested to fund USFWS's participation in the response to the Colonial pipeline (line 1) explosion and gasoline spill. There are known threatened and endangered species in the immediate vicinity of the site. This agreement will fund the USFWS's ability to conduct site visits, conduct surveys of potentially impacted Threatened or Endangered species, provide technical assistance to the Unified Command, participate in Emergency Section 7 Endangered Species Act consultation work, collect ephermeral data, and take custody of deceased wildlife under Federal trust responsibilities, and review and

12. Roles and Responsibilities for the Requesting Agency and the Servicing Agency (State and/or list attachments for the roles and responsibilities for the Requesting Agency and the Servicing Agency)

A PRFA is being requested to fund USFWS's participation in the response to the Colonial pipeline (line 1) explosion and gasoline spill. This agreement will fund the USFWS's ability to conduct site visits, conduct surveys of potentially impacted Threatened or Endangered species, provide technical assistance to the Unified Command, participate in Emergency Section 7 Endangered Species Act consultation work, collect ephermeral data, and take custody of deceased wildlife under Federal trust responsibilities, and review and comment documents associated with wildlife response and rehabilitation, in accordance with our responsibilities under the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. et seq.), the Migratory Bird Treaty Act of 1918 (40 Stat. 755, as amended; 16 U.S.C. 703 et seq.), and the Endangered Species Act of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).
This PRFA will be enough for the estimated four weeks of time

IAA Number _____ GT&C # _____ Order # _____ Amendment # / Mod #

13. Restrictions (Optional) (State and/or attach unique requirements and/or mission specific restrictions specific to this IAA).

14. Assisted Acquisition Small Business Credit Clause (The Servicing Agency will allocate the socio-economic credit to the Requesting Agency for any contract actions it has executed on behalf of the Requesting Agency).

15. Disputes: Disputes related to this IAA shall be resolved in accordance with instructions provided in the Treasury Financial Manual (TFM) Volume I, Part 2, Chapter 4700, Appendix 10; Intragovernmental Transaction (IGT) Guide.

16. Termination (Insert the number of days that this IAA may be terminated by written notice by either the Requesting or Servicing Agency.)

If this agreement is cancelled, any implementing contract/order may also be canceled. If the IAA is terminated, the agencies shall agree to the terms of the termination, including costs attributable to each party and the disposition of awarded and pending actions.
If the Servicing Agency incurs costs due to the Requesting Agency's failure to give the requisite notice of its intent to terminate the IAA, the Requesting Agency shall pay any actual costs incurred by the Servicing Agency as a result of the delay in notification, provided such costs are directly attributable to the failure to give notice.

17. Assisted Acquisition Agreements - Requesting Agency's Organizations Authorized to Request Acquisition Assistance for this IAA (State or attach a list of Requesting Agency's organizations authorized to request acquistion assistance for this IAA.

18. Assisted Acquisition Agreements - Servicing Agency's Organizations Authorized to Request Acquisition Assistance for this IAA (State or attach a list of Servicing Agency's organizations authorized to request acquistion assistance for this IAA.)

19. Requesting Agency Clause(s) (Optional) (State and/or attach any additional Requesting Agency clauses.)

20. Servicing Agency Clause(s) (Optional) (State and/or attach any additional Servicing Agency clauses.)

UNITED STATES GOVERNMENT
INTERAGENCY AGREEMENT (IAA)
Agreement Between Federal Agencies
General Terms & Conditions (GT&C) Section

BUREAU OF THE
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LEAD. TRANSFORM. DELIVER.

IAA Number _____ GT&C # _____ Order # _____ Amendment # / Mod #

21. Additional Requesting Agency and/or Servicing Agency Attachments (Optional) (State and/or attach any additional Requesting Agency and/or Servicing Agency Attachments)

22. Annual Review of IAA
By signing this agreement, the parties agree to annually review the IAA if the agreement period exceeds one year. Appropriate changes will be made by amendment to the GT&C and/or modification to any affected Order(s).

AGENCY OFFICIAL

The Agency Official is the highest level accepting authority or official as designated by the Requesting Agency and Servicing Agency to sign this agreement. Each Agency Official must ensure that the general terms and conditions are properly defined, including the stated statutory authorities, and, that the scope of work can be fulfilled as per the agreement.

The Agreement Period Start Date (Block 5) must be the same as or later than the signature dates.

Actual work for this IAA may NOT begin until an Order has been signed by the appropriate individuals, as stated in the Instructions for Blocks 37 and 38.

23.	**Requesting Agency**	**Servicing Agency**
Name		
Title		
Telephone Number(s)		
Fax Number		
Email Address		
SIGNATURE	GREGORY MASSON Digitally signed by GREGORY MASSON Date: 2016.11.07 06:58:12 -05'00'	
Approval Date		

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:11 PM
To: Pressley, Miriam
Subject: Fw: Colonial Pipeline 20Q
Attachments: 20 Questions Colonial Rupture.doc

From: Masterson, Chris
Sent: Friday, November 18, 2016 10:29 AM
To: Buerki, Karen
Subject: FW: Colonial Pipeline 20Q

Christopher Masterson, Administrative Assistant
SAIC Contractor with EPA

Emergency Response, Removal, and Prevention Branch (ERRPB)
61 Forsyth Street 11th Fl
Atlanta, GA 30303
Office: 404-562-8706
Cell: 678-644-6538
Fax: 404-562-8701
Email: masterson.christopher@epa.gov

From: Booth, Jason
Sent: Friday, November 04, 2016 12:51 AM
To: Masterson, Chris <Masterson.Christopher@epa.gov>
Subject: Colonial Pipeline 20Q

FPN: E17404
Incident Name: Colonial Gasoline Pipeline Rupture and Fire
Location: Pelham, Shelby County, Alabama
USCG District: 8th District
OSC: Karen Buerki

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.

   Gasoline pipeline was punctured during repair operations at 1455 EST on Oct 31, 2016.

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.

   OSC Karen Buerki and (TetraTech) START were mobilized at 1800 EST on Oct 31, 2016.

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.

   Approximately 1,500 gallons spilled from the pipeline. The ongoing fire was burning off a majority of the fuel.

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

   -87.006394 Long, 33.204249 Lat. Discharge occurred in Pelham, Shelby County, Alabama.

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

   Pipeline

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

   4,000 barrels.

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

   No

FPN: E17404
Incident Name: Colonial Gasoline Pipeline Rupture and Fire
Location: Pelham, Shelby County, Alabama
USCG District: 8th District
OSC: Karen Buerki

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

A drainage ditch which feeds into a pond is located approximately 200 yards south of the explosion area. The pond feeds into the Cahaba River. Another drainage ditch travels north and feeds into Shades Creek which feeds into the Cahaba River.

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

Cahaba River is approximately 1 mile from the pipeline rupture.

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

No gasoline has reached water at this point.

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

4,000 barrels

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.

See above (a)

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

The two drainage ditches are shallow and dry.

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

The Cahaba River is used for recreation and agriculture.

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

Endangered clams are located approximately 5 miles downstream on the Cahaba River.

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

Gasoline discharge that could potentially impact water.

9) Describe in detail what actually caused the discharge.

A Colonial repair team was conducting work and ruptured the pipeline which caused an explosion killing at least one person.

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.

Smoke from the fire caused one residence to evacuate. Vegetation in the area was burned from the fire. Soil has been impacted from gasoline that discharged from the pipeline.

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.

Crews are letting the fire burn up as much of the remaining product in the damaged section of the pipeline for safety reasons. Earthen dams have been installed in the dry drainage ditches and boom has been installed on the Cahaba River as preventative measures.

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 and state), the date and time of notification, and the name of the official contacted.

Colonial notified the NRC at 1656 on Oct 31, 2016.

FPN: E17404
Incident Name: Colonial Gasoline Pipeline Rupture and Fire
Location: Pelham, Shelby County, Alabama
USCG District: 8th District
OSC: Karen Buerki

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

No

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
9/9/2016	**6,000 barrels**	**unknown**	**leak**

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.

Colonial Pipeline
1185 Sanctuary Pkwy #100
Alpharetta GA 30009

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.)

Same as above

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 below

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.

No

FPN: E17404
Incident Name: Colonial Gasoline Pipeline Rupture and Fire
Location: Pelham, Shelby County, Alabama
USCG District: 8th District
OSC: Karen Buerki

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.

Unknown

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

FPN: E17404
Incident Name: Colonial Gasoline Pipeline Rupture and Fire
Location: Pelham, Shelby County, Alabama
USCG District: 8th District
OSC: Karen Buerki

Name	Title	Address	Office Number	Cell Number
Karen Buerki	OSC	Atlanta GA	404-562-8747	
Paul Rogers	ADEM	Birmingham AL	205-438-1055	

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:10 PM
To: Pressley, Miriam
Subject: Fw: Emergency ESA Consultation on Colonial CR-251 [WARNING: SPF validation failed]

From: Joe Nicolette <jnicolette@envplanning.com>
Sent: Thursday, November 10, 2016 10:42 AM
To: Buerki, Karen
Subject: RE: Emergency ESA Consultation on Colonial CR-251 [WARNING: SPF validation failed]

Hi Karen,

Hope that you are well. We met briefly at the Incident Command for CR251 (in regards to the water sampling plan). Per Andy's email below, I wanted to have a brief discussion with you in regards to the path forward.

Can you email me your contact information? I can also be reached best by cell at 678-451-8288.

Thanks, Joe

Joseph Nicolette
Senior Principal
PLEASE NOTE NEW CONTACT INFORMATION
Direct: (678) 336-8554
Cell: (b)(6)
jnicolette@envplanning.com

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From: Ford, Anthony [mailto:anthony_ford@fws.gov]
Sent: Tuesday, November 08, 2016 4:40 PM
To: Buerki.Karen@epa.gov; booth.jason@epa.gov
Cc: Joe Nicolette <jnicolette@envplanning.com>; Kirk Kessler <KKessler@envplanning.com>; Jeff Powell <jeff_powell@fws.gov>; John Rawls <john_rawls@fws.gov>; Greg Masson <greg_masson@fws.gov>; Joyce Stanley <joyce_stanley@ios.doi.gov>
Subject: Emergency ESA Consultation on Colonial CR-251

Karen,

Good talking to you on the phone this morning. As we discussed this morning, we would recommend emergency ESA consultation for the expected take of listed snails from the placement and retrieval of precautionary boom during the response. I went out on site with Joe and Kirk with EPS on Friday to all of the

booming sites, noted listed snails and/or habitat at the sites (see attached photos), and advised them on ways to minimize impacts to listed snails during the retrieval of boom.

According to the Section 7 Consultation Handbook, you as the action agency should initiate consultation by submitting a description of the emergency; a justification for the expedited consultation; and an evaluation of the response to and the impacts of the emergency on affected species and their habitats, including documentation on how the Services' recommendations were implemented, and results of implementation in minimizing take.

I asked Joe Nicolette to assist you in summarizing these things within a biological assessment. This document should assist us in our writing a formal consultation on the emergency. I'll help Joe with any survey information that we have in these area for baseline.

Please contact me with any questions you may have.

Thanks,
Andy

Anthony "Andy" Ford
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
Alabama Ecological Services Field Office
1208-B Main Street
Daphne, AL 36526
(251) 441-5838 (O)
(251) 441-6222 (F)
https://www.fws.gov/daphne/

This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:10 PM
To: Pressley, Miriam
Subject: Fw: Emergency ESA Consultation on Colonial CR-251
Attachments: Section7Flowchart-Emergency.pdf; 20161104 _CahabaRiver_PrecautionaryBoom_Site3.JPG; 20161104_RoundRocksnail_BoomSite3.JPG; 20161104_Snails-on-Sustrate_BoomSite3.JPG

From: Ford, Anthony <anthony_ford@fws.gov>
Sent: Tuesday, November 8, 2016 4:40 PM
To: Buerki, Karen; Booth, Jason
Cc: Joe Nicolette; Kirk Kessler; Jeff Powell; John Rawls; Greg Masson; Joyce_Stanley@ios.doi.gov
Subject: Emergency ESA Consultation on Colonial CR-251

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Daphne Ecological Services Field Station

www.fws.gov

Home page of the Region 4 U.S. Fish and Wildlife Service, representing Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina ...

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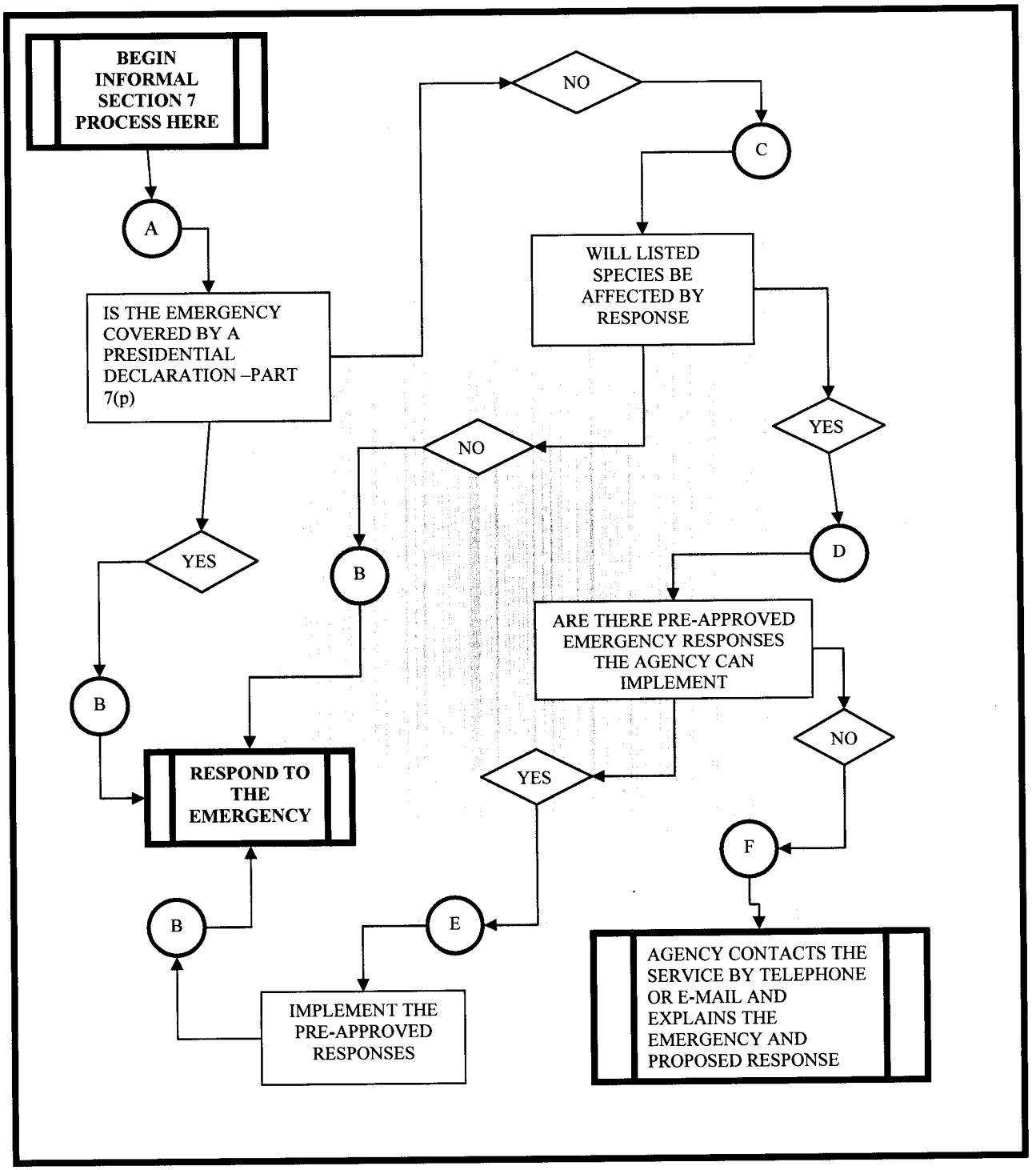
EMERGENCY CONSULTATION FLOW CHART

"DO NOT DELAY RESPONSE TO EMERGENCY"



EMERGENCY CONSULTATION FLOW CHART
EXPLANATION OF INFORMAL ACTIONS

"DO NOT DELAY RESPONSE TO EMERGENCY"

A. Section 7(p) provides an exemption in Presidentially declared disaster areas.
"In any area which has been declared by the President to be a major disaster area under the Disaster Relief and Emergency Assistance Act [42 U.S.C.A. s 5121 et seq.], the President is authorized to make the determinations required by subsections (g) and (h) of this section for any project for the repair or replacement of a public facility substantially as it existed prior to the disaster under section 405 or 406 of the Disaster Relief and Emergency Assistance Act [42 U.S.C.A. ss 5171 or 5172], and which the President determines (1) is necessary to prevent the recurrence of such a natural disaster and to reduce the potential loss of human life, and (2) to involve an emergency situation which does not allow the ordinary procedures of this section to be followed."

Emergency response actions within these areas are exempt from the prohibition of section 9.

B. Consultation under section 7 is not required.

C. If the emergency response does not occur in a area declared as a Presidential Disaster Area, yet still involves an imminent threat to human life or property, the response agency must determine if listed species will be impacted by the response actions.

D. If listed species will be impacted by the proposed response, the agency should determine if the proposed response actions have been previously consulted upon under section 7.

E. If the proposed response actions have been addressed under section 7 as emergency response, implement those actions. Do not delay the emergency response getting a Service concurrence.

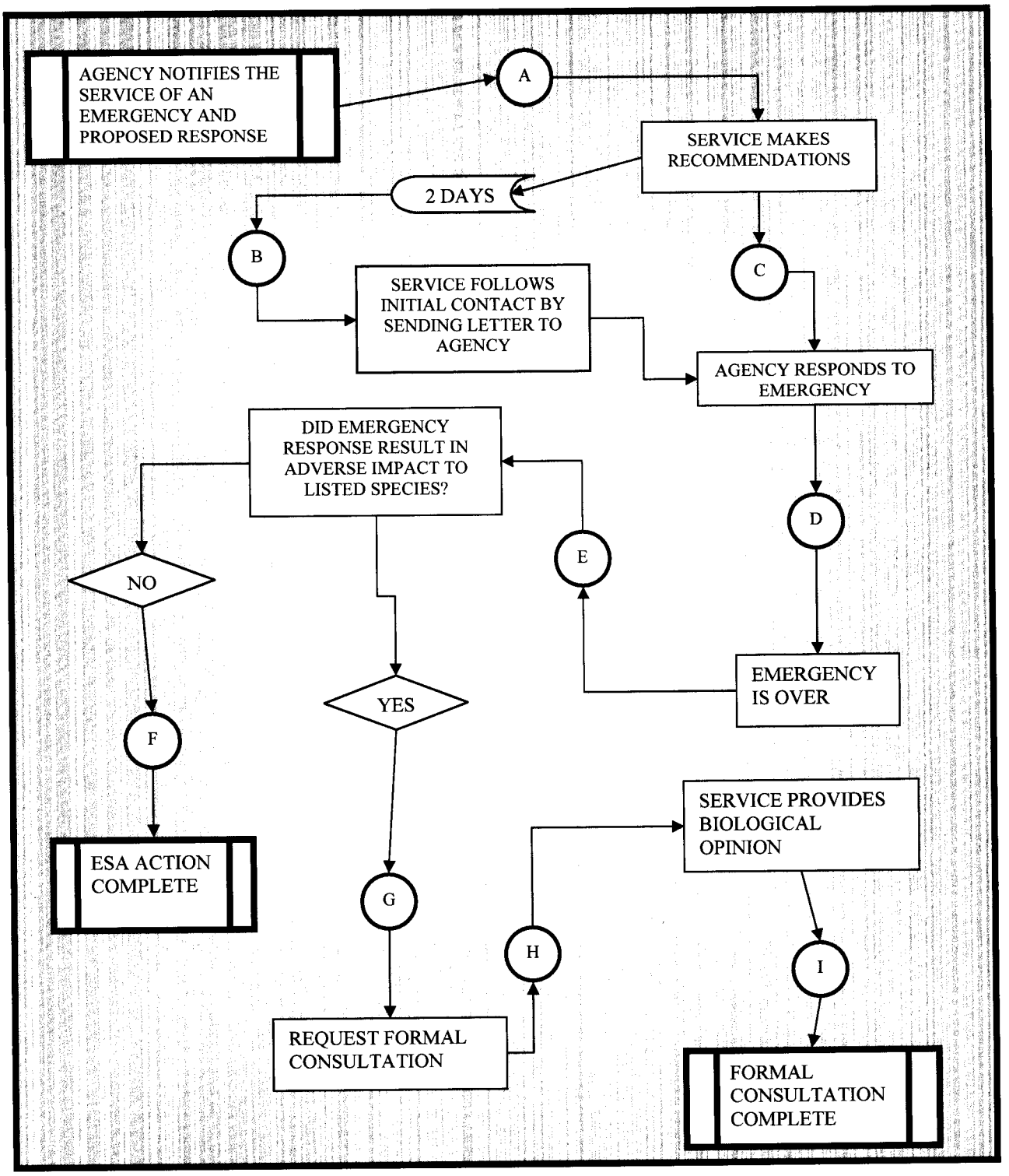
F. If the proposed response has not been addressed by a section 7 consultation, contact the Service and move into formal consultation under the emergency provisions of 50 Code of Federal Regulations Part 402.05:

"(a) Where emergency circumstances mandate the need to consult in an expedited manner, consultation may be conducted informally through alternative procedures that the Director determines to be consistent with the requirements of sections 7(a)-(d) of the Act. This provision applies to situations involving acts of God, disasters, casualties, national defense or security emergencies, etc.

(b) Formal consultation shall be initiated as soon as practicable after the emergency is under control. The Federal agency shall submit information on the nature of the emergency action(s), the justification for the expedited consultation, and the impacts to endangered or threatened species and their habitats. The Service will evaluate such information and issue a biological opinion including the information and recommendations given during the emergency consultation."

EMERGENCY CONSULTATION FLOW CHART

"DO NOT DELAY RESPONSE TO EMERGENCY"



EMERGENCY CONSULTATION FLOW CHART
EXPLANATION OF FORMAL ACTIONS

"DO NOT DELAY RESPONSE TO EMERGENCY"

A. The emergency response agency contacts the Service, by telephone or E-mail, and identifies the emergency and how they will respond.

B. The Service provides a written response to the emergency response agency. The Service indicates whether any species would be jeopardized by the response and what conservation measures to implement to the extent possible. The Service restates that the response agency is not to delay their emergency.

C. The emergency response should not be delayed waiting for a response from the Service.

D. The response agency does what is necessary to protect human life and property. The agency will implement as many of the recommended conservation measures as feasible without delaying the response.

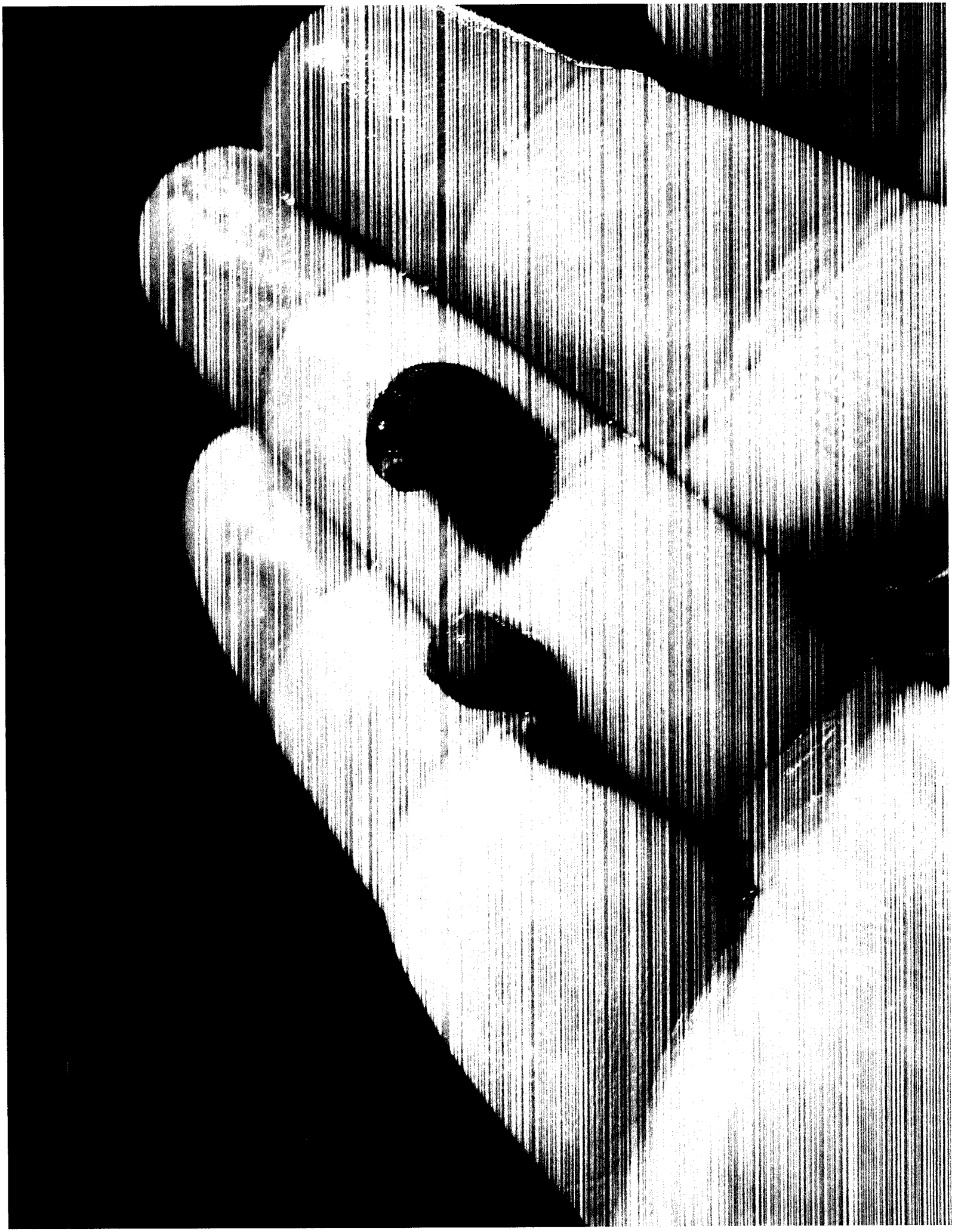
E. Once the emergency response is complete, the response agency will notify the Service by telephone, E-mail or in writing, the emergency is over and what conservation measures it was able to implement during the emergency response.

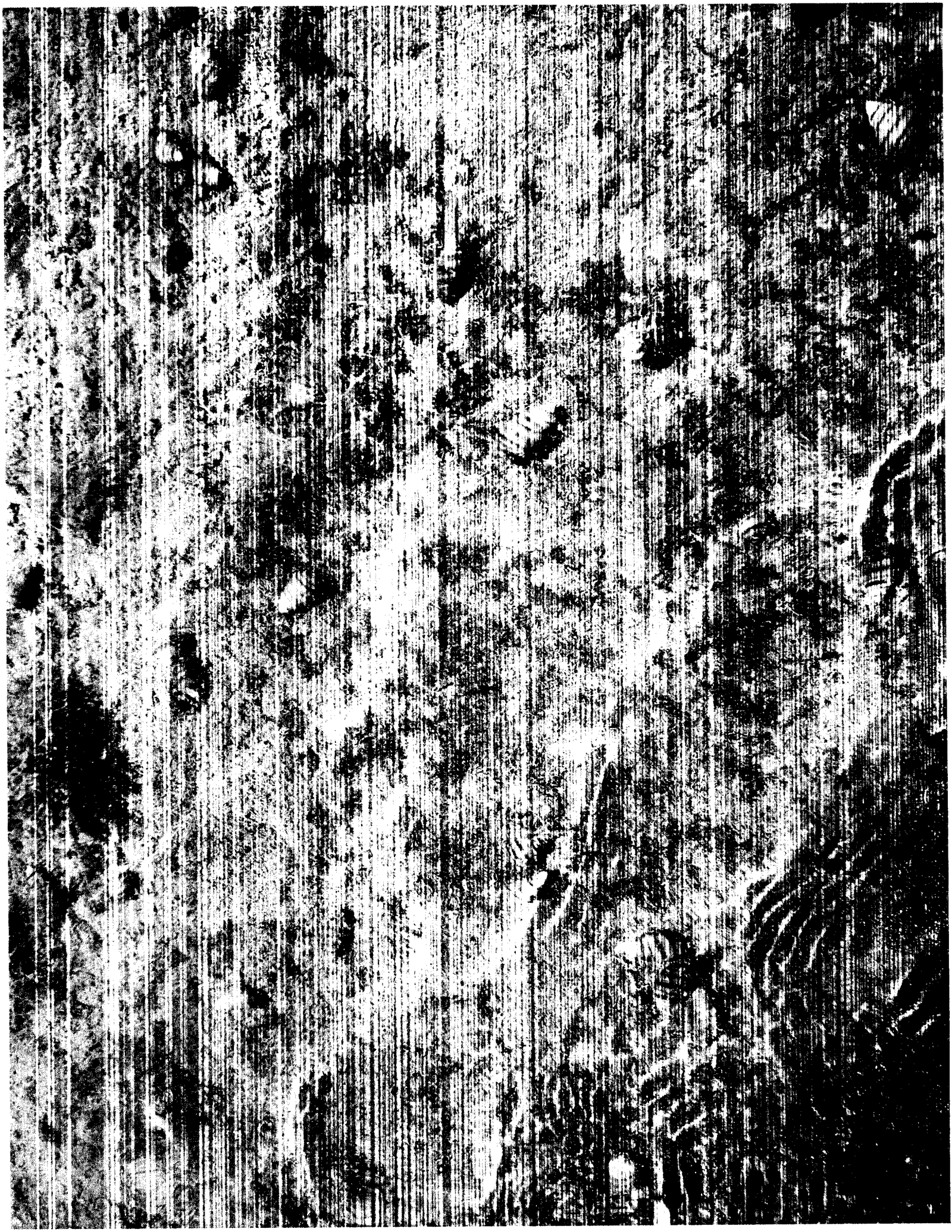
F. The agency notifies the Service the emergency response did not result in any incidental take.

G. The agency notifies the Service that incidental take resulted from the emergency response and they request initiation of formal consultation. The agency identifies the emergency response procedures, the location, the listed species taken and how, the number of individuals of each species taken, and the impacts of the take to the species.

H. The Service uses the information provided by the agency and other information to prepare a biological opinion. This biological opinion addresses the emergency response actions that have been completed rather than actions to be completed.

I. The Service provides the final biological opinion to the agency with the incidental take statement that includes an exemption for the incidental take that occurred during the emergency response. The incidental take statement includes reasonable and prudent measures and terms and conditions that could further minimize the take that has occurred.





Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:10 PM
To: Pressley, Miriam
Subject: Fw: CR 251 Surface Water Sampling Schedule

From: Wyatt, John M. <JMWyatt@colpipe.com>
Sent: Tuesday, November 8, 2016 12:32 PM
To: PR1@adem.alabama.gov; Buerki, Karen
Cc: Kirk Kessler; Joe Nicolette; Kolar, Angela; DiQuollo, Nick; Cazares, Juan; Williams, Michael A
Subject: CR 251 Surface Water Sampling Schedule

All,

Given the lack of any excursion of petroleum product from the CR251 incident site and the non-detect (ND) results received thus far from the surface water and sediment sampling, Colonial is planning to reduce the sampling frequency for the CR251 environmental response to weekly (and will coincide with the CR91 sampling program). The change will go into effect after two sets of sample results – all showing NDs – are available. We anticipate that this will occur by COB on 11/8. If detections are noted in the samples currently being analyzed, we will maintain the current regimen (every other day) until NDs are achieved.

If there is a rainfall event, we will add a round of sampling to capture its affect.

As stated, we will make the change starting this week, as long as sample results are non-detect.

Please contact me with any questions.

Thanks,

John M. Wyatt
Environmental Program Manager
Southeast District

Colonial Pipeline Company
4295 Cromwell Rd. #311
Chattanooga, TN 37421
Ph: 423-713-7568
Fax: 770-754-8119

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:09 PM
To: Pressley, Miriam
Subject: Fw: TDD Amendment in Process (Colonial Pipeline Amend 1)
Attachments: Colonial Pipeline (Amend 1).pdf

From: Jones, Katrina
Sent: Tuesday, November 8, 2016 10:42 AM
To: Andrew Johnson
Cc: Buerki, Karen
Subject: TDD Amendment in Process (Colonial Pipeline Amend 1)

Technical Direction Document

U.S. EPA, Region 4
61 Forsyth Street, SouthWest
Atlanta, GA 30303

Vendor : TETRA TECH, INC.

TDD # : 0003/TT-03-015
Amendment # : 001
Contract # : EP-S4-14-03

TDD Title : Colonial Pipeline
Purpose : INCREASE FUNDING

Verbal Date : 10/31/2016
Start Date : 10/31/2016
Completion Date : 05/30/2017
Effective Date : 10/31/2016

Priority : HIGH
Overtime Authorized : No
Invoice Unit :

SSID : V4CW
Project/Site Name : Colonial Pipeline
Project Address : .04 miles from Shades Creek
County : Shelby
City : Pelham
State : AL
Zip Code :

Work Area : Response / Removal
Work Area Code :
Activity : Oil Spill w/ FPN - Reimbursable Incident Specific
Activity Code : Z*
Operable Unit :
Emergency Code :
FPN : E17404
Performance Based : No

Authorized TDD Ceiling :

	Amount	LOE (Hours)
Previous Action(s) :	$20,000.00	0.00
This Action :	$30,000.00	0.00
New Total :	$50,000.00	0.00

Specific Elements :

Description of Work :

See Schedule

Region Specific :

CERCLIS: :

Misc 2 :

Accounting and Appropriation Information:

SFO:

Line	Budget / FY	Approp.	Budget Org	Program Element	Object Class	Site Project	Cost Org	DCN Line-ID	Funding Category	TDD Amount
1	16	H	04RA	303D91	2505	V4CW	C001	1604RS6028-001	OPA SITE	$21,765.35
2	17	H	04RA	303D91	2505	V4CW	C001	1704RS7004-001	OPA SITE	$28,234.65

U.S. EPA, Region 4
61 Forsyth Street, SouthWest
Atlanta, GA 30303

Vendor : TETRA TECH, INC.

TDD # : 0003/TT-03-015
Amendment # : 001
Contract # : EP-S4-14-03

Project Officer : Katrina Jones	(Signature) (Date)	**Branch Mail Code:** **Phone Number :** 404-562-8811 **Fax Number :**
Contracting Officer Representative Karen Buerki	(Signature) (Date)	**Branch Mail Code :** **Phone Number :** 404-562-8747 **Fax Number :**
Contract Specialist: Stacy Hill	(Signature) (Date)	**Branch Mail Code :** **Phone Number :** 404-562-8375 **Fax Number :**
Contracting Officer : Stacy Hill	(Signature) (Date)	**Branch Mail Code :** **Phone Number :** 404-562-8375 **Fax Number :**
Other Agency Official	(Signature) (Date)	**Branch Mail Code :** **Phone Number :** **Fax Number :**

Description of Work:
Amendment 001 - Amendment 1 is to increase funding to continue ER activities in the field. Base ORIG - START is tasked to respond to a pipeline rupture and explosion. Multiple responders needed. The following tasks are anticipated:

1. Produce HASP and QAPP as specified by the OSC during initial communications;
2. Produce 1900-55s to document and confirm costs;
3. Possible multi-media sampling and analytical support;
4. Conduct air monitoring as necessary based on site conditions;
5. Prepare 311 package if specified by the OSC;
6. Produce draft report of all site activities which will be due 15 days after received analytical results;
7. A cost estimate is required if activities continue beyond the emergency point. Detail information regarding specific tasks such as field activities and the report are required.

Coordinate all activities with the responding OSC Karen Buerki at 404-229-9516 (cell).

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:08 PM
To: Pressley, Miriam
Subject: Fw: CANAPS Message V4CW - E17404

From: Harmon, Dave <Harmon.Dave@epamail.epa.gov> on behalf of CINWD OilSpill <CINWD_OilSpill@epa.gov>
Sent: Monday, November 7, 2016 6:52 AM
To: Buerki, Karen
Cc: Webster, James; Bates, Lloyd; Masterson, Chris; R4DutyOSC; Walker, Darryl
Subject: Fw: CANAPS Message V4CW - E17404

Your new ceiling.

FPN Ceiling: $200,000.00
Direct Amt: $170,329.00
Indirect Amt: $29,671.00

P 051554Z NOV 16
FM COMCOGARD NPFC WASHINGTON DC//CANAPS//
TO RHMCSUU/HQ EPA WASHINGTON DC//EOC/CINWD OILSPILL/REGION FOUR//
INFO CCGDEIGHT NEW ORLEANS LA//DR/DRM//
CCGDFIVE PORTSMOUTH VA//DR/DRM//
CCGDSEVEN MIAMI FL//DR/DRM//
COGARD GST MOBILE AL
COGARD SILC NORFOLK VA//PCB-1//
COMDT COGARD WASHINGTON DC//CG-533//
BT
UNCLAS //N16465//
SUBJ: FPN CEILING AMENDMENT FOR COLONIAL PIPELINE - E17404.

1. AUTHORIZED CEILING IS CHANGED FROM $150,000.00 TO $200,000.00.
2. CEILING CHANGE DATE: 05 NOV 2016.
3. INCIDENT LOCATION: COLONIAL GASOLINE PIPELINE RUP
TURE AND FIRE , AL.
4. EPA FOSC POINT OF CONTACT:
A. NAME: KAREN BUERKI.
B. PHONE: (404)562-8747.
C. FAX: N/A.

D. EMAIL: BUERKI.KAREN@EPA.GOV.
5. NPFC POINT OF CONTACT :
A. NAME: MCCROSSEN, THOMAS M..
B. PHONE: (202)795-6093.
C. CELL PHONE: (202)360-6061.
D. FAX: N/A.
E. EMAIL: THOMAS.M.MCCROSSEN@USCG.MIL.
6. FOR CG UNITS SUPPORTING THE EPA FOSC:
A. CAS ACCOUNTING STRING: 2/V/SZ/172/95/0/E17404/74100/XXXX.
WHERE XXXX IS OBJECT CLASS.
B. DOCUMENT CONTROL NUMBER: DD/17/46/7/V/XZ/YYY.
WHERE DD IS THE DOCUMENT TYPE AND YYY IS THE UNIT SEQUENCE NUMBER.
7. FOLLOW NPFC TOPS FOR FUND MANAGEMENT, CEILING MANAGEMENT, AND RESOURCE DOCUMENTATION.
8. POLREPS
A. ON ALL POLREPS FOR THIS CASE, FOSC MUST SEND A COPY TO NPFC, POC NOTED ABOVE AND TO ARL-PF-NPFCEPAPOLREPS@USCG.MIL.
B. INCLUDE AUTHORIZED CEILING AND DAILY COST DATA ON POLREPS.
9. FORWARD PRFAS, THEIR CERTIFIED INVOICES, AND SUPPORTING COST DOCUMENTATION TO NPFC POC NOTED ABOVE.
10. THIS MESSAGE WAS AUTOMATICALLY GENERATED BY THE CANAPS SYSTEM.
11. CIMS_EMAIL FPN: E17404 TYPE: CEILING AMENDMENT
12. CANAPS ID 051554Z NOV 16
BT
NNNN

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:07 PM
To: Pressley, Miriam
Subject: Fw: Pelham Pipeline Rupture SITREP #7
Attachments: Colonial Pipeline Rupture_SITREP7_110616.pdf

From: Tripp, Christopher
Sent: Sunday, November 6, 2016 6:33 PM
To: R4 ERRB; R4 ERNS Reports; R4 RICT
Cc: thomas.m.mccrossen@uscg.mil; Eoc, Epahq; steven.j.wall@noaa.gov
Subject: Pelham Pipeline Rupture SITREP #7

Colonial Pipeline CR251 Rupture

Pelham, Shelby County, Alabama

Situation Report #7

November 6, 2016

1800

NRC #1162982

INCIDENT DESCRIPTION

On Monday, October 31 at approximately 1450 CDT, a pipeline accident occurred in Helena, Alabama, in which one worker died and four others were seriously injured. The 36-inch diameter pipeline carrying gasoline, operated by Colonial Pipeline, ruptured during maintenance operations. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center.

The exact amount of the release is unknown; however, Colonial Pipeline has estimated that between 3,300 and 4,000 barrels of gasoline were released. Both main pipelines were shut down. The local fire department responded and contained the fire around the ruptured site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. Line 2 was restarted at 2250 hours on October 31 at a reduced rate.

The Alabama Department of Environmental Management (ADEM), Alabama Emergency Management Agency (EMA), Shelby County EMA, the US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, were notified. The EPA, ADEM, Colonial Pipeline, and local emergency responders have been on scene and were integrated into Unified Command (UC). All EPA, USCG GST, and START personnel will be demobilizing from the incident today, November 6, through the next operational period.

PUBLIC AFFAIRS

- **ONGOING:** The PIO continues to coordinate press releases with Colonial Pipeline through the JIC.
- **ONGOING:** The NTSB assessment has transitioned to a full investigation. NTSB communications restrictions are being implemented due to the investigation. No photos of the pipe leak site or equipment at the scene when the incident occurred are to be disseminated to the public.

INCIDENT MANAGEMENT AND STAFFING

EPA's integration into the Colonial Pipeline Incident Command structure has provided numerous benefits to the response and further ensured operations ran successfully. All EPA staff, USCG GST and support contractors were fully embedded into the Colonial Pipeline incident management structure throughout the response.

Current number	Number
EPA	Demobilization in progress
USCG GST	Demobilization in progress
START	Demobilization in progress
Total Response Personnel	Demobilization in progress

CURRENT RELEASE AND RECOVERY ESTIMATES

- Current Release Estimate remains unchanged at 3,300 bbl to 4,000 bbls[1]
- **NEW:** Removal and replacement of the damaged section of pipeline has been completed.
- **NEW:** Restoration of service ("start up") for the pipeline took place at 0645 EST ("pipeline time"). The shipper bulletin was released at 0830 CST.
- **NEW:** Colonial Pipeline representatives continue operations at the pipeline, including coating and backfill activities. There will be no night shift.
- **NEW:** The Transition Plan was implemented at the 0800 Situation Status Update meeting, moving the project from an emergency to the remediation phase. ADEM will take the lead on product transfer from the frac tanks and contaminated soil disposal.

CURRENT OPERATIONS

1. **Environmental Sampling and Impacts**

a. Air Monitoring

- **NEW:** CTEH will conduct air monitoring at the frac tanks during product transfer scheduled for Monday at 0900. In addition, CTEH continues to maintain a presence within operations for health and safety oversight.
- **NEW:** CTEH continued performing 24-hour mobile air monitoring at and near the incident area, as well as at nearby homes to the northwest and southeast of the incident area overnight. No detections above site action levels have occurred since the 1600 Meeting on November 5.
- **ONGOING:** CTEH continues to upload air sampling data to the SCRIBE database.

b. Water/Sediment Sampling and National Resources Damage Assessment (NRDA)

- Sampling activities have been discontinued.

1. Local Response Actions

- The air space restriction to 1,500 feet and a 1.5 mile radius around the incident area remains in effect, but will be cancelled by local officials on the morning of November 7, 2016.

2. Health and Safety

- CTEH continues to provide health and safety oversight, including frac tank operations.

3. Communications

- **ONGOING:** NTSB communications requirements are being implemented for parties involved in the incident investigation. EPA continues to coordinate press releases with Colonial Pipeline through the JIC.

4. Fuel Supply

- No change in the waiver status

PLANNED RESPONSE ACTIVITIES

- **NEW:** Complete the transfer of product from the frac tanks to Pelham Junction (in progress).
- **NEW:** Complete demobilization.

---

[1] I barrel (bbl) = 42 gallons

Colonial Pipeline CR251 Rupture
Pelham, Shelby County, Alabama
Situation Report #7
November 6, 2016
1800

NRC #1162982

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   b. Water/Sediment Sampling and National Resources Damage Assessment (NRDA)
      - Sampling activities have been discontinued.

2) **Local Response Actions**
   - The air space restriction to 1,500 feet and a 1.5 mile radius around the incident area remains in effect, but will be cancelled by local officials on the morning of November 7, 2016.

[1] 1 barrel (bbl) = 42 gallons

3) **Health and Safety**
   - CTEH continues to provide health and safety oversight, including frac tank operations.

4) **Communications**
   - **ONGOING:** NTSB communications requirements are being implemented for parties involved in the incident investigation. EPA continues to coordinate press releases with Colonial Pipeline through the JIC.

5) **Fuel Supply**
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Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:07 PM
To: Pressley, Miriam
Subject: Fw: Draft SITREP #7
Attachments: Colonial Pipeline Rupture_SITREP7_110616.docx

From: Croft, Brian <Brian.Croft@tetratech.com>
Sent: Sunday, November 6, 2016 10:46 AM
To: Tripp, Christopher; Moore, Tony
Cc: Buerki, Karen
Subject: Draft SITREP #7

Attached

Brian Croft | Senior Scientist (b)(6)
Direct: 678.775.3113 | Cell: , Fax: 678.775.3138
brian.croft@tetratech.com
Tetra Tech | Complex World, Clear Solutions (www.tetratech.com | NASDAQ:TTEK)
1955 Evergreen Boulevard, Building 200, Suite 300 | Duluth, GA 30096
PLEASE NOTE: This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

Colonial Pipeline CR251 Rupture
Pelham, Shelby County, Alabama
Situation Report #7
November 6, 2016
1700

NRC #1162982

INCIDENT DESCRIPTION

On Monday, October 31 at approximately 1450 CDT, a pipeline accident occurred in Helena, Alabama, in which one worker died and four others were seriously injured. The 36-inch diameter pipeline carrying gasoline, operated by Colonial Pipeline, ruptured during maintenance operations. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center.

The exact amount of the release is unknown; however, Colonial Pipeline has estimated that between 3,300 and 4,000 barrels of gasoline were released. Both main pipelines were shut down. The local fire department responded and contained the fire around the ruptured site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. Line 2 was restarted at 2250 hours on October 31 at a reduced rate.

The Alabama Department of Environmental Management (ADEM), Alabama Emergency Management Agency (EMA), Shelby County EMA, the US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, were notified. The EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command (UC).

PUBLIC AFFAIRS

- **ONGOING:** The PIO continues to coordinate press releases with Colonial Pipeline through the JIC.
- **ONGOING:** The NTSB assessment has transitioned to a full investigation. NTSB communications restrictions are being implemented due to the investigation. No photos of the pipe leak site or equipment at the scene when the incident occurred are to be disseminated to the public

INCIDENT MANAGEMENT AND STAFFING

EPA's integration into the Colonial Pipeline Incident Command structure will provide numerous benefits to the response and further ensure operations run successfully. All EPA staff, USCG GST and support contractors are fully embedded into the Colonial Pipeline incident management structure. The number of personnel managing the incident is as follows:

Current number	Number
EPA	5
USCG GST	4
START	3
Total Response Personnel	Demobilization in progress

CURRENT RELEASE AND RECOVERY ESTIMATES

- Current Release Estimate remains unchanged at 3,300 bbl to 4,000 bbls[1]
- **NEW:** Removal and replacement of the damaged section of pipeline has been completed.
- **NEW:** Restoration of service ("start up") for the pipeline took place at 0645 EST ("pipeline time"). The shipper bulletin was released at 0830 CST.
- **NEW:** Colonial Pipeline representatives continue operations at the pipeline, including coating and backfill activities. There will be no night shift.
- **NEW:** The Transition Plan was implemented at the 0800 Situation Status Update meeting, moving the project from an emergency to the remediation phase. ADEM will take the lead on product transfer from the frac tanks and contaminated soil disposal.

REPORTING SCHEDULE

Situation Reports (SITREPs) will be delivered daily at 1700 hours EST.

CURRENT OPERATIONS

1) **Environmental Sampling and Impacts**
   a. Air Monitoring
      - **NEW:** CTEH will conduct air monitoring at the frac tanks during product transfer scheduled for Monday at 0900. In addition, CTEH continues to maintain a presence within operations for health and safety oversight.
      - **NEW:** CTEH continued performing 24-hour mobile air monitoring at and near the incident area, as well as at nearby homes to the northwest and southeast of the incident area overnight. No detections above site action levels have occurred since the 1600 Meeting on November 5.
      - **ONGOING:** CTEH continues to upload air sampling data to the SCRIBE database.
   b. Water/Sediment Sampling and National Resources Damage Assessment (NRDA)
      - Sampling activities have been discontinued.

2) **Local Response Actions**

[1] 1 barrel (bbl) = 42 gallons

- The air space restriction to 1,500 feet and a 1.5 mile radius around the incident area remains in effect, but will be cancelled by local officials on the morning of November 7, 2016.

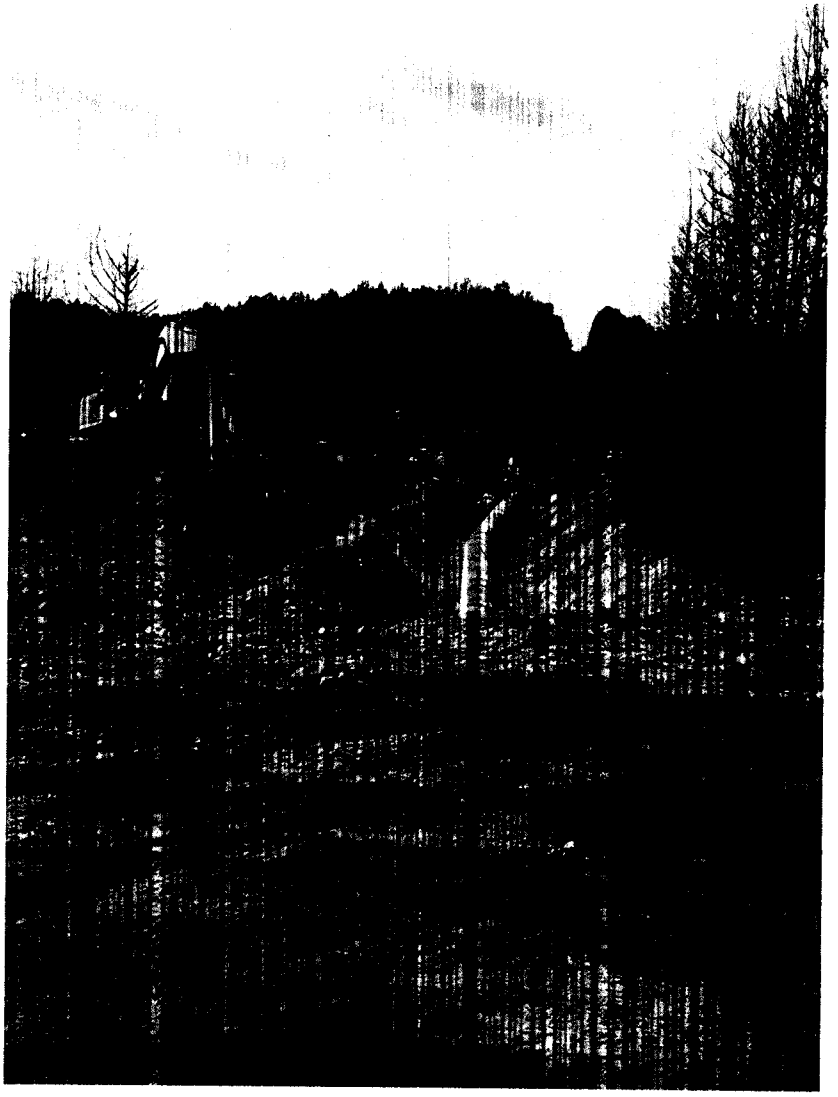
3) **Health and Safety**
   - CTEH continues to provide health and safety oversight, including frac tank operations.

4) **Communications**
   - **ONGOING:** NTSB communications requirements are being implemented for parties involved in the incident investigation. EPA continues to coordinate press releases with Colonial Pipeline through the JIC.

5) **Fuel Supply**
   - No change in the waiver status

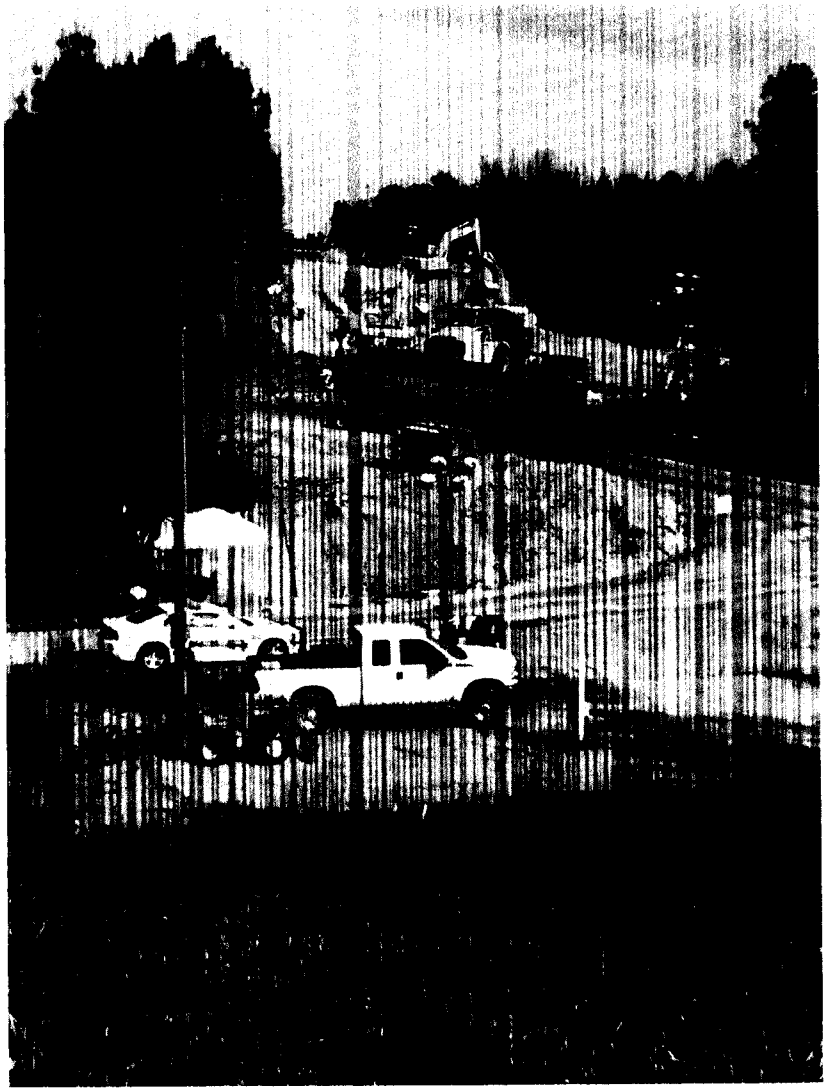
PLANNED RESPONSE ACTIVITIES

- **NEW:** Complete the transfer of product from the frac tanks to Pelham Junction (in progress).
- **NEW:** Complete demobilization.



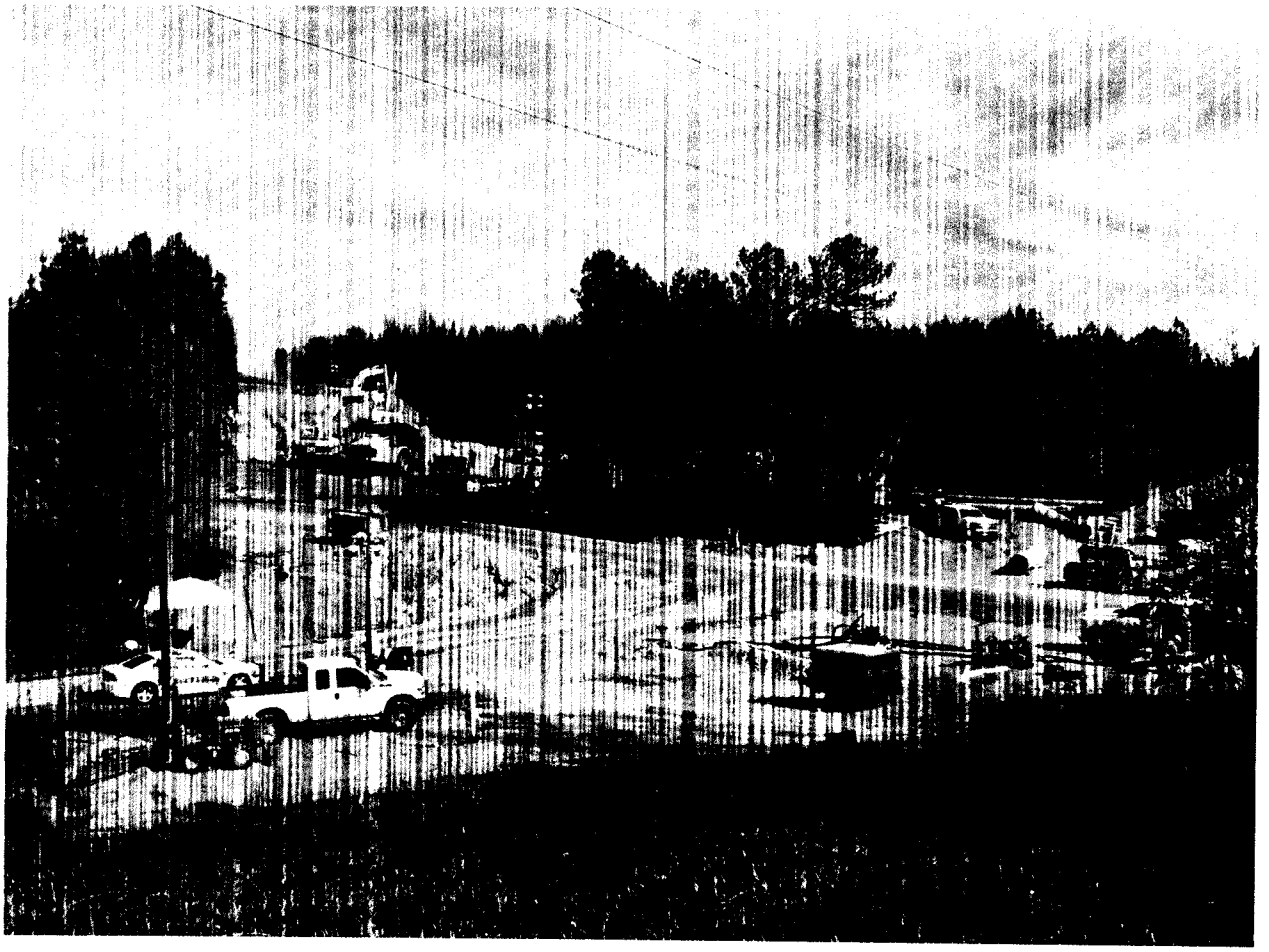
Photograph 1

Excavation activities in the vicinity of the damaged pipeline. (Facing northeast)



Photograph 2

Excavation activities in the vicinity of the damaged pipeline. (Facing northeast)



Photograph 3

Excavation activities in the vicinity of the damaged pipeline, including replacement pipeline staged for repairs. (Facing northeast)

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:06 PM
To: Pressley, Miriam
Subject: Fw: USGC Tracking Spreadsheet
Attachments: removed.txt; USCG_Tracking.xls

From: Simms, Kendal <KSimms@colpipe.com>
Sent: Sunday, November 6, 2016 8:35 AM
To: Buerki, Karen
Subject: USGC Tracking Spreadsheet

Please find attached your requested report.

E. Kendal Simms
Coordinator – Landowner Database
Land Management Team
Office: 678-762-2215 Cellular: (b)(6)

Colonial Pipeline Company

Person Name	Area	Organization	Organization Type
Stamoulis, John	Command Post	USCG	F
McClellan, Sheridan	Command Post	USCG	F
Lindsey, Brad	Command Post	USCG	F
Stamoulis, John	Command Post	USCG	F
McClellan, Sheridan	Command Post	USCG	F
Brannon, Andrew	Command Post	USCG	F
Brannon, Andrew	Command Post	USCG	F
Lindsey, Brad	Command Post	USCG	F
McClellan, Sheridan	Command Post	USCG	F
McClellan, Sheridan	Command Post	USCG	F
Stamoulis, John	Command Post	USCG	F
Lindsey, Brad	Command Post	USCG	F
Brannon, Andrew	Command Post	USCG	F
Stamoulis, John	Command Post	USCG	F
Stamoulis, John	Command Post	USCG	F
Brannon, Andrew	Incident Location	USCG	F
Stamoulis, John	Incident Location	USCG	F
Stamoulis, John	Command Post	USCG	F
Brannon, Andrew	Command Post	USCG	F
Lindsey, Brad	Command Post	USCG	F
McClellan, Sheridan	Command Post	USCG	F
Stamoulis, John	Fire Suppression TF	USCG	F
Stamoulis, John	Command Post	USCG	F
McClellan, Sheridan	Command Post	USCG	F
McClellan, Sheridan	Incident Location	USCG	F
Lindsey, Brad	Incident Location	USCG	F
McClellan, Sheridan	Command Post	USCG	F
Lindsey, Brad	Command Post	USCG	F
Brannon, Andrew	Incident Location	USCG	F
Stamoulis, John	Incident Location	USCG	F
Brannon, Andrew	Staging- Race Track Holiday Raceway	USCG	F

Stamoulis, John	Staging- Race Track Holiday Raceway	USCG	F
Brannon, Andrew	Staging- Race Track Holiday Raceway	USCG	F
Stamoulis, John	Staging- Race Track Holiday Raceway	USCG	F
Brannon, Andrew	Incident Location	USCG	F
Stamoulis, John	Incident Location	USCG	F
Stamoulis, John	Command Post	USCG	F
Brannon, Andrew	Command Post	USCG	F
Lindsey, Brad	Command Post	USCG	F
McClellan, Sheridan	Command Post	USCG	F
McClellan, Sheridan	Incident Location	USCG	F
Lindsey, Brad	Incident Location	USCG	F
Lindsey, Brad	Command Post	USCG	F
McClellan, Sheridan	Command Post	USCG	F
Stamoulis, John	Command Post	USCG	F
Brannon, Andrew	Command Post	USCG	F
Brannon, Andrew	Incident Location	USCG	F
Brannon, Andrew	Command Post	USCG	F
Brannon, Andrew	Incident Location	USCG	F
Stamoulis, John	Incident Location	USCG	F
McClellan, Sheridan	Command Post	USCG	F
Lindsey, Brad	Command Post	USCG	F
Stamoulis, John	Command Post	USCG	F
Brannon, Andrew	Command Post	USCG	F
McClellan, Sheridan	Incident Location	USCG	F
Lindsey, Brad	Incident Location	USCG	F
McClellan, Sheridan	Command Post	USCG	F
Lindsey, Brad	Command Post	USCG	F
Stamoulis, John	Command Post	USCG	F
Brannon, Andrew	Command Post	USCG	F
Stamoulis, John	Incident Location	USCG	F
Brannon, Andrew	Incident Location	USCG	F
Stamoulis, John	Command Post	USCG	F

Brannon, Andrew	Command Post	USCG	F
Stamoulis, John	Incident Location	USCG	F
Brannon, Andrew	Incident Location	USCG	F
Stamoulis, John	Command Post	USCG	F
Brannon, Andrew	Command Post	USCG	F
Lindsey, Brad	Command Post	USCG	F
McClellan, Sheridan	Command Post	USCG	F
Lindsey, Brad	Incident Location	USCG	F

In	Out	Section
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11/5/2016 18:28	11/5/2016 19:47
11/5/2016 18:29	
11/5/2016 20:20	11/6/2016 3:52

Position

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:06 PM
To: Pressley, Miriam
Subject: Fw: Pelham Pipeline Rupture SITREP #6
Attachments: Colonial Pipeline Rupture_SITREP6_110516.pdf

From: Tripp, Christopher
Sent: Saturday, November 5, 2016 6:20 PM
To: R4 ERRB; R4 ERNS Reports; R4 RICT
Cc: steven.j.wall@noaa.gov; Eoc, Epahq; thomas.m.mccrossen@uscg.mil
Subject: Pelham Pipeline Rupture SITREP #6

Colonial Pipeline CR251 Rupture
Pelham, Shelby County, Alabama
Situation Report #6
November 5, 2016
1800
NRC #1162982

INCIDENT DESCRIPTION

On Monday, October 31 at approximately 1450 CDT, a pipeline accident occurred in Helena, Alabama, in which one worker died and four others were seriously injured. The 36-inch diameter pipeline carrying gasoline, operated by Colonial Pipeline, ruptured during maintenance operations. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center.

The exact amount of the release is unknown; however, Colonial Pipeline has estimated that between 3,300 and 4,000 barrels of gasoline were released. Both main pipelines were shut down. The local fire department responded and contained the fire around the ruptured site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. Line 2 was restarted at 2250 hours on October 31 at a reduced rate.

The Alabama Department of Environmental Management (ADEM), Alabama Emergency Management Agency (EMA), Shelby County EMA, the US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, were notified. The EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command (UC).

PUBLIC AFFAIRS

- **ONGOING:** The PIO continues to coordinate press releases with Colonial Pipeline through the JIC.
- **ONGOING:** The NTSB assessment has transitioned to a full investigation. NTSB communications restrictions are being implemented due to the investigation. No photos of the pipe leak site or equipment at the scene when the incident occurred are to be disseminated to the public.
- **NEW:** An OSHA representative arrived onsite November 4 to observe the release location.

- NEW: A US Fish & Wildlife representative arrived onsite November 4 to observe boom locations and assess concerns regarding a possible threatened and endangered species of snail.

INCIDENT MANAGEMENT AND STAFFING

EPAs integration into the Colonial Pipeline Incident Command structure has provided numerous benefits to the response and further ensured that operations ran successfully. This has been accomplished through working directly with the Environmental Unit on sampling and monitoring, the Situation Unit, the Planning Section, Safety, Unified Command, and with overall operations related to this unfortunate incident. All EPA staff, USCG GST and support contractors are fully embedded into the Colonial Pipeline incident management structure. The number of personnel managing the incident is as follows:

Current number	Number
EPA	6 (1 working from R4 REOC)
USCG GST	4
START	3
Total Response Personnel	591

CURRENT RELEASE AND RECOVERY ESTIMATES

- Current Release Estimate remains unchanged at 3,300 bbl to 4,000 bbls[1]
- NEW: Product recovery from the pipeline (drain-up) was completed during night operations. A total of approximately 783 barrels (32,886 gallons) of product were recovered and transferred to the four frac tanks.
- NEW: Mechanical excavation of soil from the incident area began at approximately 0500 on November 5. Excavated soil is being temporarily stockpiled for future transportation and disposal at an approved landfill. Stockpiles will be placed on Visqueen with a constructed earthen berm to prevent runoff or migration of the impacted soils.

REPORTING SCHEDULE

Situation Reports (SITREPS) will be delivered daily at 1800 hours EDT.

CURRENT OPERATIONS

1) Environmental Sampling and Impacts

a. Air Monitoring

- **ONGOING:** CTEH continues conducting air monitoring at the frac tank staging area, TORs, and release during recovery and excavation efforts.
- **ONGOING:** CTEH continues performing 24-hour mobile air monitoring at and near the incident area, as well as at nearby homes to the northwest and southeast of the incident area. Air monitoring results from 0600 hours CDT on November 4, through 0600 hours CDT on November 5 indicated no detections above site action levels at the nearby residential areas located northwest and southeast of the incident area, except for particulate matter 2.5 micrometers or less (PM2.5). Air monitoring results indicated one spike in the PM2.5 concentration (0.146 mg/m^3) at the residences located southeast of the incident area. In the vicinity of the ongoing worker operations at the TORs and the leak site, air monitoring results indicated spikes above the worker action levels in the concentrations of PM2.5 (0.335 mg/m^3), benzene (0.8 ppm), LEL (8%), and VOCs (405 ppm).
- **ONGOING:** CTEH continues analytical air sampling at five locations near the homes located northwest (Bent Pine Drive) and southeast of the incident area along County Road 251.

- **ONGOING:** CTEH continues to upload air sampling data to the SCRIBE database.

b. Water/Sediment Sampling and National Resources Damage Assessment (NRDA)

- Environmental Planning Specialists (EPS) continues surface water sampling, including locations along the Cahaba River, Shades Creek, and the pond located southeast of the incident area.

2) Local Response Actions

- The air space restriction to 1,500 feet and a 1.5 mile radius around the incident area remains in effect until 0000 hours on November 7, 2016.

3) Health and Safety

- CTEH continues to conduct air monitoring and address health and safety concerns during response activities.
- USCG Gulf Strike Team continues to provide health and safety oversight of response operations.

4) Communications

- **ONGOING:** NTSB communications requirements are being implemented for parties involved in the incident investigation. EPA continues to coordinate press releases with Colonial Pipeline through the JIC.

5) Fuel Supply

- No change in the waiver status.

PLANNED RESPONSE ACTIVITIES

- Continue product recovery (residual), as necessary, from Line 1 in preparation for replacement of the damaged section at the incident area.
- Complete excavation along the pipeline at the incident area in preparation for the replacement of the damaged section.
- **NEW:** Remove and replace the damaged section of pipeline to restore Line 1 to service.
- **NEW:** Transfer product from the four frac tanks to Pelham Junction (tentatively scheduled to occur Monday November 7).
- CTEH will continue air monitoring and sampling.
- Complete and approve the Transition Plan for moving from emergency to removal phase.
- Continue preparing and releasing updates for the media outlets.
- **NEW:** Prepare for demobilization.

Christopher Tripp - On-Scene Coordinator
U.S. Environmental Protection Agency, Region 4 | 61 Forsyth St SW | Atlanta, Georgia | 30303
Emergency Response, Removal and Prevention Branch (ERRPB)
office: **404-562-8745** | cell: **470-426-3336**
epaosc.org

[1] 1 barrel (bbl) = 42 gallons

Colonial Pipeline CR251 Rupture
Pelham, Shelby County, Alabama
Situation Report #6
November 5, 2016
1800

NRC #1162982

INCIDENT DESCRIPTION

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The Alabama Department of Environmental Management (ADEM), Alabama Emergency Management Agency (EMA), Shelby County EMA, the US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, were notified. The EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command (UC).

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Situation Reports (SITREPS) will be delivered daily at 1800 hours EDT.

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1) **Environmental Sampling and Impacts**
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3) Health and Safety

- CTEH continues to conduct air monitoring and address health and safety concerns during response activities.
- USCG Gulf Strike Team continues to provide health and safety oversight of response operations.

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- No change in the waiver status.

PLANNED RESPONSE ACTIVITIES

- Continue product recovery (residual), as necessary, from Line 1 in preparation for replacement of the damaged section at the incident area.
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Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:05 PM
To: Pressley, Miriam
Subject: Fw: Draft SITREP #6
Attachments: Colonial Pipeline Rupture_SITREP6_110516.docx

From: Croft, Brian <Brian.Croft@tetratech.com>
Sent: Saturday, November 5, 2016 4:43 PM
To: Tripp, Christopher; Moore, Tony
Cc: Buerki, Karen
Subject: Draft SITREP #6

Attached...note that the opening paragraph under 'Incident Description' has been modified based on the NTSB communications requirements to be consistent with their press releases

Thanks and let me know if you need anything else from here.

Brian Croft | Senior Scientist
Direct: 678.775.3113 | Cell: Fax: 678.775.3138
brian.croft@tetratech.com
Tetra Tech | Complex World, Clear Solutions (www.tetratech.com | NASDAQ:TTEK)
1955 Evergreen Boulevard, Building 200, Suite 300 | Duluth, GA 30096
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Colonial Pipeline CR251 Rupture
Pelham, Shelby County, Alabama
Situation Report #6
November 5, 2016
1700

NRC #1162982

INCIDENT DESCRIPTION

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The Alabama Department of Environmental Management (ADEM), Alabama Emergency Management Agency (EMA), Shelby County EMA, the US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, were notified. The EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command (UC).

PUBLIC AFFAIRS

- **ONGOING:** The PIO continues to coordinate press releases with Colonial Pipeline through the JIC.
- **ONGOING:** The NTSB assessment has transitioned to a full investigation. NTSB communications restrictions are being implemented due to the investigation. No photos of the pipe leak site or equipment at the scene when the incident occurred are to be disseminated to the public
- **NEW:** OSHA representative arrived onsite November 4, 2016 to observe the release location.
- **NEW:** US Fish & Wildlife representative Andy Ford arrived onsite November 4, 2016 to observe boom locations and assess concerns regarding a possible threatened and endangered species of snail.

INCIDENT MANAGEMENT AND STAFFING

EPAs integration into the Colonial Pipeline Incident Command structure will provide numerous benefits to the response and further ensure operations run successfully. This will be accomplished through working directly with the Environmental Unit on sampling and monitoring, the Situation Unit, the Planning Section, Safety, Unified Command, and with overall operations related to this unfortunate incident. All EPA staff, USCG GST and support contractors are fully embedded into the Colonial Pipeline incident management structure. The number of personnel managing the incident is as follows:

Current number	Number
EPA	6 (1 working from R4 REOC)
USCG GST	4
START	3
Total Response Personnel	591

CURRENT RELEASE AND RECOVERY ESTIMATES

- Current Release Estimate remains unchanged at 3,300 bbl to 4,000 bbls[1]
- **NEW:** Product recovery from the pipeline (drain-up) was completed during night operations. A total of approximately 783 barrels (32,886 gallons) of product were recovered and transferred to the four frac tanks.
- **NEW:** Mechanical excavation of soil from the incident area began at approximately 0500 on November 5. Excavated soil is being temporarily stockpiled for future transportation and disposal.

REPORTING SCHEDULE

Situation Reports (SITREPS) will be delivered daily at 1700 hours EDT.

CURRENT OPERATIONS

1) **Environmental Sampling and Impacts**
   a. Air Monitoring
      - **ONGOING:** CTEH continues conducting air monitoring at the frac tank staging area, TORs, and release during recovery and excavation efforts.
      - **ONGOING:** CTEH continues performing 24-hour mobile air monitoring at and near the incident area, as well as at nearby homes to the northwest and southeast of the incident area. Air monitoring results from 0600 hours CDT on November 4, through 0600 hours CDT on November 5 indicated no detections above site action levels at the nearby residential areas located northwest and southeast of the incident area, except for particulate matter 2.5 micrometers or less (PM2.5). Air monitoring results indicated one spike in the PM2.5

[1] 1 barrel (bbl) = 42 gallons

concentration (0.146 mg/m^3) at the residences located southeast of the incident area. In the vicinity of the ongoing worker operations at the TORs and the leak site, air monitoring results indicated spikes above the worker action levels in the concentrations of PM2.5 (0.335 mg/m^3), benzene (0.8 ppm), LEL (8%), and VOCs (405 ppm).

- **ONGOING:** CTEH continues analytical air sampling at five locations near the homes located northwest (Bent Pine Drive) and southeast of the incident area along County Road 251.
- **ONGOING:** CTEH continues to upload air sampling data to the SCRIBE database.

b. Water/Sediment Sampling and National Resources Damage Assessment (NRDA)

- Environmental Planning Specialists (EPS) continues surface water sampling, including locations along the Cahaba River, Shades Creek, and the pond located southeast of the incident area.

2) Local Response Actions

- The air space restriction to 1,500 feet and a 1.5 mile radius around the incident area remains in effect until 0000 hours on November 7, 2016.

3) Health and Safety

- CTEH continues to conduct air monitoring and address health and safety concerns during response activities.
- USCG Gulf Strike Team representatives continue to provide health and safety oversight of response operations.

4) Communications

- **ONGOING:** NTSB communications requirements are being implemented for parties involved in the incident investigation. EPA continues to coordinate press releases with Colonial Pipeline through the JIC.

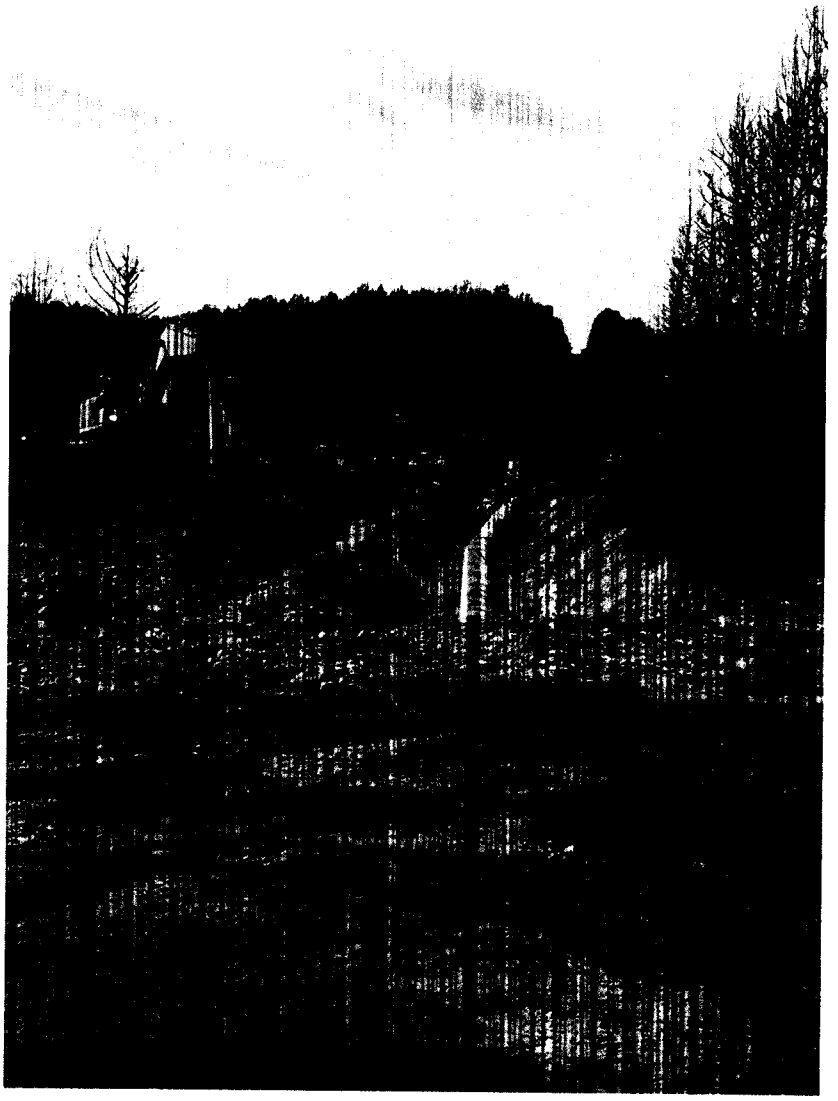
5) Fuel Supply

- No change in the waiver status

PLANNED RESPONSE ACTIVITIES

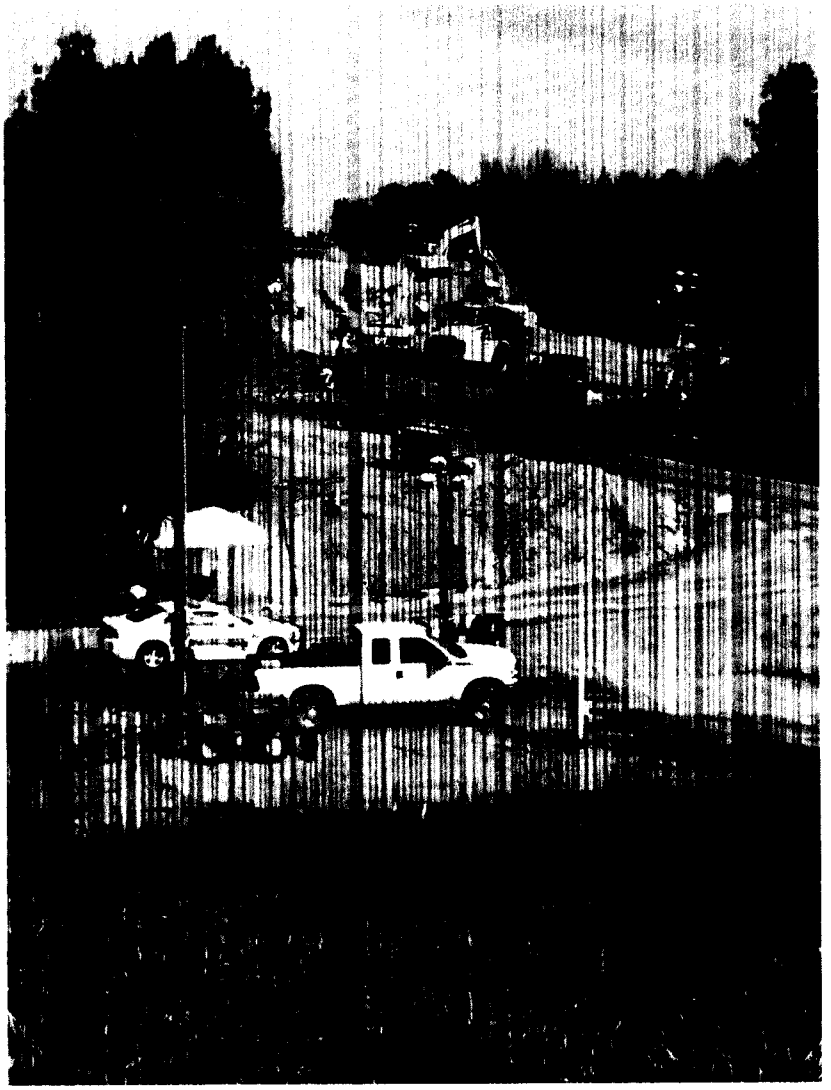
- Continue product recovery (residual), as necessary, from Line 1 in preparation for replacement of the damaged section at the incident area.
- Complete excavation along the pipeline at the incident area in preparation for the replacement of the damaged section.
- NEW: Remove and replace the damaged section of pipeline to restore Line 1 to service.
- NEW: Transfer product from the four frac tanks to Pelham Junction (tentatively scheduled to occur Monday November 7).

- CTEH will continue air monitoring and sampling. USCG will continue air monitoring.
- Complete and approve the Transition Plan for moving from emergency to removal phase.
- Continue preparing and releasing updates for the media outlets.
- **NEW:** Prepare for demobilization.



Photograph 1

Excavation activities in the vicinity of the damaged pipeline. (Facing northeast)



Photograph 2

Excavation activities in the vicinity of the damaged pipeline. (Facing northeast)

Photograph 3

Excavation activities in the vicinity of the damaged pipeline, including replacement pipeline staged for repairs. (Facing northeast)

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:05 PM
To: Pressley, Miriam
Subject: Fw: EPA Sediment and Surface Water Sampling Results Released for Colonial Pipeline CR251 Incident
Attachments: EPA Sediment and Surface Water Sampling Results Released for Colonial Pipeline .docx

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From: Pinkney, James
Sent: Saturday, November 5, 2016 3:34 PM
To: Webster, James; Moore, Tony; Buerki, Karen; Jardine, Rick
Cc: Lincoln, Larry; Hill, Franklin
Subject: FW: EPA Sediment and Surface Water Sampling Results Released for Colonial Pipeline CR251 Incident

FYI

-----Original Message-----
From: James Pinkney [mailto:pinkney.james@epamail.epa.gov]
Sent: Saturday, November 05, 2016 3:28 PM
To: Pinkney, James <Pinkney.James@epa.gov>
Subject: EPA Sediment and Surface Water Sampling Results Released for Colonial Pipeline CR251 Incident

FOR IMMEDIATE RELEASE:
November 5, 2016

Contact Information: James Pinkney, (404) 562-9183 (Direct), (404) 562-8400 (Main), pinkney.james@epa.gov

ATLANTA – In response to the Colonial pipeline CR251 incident and as part of the U.S. Environmental Protection Agency's (EPA) mission to protect human health and the environment, an EPA sampling team is working collaboratively with the Alabama Department of Environmental Management (ADEM), the Cahaba Riverkeeper and the Colonial Pipeline Company to collect sediment and surface water quality samples throughout potentially impacted areas at the response site.

EPA's sediment and surface water samples are consistent with the Colonial Pipeline Company's sediment and surface water samples. This split sampling method ensures data quality among all sampling parties. Current sampling results indicate that the Shades Creek and the Cahaba River are NOT impacted.

Screening Values

- Values were developed by EPA to be used to determine risk for aquatic organisms.
- ADEM developed values for the protection of human health based on water quality standards.

Sediment and surface water samples obtained on November 2nd and November 3rd by EPA were analyzed for the following compounds:

- Total Petroleum Hydrocarbons, (TPH), Gasoline Range Organics (GRO)
- Benzene
- Toluene
- Ethylbenzene
- Total Xylene

Summary of the results from Shades Creek and the Cahaba River

- No compounds were detected at concentrations above the laboratory detection limits.

Next Steps

EPA will continue to monitor water quality in Shades Creek and the Cahaba River until the threat of release has been mitigated.

Connect with EPA Region 4 on Facebook: www.facebook.com/eparegion4

And on Twitter: @EPASoutheast

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U.S. Environmental Protection Agency
Region 4: AL, FL, GA, KY, MS, NC, SC, TN
Office of External Affairs

Sam Nunn Atlanta Federal Center
61 Forsyth St. SW
Atlanta, GA 30303-3104

ENVIRONMENTAL NEWS

PHONE: (404)562-8327 FAX: (404)562-8335

FOR IMMEDIATE RELEASE:
November 5, 2016

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And on Twitter: @EPASoutheast

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:05 PM
To: Pressley, Miriam
Subject: Fw: DRAFT: EPA Sediment and Surface Water Sampling Results Released for Colonial Pipeline CR251 Incident

---

From: Webster, James
Sent: Saturday, November 5, 2016 2:21 PM
To: Buerki, Karen
Subject: Fwd: DRAFT: EPA Sediment and Surface Water Sampling Results Released for Colonial Pipeline CR251 Incident

Sent from my iPhone

Begin forwarded message:

> **From:** "Pinkney, James" <Pinkney.James@epa.gov>
> **Date:** November 5, 2016 at 2:03:41 PM EDT
> **To:** "Lincoln, Larry" <Lincoln.Larry@epa.gov>, "Buerki, Karen" <Buerki.Karen@epa.gov>, "Moore, Tony" <moore.tony@epa.gov>, "Webster, James" <Webster.James@epa.gov>
> **Subject: DRAFT: EPA Sediment and Surface Water Sampling Results Released for Colonial Pipeline CR251 Incident**
>
> Please review and comment.
>
> **FOR IMMEDIATE RELEASE:**
> November 5, 2016
>
> **EPA Sediment and Surface Water Sampling Results Released for Colonial Pipeline CR251 Incident**
>
> Contact Information: James Pinkney, (404) 562-9183 (Direct), (404) 562-8400 (Main), pinkney.james@epa.gov
>
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And on Twitter: @EPASoutheast

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James Pinkney

EPA Region 4 Office of External Affairs

61 Forsyth Street SW | Atlanta, GA 30303

phone: 404.562.9183 | mobile: 404.695.5503

email: pinkney.james@epa.gov

Follow Region 4 on Twitter: www.twitter.com/EPASoutheast

and Facebook: www.facebook.com/eparegion4

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:04 PM
To: Pressley, Miriam
Subject: Fw: TestAmerica report and EDD files from 400-129595-1 Colonial Pipeline Gasoline Spill
Attachments: 400-129595-1_Std_Tal.csv; J129595-1 UDS Level 2 Report Final Report.pdf

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From: Croft, Brian <Brian.Croft@tetratech.com>
Sent: Saturday, November 5, 2016 11:36 AM
To: Buerki, Karen
Subject: FW: TestAmerica report and EDD files from 400-129595-1 Colonial Pipeline Gasoline Spill

Unvalidated split sample results from laboratory are attached

From: Webb, Carol [mailto:carol.webb@testamericainc.com]
Sent: Friday, November 04, 2016 9:00 PM
To: Croft, Brian <Brian.Croft@tetratech.com>; Vickers, Jessica <jessica.vickers@tetratech.com>
Subject: TestAmerica report and EDD files from 400-129595-1 Colonial Pipeline Gasoline Spill

Hello,

The Matrix Spikes are not included in this report. I wanted to get you the data ASAP. We will have the Matrix Spike data by Monday, 11/7. We will revise the report to include the MSs.

Attached please find the report and EDD files for job 400-129595-1; Colonial Pipeline Gasoline Spill

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CAROL M WEBB
Project Manager II

TestAmerica Pensacola
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 850.471.6250
www.testamericainc.com

Reference: [298128]
Attachments: 2

Lab Sample	Client Sam	Matrix	Sample Typ	Collection I	Percent Mo	Analysis Mo	Dilution Fa	Analysis Da	CAS	Analyte	Result	Unit
400-12959	CP-SC-2-11	Water		########		8015B	1	########	98-08-8	a,a,a-Triflu	0.044	mg/L
400-12959	CP-SC-2-11	Water		########		8015B	1	########		Gasoline Ra	0.1	mg/L
400-12959	CP-SC-Bkg-	Solid		########		8015B	1	########	98-08-8	a,a,a-Triflu	0.048	mg/Kg
400-12959	CP-SC-Bkg-	Solid		########		8015B	1	########		Gasoline Ra	0.094	mg/Kg
400-12959	CP-SC-Bkg-	Water		########		8015B	1	########	98-08-8	a,a,a-Triflu	0.046	mg/L
400-12959	CP-SC-Bkg-	Water		########		8015B	1	########		Gasoline Ra	0.1	mg/L
400-12959	CP-SC-3-11	Solid		########		8015B	1	########	98-08-8	a,a,a-Triflu	0.058	mg/Kg
400-12959	CP-SC-3-11	Solid		########		8015B	1	########		Gasoline Ra	0.11	mg/Kg
400-12959	CP-SC-3-11	Water		########		8015B	1	########	98-08-8	a,a,a-Triflu	0.045	mg/L
400-12959	CP-SC-3-11	Water		########		8015B	1	########		Gasoline Ra	0.1	mg/L
400-12959	CP-PD-1-11	Water		########		8015B	1	########	98-08-8	a,a,a-Triflu	0.045	mg/L
400-12959	CP-PD-1-11	Water		########		8015B	1	########		Gasoline Ra	0.1	mg/L
400-12959	CP-CR-Bkg-	Water		########		8015B	1	########	98-08-8	a,a,a-Triflu	0.046	mg/L
400-12959	CP-CR-Bkg-	Water		########		8015B	1	########		Gasoline Ra	0.1	mg/L
400-12959	CP-SC-2-11	Solid		########		8015B	1	########	98-08-8	a,a,a-Triflu	0.056	mg/Kg
400-12959	CP-SC-2-11	Solid		########		8015B	1	########		Gasoline Ra	0.11	mg/Kg
400-12959	CP-PD-1-11	Solid		########		8015B	1	########	98-08-8	a,a,a-Triflu	0.085	mg/Kg
400-12959	CP-PD-1-11	Solid		########		8015B	1	########		Gasoline Ra	0.17	mg/Kg
400-12959	CP-CR-Bkg-	Solid		########		8015B	1	########	98-08-8	a,a,a-Triflu	0.055	mg/Kg
400-12959	CP-CR-Bkg-	Solid		########		8015B	1	########		Gasoline Ra	0.11	mg/Kg
400-12959	CP-CR-1-11	Water		########		8015B	1	########	98-08-8	a,a,a-Triflu	0.045	mg/L
400-12959	CP-CR-1-11	Water		########		8015B	1	########		Gasoline Ra	0.1	mg/L
400-12959	CP-CR-2-11	Water		########		8015B	1	########	98-08-8	a,a,a-Triflu	0.045	mg/L
400-12959	CP-CR-2-11	Water		########		8015B	1	########		Gasoline Ra	0.1	mg/L
400-12959	CP-CR-3-11	Water		########		8015B	1	########	98-08-8	a,a,a-Triflu	0.046	mg/L
400-12959	CP-CR-3-11	Water		########		8015B	1	########		Gasoline Ra	0.1	mg/L
LCS 400-329674/1003		Water	LCS			8015B	1	########	98-08-8	a,a,a-Triflu	0.0482	mg/L
LCS 400-329674/1003		Water	LCS			8015B	1	########		Gasoline Ra	0.946	mg/L
LCS 400-329758/3-A		Solid	LCS			8015B	1	########	98-08-8	a,a,a-Triflu	0.0521	mg/Kg
LCS 400-329758/3-A		Solid	LCS			8015B	1	########		Gasoline Ra	1.07	mg/Kg
LCSD 400-329758/10-A		Solid	LCSD			8015B	1	########	98-08-8	a,a,a-Triflu	0.0501	mg/Kg
LCSD 400-329758/10-A		Solid	LCSD			8015B	1	########		Gasoline Ra	1.03	mg/Kg
MB 400-329674/4		Water	MB			8015B	1	########	98-08-8	a,a,a-Triflu	0.0448	mg/L

MB 400-329674/4	Water	MB		8015B	1	########		Gasoline Ra	0.1	mg/L
MB 400-329758/1-A	Solid	MB		8015B	1	########	98-08-8	a,a,a-Triflu	0.0539	mg/Kg
MB 400-329758/1-A	Solid	MB		8015B	1	########		Gasoline Ra	0.1	mg/Kg
400-12959 CP-SC-2-11	Water		########	8021B	1	########	98-08-8	a,a,a-Triflu	0.046	mg/L
400-12959 CP-SC-2-11	Water		########	8021B	1	########	71-43-2	Benzene	0.001	mg/L
400-12959 CP-SC-2-11	Water		########	8021B	1	########	100-41-4	Ethylbenze	0.001	mg/L
400-12959 CP-SC-2-11	Water		########	8021B	1	########	108-88-3	Toluene	0.005	mg/L
400-12959 CP-SC-2-11	Water		########	8021B	1	########	1330-20-7	Xylenes, To	0.005	mg/L
400-12959 CP-SC-Bkg-	Solid		########	8021B	1	########	98-08-8	a,a,a-Triflu	0.047	mg/Kg
400-12959 CP-SC-Bkg-	Solid		########	8021B	1	########	71-43-2	Benzene	0.00094	mg/Kg
400-12959 CP-SC-Bkg-	Solid		########	8021B	1	########	100-41-4	Ethylbenze	0.00094	mg/Kg
400-12959 CP-SC-Bkg-	Solid		########	8021B	1	########	108-88-3	Toluene	0.0047	mg/Kg
400-12959 CP-SC-Bkg-	Solid		########	8021B	1	########	1330-20-7	Xylenes, To	0.0047	mg/Kg
400-12959 CP-SC-Bkg-	Water		########	8021B	1	########	98-08-8	a,a,a-Triflu	0.047	mg/L
400-12959 CP-SC-Bkg-	Water		########	8021B	1	########	71-43-2	Benzene	0.001	mg/L
400-12959 CP-SC-Bkg-	Water		########	8021B	1	########	100-41-4	Ethylbenze	0.001	mg/L
400-12959 CP-SC-Bkg-	Water		########	8021B	1	########	108-88-3	Toluene	0.005	mg/L
400-12959 CP-SC-Bkg-	Water		########	8021B	1	########	1330-20-7	Xylenes, To	0.005	mg/L
400-12959 CP-SC-3-11	Solid		########	8021B	1	########	98-08-8	a,a,a-Triflu	0.055	mg/Kg
400-12959 CP-SC-3-11	Solid		########	8021B	1	########	71-43-2	Benzene	0.0011	mg/Kg
400-12959 CP-SC-3-11	Solid		########	8021B	1	########	100-41-4	Ethylbenze	0.0011	mg/Kg
400-12959 CP-SC-3-11	Solid		########	8021B	1	########	108-88-3	Toluene	0.0056	mg/Kg
400-12959 CP-SC-3-11	Solid		########	8021B	1	########	1330-20-7	Xylenes, To	0.0056	mg/Kg
400-12959 CP-SC-3-11	Water		########	8021B	1	########	98-08-8	a,a,a-Triflu	0.047	mg/L
400-12959 CP-SC-3-11	Water		########	8021B	1	########	71-43-2	Benzene	0.001	mg/L
400-12959 CP-SC-3-11	Water		########	8021B	1	########	100-41-4	Ethylbenze	0.001	mg/L
400-12959 CP-SC-3-11	Water		########	8021B	1	########	108-88-3	Toluene	0.005	mg/L
400-12959 CP-SC-3-11	Water		########	8021B	1	########	1330-20-7	Xylenes, To	0.005	mg/L
400-12959 TRIP BLANK	Water	TB	########	8021B	1	########	98-08-8	a,a,a-Triflu	0.046	mg/L
400-12959 TRIP BLANK	Water	TB	########	8021B	1	########	71-43-2	Benzene	0.001	mg/L
400-12959 TRIP BLANK	Water	TB	########	8021B	1	########	100-41-4	Ethylbenze	0.001	mg/L
400-12959 TRIP BLANK	Water	TB	########	8021B	1	########	108-88-3	Toluene	0.005	mg/L
400-12959 TRIP BLANK	Water	TB	########	8021B	1	########	1330-20-7	Xylenes, To	0.005	mg/L
400-12959 CP-PD-1-11	Water		########	8021B	1	########	98-08-8	a,a,a-Triflu	0.046	mg/L

400-12959	CP-PD-1-11	Water	########	8021B	1	########	71-43-2	Benzene	0.001 mg/L
400-12959	CP-PD-1-11	Water	########	8021B	1	########	100-41-4	Ethylbenze	0.001 mg/L
400-12959	CP-PD-1-11	Water	########	8021B	1	########	108-88-3	Toluene	0.005 mg/L
400-12959	CP-PD-1-11	Water	########	8021B	1	########	1330-20-7	Xylenes, Tc	0.005 mg/L
400-12959	CP-CR-Bkg-	Water	########	8021B	1	########	98-08-8	a,a,a-Triflu	0.047 mg/L
400-12959	CP-CR-Bkg-	Water	########	8021B	1	########	71-43-2	Benzene	0.001 mg/L
400-12959	CP-CR-Bkg-	Water	########	8021B	1	########	100-41-4	Ethylbenze	0.001 mg/L
400-12959	CP-CR-Bkg-	Water	########	8021B	1	########	108-88-3	Toluene	0.005 mg/L
400-12959	CP-CR-Bkg-	Water	########	8021B	1	########	1330-20-7	Xylenes, Tc	0.005 mg/L
400-12959	CP-SC-2-11	Solid	########	8021B	1	########	98-08-8	a,a,a-Triflu	0.055 mg/Kg
400-12959	CP-SC-2-11	Solid	########	8021B	1	########	71-43-2	Benzene	0.0011 mg/Kg
400-12959	CP-SC-2-11	Solid	########	8021B	1	########	100-41-4	Ethylbenze	0.0011 mg/Kg
400-12959	CP-SC-2-11	Solid	########	8021B	1	########	108-88-3	Toluene	0.0054 mg/Kg
400-12959	CP-SC-2-11	Solid	########	8021B	1	########	1330-20-7	Xylenes, Tc	0.0054 mg/Kg
400-12959	CP-PD-1-11	Solid	########	8021B	1	########	98-08-8	a,a,a-Triflu	0.083 mg/Kg
400-12959	CP-PD-1-11	Solid	########	8021B	1	########	71-43-2	Benzene	0.0017 mg/Kg
400-12959	CP-PD-1-11	Solid	########	8021B	1	########	100-41-4	Ethylbenze	0.0017 mg/Kg
400-12959	CP-PD-1-11	Solid	########	8021B	1	########	108-88-3	Toluene	0.0082 mg/Kg
400-12959	CP-PD-1-11	Solid	########	8021B	1	########	1330-20-7	Xylenes, Tc	0.0084 mg/Kg
400-12959	CP-CR-Bkg-	Solid	########	8021B	1	########	98-08-8	a,a,a-Triflu	0.054 mg/Kg
400-12959	CP-CR-Bkg-	Solid	########	8021B	1	########	71-43-2	Benzene	0.0011 mg/Kg
400-12959	CP-CR-Bkg-	Solid	########	8021B	1	########	100-41-4	Ethylbenze	0.0011 mg/Kg
400-12959	CP-CR-Bkg-	Solid	########	8021B	1	########	108-88-3	Toluene	0.0053 mg/Kg
400-12959	CP-CR-Bkg-	Solid	########	8021B	1	########	1330-20-7	Xylenes, Tc	0.0053 mg/Kg
400-12959	CP-CR-1-11	Water	########	8021B	1	########	98-08-8	a,a,a-Triflu	0.047 mg/L
400-12959	CP-CR-1-11	Water	########	8021B	1	########	71-43-2	Benzene	0.001 mg/L
400-12959	CP-CR-1-11	Water	########	8021B	1	########	100-41-4	Ethylbenze	0.001 mg/L
400-12959	CP-CR-1-11	Water	########	8021B	1	########	108-88-3	Toluene	0.005 mg/L
400-12959	CP-CR-1-11	Water	########	8021B	1	########	1330-20-7	Xylenes, Tc	0.005 mg/L
400-12959	CP-CR-2-11	Water	########	8021B	1	########	98-08-8	a,a,a-Triflu	0.047 mg/L
400-12959	CP-CR-2-11	Water	########	8021B	1	########	71-43-2	Benzene	0.001 mg/L
400-12959	CP-CR-2-11	Water	########	8021B	1	########	100-41-4	Ethylbenze	0.001 mg/L
400-12959	CP-CR-2-11	Water	########	8021B	1	########	108-88-3	Toluene	0.005 mg/L
400-12959	CP-CR-2-11	Water	########	8021B	1	########	1330-20-7	Xylenes, Tc	0.005 mg/L

400-12959 CP-CR-3-11	Water		########	8021B	1	########	98-08-8	a,a,a-Triflu	0.047	mg/L
400-12959 CP-CR-3-11	Water		########	8021B	1	########	71-43-2	Benzene	0.001	mg/L
400-12959 CP-CR-3-11	Water		########	8021B	1	########	100-41-4	Ethylbenze	0.001	mg/L
400-12959 CP-CR-3-11	Water		########	8021B	1	########	108-88-3	Toluene	0.005	mg/L
400-12959 CP-CR-3-11	Water		########	8021B	1	########	1330-20-7	Xylenes, Tc	0.005	mg/L
LCS 400-329672/1002	Water	LCS		8021B	1	########	98-08-8	a,a,a-Triflu	0.0481	mg/L
LCS 400-329672/1002	Water	LCS		8021B	1	########	71-43-2	Benzene	0.0452	mg/L
LCS 400-329672/1002	Water	LCS		8021B	1	########	100-41-4	Ethylbenze	0.046	mg/L
LCS 400-329672/1002	Water	LCS		8021B	1	########	108-88-3	Toluene	0.0452	mg/L
LCS 400-329672/1002	Water	LCS		8021B	1	########	1330-20-7	Xylenes, Tc	0.136	mg/L
LCS 400-329758/2-A	Solid	LCS		8021B	1	########	98-08-8	a,a,a-Triflu	0.0497	mg/Kg
LCS 400-329758/2-A	Solid	LCS		8021B	1	########	71-43-2	Benzene	0.0495	mg/Kg
LCS 400-329758/2-A	Solid	LCS		8021B	1	########	100-41-4	Ethylbenze	0.0485	mg/Kg
LCS 400-329758/2-A	Solid	LCS		8021B	1	########	108-88-3	Toluene	0.0494	mg/Kg
LCS 400-329758/2-A	Solid	LCS		8021B	1	########	1330-20-7	Xylenes, Tc	0.145	mg/Kg
LCSD 400-329758/9-A	Solid	LCSD		8021B	1	########	98-08-8	a,a,a-Triflu	0.0497	mg/Kg
LCSD 400-329758/9-A	Solid	LCSD		8021B	1	########	71-43-2	Benzene	0.05	mg/Kg
LCSD 400-329758/9-A	Solid	LCSD		8021B	1	########	100-41-4	Ethylbenze	0.0492	mg/Kg
LCSD 400-329758/9-A	Solid	LCSD		8021B	1	########	108-88-3	Toluene	0.0502	mg/Kg
LCSD 400-329758/9-A	Solid	LCSD		8021B	1	########	1330-20-7	Xylenes, Tc	0.148	mg/Kg
MB 400-329672/4	Water	MB		8021B	1	########	98-08-8	a,a,a-Triflu	0.0461	mg/L
MB 400-329672/4	Water	MB		8021B	1	########	71-43-2	Benzene	0.001	mg/L
MB 400-329672/4	Water	MB		8021B	1	########	100-41-4	Ethylbenze	0.001	mg/L
MB 400-329672/4	Water	MB		8021B	1	########	108-88-3	Toluene	0.005	mg/L
MB 400-329672/4	Water	MB		8021B	1	########	1330-20-7	Xylenes, Tc	0.005	mg/L
MB 400-329758/1-A	Solid	MB		8021B	1	########	98-08-8	a,a,a-Triflu	0.051	mg/Kg
MB 400-329758/1-A	Solid	MB		8021B	1	########	71-43-2	Benzene	0.001	mg/Kg
MB 400-329758/1-A	Solid	MB		8021B	1	########	100-41-4	Ethylbenze	0.001	mg/Kg
MB 400-329758/1-A	Solid	MB		8021B	1	########	108-88-3	Toluene	0.005	mg/Kg
MB 400-329758/1-A	Solid	MB		8021B	1	########	1330-20-7	Xylenes, Tc	0.005	mg/Kg

Flag	High Limit	High Limit	Low Limit	Low Limit	Percent Re	Lower Rec	Upper Rec	RPD	RPD Limit	Receipt Lat	Project Des	SDG
					89	78	119				TestAmeric	Colonial Pipeline Gasol
U	0.1	RL	0.047	MDL							TestAmeric	Colonial Pipeline Gasol
					102	65	125				TestAmeric	Colonial Pipeline Gasol
U	0.094	RL	0.047	MDL							TestAmeric	Colonial Pipeline Gasol
					91	78	119				TestAmeric	Colonial Pipeline Gasol
U	0.1	RL	0.047	MDL							TestAmeric	Colonial Pipeline Gasol
					104	65	125				TestAmeric	Colonial Pipeline Gasol
U	0.11	RL	0.056	MDL							TestAmeric	Colonial Pipeline Gasol
					91	78	119				TestAmeric	Colonial Pipeline Gasol
U	0.1	RL	0.047	MDL							TestAmeric	Colonial Pipeline Gasol
					89	78	119				TestAmeric	Colonial Pipeline Gasol
U	0.1	RL	0.047	MDL							TestAmeric	Colonial Pipeline Gasol
					91	78	119				TestAmeric	Colonial Pipeline Gasol
U	0.1	RL	0.047	MDL							TestAmeric	Colonial Pipeline Gasol
					103	65	125				TestAmeric	Colonial Pipeline Gasol
U	0.11	RL	0.054	MDL							TestAmeric	Colonial Pipeline Gasol
					101	65	125				TestAmeric	Colonial Pipeline Gasol
U	0.17	RL	0.084	MDL							TestAmeric	Colonial Pipeline Gasol
					104	65	125				TestAmeric	Colonial Pipeline Gasol
U	0.11	RL	0.053	MDL							TestAmeric	Colonial Pipeline Gasol
					91	78	119				TestAmeric	Colonial Pipeline Gasol
U	0.1	RL	0.047	MDL							TestAmeric	Colonial Pipeline Gasol
					91	78	119				TestAmeric	Colonial Pipeline Gasol
U	0.1	RL	0.047	MDL							TestAmeric	Colonial Pipeline Gasol
					91	78	119				TestAmeric	Colonial Pipeline Gasol
U	0.1	RL	0.047	MDL							TestAmeric	Colonial Pipeline Gasol
					96	78	119					Colonial Pipeline Gasol
	0.1	RL	0.047	MDL	95	85	115					Colonial Pipeline Gasol
					104	65	125					Colonial Pipeline Gasol
	0.1	RL	0.05	MDL	107	62	141	3	50			Colonial Pipeline Gasol
					100	65	125					Colonial Pipeline Gasol
	0.1	RL	0.05	MDL	103	62	141	3	50			Colonial Pipeline Gasol
					90	78	119					Colonial Pipeline Gasol

U	0.1 RL	0.047 MDL				Colonial Pipeline Gasol
			108	65	125	Colonial Pipeline Gasol
U	0.1 RL	0.05 MDL				Colonial Pipeline Gasol
			92	78	124	TestAmeric Colonial Pipeline Gasol
U	0.001 RL	0.00045 MDL				TestAmeric Colonial Pipeline Gasol
U	0.001 RL	0.00064 MDL				TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.00098 MDL				TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.0017 MDL				TestAmeric Colonial Pipeline Gasol
			100	40	150	TestAmeric Colonial Pipeline Gasol
U	0.00094 RL	0.00064 MDL				TestAmeric Colonial Pipeline Gasol
U	0.00094 RL	0.00061 MDL				TestAmeric Colonial Pipeline Gasol
U	0.0047 RL	0.001 MDL				TestAmeric Colonial Pipeline Gasol
U	0.0047 RL	0.0019 MDL				TestAmeric Colonial Pipeline Gasol
			94	78	124	TestAmeric Colonial Pipeline Gasol
U	0.001 RL	0.00045 MDL				TestAmeric Colonial Pipeline Gasol
U	0.001 RL	0.00064 MDL				TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.00098 MDL				TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.0017 MDL				TestAmeric Colonial Pipeline Gasol
			98	40	150	TestAmeric Colonial Pipeline Gasol
U	0.0011 RL	0.00076 MDL				TestAmeric Colonial Pipeline Gasol
U	0.0011 RL	0.00073 MDL				TestAmeric Colonial Pipeline Gasol
U	0.0056 RL	0.0012 MDL				TestAmeric Colonial Pipeline Gasol
U	0.0056 RL	0.0022 MDL				TestAmeric Colonial Pipeline Gasol
			93	78	124	TestAmeric Colonial Pipeline Gasol
U	0.001 RL	0.00045 MDL				TestAmeric Colonial Pipeline Gasol
U	0.001 RL	0.00064 MDL				TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.00098 MDL				TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.0017 MDL				TestAmeric Colonial Pipeline Gasol
			92	78	124	TestAmeric Colonial Pipeline Gasol
U	0.001 RL	0.00045 MDL				TestAmeric Colonial Pipeline Gasol
U	0.001 RL	0.00064 MDL				TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.00098 MDL				TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.0017 MDL				TestAmeric Colonial Pipeline Gasol
			92	78	124	TestAmeric Colonial Pipeline Gasol

U	0.001 RL	0.00045 MDL				TestAmeric Colonial Pipeline Gasol
U	0.001 RL	0.00064 MDL				TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.00098 MDL				TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.0017 MDL				TestAmeric Colonial Pipeline Gasol
			94	78	124	TestAmeric Colonial Pipeline Gasol
U	0.001 RL	0.00045 MDL				TestAmeric Colonial Pipeline Gasol
U	0.001 RL	0.00064 MDL				TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.00098 MDL				TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.0017 MDL				TestAmeric Colonial Pipeline Gasol
			102	40	150	TestAmeric Colonial Pipeline Gasol
U	0.0011 RL	0.00074 MDL				TestAmeric Colonial Pipeline Gasol
U	0.0011 RL	0.00071 MDL				TestAmeric Colonial Pipeline Gasol
U	0.0054 RL	0.0012 MDL				TestAmeric Colonial Pipeline Gasol
U	0.0054 RL	0.0022 MDL				TestAmeric Colonial Pipeline Gasol
			99	40	150	TestAmeric Colonial Pipeline Gasol
U	0.0017 RL	0.0011 MDL				TestAmeric Colonial Pipeline Gasol
U	0.0017 RL	0.0011 MDL				TestAmeric Colonial Pipeline Gasol
J	0.0084 RL	0.0018 MDL				TestAmeric Colonial Pipeline Gasol
U	0.0084 RL	0.0034 MDL				TestAmeric Colonial Pipeline Gasol
			101	40	150	TestAmeric Colonial Pipeline Gasol
U	0.0011 RL	0.00072 MDL				TestAmeric Colonial Pipeline Gasol
U	0.0011 RL	0.00069 MDL				TestAmeric Colonial Pipeline Gasol
U	0.0053 RL	0.0012 MDL				TestAmeric Colonial Pipeline Gasol
U	0.0053 RL	0.0021 MDL				TestAmeric Colonial Pipeline Gasol
			93	78	124	TestAmeric Colonial Pipeline Gasol
U	0.001 RL	0.00045 MDL				TestAmeric Colonial Pipeline Gasol
U	0.001 RL	0.00064 MDL				TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.00098 MDL				TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.0017 MDL				TestAmeric Colonial Pipeline Gasol
			93	78	124	TestAmeric Colonial Pipeline Gasol
U	0.001 RL	0.00045 MDL				TestAmeric Colonial Pipeline Gasol
U	0.001 RL	0.00064 MDL				TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.00098 MDL				TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.0017 MDL				TestAmeric Colonial Pipeline Gasol

			94	78	124			TestAmeric Colonial Pipeline Gasol
U	0.001 RL	0.00045 MDL						TestAmeric Colonial Pipeline Gasol
U	0.001 RL	0.00064 MDL						TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.00098 MDL						TestAmeric Colonial Pipeline Gasol
U	0.005 RL	0.0017 MDL						TestAmeric Colonial Pipeline Gasol
			96	78	124			Colonial Pipeline Gasol
	0.001 RL	0.00045 MDL	90	85	115			Colonial Pipeline Gasol
	0.001 RL	0.00064 MDL	92	85	115			Colonial Pipeline Gasol
	0.005 RL	0.00098 MDL	90	85	115			Colonial Pipeline Gasol
	0.005 RL	0.0017 MDL	91	85	115			Colonial Pipeline Gasol
			99	40	150			Colonial Pipeline Gasol
	0.001 RL	0.00068 MDL	99	74	127	1	50	Colonial Pipeline Gasol
	0.001 RL	0.00065 MDL	97	79	131	2	50	Colonial Pipeline Gasol
	0.005 RL	0.0011 MDL	99	76	127	2	50	Colonial Pipeline Gasol
	0.005 RL	0.002 MDL	97	80	129	2	50	Colonial Pipeline Gasol
			99	40	150			Colonial Pipeline Gasol
	0.001 RL	0.00068 MDL	100	74	127	1	50	Colonial Pipeline Gasol
	0.001 RL	0.00065 MDL	98	79	131	2	50	Colonial Pipeline Gasol
	0.005 RL	0.0011 MDL	100	76	127	2	50	Colonial Pipeline Gasol
	0.005 RL	0.002 MDL	98	80	129	2	50	Colonial Pipeline Gasol
			92	78	124			Colonial Pipeline Gasol
U	0.001 RL	0.00045 MDL						Colonial Pipeline Gasol
U	0.001 RL	0.00064 MDL						Colonial Pipeline Gasol
U	0.005 RL	0.00098 MDL						Colonial Pipeline Gasol
U	0.005 RL	0.0017 MDL						Colonial Pipeline Gasol
			102	40	150			Colonial Pipeline Gasol
U	0.001 RL	0.00068 MDL						Colonial Pipeline Gasol
U	0.001 RL	0.00065 MDL						Colonial Pipeline Gasol
U	0.005 RL	0.0011 MDL						Colonial Pipeline Gasol
U	0.005 RL	0.002 MDL						Colonial Pipeline Gasol

Lab Job ID	COC ID	Sample Typ	Receive Da	Total Samp	Total Samp	Leach Batc	Leach Metl	Leach Date	Prep Batch	Prep Meth	Prep Date	Prep Type
400-129595-1			########									Total/NA
400-129595-1			########									Total/NA
400-129595-1			########						400-32975	5035	########	Total/NA
400-129595-1			########						400-32975	5035	########	Total/NA
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400-129595-1		Method Blank										Total/NA

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400-129595-1	Method Blank	400-32975	5035	########	Total/NA
400-129595-1	Method Blank	400-32975	5035	########	Total/NA
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400-129595-1	Lab Control Sample Duplicate	400-32975	5035	######## Total/NA
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400-129595-1	Lab Control Sample Duplicate	400-32975	5035	######## Total/NA
400-129595-1	Method Blank	400-32967	5030	######## Total/NA
400-129595-1	Method Blank	400-32967	5030	######## Total/NA
400-129595-1	Method Blank	400-32967	5030	######## Total/NA
400-129595-1	Method Blank	400-32967	5030	######## Total/NA
400-129595-1	Method Blank	400-32967	5030	######## Total/NA
400-129595-1	Method Blank	400-32975	5035	######## Total/NA
400-129595-1	Method Blank	400-32975	5035	######## Total/NA
400-129595-1	Method Blank	400-32975	5035	######## Total/NA
400-129595-1	Method Blank	400-32975	5035	######## Total/NA
400-129595-1	Method Blank	400-32975	5035	######## Total/NA

Initial Amo	Initial Amo	Final Amou	Final Amou	Re-Analysis	Analysis Ba	Analysis La	Instrument	Column_De	Basis	Analyte Ty	Result Stat	TPU
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Surrogate	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Target	PRIMARY	
5.34	g	5	g		400-32974	TestAmeric	CH_RITA	2C	WET	Surrogate	PRIMARY	
5.34	g	5	g		400-32974	TestAmeric	CH_RITA	2C	WET	Target	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Surrogate	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Target	PRIMARY	
4.45	g	5	g		400-32974	TestAmeric	CH_RITA	2C	WET	Surrogate	PRIMARY	
4.45	g	5	g		400-32974	TestAmeric	CH_RITA	2C	WET	Target	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Surrogate	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Target	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Surrogate	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Target	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Surrogate	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Target	PRIMARY	
4.6	g	5	g		400-32974	TestAmeric	CH_RITA	2C	WET	Surrogate	PRIMARY	
4.6	g	5	g		400-32974	TestAmeric	CH_RITA	2C	WET	Target	PRIMARY	
2.98	g	5	g		400-32974	TestAmeric	CH_RITA	2C	WET	Surrogate	PRIMARY	
2.98	g	5	g		400-32974	TestAmeric	CH_RITA	2C	WET	Target	PRIMARY	
4.69	g	5	g		400-32974	TestAmeric	CH_RITA	2C	WET	Surrogate	PRIMARY	
4.69	g	5	g		400-32974	TestAmeric	CH_RITA	2C	WET	Target	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Surrogate	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Target	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Surrogate	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Target	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Surrogate	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Target	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Surrogate	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Spike	PRIMARY	
5	g	5	g		400-32974	TestAmeric	CH_RITA	2C	WET	Surrogate	PRIMARY	
5	g	5	g		400-32974	TestAmeric	CH_RITA	2C	WET	Spike	PRIMARY	
5	g	5	g		400-32974	TestAmeric	CH_RITA	2C	WET	Surrogate	PRIMARY	
5	g	5	g		400-32974	TestAmeric	CH_RITA	2C	WET	Spike	PRIMARY	
5	mL	5	mL		400-32967	TestAmeric	CH_JOAN	2C	WET	Surrogate	PRIMARY	

5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	2C	WET	Target	PRIMARY
5 g	5 g	400-32974	TestAmeric	CH_RITA	2C	WET	Surrogate	PRIMARY
5 g	5 g	400-32974	TestAmeric	CH_RITA	2C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Surrogate	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5.34 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Surrogate	PRIMARY
5.34 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
5.34 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
5.34 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
5.34 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Surrogate	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
4.45 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Surrogate	PRIMARY
4.45 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
4.45 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
4.45 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
4.45 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Surrogate	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Surrogate	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Surrogate	PRIMARY

5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Surrogate	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
4.6 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Surrogate	PRIMARY
4.6 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
4.6 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
4.6 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
4.6 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
2.98 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Surrogate	PRIMARY
2.98 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
2.98 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
2.98 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
2.98 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
4.69 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Surrogate	PRIMARY
4.69 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
4.69 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
4.69 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
4.69 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Surrogate	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Surrogate	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY

5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Surrogate	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Surrogate	PRIMARY
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5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Spike	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Spike	PRIMARY
5 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Surrogate	PRIMARY
5 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Spike	PRIMARY
5 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Spike	PRIMARY
5 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Spike	PRIMARY
5 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Spike	PRIMARY
5 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Surrogate	PRIMARY
5 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Spike	PRIMARY
5 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Spike	PRIMARY
5 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Spike	PRIMARY
5 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Spike	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Surrogate	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 mL	5 mL	400-32967	TestAmeric	CH_JOAN	1C	WET	Target	PRIMARY
5 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Surrogate	PRIMARY
5 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
5 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
5 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY
5 g	5 g	400-32974	TestAmeric	CH_RITA	1C	WET	Target	PRIMARY

TPU Sigma	Decision Le	Retention ˜	Spike Amo	Expected A	RER	RER Limit	Lower Bree	Upper Breech Limit
		7.075	0.05	0.05				
		9.058						
		7.326	0.0468	0.0468				
		9.147						
		7.078	0.05	0.05				
		9.058						
		7.326	0.0562	0.0562				
		9.147						
		7.078	0.05	0.05				
		9.051						
		7.077	0.05	0.05				
		9.058						
		7.076	0.05	0.05				
		9.062						
		7.323	0.0543	0.0543				
		9.147						
		7.326	0.0839	0.0839				
		9.147						
		7.326	0.0533	0.0533				
		9.147						
		7.077	0.05	0.05				
		9.051						
		7.077	0.05	0.05				
		9.056						
		7.078	0.05	0.05				
		9.06						
		7.079	0.05	0.05				
		9.051	1					
		7.325	0.05	0.05				
		9.147	1					
		7.324	0.05	0.05				
		9.147	1					
		7.076	0.05	0.05				

9.051		
7.322	0.05	0.05
9.147		
7.074	0.05	0.05
5.474		
10.509		
8.578		
7.326	0.0468	0.0468
5.887		
10.607		
8.757		
7.078	0.05	0.05
5.476		
10.5		
8.578		
7.324	0.0562	0.0562
5.912		
10.604		
8.768		
7.075	0.05	0.05
5.502		
10.51		
8.578		
7.072	0.05	0.05
5.489		
10.497		
8.585		
7.075	0.05	0.05

5.472		
10.51		
8.58		
7.074	0.05	0.05
5.507		
10.501		
8.578		
7.323	0.0543	0.0543
5.9		
10.623		
8.752		
7.325	0.0839	0.0839
5.917		
10.563		
8.771		
7.327	0.0533	0.0533
10.663		
8.769		
7.075	0.05	0.05
5.499		
10.499		
8.582		
7.075	0.05	0.05
5.49		
10.486		
8.575		

7.074	0.05	0.05
5.495		
10.49		
8.585		
7.077	0.05	0.05
5.51	0.05	
10.496	0.05	
8.573	0.05	
	0.15	
7.323	0.05	0.05
5.867	0.05	
10.612	0.05	
8.755	0.05	
	0.15	
7.326	0.05	0.05
5.875	0.05	
10.615	0.05	
8.756	0.05	
	0.15	
7.075	0.05	0.05
5.504		
10.508		
8.58		
7.323	0.05	0.05
5.822		
10.579		
8.801		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-129595-1
Client Project/Site: Colonial Pipeline Gasoline Spill

For:
Tetra Tech EM Inc.
1955 Evergreen Blvd.
Bldg. 200; Suite 300
Duluth, Georgia 30096

Attn: Ms. Jessica Vickers

Carol M Webb

Authorized for release by:
11/4/2016 7:57:34 PM

Carol Webb, Project Manager II
(850)471-6250
carol.webb@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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3

Job ID: 400-129595-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-129595-1

Comments
No additional comments.

Receipt
The samples were received on 11/4/2016 8:53 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

Receipt Exceptions
A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

GC VOA
Method 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 400-329758 and analytical batch 400-329747. LCS/LCSD data is provided.

Method 8021B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 400-329758 and analytical batch 400-329746. LCS/LCSD data is provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

4

Client Sample ID: CP-SC-2-110216-SW — Lab Sample ID: 400-129595-1

No Detections.

Client Sample ID: CP-PD-1-110216-SW — Lab Sample ID: 400-129595-2

No Detections.

Client Sample ID: CP-CR-Bkg-110216-SW — Lab Sample ID: 400-129595-3

No Detections.

Client Sample ID: CP-SC-2-110216-SD — Lab Sample ID: 400-129595-4

No Detections.

Client Sample ID: CP-PD-1-110216-SD — Lab Sample ID: 400-129595-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.0082	J	0.0084	0.0018	mg/Kg	1		8021B	Total/NA

Client Sample ID: CP-CR-Bkg-110216-SD — Lab Sample ID: 400-129595-6

No Detections.

Client Sample ID: CP-CR-1-110316-SW — Lab Sample ID: 400-129595-7

No Detections.

Client Sample ID: CP-CR-2-110316-SW — Lab Sample ID: 400-129595-8

No Detections.

Client Sample ID: CP-CR-3-110316-SW — Lab Sample ID: 400-129595-9

No Detections.

Client Sample ID: CP-SC-Bkg-110316-SD — Lab Sample ID: 400-129595-10

No Detections.

Client Sample ID: CP-SC-Bkg-110316-SW — Lab Sample ID: 400-129595-11

No Detections.

Client Sample ID: CP-SC-3-110316-SD — Lab Sample ID: 400-129595-12

No Detections.

Client Sample ID: CP-SC-3-110316-SW — Lab Sample ID: 400-129595-13

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-129595-14

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-129595-1	CP-SC-2-110216-SW	Water	11/02/16 14:10	11/04/16 08:53
400-129595-2	CP-PD-1-110216-SW	Water	11/02/16 15:15	11/04/16 08:53
400-129595-3	CP-CR-Bkg-110216-SW	Water	11/02/16 15:40	11/04/16 08:53
400-129595-4	CP-SC-2-110216-SD	Solid	11/02/16 14:10	11/04/16 08:53
400-129595-5	CP-PD-1-110216-SD	Solid	11/02/16 15:15	11/04/16 08:53
400-129595-6	CP-CR-Bkg-110216-SD	Solid	11/02/16 15:40	11/04/16 08:53
400-129595-7	CP-CR-1-110316-SW	Water	11/03/16 10:00	11/04/16 08:53
400-129595-8	CP-CR-2-110316-SW	Water	11/03/16 10:40	11/04/16 08:53
400-129595-9	CP-CR-3-110316-SW	Water	11/03/16 11:15	11/04/16 08:53
400-129595-10	CP-SC-Bkg-110316-SD	Solid	11/03/16 14:15	11/04/16 08:53
400-129595-11	CP-SC-Bkg-110316-SW	Water	11/03/16 14:15	11/04/16 08:53
400-129595-12	CP-SC-3-110316-SD	Solid	11/03/16 15:30	11/04/16 08:53
400-129595-13	CP-SC-3-110316-SW	Water	11/03/16 15:30	11/04/16 08:53
400-129595-14	TRIP BLANK	Water	11/03/16 00:00	11/04/16 08:53

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: CP-SC-2-110216-SW

Lab Sample ID: 400-129595-1

Date Collected: 11/02/16 14:10
Date Received: 11/04/16 08:53

Matrix: Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	0.10	U	0.10	0.047	mg/L			11/04/16 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*89*		*78 - 119*		*11/04/16 11:50*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0010	U	0.0010	0.00045	mg/L			11/04/16 11:50	1
Ethylbenzene	0.0010	U	0.0010	0.00064	mg/L			11/04/16 11:50	1
Toluene	0.0050	U	0.0050	0.00098	mg/L			11/04/16 11:50	1
Xylenes, Total	0.0050	U	0.0050	0.0017	mg/L			11/04/16 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*78 - 124*		*11/04/16 11:50*	*1*

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: CP-PD-1-110216-SW

Lab Sample ID: 400-129595-2

Date Collected: 11/02/16 15:15
Date Received: 11/04/16 08:53

Matrix: Water

6

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	0.10	U	0.10	0.047	mg/L			11/04/16 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*89*		*78 - 119*		*11/04/16 12:24*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0010	U	0.0010	0.00045	mg/L			11/04/16 12:24	1
Ethylbenzene	0.0010	U	0.0010	0.00064	mg/L			11/04/16 12:24	1
Toluene	0.0050	U	0.0050	0.00098	mg/L			11/04/16 12:24	1
Xylenes, Total	0.0050	U	0.0050	0.0017	mg/L			11/04/16 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*78 - 124*		*11/04/16 12:24*	*1*

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: CP-CR-Bkg-110216-SW

Lab Sample ID: 400-129595-3

Date Collected: 11/02/16 15:40
Date Received: 11/04/16 08:53

Matrix: Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	0.10	U	0.10	0.047	mg/L			11/04/16 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*78 - 119*		*11/04/16 12:59*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0010	U	0.0010	0.00045	mg/L			11/04/16 12:59	1
Ethylbenzene	0.0010	U	0.0010	0.00064	mg/L			11/04/16 12:59	1
Toluene	0.0050	U	0.0050	0.00098	mg/L			11/04/16 12:59	1
Xylenes, Total	0.0050	U	0.0050	0.0017	mg/L			11/04/16 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*94*		*78 - 124*		*11/04/16 12:59*	*1*

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: CP-SC-2-110216-SD

Lab Sample ID: 400-129595-4
Matrix: Solid

Date Collected: 11/02/16 14:10
Date Received: 11/04/16 08:53

6

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	0.11	U	0.11	0.054	mg/Kg		11/04/16 10:20	11/04/16 11:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*103*		*65 - 125*	*11/04/16 10:20*	*11/04/16 11:16*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0011	U	0.0011	0.00074	mg/Kg		11/04/16 10:20	11/04/16 11:16	1
Ethylbenzene	0.0011	U	0.0011	0.00071	mg/Kg		11/04/16 10:20	11/04/16 11:16	1
Toluene	0.0054	U	0.0054	0.0012	mg/Kg		11/04/16 10:20	11/04/16 11:16	1
Xylenes, Total	0.0054	U	0.0054	0.0022	mg/Kg		11/04/16 10:20	11/04/16 11:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*102*		*40 - 150*	*11/04/16 10:20*	*11/04/16 11:16*	*1*

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: CP-PD-1-110216-SD

Date Collected: 11/02/16 15:15
Date Received: 11/04/16 08:53

Lab Sample ID: 400-129595-5
Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	0.17	U	0.17	0.084	mg/Kg		11/04/16 10:20	11/04/16 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*65 - 125*	*11/04/16 10:20*	*11/04/16 11:43*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0017	U	0.0017	0.0011	mg/Kg		11/04/16 10:20	11/04/16 11:43	1
Ethylbenzene	0.0017	U	0.0017	0.0011	mg/Kg		11/04/16 10:20	11/04/16 11:43	1
Toluene	**0.0082**	**J**	0.0084	0.0018	mg/Kg		11/04/16 10:20	11/04/16 11:43	1
Xylenes, Total	0.0084	U	0.0084	0.0034	mg/Kg		11/04/16 10:20	11/04/16 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*99*		*40 - 150*	*11/04/16 10:20*	*11/04/16 11:43*	*1*

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: CP-CR-Bkg-110216-SD

Lab Sample ID: 400-129595-6

Date Collected: 11/02/16 15:40
Matrix: Solid
Date Received: 11/04/16 08:53

6

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	0.11	U	0.11	0.053	mg/Kg		11/04/16 10:20	11/04/16 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*104*		*65 - 125*	*11/04/16 10:20*	*11/04/16 12:10*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0011	U	0.0011	0.00072	mg/Kg		11/04/16 10:20	11/04/16 12:10	1
Ethylbenzene	0.0011	U	0.0011	0.00069	mg/Kg		11/04/16 10:20	11/04/16 12:10	1
Toluene	0.0053	U	0.0053	0.0012	mg/Kg		11/04/16 10:20	11/04/16 12:10	1
Xylenes, Total	0.0053	U	0.0053	0.0021	mg/Kg		11/04/16 10:20	11/04/16 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*101*		*40 - 150*	*11/04/16 10:20*	*11/04/16 12:10*	*1*

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: CP-CR-1-110316-SW

Lab Sample ID: 400-129595-7

Date Collected: 11/03/16 10:00
Date Received: 11/04/16 08:53

Matrix: Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	0.10	U	0.10	0.047	mg/L			11/04/16 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*78 - 119*		*11/04/16 13:34*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0010	U	0.0010	0.00045	mg/L			11/04/16 13:34	1
Ethylbenzene	0.0010	U	0.0010	0.00064	mg/L			11/04/16 13:34	1
Toluene	0.0050	U	0.0050	0.00098	mg/L			11/04/16 13:34	1
Xylenes, Total	0.0050	U	0.0050	0.0017	mg/L			11/04/16 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*78 - 124*		*11/04/16 13:34*	*1*

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: CP-CR-2-110316-SW

Lab Sample ID: 400-129595-8

Date Collected: 11/03/16 10:40
Date Received: 11/04/16 08:53

Matrix: Water

6

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	0.10	U	0.10	0.047	mg/L			11/04/16 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*78 - 119*		*11/04/16 14:08*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0010	U	0.0010	0.00045	mg/L			11/04/16 14:08	1
Ethylbenzene	0.0010	U	0.0010	0.00064	mg/L			11/04/16 14:08	1
Toluene	0.0050	U	0.0050	0.00098	mg/L			11/04/16 14:08	1
Xylenes, Total	0.0050	U	0.0050	0.0017	mg/L			11/04/16 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*78 - 124*		*11/04/16 14:08*	*1*

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: CP-CR-3-110316-SW

Date Collected: 11/03/16 11:15
Date Received: 11/04/16 08:53

Lab Sample ID: 400-129595-9
Matrix: Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	0.10	U	0.10	0.047	mg/L			11/04/16 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*78 - 119*		*11/04/16 14:43*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0010	U	0.0010	0.00045	mg/L			11/04/16 14:43	1
Ethylbenzene	0.0010	U	0.0010	0.00064	mg/L			11/04/16 14:43	1
Toluene	0.0050	U	0.0050	0.00098	mg/L			11/04/16 14:43	1
Xylenes, Total	0.0050	U	0.0050	0.0017	mg/L			11/04/16 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*94*		*78 - 124*		*11/04/16 14:43*	*1*

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: CP-SC-Bkg-110316-SD

Date Collected: 11/03/16 14:15
Date Received: 11/04/16 08:53

Lab Sample ID: 400-129595-10

Matrix: Solid

6

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	0.094	U	0.094	0.047	mg/Kg		11/04/16 10:20	11/04/16 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*102*		*65 - 125*	*11/04/16 10:20*	*11/04/16 12:38*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00094	U	0.00094	0.00064	mg/Kg		11/04/16 10:20	11/04/16 12:38	1
Ethylbenzene	0.00094	U	0.00094	0.00061	mg/Kg		11/04/16 10:20	11/04/16 12:38	1
Toluene	0.0047	U	0.0047	0.0010	mg/Kg		11/04/16 10:20	11/04/16 12:38	1
Xylenes, Total	0.0047	U	0.0047	0.0019	mg/Kg		11/04/16 10:20	11/04/16 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*100*		*40 - 150*	*11/04/16 10:20*	*11/04/16 12:38*	*1*

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: CP-SC-Bkg-110316-SW

Lab Sample ID: 400-129595-11

Date Collected: 11/03/16 14:15
Date Received: 11/04/16 08:53

Matrix: Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	0.10	U	0.10	0.047	mg/L			11/04/16 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*78 - 119*		*11/04/16 17:01*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0010	U	0.0010	0.00045	mg/L			11/04/16 17:01	1
Ethylbenzene	0.0010	U	0.0010	0.00064	mg/L			11/04/16 17:01	1
Toluene	0.0050	U	0.0050	0.00098	mg/L			11/04/16 17:01	1
Xylenes, Total	0.0050	U	0.0050	0.0017	mg/L			11/04/16 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*94*		*78 - 124*		*11/04/16 17:01*	*1*

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: CP-SC-3-110316-SD

Lab Sample ID: 400-129595-12

Date Collected: 11/03/16 15:30
Matrix: Solid
Date Received: 11/04/16 08:53

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	0.11	U	0.11	0.056	mg/Kg		11/04/16 10:20	11/04/16 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*104*		*65 - 125*	*11/04/16 10:20*	*11/04/16 13:05*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0011	U	0.0011	0.00076	mg/Kg		11/04/16 10:20	11/04/16 13:05	1
Ethylbenzene	0.0011	U	0.0011	0.00073	mg/Kg		11/04/16 10:20	11/04/16 13:05	1
Toluene	0.0056	U	0.0056	0.0012	mg/Kg		11/04/16 10:20	11/04/16 13:05	1
Xylenes, Total	0.0056	U	0.0056	0.0022	mg/Kg		11/04/16 10:20	11/04/16 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*40 - 150*	*11/04/16 10:20*	*11/04/16 13:05*	*1*

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: CP-SC-3-110316-SW

Lab Sample ID: 400-129595-13

Date Collected: 11/03/16 15:30
Matrix: Water
Date Received: 11/04/16 08:53

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	0.10	U	0.10	0.047	mg/L			11/04/16 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*78 - 119*		*11/04/16 17:36*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0010	U	0.0010	0.00045	mg/L			11/04/16 17:36	1
Ethylbenzene	0.0010	U	0.0010	0.00064	mg/L			11/04/16 17:36	1
Toluene	0.0050	U	0.0050	0.00098	mg/L			11/04/16 17:36	1
Xylenes, Total	0.0050	U	0.0050	0.0017	mg/L			11/04/16 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*78 - 124*		*11/04/16 17:36*	*1*

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 400-129595-14

Date Collected: 11/03/16 00:00
Date Received: 11/04/16 08:53

Matrix: Water

6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0010	U	0.0010	0.00045	mg/L			11/04/16 11:16	1
Ethylbenzene	0.0010	U	0.0010	0.00064	mg/L			11/04/16 11:16	1
Toluene	0.0050	U	0.0050	0.00098	mg/L			11/04/16 11:16	1
Xylenes, Total	0.0050	U	0.0050	0.0017	mg/L			11/04/16 11:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*78 - 124*		*11/04/16 11:16*	*1*

Definitions/Glossary

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	TFT2 (65-125)						
400-129595-4	CP-SC-2-110216-SD	103						
400-129595-5	CP-PD-1-110216-SD	101						
400-129595-6	CP-CR-Bkg-110216-SD	104						
400-129595-10	CP-SC-Bkg-110316-SD	102						
400-129595-12	CP-SC-3-110316-SD	104						
LCS 400-329758/3-A	Lab Control Sample	104						
LCSD 400-329758/10-A	Lab Control Sample Dup	100						
MB 400-329758/1-A	Method Blank	108						

Surrogate Legend

TFT = a,a,a-Trifluorotoluene (fid)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	TFT2 (78-119)						
400-129595-1	CP-SC-2-110216-SW	89						
400-129595-2	CP-PD-1-110216-SW	89						
400-129595-3	CP-CR-Bkg-110216-SW	91						
400-129595-7	CP-CR-1-110316-SW	91						
400-129595-8	CP-CR-2-110316-SW	91						
400-129595-9	CP-CR-3-110316-SW	91						
400-129595-11	CP-SC-Bkg-110316-SW	91						
400-129595-13	CP-SC-3-110316-SW	91						
LCS 400-329674/1003	Lab Control Sample	96						
MB 400-329674/4	Method Blank	90						

Surrogate Legend

TFT = a,a,a-Trifluorotoluene (fid)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	TFT1 (40-150)						
400-129595-4	CP-SC-2-110216-SD	102						
400-129595-5	CP-PD-1-110216-SD	99						
400-129595-6	CP-CR-Bkg-110216-SD	101						
400-129595-10	CP-SC-Bkg-110316-SD	100						
400-129595-12	CP-SC-3-110316-SD	98						
LCS 400-329758/2-A	Lab Control Sample	99						
LCSD 400-329758/9-A	Lab Control Sample Dup	99						
MB 400-329758/1-A	Method Blank	102						

Surrogate Legend

TFT = a,a,a-Trifluorotoluene (pid)

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	**Client Sample ID**	**TFT1 (78-124)**						
400-129595-1	CP-SC-2-110216-SW	92						
400-129595-2	CP-PD-1-110216-SW	92						
400-129595-3	CP-CR-Bkg-110216-SW	94						
400-129595-7	CP-CR-1-110316-SW	93						
400-129595-8	CP-CR-2-110316-SW	93						
400-129595-9	CP-CR-3-110316-SW	94						
400-129595-11	CP-SC-Bkg-110316-SW	94						
400-129595-13	CP-SC-3-110316-SW	93						
400-129595-14	TRIP BLANK	92						
LCS 400-329672/1002	Lab Control Sample	96						
MB 400-329672/4	Method Blank	92						

Surrogate Legend

TFT = a,a,a-Trifluorotoluene (pid)

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QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

GC VOA

Analysis Batch: 329672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129595-1	CP-SC-2-110216-SW	Total/NA	Water	8021B	
400-129595-2	CP-PD-1-110216-SW	Total/NA	Water	8021B	
400-129595-3	CP-CR-Bkg-110216-SW	Total/NA	Water	8021B	
400-129595-7	CP-CR-1-110316-SW	Total/NA	Water	8021B	
400-129595-8	CP-CR-2-110316-SW	Total/NA	Water	8021B	
400-129595-9	CP-CR-3-110316-SW	Total/NA	Water	8021B	
400-129595-11	CP-SC-Bkg-110316-SW	Total/NA	Water	8021B	
400-129595-13	CP-SC-3-110316-SW	Total/NA	Water	8021B	
400-129595-14	TRIP BLANK	Total/NA	Water	8021B	
MB 400-329672/4	Method Blank	Total/NA	Water	8021B	
LCS 400-329672/1002	Lab Control Sample	Total/NA	Water	8021B	

Analysis Batch: 329674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129595-1	CP-SC-2-110216-SW	Total/NA	Water	8015B	
400-129595-2	CP-PD-1-110216-SW	Total/NA	Water	8015B	
400-129595-3	CP-CR-Bkg-110216-SW	Total/NA	Water	8015B	
400-129595-7	CP-CR-1-110316-SW	Total/NA	Water	8015B	
400-129595-8	CP-CR-2-110316-SW	Total/NA	Water	8015B	
400-129595-9	CP-CR-3-110316-SW	Total/NA	Water	8015B	
400-129595-11	CP-SC-Bkg-110316-SW	Total/NA	Water	8015B	
400-129595-13	CP-SC-3-110316-SW	Total/NA	Water	8015B	
MB 400-329674/4	Method Blank	Total/NA	Water	8015B	
LCS 400-329674/1003	Lab Control Sample	Total/NA	Water	8015B	

Analysis Batch: 329746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129595-4	CP-SC-2-110216-SD	Total/NA	Solid	8021B	329758
400-129595-5	CP-PD-1-110216-SD	Total/NA	Solid	8021B	329758
400-129595-6	CP-CR-Bkg-110216-SD	Total/NA	Solid	8021B	329758
400-129595-10	CP-SC-Bkg-110316-SD	Total/NA	Solid	8021B	329758
400-129595-12	CP-SC-3-110316-SD	Total/NA	Solid	8021B	329758
MB 400-329758/1-A	Method Blank	Total/NA	Solid	8021B	329758
LCS 400-329758/2-A	Lab Control Sample	Total/NA	Solid	8021B	329758
LCSD 400-329758/9-A	Lab Control Sample Dup	Total/NA	Solid	8021B	329758

Analysis Batch: 329747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129595-4	CP-SC-2-110216-SD	Total/NA	Solid	8015B	329758
400-129595-5	CP-PD-1-110216-SD	Total/NA	Solid	8015B	329758
400-129595-6	CP-CR-Bkg-110216-SD	Total/NA	Solid	8015B	329758
400-129595-10	CP-SC-Bkg-110316-SD	Total/NA	Solid	8015B	329758
400-129595-12	CP-SC-3-110316-SD	Total/NA	Solid	8015B	329758
MB 400-329758/1-A	Method Blank	Total/NA	Solid	8015B	329758
LCS 400-329758/3-A	Lab Control Sample	Total/NA	Solid	8015B	329758
LCSD 400-329758/10-A	Lab Control Sample Dup	Total/NA	Solid	8015B	329758

Prep Batch: 329758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129595-4	CP-SC-2-110216-SD	Total/NA	Solid	5035	
400-129595-5	CP-PD-1-110216-SD	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

GC VOA (Continued)

Prep Batch: 329758 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129595-6	CP-CR-Bkg-110216-SD	Total/NA	Solid	5035	
400-129595-10	CP-SC-Bkg-110316-SD	Total/NA	Solid	5035	
400-129595-12	CP-SC-3-110316-SD	Total/NA	Solid	5035	
MB 400-329758/1-A	Method Blank	Total/NA	Solid	5035	
LCS 400-329758/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 400-329758/3-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 400-329758/10-A	Lab Control Sample Dup	Total/NA	Solid	5035	
LCSD 400-329758/9-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 400-329674/4
Matrix: Water
Analysis Batch: 329674

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	0.10	U	0.10	0.047	mg/L			11/04/16 09:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*90*		*78 - 119*		*11/04/16 09:55*	*1*

Lab Sample ID: LCS 400-329674/1003
Matrix: Water
Analysis Batch: 329674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) C6--C10	1.00	0.946		mg/L		95	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*96*		*78 - 119*

Lab Sample ID: MB 400-329758/1-A
Matrix: Solid
Analysis Batch: 329747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 329758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	0.10	U	0.10	0.050	mg/Kg		11/04/16 10:20	11/04/16 10:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*108*		*65 - 125*	*11/04/16 10:20*	*11/04/16 10:48*	*1*

Lab Sample ID: LCS 400-329758/3-A
Matrix: Solid
Analysis Batch: 329747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 329758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) C6--C10	1.00	1.07		mg/Kg		107	62 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*104*		*65 - 125*

Lab Sample ID: LCSD 400-329758/10-A
Matrix: Solid
Analysis Batch: 329747

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 329758

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) C6--C10	1.00	1.03		mg/Kg		103	62 - 141	3	50

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCSD 400-329758/10-A
Matrix: Solid
Analysis Batch: 329747

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 329758

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	100		65 - 125

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-329672/4
Matrix: Water
Analysis Batch: 329672

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0010	U	0.0010	0.00045	mg/L			11/04/16 09:55	1
Ethylbenzene	0.0010	U	0.0010	0.00064	mg/L			11/04/16 09:55	1
Toluene	0.0050	U	0.0050	0.00098	mg/L			11/04/16 09:55	1
Xylenes, Total	0.0050	U	0.0050	0.0017	mg/L			11/04/16 09:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	92		78 - 124		11/04/16 09:55	1

Lab Sample ID: LCS 400-329672/1002
Matrix: Water
Analysis Batch: 329672

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0452		mg/L		90	85 - 115
Ethylbenzene	0.0500	0.0460		mg/L		92	85 - 115
Toluene	0.0500	0.0452		mg/L		90	85 - 115
Xylenes, Total	0.150	0.136		mg/L		91	85 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	96		78 - 124

Lab Sample ID: MB 400-329758/1-A
Matrix: Solid
Analysis Batch: 329746

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 329758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0010	U	0.0010	0.00068	mg/Kg		11/04/16 10:20	11/04/16 10:48	1
Ethylbenzene	0.0010	U	0.0010	0.00065	mg/Kg		11/04/16 10:20	11/04/16 10:48	1
Toluene	0.0050	U	0.0050	0.0011	mg/Kg		11/04/16 10:20	11/04/16 10:48	1
Xylenes, Total	0.0050	U	0.0050	0.0020	mg/Kg		11/04/16 10:20	11/04/16 10:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	102		40 - 150	11/04/16 10:20	11/04/16 10:48	1

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 400-329758/2-A
Matrix: Solid
Analysis Batch: 329746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 329758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0495		mg/Kg		99	74 - 127
Ethylbenzene	0.0500	0.0485		mg/Kg		97	79 - 131
Toluene	0.0500	0.0494		mg/Kg		99	76 - 127
Xylenes, Total	0.150	0.145		mg/Kg		97	80 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*99*		*40 - 150*

Lab Sample ID: LCSD 400-329758/9-A
Matrix: Solid
Analysis Batch: 329746

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 329758

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.0500		mg/Kg		100	74 - 127	1	50
Ethylbenzene	0.0500	0.0492		mg/Kg		98	79 - 131	2	50
Toluene	0.0500	0.0502		mg/Kg		100	76 - 127	2	50
Xylenes, Total	0.150	0.148		mg/Kg		98	80 - 129	2	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*99*		*40 - 150*

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: CP-SC-2-110216-SW

Lab Sample ID: 400-129595-1
Date Collected: 11/02/16 14:10
Matrix: Water
Date Received: 11/04/16 08:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5 mL	5 mL	329674	11/04/16 11:50	SAB	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	329672	11/04/16 11:50	SAB	TAL PEN

Client Sample ID: CP-PD-1-110216-SW

Lab Sample ID: 400-129595-2
Date Collected: 11/02/16 15:15
Matrix: Water
Date Received: 11/04/16 08:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5 mL	5 mL	329674	11/04/16 12:24	SAB	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	329672	11/04/16 12:24	SAB	TAL PEN

Client Sample ID: CP-CR-Bkg-110216-SW

Lab Sample ID: 400-129595-3
Date Collected: 11/02/16 15:40
Matrix: Water
Date Received: 11/04/16 08:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5 mL	5 mL	329674	11/04/16 12:59	SAB	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	329672	11/04/16 12:59	SAB	TAL PEN

Client Sample ID: CP-SC-2-110216-SD

Lab Sample ID: 400-129595-4
Date Collected: 11/02/16 14:10
Matrix: Solid
Date Received: 11/04/16 08:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.60 g	5.0 g	329758	11/04/16 10:20	GRK	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	329747	11/04/16 11:16	GRK	TAL PEN
Total/NA	Prep	5035			4.60 g	5.0 g	329758	11/04/16 10:20	GRK	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	329746	11/04/16 11:16	GRK	TAL PEN

Client Sample ID: CP-PD-1-110216-SD

Lab Sample ID: 400-129595-5
Date Collected: 11/02/16 15:15
Matrix: Solid
Date Received: 11/04/16 08:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2.98 g	5.0 g	329758	11/04/16 10:20	GRK	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	329747	11/04/16 11:43	GRK	TAL PEN
Total/NA	Prep	5035			2.98 g	5.0 g	329758	11/04/16 10:20	GRK	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	329746	11/04/16 11:43	GRK	TAL PEN

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: CP-CR-Bkg-110216-SD — Lab Sample ID: 400-129595-6

Date Collected: 11/02/16 15:40 — **Matrix: Solid**
Date Received: 11/04/16 08:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.69 g	5.0 g	329758	11/04/16 10:20	GRK	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	329747	11/04/16 12:10	GRK	TAL PEN
Total/NA	Prep	5035			4.69 g	5.0 g	329758	11/04/16 10:20	GRK	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	329746	11/04/16 12:10	GRK	TAL PEN

Client Sample ID: CP-CR-1-110316-SW — Lab Sample ID: 400-129595-7

Date Collected: 11/03/16 10:00 — **Matrix: Water**
Date Received: 11/04/16 08:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5 mL	5 mL	329674	11/04/16 13:34	SAB	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	329672	11/04/16 13:34	SAB	TAL PEN

Client Sample ID: CP-CR-2-110316-SW — Lab Sample ID: 400-129595-8

Date Collected: 11/03/16 10:40 — **Matrix: Water**
Date Received: 11/04/16 08:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5 mL	5 mL	329674	11/04/16 14:08	SAB	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	329672	11/04/16 14:08	SAB	TAL PEN

Client Sample ID: CP-CR-3-110316-SW — Lab Sample ID: 400-129595-9

Date Collected: 11/03/16 11:15 — **Matrix: Water**
Date Received: 11/04/16 08:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5 mL	5 mL	329674	11/04/16 14:43	SAB	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	329672	11/04/16 14:43	SAB	TAL PEN

Client Sample ID: CP-SC-Bkg-110316-SD — Lab Sample ID: 400-129595-10

Date Collected: 11/03/16 14:15 — **Matrix: Solid**
Date Received: 11/04/16 08:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.34 g	5.0 g	329758	11/04/16 10:20	GRK	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	329747	11/04/16 12:38	GRK	TAL PEN
Total/NA	Prep	5035			5.34 g	5.0 g	329758	11/04/16 10:20	GRK	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	329746	11/04/16 12:38	GRK	TAL PEN

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: CP-SC-Bkg-110316-SW — Lab Sample ID: 400-129595-11

Date Collected: 11/03/16 14:15 — **Matrix: Water**
Date Received: 11/04/16 08:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5 mL	5 mL	329674	11/04/16 17:01	SAB	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	329672	11/04/16 17:01	SAB	TAL PEN

Client Sample ID: CP-SC-3-110316-SD — Lab Sample ID: 400-129595-12

Date Collected: 11/03/16 15:30 — **Matrix: Solid**
Date Received: 11/04/16 08:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.45 g	5.0 g	329758	11/04/16 10:20	GRK	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	329747	11/04/16 13:05	GRK	TAL PEN
Total/NA	Prep	5035			4.45 g	5.0 g	329758	11/04/16 10:20	GRK	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	329746	11/04/16 13:05	GRK	TAL PEN

Client Sample ID: CP-SC-3-110316-SW — Lab Sample ID: 400-129595-13

Date Collected: 11/03/16 15:30 — **Matrix: Water**
Date Received: 11/04/16 08:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5 mL	5 mL	329674	11/04/16 17:36	SAB	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	329672	11/04/16 17:36	SAB	TAL PEN

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-129595-14

Date Collected: 11/03/16 00:00 — **Matrix: Water**
Date Received: 11/04/16 08:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	329672	11/04/16 11:16	SAB	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-329672/4

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	329672	11/04/16 09:55	SAB	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-329674/4

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5 mL	5 mL	329674	11/04/16 09:55	SAB	TAL PEN

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: Method Blank — Lab Sample ID: MB 400-329758/1-A

Date Collected: N/A
Date Received: N/A
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.0 g	5.0 g	329758	11/04/16 10:20	GRK	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	329747	11/04/16 10:48	GRK	TAL PEN
Total/NA	Prep	5035			5.0 g	5.0 g	329758	11/04/16 10:20	GRK	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	329746	11/04/16 10:48	GRK	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-329672/1002

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	329672	11/04/16 08:37	SAB	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-329674/1003

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5 mL	5 mL	329674	11/04/16 09:12	SAB	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-329758/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.0 g	5.0 g	329758	11/04/16 10:20	GRK	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	329746	11/04/16 13:33	GRK	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-329758/3-A

Date Collected: N/A
Date Received: N/A
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.0 g	5.0 g	329758	11/04/16 10:20	GRK	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	329747	11/04/16 14:00	GRK	TAL PEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 400-329758/10-A

Date Collected: N/A
Date Received: N/A
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.0 g	5.0 g	329758	11/04/16 10:20	GRK	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	329747	11/04/16 16:17	GRK	TAL PEN

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-329758/9-A

Date Collected: N/A
Date Received: N/A

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.0 g	5.0 g	329758	11/04/16 10:20	GRK	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	329746	11/04/16 15:49	GRK	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Method	Method Description	Protocol	Laboratory
8015B	Gasoline Range Organics - (GC)	SW846	TAL PEN
8021B	Volatile Organic Compounds (GC)	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Certification Summary

Client: Tetra Tech EM Inc.
Project/Site: Colonial Pipeline Gasoline Spill

TestAmerica Job ID: 400-129595-1

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

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* Certification renewal pending - certification considered valid.

TestAmerica Pensacola
3355 McLemore Drive

Pensacola, FL 32514-7045
phone 850.474.1001 fax 850.474.4789

Chain of Custody Record

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Paul Prys	Site Contact: Paul Prys	Date: 11-2-16
Tetra Tech Inc.	Tel/Fax: 404-849-7135	Lab Contact:	Carrier:
1955 Evergreen Blvd, Bldg 200, Ste 300	Analysis Turnaround Time		
Duluth/ Georgia/ 30093	☒ CALENDAR DAYS ☐ WORKING DAYS		
(662) 681-5727 Phone	TAT if different from Below _____		
(xxx) xxx-xxxx FAX	☐ 2 weeks		
Project Name: Colonial Pipeline	☐ 1 week		
Site: Colonial Pipeline Pelham, AL	☐ 2 days		
P O #	☒ 1 day		

400-129595 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	GRO	BTEX	GRO	BTEX
CP-SC-2-110216-SW	11/2/16	1410	G	W	4	N	N	2	2	X	X
CP-PD-1-110216-SW	11/2/16	1515	G	W	4	N	N	2	2	X	X
CP-CR-Bkg-110216-SW	11/2/16	1540	G	W	8	N	Y	4	4	X	X
CP-SC-2-110216-SD	11/2/16	1410	G	SD	4	N	N	X	X	2	2
CP-PD-1-110216-SD	11/2/16	1515	G	SD	4	N	N	X	X	2	2
CP-CR-Bkg-110216-SD	11/2/16	1540	G	SD	4	N	N	X	X	2	2
CP-CR-1-110316-SW	11/3/16	1000	G	SW	4	N	N	2	2	X	X
CP-CR-2-110316-SW	11/3/16	1040	G	SW	4	N	N	2	2	X	X
CP-CR-3-110316-SW	11/3/16	1115	G	SW	4	N	N	2	2	X	X
CP-SC-Bkg-110316-SD	11/3/16	1415	G	SD	4	N	N	X	X	2	2
CP-SC-Bkg-110316-SW	11/3/16	1415	G	SW	4	N	N	2	2	X	X
CP-SC-3-110316-SD	11/3/16	1530	G	SD	4	N	N	X	X	2	2
CP-SC-3-110316-SW	11/3/16	1530	G	SW	4	N	N	2	2	X	X

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained long

☐ Return to Client ☒ Disposal by Lab ☐ Archive for

Special Instructions/QC Requirements & Comments:

4.2°C 126

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm

Relinquished by:	Company:	Date/Time:	Received by:	Company:
Relinquished by:	Company:	Date/Time:	Received by:	Company:
Relinquished by:	Company:	Date/Time: 11/4/16 0853	Received in Laboratory by:	Company:

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Login Sample Receipt Checklist

Client: Tetra Tech EM Inc.

Job Number: 400-129595-1

Login Number: 129595
List Number: 1
Creator: Perez, Trina M

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2°C IR 6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:03 PM
To: Pressley, Miriam
Subject: Fw: Pelham Pipeline Rupture SITREP #5
Attachments: Colonial Pipeline Rupture_SITREP5_110416.pdf

From: Tripp, Christopher
Sent: Friday, November 4, 2016 6:42 PM
To: R4 ERRB; R4 ERNS Reports; R4 RICT
Cc: steven.j.wall@noaa.gov; Eoc, Epahq; thomas.m.mccrossen@uscg.mil
Subject: Pelham Pipeline Rupture SITREP #5

Colonial Pipeline CR251 Rupture
Pelham, Shelby County, Alabama
Situation Report #5
November 4, 2016
1800
NRC #1162982

INCIDENT DESCRIPTION

On October 31 at 1455 hours, a Colonial Pipeline contractor struck a 36" below ground transmission gasoline pipeline (Line 1) while finishing a permanent repair necessitated by the previous pipeline rupture that occurred on September 9. The gasoline pipeline exploded and caught fire. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center. One worker was fatally injured and six workers were transported to local hospitals.

The exact amount of the release is unknown; however, Colonial Pipeline has estimated that between 3,300 and 4,000 barrels of gasoline were released. Both main pipelines were shut down. The local fire department responded and contained the fire around the ruptured site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. Line 2 was restarted at 2250 hours on October 31 at a reduced rate.

The Alabama Department of Environmental Management (ADEM), Alabama Emergency Management Agency (AEMA), Shelby County EMA, the US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, were notified. The EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into Unified Command (UC).

PUBLIC AFFAIRS

ONGOING: The PIO continues to coordinate press releases with Colonial Pipeline through the JIC.
NEW: The NTSB assessment has transitioned to a full investigation. NTSB communications restrictions are being implemented due to the incident investigation.

INCIDENT MANAGEMENT AND STAFFING

EPAs integration into the Colonial Pipeline Incident Command structure will provide numerous benefits to the response and further ensure operations run successfully. This will be accomplished through working directly with the Environmental Unit on sampling and monitoring, the Situation Unit, the Planning Section, safety, Unified Command, and with overall operations related to this unfortunate incident. All EPA staff, USCG GST and support contractors are fully embedded into the Colonial Pipeline incident management structure. The number of personnel managing the incident is as follows:

Organization	Number
EPA	6 (1 working from R4 REOC)
USCG GST	4
START	4
Total Response Personnel	580

CURRENT RELEASE AND RECOVERY ESTIMATES

Current Release Estimate remains unchanged at 3,300 bbl to 4,000 bbls[1]

NEW: The fire was extinguished at approximately 0438 hours on November 4, 2016. The fire was extinguished using Thunderstorm F601B[2] which is a PFOA and PFOS free foam.

NEW: Product is being drained from the "main drain" at TORs 3 and 4. Initial pressures at the recovery point were measured at approximately 7 psi, however, pressures are variable and are anticipated to decrease rapidly based on the limited volume of product remaining in the pipeline.

NEW: Containment measures have been installed at all of the TORs and around the fractionation "frac" tanks being used for product storage. Based on the limited volume of product remaining in the pipeline, boom and containment measures are being removed from the Cahaba River, while the earthen dams and nearby containment measures remain in place.

REPORTING SCHEDULE

Situation Reports (SITREPS) will be delivered daily at 1800 hours EDT.

CURRENT OPERATIONS

1) **Environmental Sampling and Impacts**

a. Air Monitoring

- **ONGOING:** CTEH continues conducting air monitoring at the frac tank staging area and TORs during recovery efforts.
- **ONGOING:** CTEH continues performing 24-hour mobile air monitoring at and near the incident area, as well as at nearby homes to the northwest and southeast of the incident area. Air monitoring results from 0600 hours CDT on November 3, through 0600 hours CDT on November 4 indicated no detections above site action levels, except for particulate matter 2.5 micrometers or less (PM2.5). Air monitoring results indicated spikes in the PM2.5 worker (1.22 mg/m^3) action levels near the incident area and near the residences (0.138 mg/m^3) located southeast of the incident area. NEW: Effective at 0800 on November 4, CTEH will discontinue air monitoring in the outlying communities based on previous non-detect results. Mobile air monitoring will continue at and near the incident area and at nearby homes to the northwest and southeast of the incident area.

- **UPDATE:** CTEH conducted air monitoring during preparation for product recovery at the "main drain", TORs 3 and 4. Air monitoring results indicated that lower explosive limits (LEL) exceeded 4%, a benzene exceedance of 0.7 at a TOR location and volatile organic compounds (VOCs) did not exceed the health based action levels (300 ppm).

- **NEW:** CTEH began focusing air monitoring efforts on LEL, benzene and VOCs since the fire was extinguished early this morning.
- **ONGOING:** CTEH continued analytical air sampling at five locations near the homes located northwest (Bent Pine Drive) and southeast of the incident area along County Road 251.
- **ONGOING:** CTEH continues to upload air sampling data to the SCRIBE database.

b. Water/Sediment Sampling and National Resources Damage Assessment (NRDA)

- Environmental Planning Specialists (EPS) initiated another round of surface water sampling on November 4, including locations along the Cahaba River, Shades Creek, and the pond located southeast of the incident area.
- EPS initiated well water sampling activities at homes near the incident area. The EPA will not be splitting well water samples with EPS. Shelby County and ADEM have primary jurisdiction with respect to public health.

2) Local Response Actions

- **NEW:** A red flag fire watch was issued, including the incident area, due to wind conditions (10 to 15 mph, gusts up to 20 mph) and low humidity.
- The air space restriction to 1,500 feet and a 1.5 mile radius around the incident area remains in effect until 0000 hours on November 7, 2016.

3) Health and Safety

- CTEH continues to conduct air monitoring and address health and safety concerns during response activities.
- USCG Gulf Strike Team representatives continue to provide health and safety oversight of response operations.

4) Communications

- **NEW:** NTSB communications requirements are being implemented for parties involved in the incident investigation. EPA continues to coordinate press releases with Colonial Pipeline through the JIC.

5) Fuel Supply

- No change in the waiver status

PLANNED RESPONSE ACTIVITIES

- Complete one additional round of split sampling of water and sediment with EPS.
- Continue product recovery from Line 1 in preparation for replacement of the damaged section at the incident area.
- Begin excavation along the pipeline at the incident area in preparation for the replacement of the damaged section.
- CTEH will continue air monitoring and sampling. USCG will continue air monitoring.
- Complete and approve the Transition Plan for moving from emergency to removal phase.

- Continue preparing and releasing updates for the media outlets.

Christopher Tripp - On-Scene Coordinator
U.S. Environmental Protection Agency, Region 4 | 61 Forsyth St SW | Atlanta, Georgia | 30303
Emergency Response, Removal and Prevention Branch (ERRPB)
office: **404-562-8745** | cell: **470-426-3336**
epaosc.org

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[1] I barrel (bbl) = 42 gallons
[2] Reference: http://www.williamsfire.com/Files/Product%20Spotlights/Foam%20Pages/F601B_TDS.pdf

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:03 PM
To: Pressley, Miriam
Subject: Fw: Draft SITREP 4
Attachments: Colonial Pipeline Rupture_SITREP4_110416.docx

From: Croft, Brian <Brian.Croft@tetratech.com>
Sent: Friday, November 4, 2016 4:55 PM
To: Tripp, Christopher; Moore, Tony
Cc: Buerki, Karen
Subject: Draft SITREP 4

Attached...

Brian Croft | Senior Scientist
Direct: 678.775.3113 | Cell (b)(6) Fax: 678.775.3138
brian.croft@tetratech.com
Tetra Tech | Complex World, Clear Solutions (www.tetratech.com | NASDAQ:TTEK)
1955 Evergreen Boulevard, Building 200, Suite 300 | Duluth, GA 30096
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Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:04 PM
To: Pressley, Miriam
Subject: Fw: Pelham Pipeline Rupture SITREP #5 with funding increase revision
Attachments: Colonial Pipeline Rupture_SITREP5_110416.pdf

From: Tripp, Christopher
Sent: Friday, November 4, 2016 7:04 PM
To: R4 ERRB; R4 ERNS Reports; R4 RICT
Cc: steven.j.wall@noaa.gov; Eoc, Epahq; thomas.m.mccrossen@uscg.mil
Subject: Pelham Pipeline Rupture SITREP #5 with funding increase revision

Colonial Pipeline CR251 Rupture
Pelham, Shelby County, Alabama
Situation Report #5
November 4, 2016
1800
NRC #1162982

INCIDENT DESCRIPTION

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The exact amount of the release is unknown; however, Colonial Pipeline has estimated that between 3,300 and 4,000 barrels of gasoline were released. Both main pipelines were shut down. The local fire department responded and contained the fire around the ruptured site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. Line 2 was restarted at 2250 hours on October 31 at a reduced rate.

The Alabama Department of Environmental Management (ADEM), Alabama Emergency Management Agency (AEMA), Shelby County EMA, the US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, were notified. The EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into Unified Command (UC).

PUBLIC AFFAIRS

ONGOING: The PIO continues to coordinate press releases with Colonial Pipeline through the JIC.
NEW: The NTSB assessment has transitioned to a full investigation. NTSB communications restrictions are being implemented due to the incident investigation.

INCIDENT MANAGEMENT AND STAFFING

EPAs integration into the Colonial Pipeline Incident Command structure will provide numerous benefits to the response and further ensure operations run successfully. This will be accomplished through working directly with the Environmental Unit on sampling and monitoring, the Situation Unit, the Planning Section, safety, Unified Command, and with overall operations related to this unfortunate incident. All EPA staff, USCG GST and support contractors are fully embedded into the Colonial Pipeline incident management structure. The number of personnel managing the incident is as follows:

Organization	Number
EPA	6 (1 working from R4 REOC)
USCG GST	4
START	4
Total Response Personnel	580

NEW: A funding increase was requested from the National Pollution Fund Center (NPFC) to cover costs that will be incurred due to continued surface water sampling and assessment, health and safety oversight of response actions, review and oversight of the installation of oil containment countermeasures and review and oversight of all oil response actions.

USCG Stike Team funding increased to $25,000.
EPA funding increased to $175,000.

CURRENT RELEASE AND RECOVERY ESTIMATES

Current Release Estimate remains unchanged at 3,300 bbl to 4,000 bbls[1]

NEW: The fire was extinguished at approximately 0438 hours on November 4, 2016. The fire was extinguished using Thunderstorm F601B[2] which is a PFOA and PFOS free foam.

NEW: Product is being drained from the "main drain" at TORs 3 and 4. Initial pressures at the recovery point were measured at approximately 7 psi, however, pressures are variable and are anticipated to decrease rapidly based on the limited volume of product remaining in the pipeline.

NEW: Containment measures have been installed at all of the TORs and around the fractionation "frac" tanks being used for product storage. Based on the limited volume of product remaining in the pipeline, boom and containment measures are being removed from the Cahaba River, while the earthen dams and nearby containment measures remain in place.

REPORTING SCHEDULE

Situation Reports (SITREPS) will be delivered daily at 1800 hours EDT.

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1) **Environmental Sampling and Impacts**

a. Air Monitoring

- **ONGOING:** CTEH continues conducting air monitoring at the frac tank staging area and TORs during recovery efforts.
- **ONGOING:** CTEH continues performing 24-hour mobile air monitoring at and near the incident area, as well as at nearby homes to the northwest and southeast of the incident area. Air monitoring results from 0600 hours CDT on November 3, through 0600 hours CDT on November 4 indicated no detections above site action levels, except for particulate matter 2.5 micrometers or less (PM2.5). Air monitoring

results indicated spikes in the PM2.5 worker (1.22 mg/m^3) action levels near the incident area and near the residences (0.138 mg/m^3) located southeast of the incident area. **NEW:** Effective at 0800 on November 4, CTEH will discontinue air monitoring in the outlying communities based on previous non-detect results. Mobile air monitoring will continue at and near the incident area and at nearby homes to the northwest and southeast of the incident area.

- **UPDATE:** CTEH conducted air monitoring during preparation for product recovery at the "main drain", TORs 3 and 4. Air monitoring results indicated that lower explosive limits (LEL) exceeded 4%, a benzene exceedance of 0.7 at a TOR location and volatile organic compounds (VOCs) did not exceed the health based action levels (300 ppm).

- **NEW:** CTEH began focusing air monitoring efforts on LEL, benzene and VOCs since the fire was extinguished early this morning.
- **ONGOING:** CTEH continued analytical air sampling at five locations near the homes located northwest (Bent Pine Drive) and southeast of the incident area along County Road 251.
- **ONGOING:** CTEH continues to upload air sampling data to the SCRIBE database.

b. Water/Sediment Sampling and National Resources Damage Assessment (NRDA)

- Environmental Planning Specialists (EPS) initiated another round of surface water sampling on November 4, including locations along the Cahaba River, Shades Creek, and the pond located southeast of the incident area.
- EPS initiated well water sampling activities at homes near the incident area. The EPA will not be splitting well water samples with EPS. Shelby County and ADEM have primary jurisdiction with respect to public health.

2) Local Response Actions

- **NEW:** A red flag fire watch was issued, including the incident area, due to wind conditions (10 to 15 mph, gusts up to 20 mph) and low humidity.
- The air space restriction to 1,500 feet and a 1.5 mile radius around the incident area remains in effect until 0000 hours on November 7, 2016.

3) Health and Safety

- CTEH continues to conduct air monitoring and address health and safety concerns during response activities.
- USCG Gulf Strike Team representatives continue to provide health and safety oversight of response operations.

4) Communications

- **NEW:** NTSB communications requirements are being implemented for parties involved in the incident investigation. EPA continues to coordinate press releases with Colonial Pipeline through the JIC.

5) Fuel Supply

- No change in the waiver status

PLANNED RESPONSE ACTIVITIES

- Complete one additional round of split sampling of water and sediment with EPS.

- Continue product recovery from Line 1 in preparation for replacement of the damaged section at the incident area.
- Begin excavation along the pipeline at the incident area in preparation for the replacement of the damaged section.
- CTEH will continue air monitoring and sampling. USCG will continue air monitoring.
- Complete and approve the Transition Plan for moving from emergency to removal phase.
- Continue preparing and releasing updates for the media outlets.

Christopher Tripp - On-Scene Coordinator
U.S. Environmental Protection Agency, Region 4 | 61 Forsyth St SW | Atlanta, Georgia | 30303
Emergency Response, Removal and Prevention Branch (ERRPB)
office: **404-562-8745** | cell: **470-426-3336**
epaosc.org

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[1] I barrel (bbl) = 42 gallons
[2] Reference: http://www.williamsfire.com/Files/Product%20Spotlights/Foam%20Pages/F601B_TDS.pdf

Colonial Pipeline CR251 Rupture
Pelham, Shelby County, Alabama
Situation Report #5
November 4, 2016
1800
NRC #1162982

INCIDENT DESCRIPTION

On October 31 at 1455 hours, a Colonial Pipeline contractor struck a 36" below ground transmission gasoline pipeline (Line 1) while finishing a permanent repair necessitated by the previous pipeline rupture that occurred on September 9. The gasoline pipeline exploded and caught fire. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center. One worker was fatally injured and six workers were transported to local hospitals.

The exact amount of the release is unknown; however, Colonial Pipeline has estimated that between 3,300 and 4,000 barrels of gasoline were released. Both main pipelines were shut down. The local fire department responded and contained the fire around the ruptured site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. Line 2 was restarted at 2250 hours on October 31 at a reduced rate.

The Alabama Department of Environmental Management (ADEM), Alabama Emergency Management Agency (AEMA), Shelby County EMA, the US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, were notified. The EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into Unified Command (UC).

PUBLIC AFFAIRS

ONGOING: The PIO continues to coordinate press releases with Colonial Pipeline through the JIC.

NEW: The NTSB assessment has transitioned to a full investigation. NTSB communications restrictions are being implemented due to the incident investigation.

INCIDENT MANAGEMENT AND STAFFING

EPAs integration into the Colonial Pipeline Incident Command structure will provide numerous benefits to the response and further ensure operations run successfully. This will be accomplished through working directly with the Environmental Unit on sampling and monitoring, the Situation Unit, the Planning Section, safety, Unified Command, and with overall operations related to this unfortunate incident. All EPA staff, USCG GST and support contractors are fully embedded into the Colonial Pipeline incident management structure. The number of personnel managing the incident is as follows:

Organization	Number
EPA	6 (1 working from R4 REOC)
USCG GST	4
START	4
Total Response Personnel	580

NEW: A funding increase was requested from the National Pollution Fund Center (NPFC) to cover costs that will be incurred due to continued surface water sampling and assessment, health and safety oversight of response actions, review and oversight of the installation of oil containment countermeasures and review and oversight of all oil response actions.

USCG Stike Team funding increased to $25,000.

EPA funding increased to $175,000.

CURRENT RELEASE AND RECOVERY ESTIMATES

Current Release Estimate remains unchanged at 3,300 bbl to 4,000 bbls[1]

NEW: The fire was extinguished at approximately 0438 hours on November 4, 2016. The fire was extinguished using Thunderstorm F601B[2] which is a PFOA and PFOS free foam.

NEW: Product is being drained from the "main drain" at TORs 3 and 4. Initial pressures at the recovery point were measured at approximately 7 psi, however, pressures are variable and are anticipated to decrease rapidly based on the limited volume of product remaining in the pipeline.

NEW: Containment measures have been installed at all of the TORs and around the fractionation "frac" tanks being used for product storage. Based on the limited volume of product remaining in the pipeline, boom and containment measures are being removed from the Cahaba River, while the earthen dams and nearby containment measures remain in place.

REPORTING SCHEDULE

Situation Reports (SITREPS) will be delivered daily at 1800 hours EDT.

CURRENT OPERATIONS

1) **Environmental Sampling and Impacts**
   a. Air Monitoring
      - **ONGOING:** CTEH continues conducting air monitoring at the frac tank staging area and TORs during recovery efforts.

[1] 1 barrel (bbl) = 42 gallons

[2] Reference: http://www.williamsfire.com/Files/Product%20Spotlights/Foam%20Pages/F601B_TDS.pdf

- **ONGOING:** CTEH continues performing 24-hour mobile air monitoring at and near the incident area, as well as at nearby homes to the northwest and southeast of the incident area. Air monitoring results from 0600 hours CDT on November 3, through 0600 hours CDT on November 4 indicated no detections above site action levels, except for particulate matter 2.5 micrometers or less (PM2.5). Air monitoring results indicated spikes in the PM2.5 worker (1.22 mg/m^3) action levels near the incident area and near the residences (0.138 mg/m^3) located southeast of the incident area. NEW: Effective at 0800 on November 4, CTEH will discontinue air monitoring in the outlying communities based on previous non-detect results. Mobile air monitoring will continue at and near the incident area and at nearby homes to the northwest and southeast of the incident area.

- **UPDATE:** CTEH conducted air monitoring during preparation for product recovery at the "main drain", TORs 3 and 4. Air monitoring results indicated that lower explosive limits (LEL) exceeded 4%, a benzene exceedance of 0.7 at a TOR location and volatile organic compounds (VOCs) did not exceed the health based action levels (300 ppm).

- NEW: CTEH began focusing air monitoring efforts on LEL, benzene and VOCs since the fire was extinguished early this morning.
- **ONGOING:** CTEH continued analytical air sampling at five locations near the homes located northwest (Bent Pine Drive) and southeast of the incident area along County Road 251.
- **ONGOING:** CTEH continues to upload air sampling data to the SCRIBE database.

b. Water/Sediment Sampling and National Resources Damage Assessment (NRDA)

- Environmental Planning Specialists (EPS) initiated another round of surface water sampling on November 4, including locations along the Cahaba River, Shades Creek, and the pond located southeast of the incident area.
- EPS initiated well water sampling activities at homes near the incident area. The EPA will not be splitting well water samples with EPS. Shelby County and ADEM have primary jurisdiction with respect to public health.

2) Local Response Actions

- NEW: A red flag fire watch was issued, including the incident area, due to wind conditions (10 to 15 mph, gusts up to 20 mph) and low humidity.
- The air space restriction to 1,500 feet and a 1.5 mile radius around the incident area remains in effect until 0000 hours on November 7, 2016.

3) **Health and Safety**
   - CTEH continues to conduct air monitoring and address health and safety concerns during response activities.
   - USCG Gulf Strike Team representatives continue to provide health and safety oversight of response operations.

4) **Communications**
   - NEW: NTSB communications requirements are being implemented for parties involved in the incident investigation. EPA continues to coordinate press releases with Colonial Pipeline through the JIC.

5) **Fuel Supply**
   - No change in the waiver status

PLANNED RESPONSE ACTIVITIES

- Complete one additional round of split sampling of water and sediment with EPS.
- Continue product recovery from Line 1 in preparation for replacement of the damaged section at the incident area.
- Begin excavation along the pipeline at the incident area in preparation for the replacement of the damaged section.
- CTEH will continue air monitoring and sampling. USCG will continue air monitoring.
- Complete and approve the Transition Plan for moving from emergency to removal phase.
- Continue preparing and releasing updates for the media outlets.

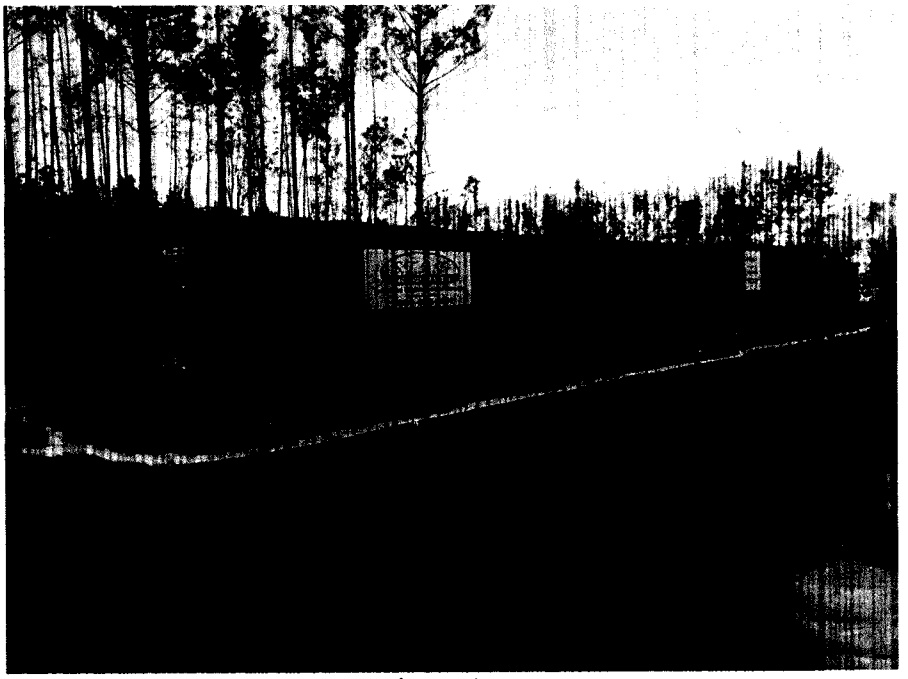

Figure 1.
The frac tank storage area.

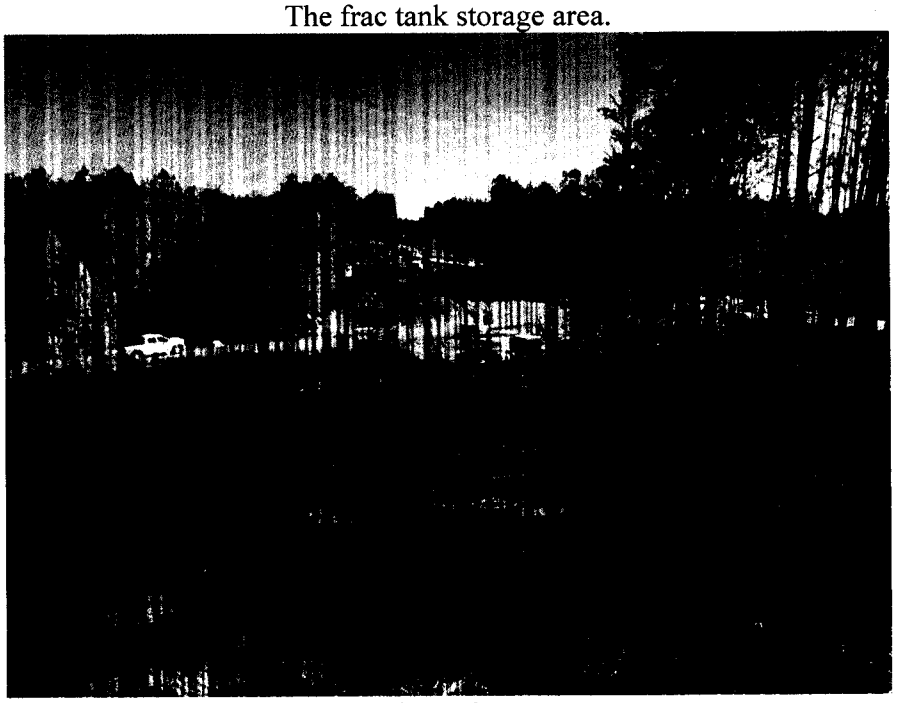

Figure 2.
The release area and TOR locations (looking to the northeast).

Figure 3.
The release area, TOR locations, and workers (looking to the northeast).

Colonial Pipeline CR251 Rupture
Pelham, Shelby County, Alabama
Situation Report #4
November 4, 2016
1700

NRC #1162982

INCIDENT DESCRIPTION

On October 31 at 1455 hours, a Colonial Pipeline contractor struck a 36" below ground transmission gasoline pipeline (Line 1) while finishing a permanent repair necessitated by the previous pipeline rupture that occurred on September 9. The gasoline pipeline exploded and caught fire. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center. One worker was fatally injured and six workers were transported to local hospitals.

The exact amount of the release is unknown; however, Colonial Pipeline has estimated that between 3,300 and 4,000 barrels of gasoline were released. Both main pipelines were shut down. The local fire department responded and contained the fire around the ruptured site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. The fire was extinguished at approximately 0438 hours on November 4, 2016. Line 2 was restarted at 2250 hours on October 31 at a reduced rate.

The Alabama Department of Environmental Management (ADEM), Alabama Emergency Management Agency (EMA), Shelby County EMA, the US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, were notified. The EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command (UC).

PUBLIC AFFAIRS

- PIO Pinkney continues to operate within the Joint Information Center (JIC).
- Pipeline and Hazardous Material Safety Administration (PHMSA) continues to coordinate with Colonial Pipeline.
- National Transportation Safety Board (NTSB) representatives are on scene; the NTSB assessment has transitioned to a full investigation. NTSB communications requirements are being implemented for parties involved in the incident investigation. The EPA continues to coordinate press releases with Colonial Pipeline through the JIC.

INCIDENT MANAGEMENT AND STAFFING

The incident management structure is as follows:

- OSC Karen Buerki remains integrated into Unified Command as the Incident Commander (IC). OSC Rick Jardine served as Deputy IC during the day shift early in the response and is currently serving as Deputy Operations Section Chief (OSC). OSC Jason Booth is serving as Deputy IC on the night shift.
- OSCs Harper remains integrated into the Operations Section and the Environmental Unit.
- PIO James Pinkney continues to coordinate information requests in the JIC.
- The United States Coast Guard (USCG) Gulf Strike Team (GST) remains embedded into the Operations Section.
- Superfund Technical Assessment and Response Team (START) remains embedded in the Environmental Unit and Situation Unit.

Current number	Number
EPA	5
USCG GST	4
START	4
Total Response Personnel	580

CURRENT RELEASE AND RECOVERY ESTIMATES

- Current Release Estimate remains unchanged at 3,300 bbl to 4,000 bbls[1]
- The fire was extinguished using foam at approximately 0438 on November 4, 2016.
- Initial recovery efforts have begun. Currently, product is being drained from the "main drain" at TORs 3 and 4. Initial pressures at the recovery point were measured at approximately 7 psi, but, are variable and anticipated to decrease rapidly based on the limited volume of product remaining in the pipeline.
- Containment measures have been installed at all of the TORs and around fractionating "frac" tanks being used for product storage.
- Based on the limited volume of product remaining in the pipeline, boom and containment measures are being removed from the Cahaba River, while the earthen dams and nearby containment measures remain in place.

REPORTING SCHEDULE

Situation Reports (SITREPS) will be delivered daily at 1700 hours EDT.

CURRENT OPERATIONS

1) **Environmental Sampling and Impacts**
   a. Air Monitoring
      - CTEH is conducting air monitoring at the frac tank staging area and TORs during recovery efforts.

[1] 1 barrel (bbl) = 42 gallons

- CTEH continued performing 24-hour mobile air monitoring at and near the incident area, as well as at nearby homes to the northwest and southeast of the incident area. Air monitoring results from 0600 hours CDT on November 3, 2016, through 0600 hours CDT on November 4 indicated no detections above site action levels, except for particulate matter 2.5 micrometers or less (PM2.5). Air monitoring results indicated spikes in the PM2.5 worker (1.22 mg/m^3) action levels near the incident area and near the residences (0.138 mg/m^3) located southeast of the incident area.
- CTEH conducted air monitoring during preparation for product recovery at the "main drain", TORs 3 and 4. Air monitoring results indicated that lower explosive limits (LEL) exceeded 4% and volatile organic compounds (VOCs) did not exceed the health based action levels (300 ppm).
- Effective at 0800 on November 4, 2016, CTEH will discontinue air monitoring in the outlying communities based on previous non-detect results. Mobile air monitoring will continue at and near the incident area and at nearby homes to the northwest and southeast of the incident area.
- CTEH began focusing air monitoring efforts on LEL, benzene and VOCs since the fire was extinguished early this morning.
- CTEH continued analytical air sampling at five locations near the homes located northwest (Bent Pine Drive) and southeast of the incident area along County Road 251.
- CTEH continues to upload air sampling data to the SCRIBE database.

b. Water/Sediment Sampling and National Resources Damage Assessment (NRDA)
- Environmental Planning Specialists (EPS) initiated another round of surface water sampling on November 4, including locations along the Cahaba River, Shades Creek, and the pond located southeast of the incident area.
- EPS initiated well water sampling activities at homes near the incident area. The EPA will not be splitting well water samples with EPS. Shelby County and ADEM have primary jurisdiction with respect to public health

2) Local Response Actions
- A red flag fire watch was issued, including the incident area, due to wind conditions (10 to 15 mph, gusts up to 20 mph) and low humidity.
- The air space restriction to 1,500 feet and a 1.5 mile radius around the incident area remains in effect until 0000 hours on November 7, 2016.

3) Health and Safety
- CTEH continues to conduct air monitoring and address health and safety concerns during response activities.
- USCG Gulf Strike Team representatives continue to provide health and safety oversight of response operations.

4) Communications

- NTSB communications requirements are being implemented for parties involved in the incident investigation. EPA continues to coordinate press releases with Colonial Pipeline through the JIC.

5) **Fuel Supply**
   - Region 4 is working with EPA Headquarters to address any fuel waiver requests from the impacted States???? This has been done????.

PLANNED RESPONSE ACTIVITIES

- Complete one additional round of split sampling of water and sediment with EPS.
- Continue product recovery from Line 1 in preparation for replacement of the damaged section at the incident area.
- Begin excavation along the pipeline at the incident area in preparation for the replacement of the damaged section.
- CTEH will continue air monitoring and sampling. USCG will continue air monitoring.
- Complete and approve the Transition Plan for moving from emergency to removal phase.
- Continue preparing and releasing updates for the media outlets.

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:03 PM
To: Pressley, Miriam
Subject: Fw: E17404 - Update CANAPS Project

From: Eichinger, Kevin
Sent: Friday, November 4, 2016 2:43 PM
To: Jones, Katrina; Bates, Lloyd
Cc: Buerki, Karen
Subject: FW: E17404 - Update CANAPS Project

Katrina and Monty,

We need to increase the START TDD to $50,000 for the Colonial Pipeline Response to cover increased time and sampling costs.

Thanks,
Kevin

From: AutoResponseCANAPS@uscg.mil [mailto:AutoResponseCANAPS@uscg.mil]
Sent: Friday, November 04, 2016 2:38 PM
To: Eichinger, Kevin <Eichinger.Kevin@epa.gov>; Moore, Tony <moore.tony@epa.gov>; McGuire, Jim <McGuire.Jim@epa.gov>; BATES.LLYOD@EPA.GOV; Masterson, Chris <Masterson.Christopher@epa.gov>
Subject: E17404 - Update CANAPS Project

CANAPS has processed a CEILING UPDATE REQUEST. However, the amount requested exceeds the cu
contact the NPFC Case Officer identified below during normal business hours (Eastern Time) to discuss th
If you need to contact someone after business hours (Eastern Time), call the NPFC Case Management Du
Below is all of the information entered by the requestor or calculated by CANAPS. This Email serves as co
Messaging System (CGMS) message will be automatically generated.
Recipients are reminded that the issuance of this project number and ceiling does not in any way change t
acquisition procedures.

CANAPS Transaction Type:	CEILING UPDATE (ABOVE THRESHOLD)
Project Number:	E17404
Ceiling Update Date:	04 NOV 2016.
Incident Date:	31 OCT 2016.
Incident Name:	COLONIAL PIPELINE - E17404
Previous CG Cost Ceiling:	No Data Entered

Previous OSLTF/CERCLA Ceiling:	$150,000.00
Previous Total Ceiling:	$150,000.00
CG Cost Amount Requested:	No Data Entered
OSLTF/CERCLA Amount Requested:	$200,000.00
Total Amount Requested:	$200,000.00
Approved CG Cost Ceiling:	No Data Entered
Approved OSTLF/CERCLA Ceiling:	$150,000.00
Approved Total Ceiling:	$150,000.00
CG Cost Obligations/Expenditures:	No Data Entered
OSLTF/CERCLA Obligations/Expenditures:	$30,000.00
Total Obligations/Expenditures:	$30,000.00
Incident Location:	COLONIAL GASOLINE PIPELINE RUPTURE AND FIRE
Incident State:	AL
FOSC Unit:	EPA Region 4
POC/FOSC Name:	KAREN BUERKI
POC/FOSC Email:	BUERKI.KAREN@EPA.GOV
POC/FOSC Phone:	(404)562-8747
POC/FOSC FAX:	No Data Entered
Requesting Unit:	EPA Region 4
Requestor Name:	KEVIN EICHINGER
Requestor Phone:	(404)562-8268
Requestor Email Address(es):	EICHINGER.KEVIN@EPA.GOV,MOORE.TONY@EPA.GOV,MCGUIRE.JIM@E
CGMS Reference:	
Case Officer Name:	McCrossen, Thomas M.
Case Officer Phone:	(202)795-6093
Case Officer Cell Phone:	(202)360-6061
Case Officer FAX:	No Data Entered
Case Officer Email:	Thomas.M.McCrossen@uscg.mil

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:01 PM
To: Pressley, Miriam
Subject: Fw: Colonial Pipeline Response Costs

From: Prys, Paul <Paul.Prys@tetratech.com>
Sent: Thursday, November 3, 2016 11:11 PM
To: Buerki, Karen
Subject: Colonial Pipeline Response Costs

Karen,

I forgot to send this before I left. I figured up the costs incurred through today and we have spent just under $20,600. I can give you the breakdown in the morning.

Paul Prys | Senior Environmental Scientist/Project Manager
Direct: 678.775.3106 | Cell: (b)(6) | Fax: 678.775.3138
paul.prys@tetratech.com

Tetra Tech | Atlanta Office
1955 Evergreen Blvd. Bldg. 200, Ste. 300, Duluth, GA 30096 www.tetratech.com | NASDAQ:TTEK

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Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:01 PM
To: Pressley, Miriam
Subject: Fw: Pelham Pipeline Rupture SITREP #4

From: Tripp, Christopher
Sent: Thursday, November 3, 2016 10:14 PM
To: Buerki, Karen
Subject: Re: Pelham Pipeline Rupture SITREP #4

(b) (5) [redacted]

Sent from my iPhone

On Nov 3, 2016, at 9:37 PM, Buerki, Karen <Buerki.Karen@epa.gov> wrote:

(b) (5) [redacted]

(b) (5) [redacted]

Sent from my iPhone

On Nov 3, 2016, at 6:23 PM, Tripp, Christopher <tripp.christopher@epa.gov> wrote:

Colonial Pipeline CR251 Rupture

Pelham, Shelby County, Alabama

Situation Report #4

November 3, 2016

1700

NRC #1162982

INCIDENT DESCRIPTION

On October 31 at 1455 hours, a Colonial Pipeline contractor struck a 36" below ground transmission gasoline pipeline (Line 1) while finishing a permanent repair necessitated by the previous pipeline rupture that occurred on September 9. The gasoline pipeline exploded and caught fire. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center. One worker was fatally injured and six workers were transported to local hospitals.

The exact amount of the release is unknown; however, Colonial Pipeline has estimated that between 3,300 and 4,000 barrels of gasoline were released. Both main pipelines were shut down. The local fire department responded and contained the fire around the ruptured site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. The fire continues to burn at this time. Line 2 was restarted at 2250 hours on October 31 at a reduced rate.

The Alabama Department of Environmental Management (ADEM), Shelby County Emergency Management Agency (EMA), US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, have been notified. EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command (UC).

PUBLIC AFFAIRS

- EPA responded to an email inquiry from Conner Sheets with AL.com.
- Pipeline and Hazardous Material Safety Administration (PHMSA) Administrator Marie Therese Dominguez toured site activities and met with federal officials on-site.

INCIDENT MANAGEMENT AND STAFFING

EPAs integration into the Colonial Pipeline Incident Command structure will provide myriad of benefits to the response and further ensure operations run successfully. This will be accomplished through working directly with the Environmental Unit on sampling and monitoring, the Planning Section, safety, and with overall operations related to this unfortunate incident. All EPA staff, USCG GST and support contractors have embedded into the Colonial incident management structure.

Current number	Number
EPA	5
USCG GST	4
START	5
Total Response Personnel	approximately 120

CURRENT RELEASE AND RECOVERY ESTIMATES

Current Release Estimate – 3,300 bbl to 4,000 bbls[1]

REPORTING SCHEDULE

Situation Reports (SITREPS) will be delivered daily at 1800 hours EST.

CURRENT OPERATIONS

1) **Environmental Sampling and Impacts**
   a. Air Monitoring
      - CTEH continued performing 24-hour mobile air monitoring near the incident area, the homes located northwest of the incident area, and along County Road 1, County Road 12, County Road 13, River Road, and Crest Road. Air monitoring results from 0600 hours CDT on November 2, through 0600 hours CDT on November 3 indicated no detections above site action levels, except for particulate matter 2.5 micrometers or less (PM2.5). Air monitoring results indicated spikes in the PM2.5 worker (2.69 mg/m3) action levels near the incident area and along River Road near the residences located northwest of the incident area.
      - CTEH continued analytical air sampling at five locations near the homes located northwest (Bent Pine Drive) and southeast of the incident area and along County Roads 1, 13, and 251. Analytical air monitoring began at three locations on October 31, 2016, at the homes located northwest of the incident area on Bent Pine Drive and County Road 13. On November 2, analytical air sampling was expanded to the five locations listed above. The air sample located on Bent Pine Drive was moved to the intersection of Bent Pine Drive and County Road 13.
      - CTEH obtained a subscription ID and password to upload air sampling data to the SCRIBE database. This will allow EPA to analyze air monitoring results in real-time.

b. Water/Sediment Sampling and National Resources Damage Assessment (NRDA)
   - Colonial Pipeline contractor completed the environmental sampling plan, as well as, prepared for performing a natural resources damage assessment (NRDA).
   - Environmental Planning Specialists (EPS) collected surface water samples at three locations along the Cahaba River and a collocated surface water and sediment sample at two location along Shades Creek.

2) Local Response Actions

- Distillates Line #2 was unearthed during the night and inspected by Colonial Pipeline (CP). CP determined there was no damage and returned to the pipeline to service.
- TORs (Threaded O-Rings) were placed overnight in accordance with the Drain-Up Plan[2] and CP has been constructing an earthen berm around the leak area while an evacuation plan and other operational considerations are being vetted prior to extinguishing the fire.
- Local fire personnel monitored the fire during the night and through the day as it continued to burn.
- The air space restriction to 1,500 feet and a 1.5 mile radius around the incident area remains in effect until 0000 hours on November 4, 2016. The temporary flight restriction has been extended until 0000 hours on November 7, 2016.
- The site decontamination plan was completed and approved.
- There was a berm created down below the leak site where the fire is burning. There are also containment and recovery measures in place for evacuation of product from the pipeline and other pipeline operations.

3) Health and Safety

- National Transportation Safety Board personnel continued to conduct site incident investigation.
- Health and Safety will be elevated over the next operational period as pipeline work is taking place.

4) Fuel Supply

- Line #2 is in full operation, it moves heavier/industrial product (e.g. diesel, jet fuel, kerosene).
- Region 4 worked with EPA Headquarters to address fuel waiver requests from the impacted States. Today, November 3, there was a fuel waiver granted for a reformulated gas blend, signed by the EPA Administrator.

PLANNED RESPONSE ACTIVITIES

- Continue water and sediment sampling at three locations along the Shades Creek as access permits.
- Continue efforts to gain access for well water sampling at residences near the incident area.
- Continue efforts to evacuate gasoline from the pipeline in preparation of repair at the incident site.
- Complete installation of interceptor trench and underflow dam in the pond southeast of the incident area.
- Continue air monitoring and sampling through CTEH. Continue air monitoring through USCG GST.
- Complete preparation of the Restoration of Services Plan (RSP).
- Continue preparing and releasing updates for the media outlets.

Christopher Tripp - On-Scene Coordinator

U.S. Environmental Protection Agency, Region 4 | 61 Forsyth St SW | Atlanta, Georgia | 30303

Emergency Response, Removal and Prevention Branch (ERRPB)

office: **404-562-8745** | cell: **470-426-3336**

epaosc.org

[1] I barrel (bbl) = 42 gallons
[2] The Drain-Up Plan is a plan to evacuate product from the pipeline.

<Colonial Pipeline Rupture_SITREP4_110316.pdf>

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:01 PM
To: Pressley, Miriam
Subject: Fw: DRAFT: Colonial Pipeline Explosion Desk Statement

---

From: Buerki, Karen
Sent: Thursday, November 3, 2016 9:27 PM
To: Buerki, Karen
Subject: Fwd: DRAFT: Colonial Pipeline Explosion Desk Statement

Sent from my iPhone

Begin forwarded message:

> **From:** "Pinkney, James" <Pinkney.James@epa.gov>
> **Date:** November 3, 2016 at 12:48:29 PM CDT
> **To:** "Buerki, Karen" <Buerki.Karen@epa.gov>, "Moore, Tony" <moore.tony@epa.gov>, "Webster, James" <Webster.James@epa.gov>
> **Subject: DRAFT: Colonial Pipeline Explosion Desk Statement**
>
> Please review and make any necessary changes. Thanks.

Colonial Pipeline Explosion Desk Statement

11/3/2016

Robert

[redacted]

[redacted]

Background

On October 31, 2016 a Colonial Pipeline contractor struck a 36" below ground transmission gasoline pipeline while performing maintenance activities. This operation was necessary to install a permanent repair required by a previous pipeline rupture on September 9, 2016. The gasoline pipeline exploded and caught fire. Nine contractors were onsite at the time of the incident and one has died of injuries sustained on location. Five others were injured and transported to local hospitals. One of those five has been treated and released with four remaining area hospitals.

James Pinkney

EPA Region 4 Office of External Affairs

61 Forsyth Street SW | Atlanta, GA 30303

phone: 404.562.9183 | mobile: 404.695.5503

email: pinkney.james@epa.gov

Follow Region 4 on Twitter: www.twitter.com/EPASoutheast

and Facebook: www.facebook.com/eparegion4

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 2:00 PM
To: Pressley, Miriam
Subject: Fw: Colonial Pipeline Clips 11/3/16

From: Pinkney, James
Sent: Thursday, November 3, 2016 12:25 PM
To: Buerki, Karen
Subject: FW: Colonial Pipeline Clips 11/3/16

FYI

Subject: Colonial Pipeline Clips 11/3/16

Below: Platts, AP (via AL.com), Atlanta Business Chronicle

AL.com - Alabama Local News, Breaking News, Sports & Weather

al.com

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Platts
http://www.platts.com/latest-news/oil/washington/house-democrats-push-for-colonial-pipeline-probe-21966613

House Democrats push for Colonial Pipeline probe after ...

www.platts.com

Several top US House Democrats want a federal investigation of Colonial Pipeline Co after a fire and explosion Monday shut the company's Line 1 gasoline pipeline.

House Democrats push for Colonial Pipeline probe after fire
No listed author 11/2/16 5:31pm

Several top US House Democrats want a federal investigation of Colonial Pipeline Co after a fire and explosion Monday shut the company's Line 1 gasoline pipeline.

In a letter to Transportation Secretary Anthony Foxx Wednesday, the House Democrats requested a "comprehensive examination" of Colonial, its liquid pipeline system and how the company manages the maintenance and integrity of that system.

The fire and explosion in Alabama was the third major incident on Colonial's system in about a year and the seventh incident in less than five years, which the Democrats said could be "symptomatic of severe underlying problems with the system and the company's management of that system."

The Democrats wrote these incidents caused "considerably increased prices for refined petroleum products throughout many US markets."

The Democrats, whose party does not control the House, asked DOT to give them an initial briefing on the safety of the system and possible causes of the failure by December 1.

The fire and explosion Monday is under review by DOT's Pipeline and Hazardous Materials Safety Administration, but CJ Young, a spokesman for New Jersey Representative Frank Pallone, said this probe will go well beyond that.

"We are asking for a full examination of the company and its system as a whole," Young said. "The current investigation is only focused on Line 1 and the most recent incidents."

Pallone is the top Democrat on the Energy and Commerce Committee and one of the five senior House members who signed the letter to Foxx.

In a statement, Patrick Creighton, a Colonial spokesman, said the company "takes these matters very seriously and we will continue to cooperate with PHMSA and other agencies on their ongoing investigations."

"We have robust system integrity, inspection and maintenance programs that meet or exceed all federal regulatory requirements," Creighton said. "When incidents do occur, we investigate and determine the cause alongside government regulators, and take corrective actions based on lessons learned to minimize the likelihood of similar events happening again in the future."

Colonial is projecting a restart this weekend of the gasoline line and resumed operations on its distillate Line 2 on Monday night.

Line 1 moves an average of 1.37 million b/d of gasoline from Pasadena, Texas, to Greensboro, North Carolina, and then carries product to Linden, New Jersey. Colonial is considered the main artery connecting Gulf Coast refiners with customers along the US Eastern Seaboard.

In addition to Pallone, the letter to Foxx was signed by the senior Democrats of several House committees and subcommittees: Oregon's Peter DeFazio, on the Transportation and Infrastructure Committee; Illinois' Bobby Rush, on the Energy and Power subcommittee; Massachusetts' Michael Capuano, on the Railroads, Pipelines, and Hazardous Materials subcommittee; and Colorado's Diana DeGette, on the Oversight and Investigations subcommittee.

AP
http://www.al.com/news/birmingham/index.ssf/2016/11/congressional_democrats_want_c.html
Congressional Democrats want Colonial Pipeline investigation after Alabama explosion

No listed author 11/2/1/6

A fire sparked by a huge explosion on a major gasoline pipeline continued burning Wednesday two days after the fatal blast as congressional Democrats sought an investigation of the Georgia-based operator.

Colonial Pipeline Co. said the fire in a rural area southwest of Birmingham was "significantly smaller" since Monday, and an environmentalist said the blaze had shrunk considerably from when it was shooting flames hundreds of feet in the air like a geyser of fire.

"It was about the size of a person last night when I saw it," said David Butler of Cahaba Riverkeeper, who has worked closely with the company to help prevent environmental damage.

The company — which is letting the fire burn itself out — has said it hoped to restart the line as early as this weekend. But it can't fully assess the damage and begin repairs until the blaze is out, and it's unclear when that might happen.

Based in suburban Atlanta, Colonial Pipeline has said as much as 168,000 gallons of gasoline could have burned, spilled, evaporated or remained in the pipeline following the blast Monday afternoon. The pipeline supplies gasoline to the Southeast, and officials are worried about fuel shortages and possible price spikes.

North Carolina Republicans urged their supporters to vote early and avoid any gas-related disruptions on Election Day, but Georgia Gov. Nathan Deal urged people to stick with normal fuel usage rather than stocking up and causing a spike in demand.

Meanwhile, U.S. House Democrats asked for an investigation of Colonial Pipeline. Five ranking members of panels dealing with energy, transportation, infrastructure, pipelines and investigations released a letter to Transportation Secretary Anthony Fox seeking the review.

The House members cited the deadly explosion earlier this week and a large spill in September just a few miles away. The company said the pipeline exploded as a nine-person crew was attempting to make a temporary repair that would allow for a permanent repair to the area where the spill occurred.

The letter also mentioned smaller spills in 2015 in North Carolina and Virginia, where several thousand gallons of petroleum product spilled.

A statement by Colonial said it takes accidents seriously and already is cooperating with investigators.

"We have robust system integrity, inspection and maintenance programs that meet or exceed all federal regulatory requirements," the statement said.

The damaged pipeline, which runs from the Gulf Coast to New York City, provides almost 40 percent of the region's gasoline and usually operates at or near full capacity. Combined with a nearby pipeline for diesel and aviation fuel, the two lines carry more than 2 million barrels of fuel daily.

Colonial said it only took a few hours after the explosion to restart the pipeline carrying diesel and jet fuel.

Since 2006, Colonial Pipeline has reported 178 spills and other incidents that released a combined 193,000 gallons of hazardous liquids and caused $39 million in property damage. Most were caused by problems with materials, welding or some other equipment failure, according to federal accident records reviewed by The Associated Press.

The company paid $381,000 in penalties for violating safety rules during the same period.

Atlanta Business Chronicle
http://www.bizjournals.com/atlanta/news/2016/11/03/congress-seeking-investigation-of-colonial.html
Congress seeking investigation of Colonial Pipeline explosion
By Ellie Hensley 11/3/16 7:45am

U.S. House Democrats are calling for an investigation of Colonial Pipeline after a Nov. 1 explosion southwest of Birmingham, Ala., WABE reports.

Five U.S. Congress members on panels concerning energy, transportation, infrastructure, pipelines and investigations released a letter to Transportation Secretary Anthony Fox requesting the probe.

As of the evening of Nov. 3, the fire was still burning, though smaller in size. It has consumed about 31 acres of land, killed one and injured several others.

Metro Atlanta-based Colonial Pipeline said as much as 168,000 gallons of gasoline could have burned, spilled, evaporated or remained in the pipeline after the blast.

Colonial Pipeline executive Gerald Beck said Nov. 2 the company could restart its Line 1 pipeline by this weekend, according to Atlanta Business Chronicle's sister paper Birmingham Business Journal.

Pressley, Miriam

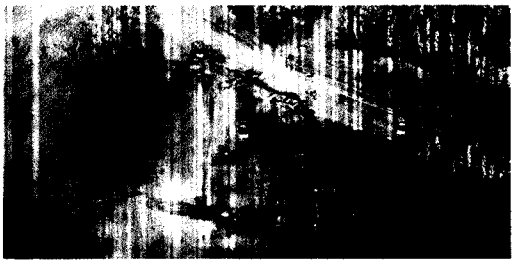
From: Buerki, Karen
Sent: Friday, January 20, 2017 2:00 PM
To: Pressley, Miriam
Subject: Fw: Greenwire - Colonial's fatal blast is the most serious in a string of incidents

---

From: Pinkney, James
Sent: Thursday, November 3, 2016 12:24 PM
To: Buerki, Karen
Subject: FW: Greenwire - Colonial's fatal blast is the most serious in a string of incidents

FYI

http://www.eenews.net/energywire/2016/11/03/stories/1060045211



PIPELINES: Colonial's fatal blast is the most serious in a ...

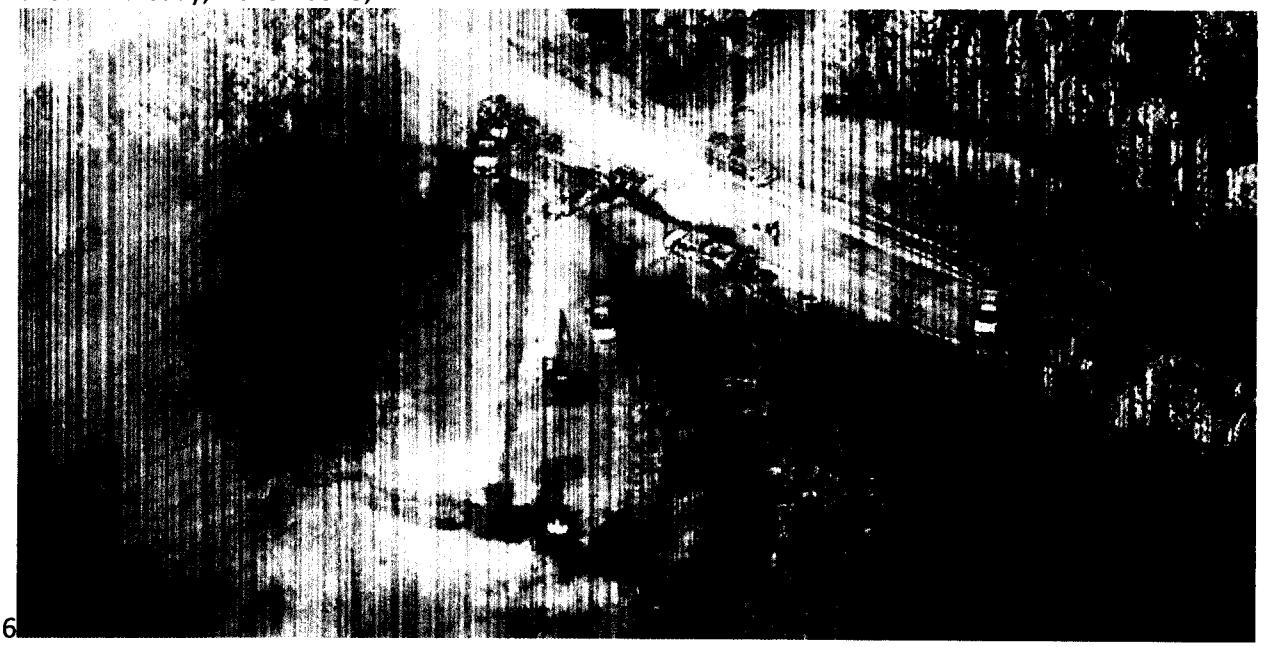
www.eenews.net

The Colonial pipeline, disrupted this week by a fatal explosion and fire in Alabama, has had 183 reports of problems since 2005, according to federal records.

PIPELINES:
Colonial's fatal blast is the most serious in a string of incidents

Mike Soraghan and Mike Lee, E&E reporters

Published: Thursday, November 3,



2016

A flame continues to burn Tuesday after a Monday explosion of the Colonial pipeline in Helena, Ala. Photo courtesy of AP Images.

The Colonial pipeline, disrupted this week by a fatal explosion and fire in Alabama, has had 183 reports of problems since 2005, according to federal records.

But at least until a spill on the major fuels artery in September, none were deemed serious by the Pipeline and Hazardous Materials Safety Administration (PHMSA) and none involved injuries or fatalities. Company officials said most of the incidents occurred at facilities — only 10 percent were in the pipeline right of way.

The Monday blast and the fire it started closed one of Colonial's two liquid fuel lines. The September spill caused gasoline shortages and price hikes in the Southeast, and the new disruption has raised concerns that they could happen again. Company officials have said the line could reopen as early as Saturday.

The explosion occurred Monday in rural Shelby County, southwest of Birmingham. Authorities were letting the fire burn itself out. It was still burning yesterday, though it had reportedly diminished in size.

The 5,500-mile Colonial pipeline system, put in service in 1963, is the largest U.S. refined products pipeline system. It runs between Houston and the New York City area and can transport up to 100 million gallons of fuel a day.

Koch Industries Inc., the private Wichita, Kan.-based company whose owners have courted controversy with large political contributions, is the largest of five shareholders in the pipeline.

The explosion occurred when a track hoe hit the pipeline Monday afternoon. The nine-member crew was working on the pipeline as part of the repairs from the leak in September. One worker, whose name has not been released, was killed. Five others were injured (***Greenwire***, Nov. 2).
Colonial has had six other excavation incidents since 2005, none involving injuries or fatalities, PHMSA records show. Three were flagged as "significant." None were in Alabama.

The pipeline company, based in the Atlanta suburbs, got a warning letter from PHMSA in October 2015 after a spill for having an unqualified worker performing tasks at its facility near Jackson, La. Earlier this year, the agency sent a similar warning letter asserting that the company had failed to do required inspections for 42 mainline valves. In both cases, PHMSA opted not to pursue enforcement actions.

The 183 incidents since 2005 have caused about $45 million in property damage and released nearly 200,000 gallons of hazardous liquids. In that time, PHMSA has proposed $381,000 in penalties. The most common cause, cited in 114 cases, was "material/weld/equipment failure."

"That number of incidents on a pipeline is an unusually large number," said Richard Kuprewicz of Accufacts Inc., a pipeline incident investigator with 40 years' experience. But he added that without a detailed look, he couldn't judge how problematic the record of incidents is.

He said it's a "fair question" for people to ask why the operator has had two disruptive accidents in as many months. But he said investigators likely won't be able to say for months whether they reflect deeper problems with control of the system or they're a run of bad luck.

"We just don't have the evidence," Kuprewicz said.

The company's spill record is in the middle of the pack compared to operators of similar pipelines, according to researchers at the Pipeline Safety Trust.

On an incident-per-mile basis, Colonial is better than the national average for the last 10 years and the amount spilled is smaller than other pipelines, said PST Executive Director Carl Weimer.

"Not sure that means they are safer or that the national averages are not a high bar to beat," Weimer said.

Before 2006, Colonial had several high-profile spills and leaks going back to the 1980s. In 1980, the pipeline developed two leaks simultaneously at a site near Manassas, Va. About 8,000 barrels of jet fuel was spilled into a creek. An investigation found that corrosion had eaten through most of the pipe, and a National Transportation Safety Board report said that the Transportation Department and the pipeline industry should jointly research ways to reduce corrosion.

NTSB records indicate Colonial had a string of spills in the late 1990s in Tennessee and Georgia.

Company officials have defended their safety record.

"We have robust system integrity, inspection and maintenance programs that meet or exceed all federal regulatory requirements," a company spokesman said in a statement. "When incidents do occur, we investigate and determine the cause alongside government regulators, and take corrective actions based on lessons learned to minimize the likelihood of similar events happening again in the future."

PHMSA issued a statement saying its personnel are on-site and investigating the blast.

"If PHMSA determines the operator has violated any Federal pipeline standards, the agency can issue an enforcement action, levy civil penalties, or refer the case for criminal investigation," the statement said.

Democratic leaders on the House Energy and Commerce Committee urged the Department of Transportation yesterday to investigate the pipeline company (***Greenwire***, Nov. 2). The letterfrom House Democrats also noted a 4,000-gallon spill September 2015 spill near Centreville, Va., and incidents in North and South Carolina and Virginia.
Click here, **here**, **here** and **here** to see NTSB's reports on earlier spills.

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 1:59 PM
To: Pressley, Miriam
Subject: Fw: Pelham Pipeline Rupture SITREP #2

From: Eichinger, Kevin
Sent: Thursday, November 3, 2016 9:00 AM
To: thomas.m.mccrossen@uscg.mil; Buerki, Karen
Subject: RE: Pelham Pipeline Rupture SITREP #2

Karen,

Can you get with Tom on the F&W PRFA. I sent you our SOW template in case its need.

Kevin

-----Original Message-----
From: McCrossen, Thomas M CIV [mailto:Thomas.M.McCrossen@uscg.mil]
Sent: Thursday, November 03, 2016 8:56 AM
To: Eichinger, Kevin <Eichinger.Kevin@epa.gov>
Subject: RE: Pelham Pipeline Rupture SITREP #2

Good Morning Kevin, can you send me Sitrep 3. Also, do you have the PRFA for US FWS? I'd like to get that obligated for you.

Respectfully,
Thomas McCrossen
Case Officer, Team II - SE Region
USCG National Pollution Funds Center
US Coast Guard Stop 7605
2703 Martin Luther King Jr Ave SE
Washington DC 20593-7605
Phone: 202-795-6093
Fax: 202-372-8357

-----Original Message-----
From: Eichinger, Kevin [mailto:Eichinger.Kevin@epa.gov]
Sent: Wednesday, November 02, 2016 6:17 AM
To: McCrossen, Thomas M CIV
Subject: [Non-DoD Source] Fwd: Pelham Pipeline Rupture SITREP #2

Sent from my iPhone

Begin forwarded message:

From: "Tripp, Christopher" <tripp.christopher@epa.gov>
Cc: "Tripp, Christopher" <tripp.christopher@epa.gov>
Subject: Pelham Pipeline Rupture SITREP #2

Colonial Pipeline CR251 Rupture

Pelham, Shelby County, Alabama

Situation Report #2

November 1, 2016

1700

NRC #1162982

INCIDENT DESCRIPTION

On October 31 at 1455 hours, a Colonial Pipeline contractor struck a 36" below ground transmission gasoline pipeline (Line 1) while finishing a permanent repair necessitated by the previous pipeline rupture that occurred on September 9. The gasoline pipeline exploded and caught fire. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center. One worker was fatally injured and six workers were transported to local hospitals.

The exact amount of the release is unknown; however, Colonial Pipeline has estimated that between 3,300 and 4,000 barrels of gasoline were released. Both main pipelines were shut down. The local fire department responded and contained the fire around the ruptured site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. The fire continues to burn at this time. Line 2 was restarted at 2250 hours on October 21 at a reduced rate.

The Alabama Department of Environmental Management (ADEM), Shelby County Emergency Management Agency (EMA), US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, have been notified. EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command (UC).

PUBLIC AFFAIRS

PIO Pinkney and OSC Jardine conducted an on-camera interview with various media outlets.

INCIDENT MANAGEMENT AND STAFFING

EPAs integration into the Colonial Pipeline Incident Command structure will provide myriad benefits to the response and further ensure operations run successfully. This will be accomplished through working directly with the Environmental Unit on sampling and monitoring, the Planning Section, safety, and with overall operations related to this unfortunate incident. The incident management structure is as follows:

* OSC Karen Buerki has integrated into Unified Command.

* OSCs Booth, Jardine, and Harper have integrated into the Planning Section, Operations Section, and the Environmental Unit.

* PIO James Pinkney coordinated information requests in the Joint Information Center (JIC).

* The United States Coast Guard (USCG) Gulf Strike Team (GST) will be embedding into the Operations Sections.

* Superfund Technical Assessment and Response Team (START) is becoming embedded in the Environmental Unit and Situation Unit.

Current number

Number

EPA

5

USCG GST

4

START

4

Total Response Personnel

approximately 120

CURRENT RELEASE AND RECOVERY ESTIMATES

Current Release Estimate - 3,300 bbl to 4,000 bbls[1]

REPORTING SCHEDULE

Situation Reports (SITREPS) will be delivered daily at 1700 hours EST.

CURRENT OPERATIONS

1) Environmental Sampling and Impacts

a. Air Monitoring

* CTEH continued performing 24-hour mobile air monitoring along Highway 13, River Road, and near the homes located northwest of the incident area. Air monitoring results through 1200 hours on November 1 indicated no detections above site action levels, except for particulate matter 2.5 micrometers or less (PM2.5). Air monitoring results indicated spikes in the PM2.5 community (0.138 mg/m3) and worker (0.351 mg/m3) action levels near the fire along River Road and near the residences located northwest of the incident area.

* CTEH continued performing mobile air monitoring throughout the populated areas along the northern perimeter of the ruptured area. Air monitoring results indicated no detections above background levels. CTEH developed an area air sampling plan for approval.

b. Water/Sediment Sampling and National Resources Damage Assessment (NRDA)

* Colonial Pipeline contractor began preparing a water and sediment sampling plan, as well as, performing a natural resources damage assessment (NRDA).

* Environmental Planning Specialists (EPS) began collocated water and sediment sampling at five locations along the Cahaba River, three locations along Shades Creek, and at one location at the pond located southeast of the incident area.

* Conducted review of site surface water, sediment, and air sampling plans.

2) Local Response Actions

* Local fire personnel monitor the fire as it continues to burn. There are five homes housing eight residents located near the incident area. Two of the residents were initially evacuated from the incident area but were allowed to return home. Six of the residents remained sheltered in place. Local fire personnel will continue to monitor the area in the event those residents need evacuation.

* Shelby County EMA initially requested that the Shelby County Sheriff Department restrict the air space (3,000 feet above and a 3 mile radius) around the incident area until 1000 hours on November 2. Shelby County Sheriff Department reduced the air space restriction to 1,500 feet and a 1.5 mile radius around the incident area at 1200 hours on November 1.

* Local fire personnel monitored the fire during the night through the afternoon as it continued to burn.

* Conducted aerial surveillance of the incident via drone.

* Completed set up of staging area in Woodstock, Alabama.

3) Health and Safety

* Occupational Safety and Health Administration (OSHA) personnel mobilized to the Scene to conduct site incident investigation.

4) Communications

* Improved site communications via installation of Southern Link Communication-Sites-on-Wheel (COW).

* Convened Regional Response Team via teleconference at 1030 hours CDT.

* Congressman Gary Palmer toured site activities.

* Participated in a Unified Command press conference in Helena, Alabama, at 1345 hours CDT. There have no visible impacts to the surface waters from the incident.

5) Fuel Supply

* Region 4 is working with EPA Headquarters to address any fuel waiver requests from the impacted States.

PLANNED RESPONSE ACTIVITIES

* Complete installation of booms in Shades Creek, Living River, and Cahaba River.

* Begin water and sediment sampling. Continue water and sediment sampling every two days at 5 locations along the Cahaba River, three locations along the Shades Creek and one location at the pond southeast of the incident area. Sampling frequency and locations may change based on movement of product.

* Continue to improve site communications via Communication-Sites-on-Wheels (COWs).

* Continue efforts to evacuate the pipeline and excavate threaded O-rings (TOR).

* Complete installation of interceptor trench and underflow dam in the pond southeast of the incident area.

* Complete preparation of the Product Disposal Plan (PDP).

* Continue air monitoring and sampling through CTEH.

* Continue to provide aerial surveillance via drone.

* Complete preparation of the Restoration of Services Plan (RSP).

* Continue preparation for media release.

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[1] I barrel (bbl) = 42 gallons

EEMSG Message:

The following attached file was dropped from the original message because it violated the executable file attachment policy:

Site Map.pdf, ATT00001.htm, Colonial Pipeline Rupture_SITREP 2_110116.pdf, ATT00002.htm

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 1:58 PM
To: Pressley, Miriam
Subject: Fw: Colonial Pipeline Rupture in Alabama - PRFA request.
Attachments: PRFA_Federal_colonial2_2016.pdf

From: Masson, Greg <greg_masson@fws.gov>
Sent: Thursday, November 3, 2016 7:01 AM
To: Buerki, Karen; Eichinger, Kevin
Cc: Anthony Ford; Jeff Powell; Joyce_Stanley@ios.doi.gov
Subject: Colonial Pipeline Rupture in Alabama - PRFA request.

Karen,

This is a four week financial estimates of our request for a PRFA for the Colonial Pipeline site. I have been in contact with the folks in our Alabama Field Office who are included on this e-mail. I have calculated a close estimate of their time and effort and a portion for contracting with the species expert consultant.

I know the PRFA is just a ceiling for the cost estimate and I have made it on the upper end so in the event their is a problem we do not have to go back and adjust it up. I fully expect our work to be significantly less than requested but I like to be on the safe side of my estimates.

Thank you for your call and reaching out to us.

Greg

--
Greg R. Masson, Ph.D.
Regional Environmental Quality / Spill / NRDA Coordinator
Southeast Region US FWS
1875 Century Blvd, Suite 200
Atlanta GA 30345
(404) 679-7223 office
((b)(6)
(404) 895-7093 spill phone
(404) 679-7081 fax
Greg_Masson@fws.gov

****
All things are connected. Whatever befalls the earth befalls the sons of the earth.

Man did not weave the web of life, he is merely a strand in it. Whatever he does to the web, he does to himself.

NOTE: This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

Federal Agency
Pollution Removal Funding Authorization

Recipient Agency	
Address	
Agency Locator Code (ALC)	
Agency DUNS	
Agency Tax ID	
Treasury Account Symbol (TAS)	

1. **Purpose**

This document authorizes reimbursement to the Recipient Agency from the Oil Spill Liability Trust Fund or CERCLA funds for certain removal costs incurred in response to the following pollution incident,_____,

Federal Project Number/CERCLA Project Number,_____.

This funding authorization is expressly contingent on the Recipient Agency's compliance with all requirements contained herein.

2. **Approved Functions and Reimbursement Limit**

Costs will be reimbursed only for actions that are directed or approved in advance by the FOSC. Approval may be verbal or written. Assessment, restoration, rehabilitation or replacement of natural resources damaged by the spill are not covered.

Maximum limit of authorization: $ $73,622.00

3. **Conditions**

See attached page(s) for scope of work, special conditions, date of performance, directions or approvals.

4. **Period of Authorization**

This authorization shall remain in effect until the completion date specified by the FOSC (which normally corresponds to the date of final removal activities).

5. **Reimbursement Procedure**

Upon completion of removal activities, the Recipient Agency will submit a SF-1080/1081 to the FOSC with detailed records of expenditures and activities for which reimbursement is sought. The agency may elect to use its own records providing an equivalent amount of documentation which has NPFC approval, or the agency may elect to use NPFC's Resource Cost Documentation package. The agency must submit the final request for reimbursement, supported by the required documentation, within 90 days following the completion date. If OMB Circular A-87 cost rates apply, cost certifications must be included. If at the end of the 90 days from final removal activities, there are any costs for which reimbursement has not been requested, written notice will be sent to the agency and 30 days later any balance remaining in the account will be deobligated.

Federal Agency
Pollution Removal Funding Authorization

6. **Accounting Data**

Document Control Number:	
Accounting String:	

7. **Points of Contact**

Federal On-Scene Coordinator Kevin Eichinger	Telephone: FAX: Email: Kevin.eichinger@epa.gov
Recipient Agency Representative Greg Masson	Telephone: 404 895-7093 FAX: 404 679-7081 E-Mail: greg_masson@fws.gov
NPFC Case Officer	Telephone: FAX: E-Mail:

8. **Authorizing Official**

Federal On-Scene Coordinator

Signature: _____ Date_____

Attachments: (1) Scope of Work

A PRFA is being requested to fund USFWS's participation in the response to the Colonial pipeline (line 1) explosion and gasoline spill. This agreement will fund the USFWS's ability to conduct site visits, conduct surveys of potentially impacted Threatened or Endangered species, provide technical assistance to the Unified Command, participate in Emergency Section 7 Endangered Species Act consultation work, collect ephermeral data, and take custody of deceased wildlife under Federal trust responsibilities, and review and comment documents associated with wildlife response and rehabilitation, in accordance with our responsibilities under the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. et seq.), the Migratory Bird Treaty Act of 1918 (40 Stat. 755, as amended; 16 U.S.C. 703 et seq.), and the Endangered Species Act of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

This PRFA will be enough for the estimated four weeks of time.

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 1:56 PM
To: Pressley, Miriam
Subject: Fw: SITREP #3 Colonial Pipeline CR251 Rupture Update

---

From: Tripp, Christopher
Sent: Wednesday, November 2, 2016 6:46 PM
Subject: SITREP #3 Colonial Pipeline CR251 Rupture Update

All,

There has been a delay in regards to receiving information from the field. Personnel at the incident are currently working on reporting out information from 11/10/16 operations. The SITREP will be sent out by 2000 ET.

Thank you,

Christopher Tripp - On-Scene Coordinator
U.S. Environmental Protection Agency, Region 4 | 61 Forsyth St SW | Atlanta, Georgia | 30303
Emergency Response, Removal and Prevention Branch (ERRPB)
office: **404-562-8745** | cell: **470-426-3336**
epaosc.org

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 1:56 PM
To: Pressley, Miriam
Subject: Fw: Colonial Pipeline Private Land Access Contacts

From: Prys, Paul <Paul.Prys@tetratech.com>
Sent: Wednesday, November 2, 2016 1:44 PM
To: Buerki, Karen; Harper, Greg
Subject: Colonial Pipeline Private Land Access Contacts

Karen and Greg,

The following are the private land access contacts for Colonial Pipeline:

Scott Blanton (Field): 256-239-4819
Kevin Raley (ICP): 423-421-3678

Let me know if you need anything else.

Paul Prys | Senior Environmental Scientist/Project Manager
Direct: 678.775.3106 | Cell: (b)(6) Fax: 678.775.3138
paul.prys@tetratech.com

Tetra Tech | Atlanta Office
1955 Evergreen Blvd. Bldg. 200, Ste. 300, Duluth, GA 30096 www.tetratech.com | NASDAQ:TTEK

PLEASE NOTE: This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 1:55 PM
To: Pressley, Miriam
Subject: Fw: OPA Account String for People Plus Favorites (

From: Walton, Kim
Sent: Wednesday, November 2, 2016 1:19 PM
To: Bates, Lloyd
Cc: Buerki, Karen; Booth, Jason; Jardine, Rick; Tripp, Christopher
Subject: RE: OPA Account String for People Plus Favorites (

Processed 11/2/16.

Kim Walton
Financial Specialist
Lead PPL Coordinator
Region 4
61 Forsyth Street, SW
Atlanta, GA 30303
Walton.kim@epa.gov
(404) 562-8221

From: Bates, Lloyd
Sent: Wednesday, November 02, 2016 10:49 AM
To: Walton, Kim <Walton.Kim@epa.gov>
Cc: Buerki, Karen <Buerki.Karen@epa.gov>; Booth, Jason <Booth.Jason@epa.gov>; Jardine, Rick <Jardine.Richard@epa.gov>; Tripp, Christopher <tripp.christopher@epa.gov>
Subject: OPA Account String for People Plus Favorites (

Kim: please enter the OPA account in the People Plus Favorites for the following employees:

Karen Buerki	Employee ID:	(b) (6) [redacted]
Jason Booth	Employee ID:	[redacted]
Rick Jardine	Employee ID:	0[redacted]
Chris Tripp	Employee ID:	[redacted]

Kadet

CR251-COLONIAL GASOLINE PIPELINE FIRE
BFY 2017
Appr: HR
Orgn: 04RAXHR
PRC: 303D91
Site: V4CW

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 1:54 PM
To: Pressley, Miriam
Subject: Fw: EOC Spot Report Update #2 (not #1): Region 4, Pipeline Explosion, Shelby County, Alabama (NRC Report #1162982)

From: Eoc, Epahq
Sent: Wednesday, November 2, 2016 1:18 PM
To: Eoc, Epahq
Subject: EOC Spot Report Update #2 (not #1): Region 4, Pipeline Explosion, Shelby County, Alabama (NRC Report #1162982)

Correction: This is update #2, not update #1 as previously labeled.
This report is being sent as a bcc to prevent accidental Reply to All messages.

UNCLASSIFIED//FOR OFFICIAL USE ONLY

EOC Spot Report Update #2: Region 4, Pipeline Explosion, Shelby County, Alabama (NRC Report #1162982)

US Environmental Protection Agency
Report as of November 2, 2016 1:00PM

Overview:

On October 31 at 1455 hours, a Colonial Pipeline contractor struck a below ground transmission gasoline pipeline (Line 1) while finishing a permanent repair necessitated by the previous pipeline rupture that occurred on September 9. The gasoline pipeline exploded and caught fire. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center. One worker was fatally injured and six workers were transported to local hospitals.
The exact amount of the release is unknown; however, Colonial Pipeline has estimated that between 3,300 and 4,000 barrels of gasoline were released. Both main pipelines were originally shut down. The local fire department responded and contained the fire around the ruptured site.

The Alabama Department of Environmental Management (ADEM), Shelby County Emergency Management Agency (EMA), US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, have been notified. EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command (UC).
There have been no visible impacts to the surface waters from the incident.

State, Local, and other Federal Agency Action:

- Local fire personnel monitored the fire as it burned.
- Shelby County EMA initially requested that the Shelby County Sheriff Department restrict the air space around the incident area.
- Occupational Safety and Health Administration (OSHA) personnel mobilized to the Scene to conduct site incident investigations.
- Regional Response Team was convened via conference call.
- Unified Command set up a Southern Link Communication-Sites-on-Wheel (COW) to improve site communications.
- On November 1, 2016, Congressman Gary Palmer toured site activities.
- On November 1, 2016, Unified Command participated in a press conference in Helena, Alabama.

EPA Actions:

- **Notifications:** EPA Region 4 immediately deployed Federal On-Scene Coordinators and technical and cleanup resources and made notifications to other Federal agencies and precautionary downstream notifications.
- **Incident Command System use:**
  - EPA is the lead Federal Official for the Response and has integrated into the Unified Command Structure with Colonial Pipeline. This Unified Command Structure provides a myriad of benefits to the response and helps streamline operations.
  - EPA has personnel embedded within the Incident Command System in roles that include Unified Commander, Planning, Operations, Safety, Environmental Unit, and Public Information Officers in the Joint Information Center.
  - EPA is using the USCG Gulf Strike Team in the Operations Section.
  - EPA is using its START technical contractor within the Environmental and Situation Units.
- Region 4 is working with EPA Headquarters to address any fuel waiver requests from the impacted States.
- Sampling and Monitoring activities conducted under Unified Command include:

- Air monitoring is being conducted on a 24-hour schedule and has not shown elevated readings above background;
- Environmental Planning Specialists (EPS) began collocated water and sediment sampling at five locations along the Cahaba River, at three locations along Shades Creek, and at one location at the pond located southeast of the incident area.
- Sampling Plans are being developed for surface water, sediment, and air sampling.
- Colonial Pipeline contractors have begun preparing a water and sediment sampling plan and a natural resources damage assessment (NRDA).

- Planned Response Activities:
  - Complete installation of booms in Shades Creek, Living River, and Cahaba River.
  - Begin water and sediment sampling. Continue water and sediment sampling every two days at 5 locations along the Cahaba River, three locations along the Shades Creek and one location at the pond southeast of the incident area. Sampling frequency and locations may change based on movement of product.
  - Continue to improve site communications via Communication-Sites-on-Wheels (COWs).
  - Continue efforts to evacuate the pipeline and excavate threaded O-rings (TOR).
  - Complete installation of interceptor trench and underflow dam in the pond southeast of the incident area.
  - Complete preparation of the Product Disposal Plan (PDP).
  - Continue air monitoring and sampling through CTEH.
  - Complete preparation of the Restoration of Services Plan (RSP).
  - Continue preparation for media release.

Media Interest: Extensive national and local.

- EPA Public Information Officer and the On-Scene Coordinator conducted an on-camera interview with various media outlets.

The HQ EOC will continue to monitor and provide updates as needed

Laura Casillas, Senior Watch Officer

U.S Environmental Protection Agency
Headquarters Emergency Operations Center
1200 Pennsylvania Ave
Washington, DC 20004
202-564-3850 (24-hrs)
202-564-8729 (fax)
eoc.epahq@epa.gov

, Watch Officer
U.S. Environmental Protection Agency
Headquarters Emergency Operations Center
1200 Pennsylvania Ave
Washington, DC 20004
202-564-3850 (24hrs)
eoc.epahq@epa.gov

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:49 PM
To: Pressley, Miriam
Subject: Fw: Equipment request Colonial Fire ER
Attachments: removed.txt

From: Corey L. Brown <cbrown@bashaservices.com>
Sent: Wednesday, November 2, 2016 12:37 PM
To: Johnson, Dora Ann
Cc: Buerki, Karen; Harper, Greg
Subject: RE: Equipment request Colonial Fire ER

Dora Ann,

We are prepping the PSU to be delivered to the ICP for the Colonial Pipeline Gas Fire Site. We will incur an estimated 3-4 hours overtime delivering this item, due to the request for it to be on site today.

Please feel free to contact me should you have any questions.

Corey L. Brown
Project Manager
Basha Services, LLC
Certified 8(a) Contractor
2336 Wisteria Drive, Suite 510
Snellville, GA 30078
Direct Office Line: 678-981-8776
Office: 678-344-1161
Fax: 678-344-1163
Mobile: (b)(6)
Basha 24-Hour Hotline: 855-68-Basha (855-682-2742)
e-mail:cbrown@bashaservices.com
Website: http://bashaservices.com

Basha Services

bashaservices.com

Professionalism. We will let our performance drive our customers to prefer Basha Services over all others who provide similar services.

Twitter: http://twitter.com/#!/Bashaservices

From: Harper, Greg [mailto:Harper.Greg@epa.gov]
Sent: Wednesday, November 2, 2016 11:44 AM
To: Corey CB. Brown <cbrown@bashaservices.com>
Cc: Buerki, Karen <Buerki.Karen@epa.gov>; Johnson, Dora Ann <Johnson.Dora@epa.gov>
Subject: Equipment request Colonial Fire ER

Corey,

We have a request to mobilize a PSU to the ICP. We are located at the old Valley Elementary School.

310 Opportunity Dr
Pelham, AL 35124
United States

Did you get the septubes for the multirae benzene? If so bring them.

Thank you,
Greg

Gregory L. Harper
EPA On-Scene Coordinator
U.S. Environmental Protection Agency, Region 4
Emergency Response and Removal Branch, 11th Floor
61 Forsyth Street. S.W.
Atlanta, Georgia 30303
Office (404) 562-8322
harper.greg@epa.gov

Sent from my iPhone

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:48 PM
To: Pressley, Miriam
Subject: Fw: EOC Spot Report Update #1: Region 4, Pipeline Explosion, Shelby County, Alabama (NRC Report #1162982)

From: Eoc, Epahq
Sent: Wednesday, November 2, 2016 1:09 PM
To: Eoc, Epahq
Subject: EOC Spot Report Update #1: Region 4, Pipeline Explosion, Shelby County, Alabama (NRC Report #1162982)

This report is being sent as a bcc to prevent accidental Reply to All messages.

UNCLASSIFIED//FOR OFFICIAL USE ONLY

EOC Spot Report Update #1: Region 4, Pipeline Explosion, Shelby County, Alabama (NRC Report #1162982)

US Environmental Protection Agency
Report as of November 2, 2016 1:00PM

Overview:

On October 31 at 1455 hours, a Colonial Pipeline contractor struck a below ground transmission gasoline pipeline (Line 1) while finishing a permanent repair necessitated by the previous pipeline rupture that occurred on September 9. The gasoline pipeline exploded and caught fire. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center. One worker was fatally injured and six workers were transported to local hospitals.

The exact amount of the release is unknown; however, Colonial Pipeline has estimated that between 3,300 and 4,000 barrels of gasoline were released. Both main pipelines were originally shut down. The local fire department responded and contained the fire around the ruptured site.

The Alabama Department of Environmental Management (ADEM), Shelby County Emergency Management Agency (EMA), US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, have been notified. EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command (UC).

There have been no visible impacts to the surface waters from the incident.

State, Local, and other Federal Agency Action:

- Local fire personnel monitored the fire as it burned.
- Shelby County EMA initially requested that the Shelby County Sheriff Department restrict the air space around the incident area.
- Occupational Safety and Health Administration (OSHA) personnel mobilized to the Scene to conduct site incident investigations.
- Regional Response Team was convened via conference call.
- Unified Command set up a Southern Link Communication-Sites-on-Wheel (COW) to improve site communications.
- On November 1, 2016, Congressman Gary Palmer toured site activities.
- On November 1, 2016, Unified Command participated in a press conference in Helena, Alabama.

EPA Actions:

- **Notifications:** EPA Region 4 immediately deployed Federal On-Scene Coordinators and technical and cleanup resources and made notifications to other Federal agencies and precautionary downstream notifications.

- **Incident Command System use:**
  - EPA is the lead Federal Official for the Response and has integrated into the Unified Command Structure with Colonial Pipeline. This Unified Command Structure provides a myriad of benefits to the response and helps streamline operations.
  - EPA has personnel embedded within the Incident Command System in roles that include Unified Commander, Planning, Operations, Safety, Environmental Unit, and Public Information Officers in the Joint Information Center.
  - EPA is using the USCG Gulf Strike Team in the Operations Section.
  - EPA is using its START technical contractor within the Environmental and Situation Units.

- Region 4 is working with EPA Headquarters to address any fuel waiver requests from the impacted States.

- Sampling and Monitoring activities conducted under Unified Command include:
  - Air monitoring is being conducted on a 24-hour schedule and has not shown elevated readings above background;
  - Environmental Planning Specialists (EPS) began collocated water and sediment sampling at five locations along the Cahaba River, at three locations along Shades Creek, and at one location at the pond located southeast of the incident area.
  - Sampling Plans are being developed for surface water, sediment, and air sampling.

- Colonial Pipeline contractors have begun preparing a water and sediment sampling plan and a natural resources damage assessment (NRDA).

- Planned Response Activities:
  - Complete installation of booms in Shades Creek, Living River, and Cahaba River.
  - Begin water and sediment sampling. Continue water and sediment sampling every two days at 5 locations along the Cahaba River, three locations along the Shades Creek and one location at the pond southeast of the incident area. Sampling frequency and locations may change based on movement of product.
  - Continue to improve site communications via Communication-Sites-on-Wheels (COWs).
  - Continue efforts to evacuate the pipeline and excavate threaded O-rings (TOR).
  - Complete installation of interceptor trench and underflow dam in the pond southeast of the incident area.
  - Complete preparation of the Product Disposal Plan (PDP).
  - Continue air monitoring and sampling through CTEH.
  - Complete preparation of the Restoration of Services Plan (RSP).
  - Continue preparation for media release.

Media Interest: Extensive national and local.

- EPA Public Information Officer and the On-Scene Coordinator conducted an on-camera interview with various media outlets.

The HQ EOC will continue to monitor and provide updates as needed

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Laura Casillas, Senior Watch Officer
U.S Environmental Protection Agency
Headquarters Emergency Operations Center
1200 Pennsylvania Ave
Washington, DC 20004
202-564-3850 (24-hrs)
202-564-8729 (fax)
eoc.epahq@epa.gov

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:47 PM
To: Pressley, Miriam
Subject: Fw: Colonial Pipeline CR251 Gasoline Spill_SITREP 2
Attachments: EPA SITREP 2_110116.docx

From: Prys, Paul <Paul.Prys@tetratech.com>
Sent: Tuesday, November 1, 2016 4:21 PM
To: Tripp, Christopher; Booth, Jason; Buerki, Karen; jardine.rick@epa.gov; Moore, Tony; Eichinger, Kevin; Pinkney, James; Harper, Greg
Subject: Colonial Pipeline CR251 Gasoline Spill_SITREP 2

Attached is SITREP 2 for your review.

Paul Prys | Senior Environmental Scientist/Project Manager
Direct: 678.775.3106 | Cell: (b) (6) [redacted] | Fax: 678.775.3138
paul.prys@tetratech.com

Tetra Tech | Atlanta Office
1955 Evergreen Blvd. Bldg. 200, Ste. 300, Duluth, GA 30096 www.tetratech.com | NASDAQ:TTEK

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NRC #1162982, Colonial Pipeline CR251 Spill, Pelham, Shelby County, Alabama

Situation Report #2
0700, November 1, 2016

INCIDENT DESCRIPTION

On October 31, 2016 at 1455 hours a Colonial Pipeline contractor struck a 36" below ground transmission gasoline pipeline while unearthing threaded O-rings (TOR) for rendering the line inert to install a permanent repair necessitated by the previous pipeline rupture on September 9, 2016. The gasoline pipeline exploded and caught fire. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center. One worker was fatally injured and six workers were transported to local hospitals.

The exact amount of the release is unknown; however, Colonial Pipeline has estimated that 4,000 barrels of gasoline were released. Both main pipelines were shut down. The Shelby County Fire Department responded and contained the fire around the spill site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. The fire continues to burn at this time. Line 2 (the unimpacted line) was restarted at 2250 hours at a reduced rate.

The incident occurred near a man-made pond located approximately 0.75 miles to the southeast. Discharge from the pond travels another 0.25 miles southeast to the Cahaba River. Also, Shades Creek is located approximately 0.65 miles northwest of the incident and is a tributary of the Cahaba River. Contractors for Colonial Pipeline have established containment boom at 3.5 miles and 7 miles downstream in the Cahaba River and are currently assessing Shades Creek.

The Alabama Department of Environmental Management (ADEM), Shelby County Emergency Management Agency (EMA), US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, have been notified. EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command (UC).

INCIDENT MANAGEMENT

On-Scene Coordinator (OSC) Rick Jardine deployed from Birmingham, Alabama, and was the first federal official on-scene. OSC Karen Buerki deployed from Atlanta, Georgia, to the Incident Command Post and has integrated into the UC. OSC Jason Booth, OSC Greg Harper, and Public Information Officer (PIO) James Pinkey deployed from Atlanta, Georgia, and integrated into the UC. US Coast Guard Gulf Strike Team (USCG GST) and Superfund Technical Assessment and Response Team (START) personnel were deployed to the incident.

Current number of EPA personnel assigned: 4
Current number of USCG GST personnel assigned: 4

Current number of START personnel assigned: 2

REPORTING SCHEDULE

Situation Reports (SITREPS) will be delivered daily at 1500 hours CDT.

CURRENT OPERATIONS

- Local fire personnel monitor the fire as it continues to burn. There are four homes located northwest and southeast of the spill area. Residents from the home located southeast of the spill area evacuated. The residents in two of the three homes located northwest of the spill area evacuated and one remained in place. Local fire personnel will continue to monitor the fire in the event those residents need evacuation.
- CTEH continued performing mobile air monitoring throughout the populated areas along the northern perimeter of the spill area. Air monitoring results indicated no detections above background levels. CTEH developed an area air sampling plan for approval.
- Colonial Pipeline contractor began preparing a water and sediment sampling plan, as well as, performing a natural resources damage assessment (NRDA).
- Shelby County EMA requested the Shelby County Sheriff Department restrict the air space (3,000 feet above and a 3 mile radius) around the incident area until 1000 hours on November 1, 2016. The air space restriction was further extended until 1000 hours on November 2, 2016.
- Local fire personnel monitored the fire during the night through the afternoon as it continued to burn.
- There are five homes with eight residents located near the incident area. Two of the residents were evacuated from the incident area and allowed to return home. Six of the residents remained sheltered in place. Local fire personnel will continue to monitor the fire in the event those residents need evacuation.
- Occupational Safety and Health Administration (OSHA) personnel conducted site incident investigation.
- CTEH continued performing 24-hour mobile air monitoring along Highway 13, River Road, and near the homes located northwest of the incident area. Air monitoring results through 1200 hours on November 1, 2016, indicated no detections above site action levels, except for particulate matter 2.5 micrometers or less ($PM_{2.5}$). Air monitoring results indicated spikes in the $PM_{2.5}$ community (0.138 mg/m^3) and worker (0.351 mg/m^3) action levels near the fire along River Road and near the residences located northwest of the incident area.
- Environmental Planning Specialists (EPS) began collocated water and sediment sampling at five locations along the Cahaba River, three locations along Shades Creek, and at one location at the pond located southeast of the incident area.
- Shelby County Sheriff Department reduced the air space restriction from 3,000 feet above and a 3 mile radius to 1,500 feet and a 1.5 mile radius around the incident area at 1200 hours on November 1, 2016.
- Improved site communications via installation of Southern Link Communication-Sites-on-Wheel (COW).
- Convened Regional Response Team via teleconference at 1030 hours CDT.

- Conducted review of site surface water, sediment, and air sampling plans.
- Conducted aerial surveillance of the incident via drone.
- Congressman Gary Palmer toured site activities.
- Completed set up of staging area in Woodstock, Alabama.
- Participated in a Unified Command press conference in Helena, Alabama, at 1345 hours CDT. There have no visible impacts to the surface waters from the incident.

PLANNED RESPONSE ACTIVITIES

- Continue efforts to evacuate the pipeline and excavate threaded O-rings (TOR).
- Complete installation of booms in Shades Creek, Living River, and Cahaba River.
- Complete installation of interceptor trench and underflow dam in pond southeast of the spill area.
- Complete preparation of the Product Disposal Plan (PDP).
- Complete staging area set up.
- Prepare for VIP visit from Congressman Gary Palmer.
- Continue air monitoring and sampling through CTEH.
- Begin water and sediment sampling.
- Conduct aerial surveillance via drone.
- Continue to improve site communications via Communication-Sites-on-Wheels (COWs).
- Complete preparation of the Restoration of Services Plan (RSP).
- Continue preparation for media release.
- Continue efforts to evacuate the pipeline and excavate threaded O-rings (TOR).
- Continue water and sediment sampling every two days at 5 locations along the Cahaba River, three locations along the Shades Creek and one location at the pond southeast of the incident area. Sampling frequency and locations may change based on movement of product.
- Complete installation of interceptor trench and underflow dam in pond southeast of the incident area.
- Complete preparation of the Product Disposal Plan (PDP).
- Continue air monitoring and sampling through CTEH.
- Continues to provide aerial surveillance via drone.
- Complete preparation of the Restoration of Services Plan (RSP).
- Continue preparation for media release.

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:47 PM
To: Pressley, Miriam
Subject: Fw: NBC 13 Inquiry

From: Pinkney, James
Sent: Tuesday, November 1, 2016 1:28 PM
To: Buerki, Karen; Eichinger, Kevin; Webster, James; Moore, Tony
Subject: Fwd: NBC 13 Inquiry

See below.

Sent from my iPhone

Begin forwarded message:

> **From:** "Allen Jr., Thomas S." <TAllen@hearst.com>
> **Date:** November 1, 2016 at 12:12:27 PM CDT
> **To:** "Pinkney, James" <Pinkney.James@epa.gov>
> **Subject: RE: NBC 13 Inquiry**
>
> *Wanted to see to what extent the EPA was involved in this situation with the pipeline explosion in Alabama?
>
> *What concerns does the EPA have with this situation?
>
> *With this 2nd event with Colonial, does the EPA have concerns on how they are managing their properties?
>
> *Does the EPA plan to push colonial to be more transparent on this event, since they were not on the last one?
>
> Thanks
>
> Tom Allen

From: Pinkney, James [mailto:Pinkney.James@epa.gov]
Sent: Tuesday, November 01, 2016 10:52 AM
To: Allen Jr., Thomas S. <TAllen@hearst.com>
Subject: NBC 13 Inquiry

Mr. Allen,

I received a message that you called. How can I assist you?

James Pinkney

EPA Region 4 Office of External Affairs

61 Forsyth Street SW | Atlanta, GA 30303

phone: 404.562.9183 | mobile: 404.695.5503

email: pinkney.james@epa.gov

Follow Region 4 on Twitter: www.twitter.com/EPASoutheast

and Facebook: www.facebook.com/eparegion4

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:46 PM
To: Pressley, Miriam
Subject: Fw: Corrected EOC Daily Emergency Management Report for November 1, 2016

From: Eoc, Epahq
Sent: Tuesday, November 1, 2016 1:10 PM
Subject: Corrected EOC Daily Emergency Management Report for November 1, 2016

Corrected Reported Activities chart with updated incident numbers.

EOC Daily Emergency Management Report

Date: 11/01/2016
Time: 12:30pm EDT
Report Number: 211-16

Alerts & Warnings

FEMA National Watch Center –Watch / Steady State
National Terrorism Advisory System (NTAS) – Heightened Awareness Bulletin Issued
Continuity of Operations (COOP) COGCON Level 4
EPA HQ EOC is at Level 3

EPA Headquarters Activities

ASPECT (Airborne Spectral Photometric Environmental Collection Technology) systems are fully operational and located Addison, TX 31 Oct – 7 Nov 2016.

PHILIS (Portable High Throughput Integrated Laboratory Identification Systems): The CO PHILIS' PAL analytical lab bus with the LC/MSMS system and the SPA prep trailer from the warehouse in Castle Rock, CO are currently mobilized to the Denver Federal Center (DFC) to work with EPA's NEIC labs at the DFC, and

jointly with Region 7 and other federal, state and local labs and agencies. All other PHILIS assets are in their respective warehouse locations in NJ and CO and are up and operational.

ERT (Environmental Response Team) assets available for deployment include: Trace Atmospheric Gas Analyzers (TAGAs) (Edison and Las Vegas); Mobile Command Posts (Las Vegas and Erlanger); HazMat Truck (Las Vegas and Erlanger); Mobile Analytical Lab (Edison). ERT-RTP TAGA deployed at the Camp Minden Explosives Emergency Response.

Significant National Weather

Rain is forecast for the Pacific Northwest and northern California spreading eastward to the central Rockies. Snow will fall in the higher elevations. Rain and thunderstorms are expected across much of the Plains and the Great Lakes. Rain is also forecast for the central Appalachians, interior sections of New England, and Florida. Much of the central and eastern states can expect temperatures well above normal.

Severe Weather: There is no severe thunderstorm activity forecast in the United States today.

Tornado Weather: There is less than a 2-percent chance of tornado activity in all areas of the United States today.

Critical Fire Weather: None forecast for today across the United States.

Significant River Flooding: Not expected during the next 5 days.

Tropical Weather: None

Report of Incident Notifications

Region 4, Colonial Gasoline Pipeline Rupture and Fire, Pelham, Shelby County, AL (NRC#1162982)

On October 31, 2016 at 1704 hours, Colonial Pipeline reported to the NRC that a third party struck a 36" below ground gasoline pipeline and the gasoline exploded and caught fire. 5 workers transported to a local hospital. One worker fatality.

This pipeline is the same line that ruptured in September. The line is currently on fire and there are numerous large brush fires in the area. The pipeline is shut down and Colonial Pipeline is currently reporting that they have spilled 4000 barrels. R4 OSCs, Superfund Technical Assessment and Response Team (START) Contractors and the U.S. Coast Guard, Gulf Strike Team responded. Another R4 OSC responded morning of 11/1 to assist. The US Department of Interior (DOI) Region 4 Representative, Alabama Department of Environmental Management (ADEM), and Shelby County Emergency Management Agency (EMA) has been notified. ADEM State OSC and Shelby County EMA Director are on scene.

The rupture is adjacent to Shades Creek, in a relatively remote location. Shades Creek is a tributary of the Cahaba River. Contractors for Colonial are establishing containment boom locations and assessing the creek as best as possible. At this time, responders believe that the fuel is burning and not releasing to the ground.

Region 5, Williamson Polishing and Plating, Indianapolis, IN. (NRC#1161488)

Marion County Health Department requested assistance from EPA to secure the Williamson Polishing and Plating facility located in Indianapolis, IN. EPA and Marion County Health Department conducted an initial site walk of this property on 10/16/16. The condition of the building and evidence of trespassing prompted MCHD to secure the building until EPA could be conducted a removal action. On 10/31/16, MCHD did a follow up visit to the site and discovered the building had been vandalized again. MCHD requested assistance from EPA to conduct emergency actions to re-secure the building. EPA is coordinating efforts with MCHD and IDEM. R5 OSC responded to the site and will complete the facility site assessment. ERRS has mobilized to and will complete all site-securing activities later today 11/1.

Region 7, White Cliffs Pipeline release, Sharon Springs, KS. (NRC#1162927)

On October 31, 2016 at 9:17AM White Cliffs Pipeline reported a spill of an unknown amount of crude oil at pump station. R7 OSC was dispatched to the site. The cause is suspected to be equipment malfunction (pump). Kansas Department of Health and Environment reports the oil spill went in two directions from the pump/valve network. One flow went in a northern direction, from the northeast corner of the pump station about 350 feet out into a pasture, the other flow direction went east about 400 feet, toward a ditch next to Highway 27. Both flow directions were contained by either field ruts in the pasture or it was diked in the road ditch. Neither flow pathway impacted the dry creek, nor was a body of water of the US impacted. White Cliffs Pipeline updated the quantity estimate to 1737 barrels of crude oil reaching a dry roadside ditch (over 70,000 gallons).

Responsible party contractors were on-scene recovering material. The flow has been contained and product recovery efforts have started (no amount known at this time). Remediation efforts will be a combination of recovery, land farming and landfill disposal, according to KDHE. Most of surface oil has been removed, and the state will be overseeing soil cleanup (from oil that seeped into the ground) over the next few weeks/months. No off-site, residential, or water impacts due to this release.

Exercises/Predeployments

None at this time.

Regional Daily Ops Status Report

There were 21 epaosc.org websites created and/or updated during this reporting period: 10/31/2016 - 11/01/2016.

Reported activities primarily represent NRC notifications with some State-level and other notifications to Regional Phone Duty Officers.

Reported Activities (10/31/2016 - 11/01/2016)

Region	Oil	Hazmat	Radiation	Other	Total
Region 1	1	0	0	0	**1**
Region 2	1	0	0	2	**3**
Region 3	5	0	0	0	**5**
Region 4	2	0	0	2	**4**
Region 5	4	0	0	1	**5**
Region 6	4	4	0	1	**9**
Region 7	4	0	0	1	**5**
Region 8	1	0	0	0	**1**
Region 9	1	0	0	0	**1**
Region 10	5	0	0	1	**6**
Total	**28**	**4**	**0**	**8**	**40**

Note: There were 2 unclassified events in the Hotline Log.

Nick Nichols, Watch Officer
U.S. Environmental Protection Agency
Headquarters Emergency Operations Center
1200 Pennsylvania Ave
Washington, DC 20004
202-564-3850
mailto:eoc.epahq@epa.gov

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:46 PM
To: Pressley, Miriam
Subject: Fw: EOC Daily Emergency Management Report for November 1, 2016

From: Eoc, Epahq
Sent: Tuesday, November 1, 2016 12:35 PM
To: Eoc, Epahq
Subject: EOC Daily Emergency Management Report for November 1, 2016

This report is being sent as a bcc to prevent accidental Reply-to-All messages

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EOC Daily Emergency Management Report

Date: 11/01/2016
Time: 12:30pm EDT
Report Number: 211-16

Alerts & Warnings

FEMA National Watch Center –Watch / Steady State
National Terrorism Advisory System (NTAS) – Heightened Awareness Bulletin Issued
Continuity of Operations (COOP) COGCON Level 4
EPA HQ EOC is at Level 3

EPA Headquarters Activities

ASPECT (Airborne Spectral Photometric Environmental Collection Technology) systems are fully operational and located Addison, TX 31 Oct – 7 Nov 2016.

PHILIS (Portable High Throughput Integrated Laboratory Identification Systems): The CO PHILIS' PAL analytical lab bus with the LC/MSMS system and the SPA prep trailer from the warehouse in Castle Rock, CO

are currently mobilized to the Denver Federal Center (DFC) to work with EPA's NEIC labs at the DFC, and jointly with Region 7 and other federal, state and local labs and agencies. All other PHILIS assets are in their respective warehouse locations in NJ and CO and are up and operational.

ERT (Environmental Response Team) assets available for deployment include: Trace Atmospheric Gas Analyzers (TAGAs) (Edison and Las Vegas); Mobile Command Posts (Las Vegas and Erlanger); HazMat Truck (Las Vegas and Erlanger); Mobile Analytical Lab (Edison). ERT-RTP TAGA deployed at the Camp Minden Explosives Emergency Response.

Significant National Weather

Rain is forecast for the Pacific Northwest and northern California spreading eastward to the central Rockies. Snow will fall in the higher elevations. Rain and thunderstorms are expected across much of the Plains and the Great Lakes. Rain is also forecast for the central Appalachians, interior sections of New England, and Florida. Much of the central and eastern states can expect temperatures well above normal.

Severe Weather: There is no severe thunderstorm activity forecast in the United States today.

Tornado Weather: There is less than a 2-percent chance of tornado activity in all areas of the United States today.

Critical Fire Weather: None forecast for today across the United States.

Significant River Flooding: Not expected during the next 5 days.

Tropical Weather: None

Report of Incident Notifications

Region 4, Colonial Gasoline Pipeline Rupture and Fire, Pelham, Shelby County, AL (NRC#1162982)

On October 31, 2016 at 1704 hours, Colonial Pipeline reported to the NRC that a third party struck a 36" below ground gasoline pipeline and the gasoline exploded and caught fire. 5 workers transported to a local hospital. One worker fatality.

This pipeline is the same line that ruptured in September. The line is currently on fire and there are numerous large brush fires in the area. The pipeline is shut down and Colonial Pipeline is currently reporting that they have spilled 4000 barrels. R4 OSCs, Superfund Technical Assessment and Response Team (START) Contractors and the U.S. Coast Guard, Gulf Strike Team responded. Another R4 OSC responded morning of 11/1 to assist. The US Department of Interior (DOI) Region 4 Representative, Alabama Department of Environmental Management (ADEM), and Shelby County Emergency Management Agency (EMA) has been notified. ADEM State OSC and Shelby County EMA Director are on scene.

The rupture is adjacent to Shades Creek, in a relatively remote location. Shades Creek is a tributary of the Cahaba River. Contractors for Colonial are establishing containment boom locations and assessing the creek as best as possible. At this time, responders believe that the fuel is burning and not releasing to the ground.

Region 5, Williamson Polishing and Plating, Indianapolis, IN. (NRC#1161488)

Marion County Health Department requested assistance from EPA to secure the Williamson Polishing and Plating facility located in Indianapolis, IN. EPA and Marion County Health Department conducted an initial site walk of this property on 10/16/16. The condition of the building and evidence of trespassing prompted MCHD to secure the building until EPA could be conducted a removal action. On 10/31/16, MCHD did a

follow up visit to the site and discovered the building had been vandalized again. MCHD requested assistance from EPA to conduct emergency actions to re-secure the building. EPA is coordinating efforts with MCHD and IDEM. R5 OSC responded to the site and will complete the facility site assessment. ERRS has mobilized to and will complete all site-securing activities later today 11/1.

Region 7, White Cliffs Pipeline release, Sharon Springs, KS. (NRC#1162927)

On October 31, 2016 at 9:17AM White Cliffs Pipeline reported a spill of an unknown amount of crude oil at pump station. R7 OSC was dispatched to the site. The cause is suspected to be equipment malfunction (pump). Kansas Department of Health and Environment reports the oil spill went in two directions from the pump/valve network. One flow went in a northern direction, from the northeast corner of the pump station about 350 feet out into a pasture, the other flow direction went east about 400 feet, toward a ditch next to Highway 27. Both flow directions were contained by either field ruts in the pasture or it was diked in the road ditch. Neither flow pathway impacted the dry creek, nor was a body of water of the US impacted. White Cliffs Pipeline updated the quantity estimate to 1737 barrels of crude oil reaching a dry roadside ditch (over 70,000 gallons).

Responsible party contractors were on-scene recovering material. The flow has been contained and product recovery efforts have started (no amount known at this time). Remediation efforts will be a combination of recovery, land farming and landfill disposal, according to KDHE. Most of surface oil has been removed, and the state will be overseeing soil cleanup (from oil that seeped into the ground) over the next few weeks/months. No off-site, residential, or water impacts due to this release.

Exercises/Predeployments

None at this time.

Regional Daily Ops Status Report

There were 21 epaosc.org websites created and/or updated during this reporting period: 10/31/2016 - 11/01/2016.

Reported activities primarily represent NRC notifications with some State-level and other notifications to Regional Phone Duty Officers.

Reported Activities (10/31/2016 - 11/01/2016)

Region	Oil	Hazmat	Radiation	Other	Total
Region 1	1	0	0	0	**1**
Region 2	0	0	0	1	**1**
Region 3	0	0	0	0	**0**
Region 4	2	0	0	1	**3**
Region 5	0	0	0	0	**0**
Region 6	0	0	0	1	**1**
Region 7	1	0	0	0	**1**
Region 8	0	0	0	0	**0**
Region 9	0	0	0	0	**0**

Region 10	3	0	0	0	**3**
Total	**7**	**0**	**0**	**3**	**10**

Note: There were 3 unclassified events in the Hotline Log.

Nick Nichols, Watch Officer
U.S. Environmental Protection Agency
Headquarters Emergency Operations Center
1200 Pennsylvania Ave
Washington, DC 20004
202-564-3850
mailto:eoc.epahq@epa.gov

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:39 PM
To: Pressley, Miriam
Subject: Fw: NRC#1162982 DOI Resources in the area of the spill

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From: Eichinger, Kevin
Sent: Tuesday, November 1, 2016 11:26 AM
To: Buerki, Karen
Subject: FW: NRC#1162982 DOI Resources in the area of the spill

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From: Joyce Stanley [mailto:joyce_stanley@ios.doi.gov]
Sent: Tuesday, November 01, 2016 10:31 AM
To: Eichinger, Kevin <Eichinger.Kevin@epa.gov>
Subject: Fwd: NRC#1162982 DOI Resources in the area of the spill

Sent from my iPhone

Begin forwarded message:

> **From:** "Ford, Anthony" <anthony_ford@fws.gov>
> **Date:** November 1, 2016 at 10:05:11 AM EDT
> **To:** "Drennen, Daniel" <daniel_drennen@fws.gov>
> **Cc:** Jeff Powell <jeff_powell@fws.gov>, Greg Masson <greg_masson@fws.gov>, "Stanley, Joyce" <joyce_stanley@ios.doi.gov>, Holly Herod <holly_herod@fws.gov>, Barry Forsythe <Barry_Forsythe@fws.gov>, Harold Peterson <harold.peterson@bia.gov>, John Rawls <john_rawls@fws.gov>, "Haffner, Jay" <Jay.Haffner@dcnr.alabama.gov>
> **Subject: Re: NRC#1162982**
>
> Joyce,
>
> Here is the species list I put together for this site.
>
> Andy
>
> **Bats**
> Gray bat (*Myotis grisescens*) – Endangered
> Indiana bat (*Myotis sodalis*) – Endangered
> Northern long-eared bat (*Myotis septentrionalis*) – Threatened
>
> **Plants**

Mohr's Barbara button (*Marshallia mohrii*) – Threatened
Gentian pinkroot (*Spigelia gentianoides*) – Endangered
Tennessee yellow-eyed grass (*Xyris tennesseensis*) – Endangered
Georgia rockcress (*Arabis georgiana*) – Threatened

All eight of the following aquatic species are known from this stretch of the Cahaba River near the Bibb/Shelby county line and could also occur within Shades Creek. Recent survey data indicates goldline darter, Cahaba shiner, finelined pocketbook, and round rocksnail are known within this stretch of Shades Creek adjacent to the spill (*).

Fish
Goldline darter (*Percina aurolineata*) – Threatened*
Cahaba shiner (*Notropis cahabae*) – Endangered*

Mussels
Southern clubshell (*Pleurobema decisum*) – Endangered
Triangular kidneyshell (*Ptychobranchus greenii*) – Endangered
Finelined pocketbook (*Hamiota altilis*) – Threatened*

Snails
Cylindrical lioplax (*Lioplax cyclostomaformis*) – Endangered
Flat pebblesnail (*Lepyrium showalteri*) – Endangered
Round rocksnail (*Leptoxis ampla*) – Threatened*

Also, designated critical habitat (CH) for eight freshwater mussel species (Federal Register Vol. 69, No. 126, 7/1/2004) exists in the Cahaba River (CH Unit 13). Critical habitat within the Cahaba extends from U.S. Highway 82, Bibb County, Alabama, upstream to the Jefferson County Road 143 in Jefferson County, Alabama, for the following eight species of mussels:

Upland combshell (*Epioblasma metastriata*) - Endangered
Southern acornshell (*Epioblasma othcaloogensis*) – Endangered
Orange-nacre mucket (*Hamiota perovalis*) – Threatened
Alabama moccasinshell (*Medionidus accutissimus*) – Threatened
Southern clubshell (*Pleurobema decisum*) – Endangered
Ovate clubshell (*Pleurobema perovatum*) – Endangered
Finelined pocketbook (*Hamiota altilis*) – Threatened
Triangular kidneyshell (*Ptychobranchus greenii*) – Endangered

Anthony "Andy" Ford
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
Alabama Ecological Services Field Office
1208-B Main Street
Daphne, AL 36526
(251) 441-5838 (O)
(251) 441-6222 (F)
https://www.fws.gov/daphne/

This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

On Mon, Oct 31, 2016 at 6:26 PM, Drennen, Daniel <daniel_drennen@fws.gov> wrote:

To all,

There is in addition to what Jeff pointed out, a possibility for the Cahaba Shiner.

Daniel

Daniel J. Drennen
USFWS
Mississippi Field Office
6578 Dogwood View Parkway
Jackson, Mississippi 39213
601-321-1127
(b) (6) [redacted] Cell

NOTE: This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

On Mon, Oct 31, 2016 at 6:07 PM, Jeff Powell <jeff_powell@fws.gov> wrote:

Joyce,

I'll need to check the location in the AM but Shades Creek is another sensitive trig to the Cahaba River. The mouth of Shades Creek is almost across the Cahaba from the mouth of the trib from the previous spill. Shades Creek contains the federally listed round rocksnail and goldline darter. We need to keep close out on this one once the scene is secure.

Here's a video from AL.com this afternoon.
http://www.al.com/news/birmingham/index.ssf/2016/10/reported_gas_line_explosion_se.html

I suspect we'll be talking tomorrow.
Jeff

Jeffrey Powell
Deputy Field Supervisor
Alabama Field Office
Sent from my iPhone

On Oct 31, 2016, at 5:53 PM, Greg Masson <greg_masson@fws.gov> wrote:

Andy and Jeff
I was out in sick leave today but you both have my phone UF you need anything it's in 24/7
Greg

Sent from my iPhone

On Oct 31, 2016, at 6:28 PM, Stanley, Joyce <joyce_stanley@ios.doi.gov> wrote:

Here we go again!

Joyce A. Stanley, MPA
Regional Environmental Protection Specialist
US Department of the Interior
Office of Environmental Policy and Compliance
(404) 331-4524 - Office
(404) 331-1736 - Fax
(b) (6) [redacted] ***- Mobile***
joyce_stanley@ios.doi.gov
http://www.doi.gov/oepc/atlanta.html

---------- Forwarded message ----------
From: <HQS-PF-fldr-NRC@uscg.mil>
Date: Mon, Oct 31, 2016 at 5:04 PM
Subject: NRC#1162982
To: joyce_stanley@ios.doi.gov

NATIONAL RESPONSE CENTER 1-800-424-8802
GOVERNMENT USE ONLYGOVERNMENT USE ONLY***
Information released to a third party shall comply with any applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 1162982

INCIDENT DESCRIPTION

*Report taken by: CIV BRANDON WEATHERLY at 16:56 on 31-OCT-16
Incident Type: PIPELINE
Incident Cause: UNKNOWN
Affected Area:
Incident was discovered on 31-OCT-16 at 14:55 local incident time.
Affected Medium: UNKNOWN /UNKNOWN

REPORTING PARTY
Name: CONRAD SANDERS
Organization: COLONIAL PIPELINE COMPANY
Address: 1185 SANCTUARY PARKWAY
ALPHARETTA, GA 30004

Email Address: csanders@colpipe.com

PRIMARY Phone: (678)7622263
Type of Organization: PRIVATE ENTERPRISE

SUSPECTED RESPONSIBLE PARTY

Name: CONRAD SANDERS
Organization: COLONIAL PIPELINE COMPANY
Address: 1185 SANCTUARY PARKWAY
ALPHARETTA, GA 30004
PRIMARY Phone: (678)7622263
Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

MP: 573.7 County: SHELBY
PIPELINE LINE 1
RIVER RD.
City: HELENA State: AL
RP DID NOT HAVE EXACT LOCATION INFO AT THE TIME OF THE REPORT.

RELEASED MATERIAL(S)

CHRIS Code: GAS Official Material Name: GASOLINE: AUTOMOTIVE (UNLEADED)
Also Known As:
Qty Released: 4000 BARREL(S) Qty in Water: 0 UNKNOWN AMOUNT

DESCRIPTION OF INCIDENT

THE RP IS REPORTING A DISCHARGE OF GASOLINE DUE TO A LINE STRIKE ON
A 36" TRANSMISSION PIPELINE (STEEL). RP STATED IT IS BELIEVED THAT
A THIRD-PARTY MAY HAVE STRUCK THE LINE RESULTING IN THE DISCHARGE.
RP STATED THE ENVIRONMENTAL IMPACTS ARE CURRENTLY UNKNOWN.

**RP STATED THERE WAS A FIRE AND AN EXPLOSION AS WELL.
**UNKNOWN IF THERE WERE ANY INJURIES OR EVACUATIONS.
**DAMAGE AMOUNT IS ALSO UNKNOWN.

INCIDENT DETAILS

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

IMPACT

Fire Involved: YES Fire Extinguished: UNKNOWN

INJURIES: UNKNOWN Hospitalized: Empl/Crew: P
assenger:
FATALITIES:
NO Empl/Crew: Passenger: Occupant:
EVACUATIONS:UNKNOWN Who
Evacuated: Radius/Area:

Damages: UNKNOWN

Closure Type	Description of Closure	Hours Closed	Direction of Closure
Air:			N
Road:		Major Artery:N	N
Waterway:			N
Track:			

Environmental Impact: UNKNOWN
Media Interest: UNKNOWN Community Impact due to
Material:

REMEDIAL ACTIONS

CONTRACTORS ARE ENROUTE WITH AN ETA OF 15
MINS TO 2 HOURS.
**LOCAL FD ARE ON SCENE.
Release Secured: YES
Release Rate:
Estimated Release Duration:

WEATHER

Weather: SUNNY, °F

ADDITIONAL AGENCIES NOTIFIED

Federal:
State/Local:
State/Local On Scene: FD
State Agency Number:

NOTIFICATIONS BY NRC

ALABAMA DEPT OF ENV MGMT (MAIN OFFICE)
31-OCT-16 17:03 (334)3944382
ALABAMA DEPT OF ENV MGMT (BIRMINGHAM FIELD OFFICE)
31-OCT-16 17:03 (334)3944382
AL U.S. ATTORNEY'S OFFICE (COMMAND CENTER)
31-OCT-16 17:03 (205)2442188
CENTERS FOR DISEASE CONTROL (GRASP)
31-OCT-16 17:03 (770)4887100
DHS PROTECTIVE SECURITY ADVISOR (PSA DESK)
31-OCT-16 17:03 (703)2355724
DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)
31-OCT-16 17:03 (202)3661863
U.S. EPA IV (MAIN OFFICE)
(404)6504955
U.S. EPA IV (DUTY OSC)
31-OCT-16 17:03 (404)6504955
USCG NATIONAL COMMAND CENTER (MAIN OFFICE)
31-OCT-16 17:03 (202)3722100
GULF STRIKE TEAM (MAIN OFFICE)
31-OCT-16 17:03 (251)4416601
JFO-LA (COMMAND CENTER)
31-OCT-16 17:03 (225)3366513
NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)
31-OCT-16 17:03 (202)2829201
NOAA RPTS FOR AL (MAIN OFFICE)
31-OCT-16 17:03 (206)5264911
NATIONAL RESPONSE CENTER HQ (MAIN OFFICE)
31-OCT-16 17:03
NATIONAL RESPONSE CENTER HQ (AUTOMATIC REPORTS)
31-OCT-16 17:03 (202)2671136
NRC COMMAND DUTY OFFICER (MAIN OFFICE)
(202)2672100
NTSB PIPELINE (MAIN OFFICE)
31-OCT-16 17:03 (202)3146293
HOMELAND SEC COORDINATION CENTER (MAIN OFFICE)

31-OCT-16 17:03 (202)2828300
PIPELINE & HAZMAT SAFETY ADMIN (OFFICE OF PIPELINE SAFETY (AUTO))
31-OCT-16 17:03 (202)3660568
DOI FOR REGION 4 (MAIN OFFICE)
31-OCT-16 17:03 (404)3314524
REPORTING PARTY (RP SUBMITTER)
31-OCT-16 17:03
ALABAMA EMA (MAIN OFFICE)
31-OCT-16 17:03 (205)2802312
TSA OFFICE OF SECURITY OPERATIONS (SURFACE COMPLIANCE BRANCH SE REGION)
31-OCT-16 17:03 (904)9804075
USCG DISTRICT 8 (MAIN OFFICE)
31-OCT-16 17:03 (504)5896225
USCG DISTRICT 8 (PLANNING)
31-OCT-16 17:03 (504)6712080

ADDITIONAL INFORMATION

*** END INCIDENT REPORT #1162982 ***
Report any problems by calling 1-800-424-8802
PLEASE VISIT OUR WEB SITE AT
http://www.nrc.uscg.mil

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:38 PM
To: Pressley, Miriam
Subject: Fw: EOC Spot Report Update #1: Region 4, Pipeline Explosion, Shelby County, Alabama (NRC Report #1162982)

From: Eoc, Epahq
Sent: Tuesday, November 1, 2016 10:51 AM
To: Eoc, Epahq
Subject: EOC Spot Report Update #1: Region 4, Pipeline Explosion, Shelby County, Alabama (NRC Report #1162982)

This report is being sent as a bcc to prevent accidental Reply to All messages.

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EOC Spot Report Update #1: Region 4, Pipeline Explosion, Shelby County, Alabama (NRC Report #1162982)

US Environmental Protection Agency
Report as of November 1, 2016 11:00AM

Overview:
Region 4 Emergency Response Program is responding to a pipeline explosion in Shelby County, Alabama. On October 31, 2016 at 1455 hours a Colonial Pipeline contractor struck a 36" below ground transmission gasoline pipeline (Line 1) while finishing a permanent repair necessitated by the previous pipeline rupture that occurred on September 9, 2016. At that time the gasoline pipeline exploded and caught fire.

At 1656 hours, Colonial Pipeline reported the incident to the National Response Center. One worker was fatally injured and six workers were transported to local hospitals. The exact amount of the release is unknown; however, Colonial Pipeline has estimated that 4,000 barrels of gasoline were released. The fire continues to burn at this time.

The incident occurred near a man-made pond located approximately 0.75 miles to the southeast. Discharge from the pond travels another 0.25 miles southeast to the Cahaba River. Also, Shades Creek is located approximately 0.65 miles northwest of the incident and is a tributary of the Cahaba River.

State, Local, and other Federal Agency Action:

- On October 31, 2016 EPA Region 4 deployed two Federal On-Scene Coordinators (OSC) to the incident. The FOSCs has deployed with contract support for technical assessment work as well as environmental cleanup work (START and ERRS contractors).
- The Alabama Department of Environmental Management (ADEM), Shelby County Emergency Management Agency (EMA), US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4 have been notified.
- **EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command. The initial command post will be located at Colonial Pelham Facility, County Rd 52 E Pelham St, Pelham, AL 35124.**
- EPA Situation Reports for the incident will be issued daily by 1700 hours EST.

Pipeline Actions:

- Both pipelines were initially shut down. The local Fire Department responded and contained the fire around the spill site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. The fire continues to burn at this time.
- Line 2 (the non-impacted line) was restarted at 2250 hours at a reduced rate.
- Contractors for Colonial Pipeline have established containment boom at 3.5 miles and 7 miles downstream in the Cahaba River and are currently assessing Shades Creek.

Media Interest: Extensive national and local.
http://www.foxnews.com/us/2016/11/01/deadly-pipeline-blast-in-alabama-triggers-2nd-shutdown-in-2-months.html

State of emergency declared in Alabama after deadly ...

www.foxnews.com

Alabama Gov. Robert Bentley declared a state of emergency Tuesday after a gas pipeline explosion killed a worker, injured five others, and sent thick black ...

http://www.reuters.com/article/us-pipeline-blast-alabama-idUSKBN12V2FC
http://www.al.com/news/birmingham/index.ssf/2016/10/reported_gas_line_explosion_se.html
http://www.tucsonnewsnow.com/story/33524945/7-injured-en-route-to-hospital-from-reported-pipeline-explosion-in-al
http://www.wbrc.com/story/33524945/5-injured-en-route-to-hospital-from-reported-gas-line-explosion-in-al

http://abc3340.com/news/local/explosion-reported-in-helena

Information on the EPA response can be found at www.epaosc.org/CR251PipelineFire.

The HQ EOC will continue to monitor and provide updates as needed

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Laura Casillas, Senior Watch Officer
U.S Environmental Protection Agency
Headquarters Emergency Operations Center
1200 Pennsylvania Ave
Washington, DC 20004
202-564-3850 (24-hrs)
202-564-8729 (fax)
eoc.epahq@epa.gov

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:22 PM
To: Pressley, Miriam
Subject: Fw: RRT 4 Activation Call 11:30am today
Attachments: CR251_SITREP_1_11012016_0700.pdf

From: Andrew, Gary
Sent: Tuesday, November 1, 2016 10:50 AM
To: thomas.m.mccrossen@uscg.mil; miguel.l.bella@uscg.mil; adam.davis@noaa.gov; Airrion Moore; Artie Buff; kizer.billie@dol.gov; brad.Benggio@noaa.gov; Blair, Carl; christina.edwards@nnsa.srs.gov; D_L_Anderson@nps.gov; Elisa Roper; Eric K. Conklin; forest.a.willis@uscg.mil; frank.csulak@noaa.gov; Gwen Keenan; Jack Fowler; Webster, James; Joaquin Cardenas; John M. Pelchat; Joyce_Stanley@ios.doi.gov; justin.smith@usdoj.gov; cohunka@state.gov; lindy_nelson@ios.doi.gov; Michael Crump; mike.davenport@navy.mil; Nathan Bland; Rachel C. Smith Ph. D; Robert K. Rader; rrmajiros@tva.gov; Stanley Copeland; harrison.teresa@dol.gov; Terry Alverson; Terry Brown; wsternke@fs.fed.us; Wayne M. Kee; Andrew, Gary; forest.a.willis@uscg.mil; Webster, James; Moore, Tony; Davis, James P LTJG; arose@tnema.org; statoncd@dhec.sc.gov; Cody Fisher; Earl Alexander; Ed Jenkins; Ernie Shirley; GSpringer@adem.state.al.us; John.S.Johnson@dep.state.fl.us; JR Campbell; leepd@dhec.sc.gov; Paul Wotherspoon; Randy Jenkins; robert.francis@ky.gov; Stephen Clark; steve.lewis@ncdenr.gov; Yatasha Moore; Bill Gordon; cwhite@pci-nsn.gov; Darin Steen; David Dees; jamilong@nc-cherokee.com; Jason Dobronz; Keith Bluecloud; kevind@miccosukeetribe.com; Lee Boone; Brandon A LT Guldseth; CAPT. Joe Uzmann; Timothy.J.Wendt@uscg.mil; Austin Gould; Gregory Case; Ric Rodriguez; Richard.Timme@uscg.mil; Samuel Walker; Sean Murtagh; Kevin P. Lynn; malcolm.r.mclellan@uscg.mil; Amy Beach; jeffrey.f.dixon@uscg.mil; Kimberly Chesteen, LCDR; Mary.d.hoffman@uscg.mil; Weaver, James (USCG); Marquesio Robinson, LT; Rhenee K. Allen; Mary M. Dwyer; McQuiddy, David; michael.k.sams@uscg.mil; Mason, Steve; todd.m.peterson@uscg.mil
Cc: Buerki, Karen; Eichinger, Kevin
Subject: RRT 4 Activation Call 11:30am today

Good Morning All:

The attached Situation Report for the Colonial Gasoline Pipeline Fire is the purpose for our call this morning. This call was requested by the EPA Chair James Webster and will provide your organization with current information and allow FOSC Karen Buerki to obtain the support she needs from the RRT.

This call will be at 11:30 am eastern DST. Today.

Call-in #: (b) (5) [redacted]
Conference #: (b) (5) [redacted]

Gary A. Andrew, CHMM
Federal On-Scene Coordinator
EPA RRT Coordinator
678-733-1621

NRC #1162982, CR251 - Colonial Gasoline Pipeline Fire, Pelham, Shelby County, Alabama

Situation Report #1
0700, November 1, 2016

INCIDENT DESCRIPTION

On October 31, 2016 at 1455 hours a Colonial Pipeline contractor struck a 36" below ground transmission gasoline pipeline while unearthing threaded O-rings (TOR) for rendering the line inert. This operations was necessary to install a permanent repair required by the previous pipeline rupture on September 9, 2016. The gasoline pipeline exploded and caught fire. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center. One worker was fatally injured and six workers were transported to local hospitals.

The exact amount of the release is unknown; however, Colonial Pipeline has estimated that 4,000 barrels of gasoline were released. Both main pipelines were shut down. The Shelby County Fire Department responded and contained the fire around the spill site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. The fire continues to burn at this time. Line 2 (the unimpacted line) was restarted at 2250 hours at a reduced rate.

The incident occurred near a man-made pond located approximately 0.75 miles to the southeast. Discharge from the pond travels another 0.25 miles southeast to the Cahaba River. Also, Shades Creek is located approximately 0.65 miles northwest of the incident and is a tributary of the Cahaba River. Contractors for Colonial Pipeline have established containment boom at 3.5 miles and 7 miles downstream in the Cahaba River and are currently assessing Shades Creek.

The Alabama Department of Environmental Management (ADEM), Shelby County Emergency Management Agency (EMA), US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, have been notified. EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command.

INCIDENT MANAGEMENT

On-Scene Coordinator (OSC) Rick Jardine deployed from Birmingham, Alabama, and was the first federal official on-scene. OSC Karen Buerki deployed from Atlanta, Georgia, to the Incident Command Post and has integrated into the Unified Command. US Coast Guard Gulf Strike Team (USCG GST) and Superfund Technical Assessment and Response Team (START) personnel were deployed to the incident.

Current number of EPA personnel assigned: 2
Current number of USCG GST personnel assigned: 4
Current number of START personnel assigned: 2

REPORTING SCHEDULE

Situation Reports (SITREPS) will be delivered daily at 1600 hours EST.

CURRENT OPERATIONS

- Local fire personnel monitor the fire as it continues to burn. There are four homes located northwest and southeast of the spill area. Residents from the home located southeast of the spill area evacuated. The residents in two of the three homes located northwest of the spill area evacuated and one remained in place. Local fire personnel will continue to monitor the fire in the event those residents need evacuation.
- CTEH continued performing mobile air monitoring throughout the populated areas along the northern perimeter of the spill area. Air monitoring results indicated no detections above background levels. CTEH developed an area air sampling plan for approval.
- Colonial Pipeline contractor began preparing a water and sediment sampling plan, as well as, performing a natural resources damage assessment (NRDA).
- Shelby County EMA requested the Shelby County Sheriff Department restrict the air space (3,000 feet above and a 3 mile radius) around the incident area until 1000 hours on November 1, 2016. The air space restriction was further extended until 1000 hours on November 2, 2016.

PLANNED RESPONSE ACTIVITIES

- Continue efforts to evacuate the pipeline and excavate threaded O-rings (TOR).
- Complete installation of booms in Shades Creek, Living River, and Cahaba River.
- Complete installation of interceptor trench and underflow dam in pond southeast of the spill area.
- Complete preparation of the Product Disposal Plan (PDP).
- Complete staging area set up.
- Prepare for VIP visit from Congressman Gary Palmer.
- Continue air monitoring and sampling through CTEH.
- Begin water and sediment sampling.
- Conduct aerial surveillance via drone.
- Continue to improve site communications via Communication-Sites-on-Wheels (COWs).
- Complete preparation of the Restoration of Services Plan (RSP).
- Continue preparation for media release.

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:21 PM
To: Pressley, Miriam
Subject: Fw: CANAPS Message V4CW - E17404

From: Harmon, Dave <Harmon.Dave@epamail.epa.gov> on behalf of CINWD OilSpill <CINWD_OilSpill@epa.gov>
Sent: Tuesday, November 1, 2016 10:15 AM
To: Buerki, Karen
Cc: Webster, James; Bates, Lloyd; Masterson, Chris; R4DutyOSC; Walker, Darryl
Subject: Fw: CANAPS Message V4CW - E17404

Your new ceiling.

FPN Ceiling: $150,000.00
Direct Amt: $127,747.00
Indirect Amt: $22,253.00

```
P 011356Z NOV 16
FM COMCOGARD NPFC WASHINGTON DC//CANAPS//
TO RHMCSUU/HQ EPA WASHINGTON DC//EOC/CINWD OILSPILL/REGION FOUR//
INFO CCGDEIGHT NEW ORLEANS LA//DR/DRM//
CCGDFIVE PORTSMOUTH VA//DR/DRM//
CCGDSEVEN MIAMI FL//DR/DRM//
COGARD GST MOBILE AL
COGARD SILC NORFOLK VA//PCB-1//
COMDT COGARD WASHINGTON DC//CG-533//
BT
UNCLAS //N16465//
SUBJ: FPN CEILING AMENDMENT FOR COLONIAL PIPELINE - E17404.

1. AUTHORIZED CEILING IS CHANGED FROM $50,000.00 TO $150,000.00.
2. CEILING CHANGE DATE:  01 NOV 2016.
3. INCIDENT LOCATION:  COLONIAL GASOLINE PIPELINE RUP
TURE AND FIRE , AL.
4. EPA FOSC POINT OF CONTACT:
A.  NAME: KAREN BUERKI.
B.  PHONE: (404)562-8747.
C.  FAX: N/A.
D.  EMAIL: BUERKI.KAREN@EPA.GOV.
```

5. NPFC POINT OF CONTACT :
A. NAME: MCCROSSEN, THOMAS M..
B. PHONE: (202)795-6093.
C. CELL PHONE: (202)360-6061.
D. FAX: N/A.
E. EMAIL: THOMAS.M.MCCROSSEN@USCG.MIL.
6. FOR CG UNITS SUPPORTING THE EPA FOSC:
A. CAS ACCOUNTING STRING: 2/V/SZ/172/95/0/E17404/74100/XXXX.
WHERE XXXX IS OBJECT CLASS.
B. DOCUMENT CONTROL NUMBER: DD/17/46/7/V/XZ/YYY.
WHERE DD IS THE DOCUMENT TYPE AND YYY IS THE UNIT SEQUENCE NUMBER.
7. FOLLOW NPFC TOPS FOR FUND MANAGEMENT, CEILING MANAGEMENT, AND RESOURCE DOCUMENTATION.
8. POLREPS
A. ON ALL POLREPS FOR THIS CASE, FOSC MUST SEND A COPY TO NPFC, POC NOTED ABOVE AND TO ARL-PF-NPFCEPAPOLREPS@USCG.MIL.
B. INCLUDE AUTHORIZED CEILING AND DAILY COST DATA ON POLREPS.
9. FORWARD PRFAS, THEIR CERTIFIED INVOICES, AND SUPPORTING COST DOCUMENTATION TO NPFC POC NOTED ABOVE.
10. THIS MESSAGE WAS AUTOMATICALLY GENERATED BY THE CANAPS SYSTEM.
11. CIMS_EMAIL FPN: E17404 TYPE: CEILING AMENDMENT
12. CANAPS ID 011356Z NOV 16
BT
NNNN

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:21 PM
To: Pressley, Miriam
Subject: Fw: T&Es in the Cahaba

From: Eichinger, Kevin
Sent: Tuesday, November 1, 2016 9:45 AM
To: Buerki, Karen
Subject: T&Es in the Cahaba

Kevin,
A list of aquatic T&E's in the Cahaba River could include: cylindrical lioplax, flat pebblesnail, round rocksnail, fine-lined pocketbook, southern clubshell, triangular kidneyshell, goldline darter, and Cahaba shiner.

Joyce A. Stanley, MPA
Regional Environmental Protection Specialist
US Department of the Interior
Office of Environmental Policy and Compliance
(404) 331-4524 - Office
(404) 331-1736 - Fax
(b) (6) [redacted] ***- Mobile***
joyce_stanley@ios.doi.gov
http://www.doi.gov/oepc/atlanta.html

On Fri, Sep 9, 2016 at 3:26 PM, Stanley, Joyce <joyce_stanley@ios.doi.gov> wrote:

Hello Kevin,
The coordinates are adjacent to Peel Creek, a tributary of the Cahaba River (less than a mile away). Do we have information on the volume of the spill and if the spill is continuing? We would be very concerned if it escapes into the Peel Creek and into the Cahaba River. We have multiple aquatic T&E's in the Cahaba River. Please let me know when you find out more information.

Thanks,

Joyce A. Stanley, MPA
Regional Environmental Protection Specialist
US Department of the Interior
Office of Environmental Policy and Compliance
(404) 331-4524 - Office

(404) 331-1736 - Fax
(b) (6) [redacted] *- Mobile*
joyce_stanley@ios.doi.gov
http://www.doi.gov/oepc/atlanta.html

On Fri, Sep 9, 2016 at 2:40 PM, Eichinger, Kevin <Eichinger.Kevin@epa.gov> wrote:

Per our phone conversation. The GPS coordinates are 33.24222, -86.91833.

Thanks,
Kevin

-----Original Message-----
From: HQS-PF-fldr-NRC@uscg.mil [mailto:HQS-PF-fldr-NRC@uscg.mil]
Sent: Friday, September 09, 2016 2:08 PM
To: R4DutyOSC <R4DutyOSC@epa.gov>
Subject: NRC#1158584

NATIONAL RESPONSE CENTER 1-800-424-8802
GOVERNMENT USE ONLYGOVERNMENT USE ONLY***
Information released to a third party shall comply with any
applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 1158584

INCIDENT DESCRIPTION

*Report taken by: YN2 RUDY GANTHER at 13:59 on 09-SEP-16
Incident Type: FIXED
Incident Cause: UNKNOWN
Affected Area: POND
Incident was discovered on 09-SEP-16 at 11:31 local incident time.
Affected Medium: WATER POND

REPORTING PARTY
Name: BROCK MOBLEY
Organization: COLONIAL PIPELINE COMPANY
Address: 1185 SANCTUARY PARKWAY
ALPHARETTA, GA 30004
Email Address: bmobley@colpipe.com

PRIMARY Phone: (678)7622263
Type of Organization: PRIVATE ENTERPRISE

SUSPECTED RESPONSIBLE PARTY
Name: BROCK MOBLEY
Organization: COLONIAL PIPELINE COMPANY
Address: 1185 SANCTUARY PARKWAY
ALPHARETTA, GA 30004
PRIMARY Phone: (678)7622263

INCIDENT LOCATION

SEE LAT/LONG County: SHELBY
COUNTY 91
City: PELHAM State: AL
Latitude: 33° 14' 32" N
Longitude: 086° 55' 06" W

RELEASED MATERIAL(S)

CHRIS Code: GAS Official Material Name: GASOLINE: AUTOMOTIVE (UNLEADED)
Also Known As:
Qty Released: 0 UNKNOWN AMOUNT Qty in Water: 0 UNKNOWN AMOUNT

DESCRIPTION OF INCIDENT

CALLER IS REPORTING THAT GASOLINE FROM AN UNKNOWN SOURCE WAS FOUND AT A LOCATION NEAR WELL SITES. THE GASOLINE CRATED A SHEEN ON A POND IN THAT AREA. THE INCIDENT IS BEING INVESTIGATED.

SENSITIVE INFORMATION

ON SCENE POINT OF CONTACT- JOHN WYATT, 404-713-9270

INCIDENT DETAILS

Package: N/A
Building ID:
Type of Fixed Object: OTHER
Power Generating Facility: NO
Generating Capacity:
Type of Fuel:
NPDES:
NPDES Compliance: UNKNOWN
---WATER INFORMATION---
Body of Water: POND
Tributary of:
Nearest River Mile Marker:
Water Supply Contaminated: UNKNOWN

IMPACT

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

Closure Type	Description of Closure	Hours Closed	Direction of Closure
Air:			N

N Major
Road: Artery:N
N
Waterway:
N
Track:

Environmental Impact: NO
Media Interest: UNKNOWN Community Impact due to Material:

REMEDIAL ACTIONS

INVESTIGATION UNDERWAY.
Release Secured: UNKNOWN
Release Rate:
Estimated Release Duration:

WEATHER

Weather: CLEAR, °F

ADDITIONAL AGENCIES NOTIFIED

Federal:
State/Local:
State/Local On Scene:
State Agency Number:

NOTIFICATIONS BY NRC

ALABAMA DEPT OF ENV MGMT (MAIN OFFICE)
09-SEP-16 14:07 (334)3944382
ALABAMA DEPT OF ENV MGMT (BIRMINGHAM FIELD OFFICE)
09-SEP-16 14:07 (334)3944382
AL U.S. ATTORNEY'S OFFICE (COMMAND CENTER)
09-SEP-16 14:07 (205)2442188
CENTERS FOR DISEASE CONTROL (GRASP)
09-SEP-16 14:07 (770)4887100
DHS NOC (NOC)
09-SEP-16 14:07 (202)2828114
DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)
09-SEP-16 14:07 (202)3661863
U.S. EPA IV (MAIN OFFICE)
(404)6504955
U.S. EPA IV (DUTY OSC)
09-SEP-16 14:07 (404)6504955
JFO-LA (COMMAND CENTER)
09-SEP-16 14:07 (225)3366513
NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)
09-SEP-16 14:07 (202)2829201
NOAA RPTS FOR AL (MAIN OFFICE)
09-SEP-16 14:07 (206)5264911
NATIONAL RESPONSE CENTER HQ (AUTOMATIC REPORTS)
09-SEP-16 14:07 (202)2671136

NTSB PIPELINE (MAIN OFFICE)
09-SEP-16 14:07 (202)3146293
DOI FOR REGION 4 (MAIN OFFICE)
09-SEP-16 14:07 (404)3314524
REPORTING PARTY (RP SUBMITTER)
09-SEP-16 14:07
ALABAMA EMA (MAIN OFFICE)
09-SEP-16 14:07 (205)2802312
TSA OFFICE OF SECURITY OPERATIONS (SURFACE COMPLIANCE BRANCH SE REGION)
09-SEP-16 14:07 (904)9804075
USCG DISTRICT 8 (MAIN OFFICE)
09-SEP-16 14:07 (504)5896225
USCG DISTRICT 8 (PLANNING)
09-SEP-16 14:07 (504)6712080

ADDITIONAL INFORMATION

*** END INCIDENT REPORT #1158584 ***
Report any problems by calling 1-800-424-8802
PLEASE VISIT OUR WEB SITE AT http://www.nrc.uscg.mil

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:20 PM
To: Pressley, Miriam
Subject: Fw: ERNS REPORT FOR 0800 10/31/2016 TO 0800 11/01/2016
Attachments: CR251_SITREP_1_11012016_0700.pdf

From: Eichinger, Kevin
Sent: Tuesday, November 1, 2016 8:14 AM
Cc: Eichinger, Kevin
Subject: ERNS REPORT FOR 0800 10/31/2016 TO 0800 11/01/2016

ERNS REPORT FOR 0800 10/31/2016 TO 0800 11/01/2016

NRC #1162982, CR251 - Colonial Gasoline Pipeline Fire, Pelham, Shelby County, Alabama

On October 31, 2016 at 1455 hours a Colonial Pipeline contractor struck a 36" below ground transmission gasoline pipeline (Line 1) while finishing a permanent repair necessitated by the previous pipeline rupture that occurred on September 9, 2016. The gasoline pipeline exploded and caught fire. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center. One worker was fatally injured and six workers were transported to local hospitals. The exact amount of the release is unknown; however, Colonial Pipeline has estimated that 4,000 barrels of gasoline were released. Both pipelines were shut down. The local Fire Department responded and contained the fire around the spill site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. The fire continues to burn at this time. Line 2 (the unimpacted line) was restarted at 2250 hours at a reduced rate. The incident occurred near a man-made pond located approximately 0.75 miles to the southeast. Discharge from the pond travels another 0.25 miles southeast to the Cahaba River. Also, Shades Creek is located approximately 0.65 miles northwest of the incident and is a tributary of the Cahaba River. Contractors for Colonial Pipeline have established containment boom at 3.5 miles and 7 miles downstream in the Cahaba River and are currently assessing Shades Creek. The Alabama Department of Environmental Management (ADEM), Shelby County Emergency Management Agency (EMA), US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4 have been notified. EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command. Situation Report (SITREP) #1 is attached. SITREPs for the incident will be issued daily by 1700 hours EST. **Contact OSC Karen Buerki or see www.epaosc.org/CR251PipelineFire for additional information.**

State	Oil	Haz	Rad	Other
AL	2	0	0	1
FL	5	0	0	1
GA	1	0	0	0
KY	1	1	0	1
MS	0	0	0	0
NC	0	0	0	0
SC	0	0	0	0
TN	0	0	0	0

Total	9	1	0	3	= 13

Response Personnel Status

Duty Officer:	OSC Kevin Eichinger	
R1:	OSC Karen Buerki	Out
R2:	OSC Jason Booth	Out
R3:	OSC Greg Harper	In
Jackson, TN:	OSC Steve Spurlin	Available
Louisville, KY:	OSC Art Smith	Available
Mobile, AL:	OSC Leo Francendese	Unavailable
Raleigh, NC:	OSC Ken Rhame	Available
Tallahassee, FL:	OSC Chris Russell	Available

National Response Center: 1-800-424-8802
Phone Duty E-Mail: R4DUTYOSC@EPA.GOV
Phone Duty MOBILE #: 404-242-3393

NRC #1162982, CR251 - Colonial Gasoline Pipeline Fire, Pelham, Shelby County, Alabama

Situation Report #1
0700, November 1, 2016

INCIDENT DESCRIPTION

On October 31, 2016 at 1455 hours a Colonial Pipeline contractor struck a 36" below ground transmission gasoline pipeline while unearthing threaded O-rings (TOR) for rendering the line inert. This operations was necessary to install a permanent repair required by the previous pipeline rupture on September 9, 2016. The gasoline pipeline exploded and caught fire. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center. One worker was fatally injured and six workers were transported to local hospitals.

The exact amount of the release is unknown; however, Colonial Pipeline has estimated that 4,000 barrels of gasoline were released. Both main pipelines were shut down. The Shelby County Fire Department responded and contained the fire around the spill site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. The fire continues to burn at this time. Line 2 (the unimpacted line) was restarted at 2250 hours at a reduced rate.

The incident occurred near a man-made pond located approximately 0.75 miles to the southeast. Discharge from the pond travels another 0.25 miles southeast to the Cahaba River. Also, Shades Creek is located approximately 0.65 miles northwest of the incident and is a tributary of the Cahaba River. Contractors for Colonial Pipeline have established containment boom at 3.5 miles and 7 miles downstream in the Cahaba River and are currently assessing Shades Creek.

The Alabama Department of Environmental Management (ADEM), Shelby County Emergency Management Agency (EMA), US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, have been notified. EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command.

INCIDENT MANAGEMENT

On-Scene Coordinator (OSC) Rick Jardine deployed from Birmingham, Alabama, and was the first federal official on-scene. OSC Karen Buerki deployed from Atlanta, Georgia, to the Incident Command Post and has integrated into the Unified Command. US Coast Guard Gulf Strike Team (USCG GST) and Superfund Technical Assessment and Response Team (START) personnel were deployed to the incident.

Current number of EPA personnel assigned: 2
Current number of USCG GST personnel assigned: 4
Current number of START personnel assigned: 2

REPORTING SCHEDULE

Situation Reports (SITREPS) will be delivered daily at 1600 hours EST.

CURRENT OPERATIONS

- Local fire personnel monitor the fire as it continues to burn. There are four homes located northwest and southeast of the spill area. Residents from the home located southeast of the spill area evacuated. The residents in two of the three homes located northwest of the spill area evacuated and one remained in place. Local fire personnel will continue to monitor the fire in the event those residents need evacuation.
- CTEH continued performing mobile air monitoring throughout the populated areas along the northern perimeter of the spill area. Air monitoring results indicated no detections above background levels. CTEH developed an area air sampling plan for approval.
- Colonial Pipeline contractor began preparing a water and sediment sampling plan, as well as, performing a natural resources damage assessment (NRDA).
- Shelby County EMA requested the Shelby County Sheriff Department restrict the air space (3,000 feet above and a 3 mile radius) around the incident area until 1000 hours on November 1, 2016. The air space restriction was further extended until 1000 hours on November 2, 2016.

PLANNED RESPONSE ACTIVITIES

- Continue efforts to evacuate the pipeline and excavate threaded O-rings (TOR).
- Complete installation of booms in Shades Creek, Living River, and Cahaba River.
- Complete installation of interceptor trench and underflow dam in pond southeast of the spill area.
- Complete preparation of the Product Disposal Plan (PDP).
- Complete staging area set up.
- Prepare for VIP visit from Congressman Gary Palmer.
- Continue air monitoring and sampling through CTEH.
- Begin water and sediment sampling.
- Conduct aerial surveillance via drone.
- Continue to improve site communications via Communication-Sites-on-Wheels (COWs).
- Complete preparation of the Restoration of Services Plan (RSP).
- Continue preparation for media release.

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:18 PM
To: Pressley, Miriam
Subject: Fw: CANAPS Message

From: Harmon, Dave <Harmon.Dave@epamail.epa.gov> on behalf of CINWD OilSpill <CINWD_OilSpill@epa.gov>
Sent: Tuesday, November 1, 2016 7:51 AM
To: Buerki, Karen
Cc: Webster, James; Bates, Lloyd; Masterson, Chris; R4DutyOSC; Walker, Darryl
Subject: Fw: CANAPS Message

The subject FPN site, E17404- CR251-COLONIAL GASOLINE PIPELINE FIRE, accounting line has been set up as the following:

BFY	2017
Appr:	HR
Orgn:	04RAXHR
PRC:	303D91
Site:	V4CW

FPN Ceiling:	$50,000.00
Direct Amt:	$42,582.00
Indirect Amt:	$7,418.00

Thank you,

Dave Harmon
U.S. Environmental Protection Agency
Cincinnati Finance Center
work: 513-487-2735
harmon.dave@epa.gov

P 312348Z OCT 16
FM COMCOGARD NPFC WASHINGTON DC//CANAPS//
TO RHMCSUU/HQ EPA WASHINGTON DC//EOC/CINWD OILSPILL/REGION FOUR//
INFO COGARD NATIONAL RESPONSE CENTER WASHINGTON DC
CCGDEIGHT NEW ORLEANS LA//DR/DRM//
CCGDFIVE PORTSMOUTH VA//DR/DRM//
CCGDSEVEN MIAMI FL//DR/DRM//

COGARD GST MOBILE AL
COGARD SILC NORFOLK VA//PCB-1//
COMDT COGARD WASHINGTON DC//CG-533//
RHMCSUU/HQ EPA WASHINGTON DC//EOC/CINWD OILSPILL/REGION FOUR//
BT
UNCLAS //N16465//
SUBJ: FPN NOTIFICATION COLONIAL PIPELINE - E17404.

1. FPN ISSUED FOR THIS RESPONSE IS E17404.
2. AUTHORIZED CEILING: $50,000.00.
3. PROJECT DATES:
A. INCIDENT DATE: 31 OCT 2016.
B. FOSC ACTION COMMENCE DATE: 31 OCT 2016.
C. DATE PROJECT CREATED: 31 OCT 2016.
4. INCIDENT LOCATION: COLONIAL GASOLINE PIPELINE RUP
TURE AND FIRE , AL.
5. BODY OF WATER: SHADES CREEK AND CAHABA RIVER.
6. SUSPECTED SOURCE: FACILITY.
7. ESTIMATED QUANTITY OF OIL DISCHARGED: 4000Barrels.
8. FOSC DETERMINATION OF SUBSTANTIAL THREAT: Y.
9. DESCRIPTION OF SUBSTANTIAL THREAT: 4000 BARRELS OF GASOLINE SPILLED TO
SHADES CREEK,
A TRIBUARY OF THE CAHABA RIVER..
10. EST POTENTIAL QUANTITY THAT COULD BE DISCHARGED: 4000Barrels.
11. PROJECT LONG NAME: .
12. INCIDENT DESCRIPTION: .
13. NPFC POINT OF CONTACT:
A. NAME: MR. MIGUEL BELLA.
B. PHONE: (703)872-6069.
C. CELL PHONE: (202)360-6061.
D. FAX: N/A.
14. EPA FOSC POINT OF CONTACT:
A. NAME: KAREN BUERKI.
B. PHONE: (404)562-8747.
C. FAX: N/A.
D. EMAIL: N/A.
15. FOR CG UNITS SUPPORTING THE EPA FOSC:
A. CAS ACCOUNTING STRING: 2/V/SZ/172/95/0/E17404/74100/XXXX,
WHERE XXXX IS OBJECT CLASS.
B. DOCUMENT CONTROL NUMBER: DD/17/46/7/V/XZ/YYY.
WHERE DD IS THE DOCUMENT TYPE AND YYY IS THE UNIT SEQUENCE NUMBER.
16. FOLLOW NPFC TOPS FOR FUND MANAGEMENT, CEILING MANAGEMENT, AND
RESOURCE DOCUMENTATION.
17. POLREPS
A. ON ALL POLREPS FOR THIS CASE, FOSC MUST SEND COPY TO NPFC POC
NOTED ABOVE AND ARL-PF-NPFCEPAPOLREPS@USCG.MIL.
B. INCLUDE AUTHORIZED CEILING AND DAILY COST DATA IN POLREPS.
18. FORWARD PRFAS, THEIR CERTIFIED INVOICES, AND SUPPORTING COST
DOCUMENTATION TO THE NPFC POC NOTED ABOVE.
19. THIS MESSAGE WAS AUTOMATICALLY GENERATED BY THE CANAPS SYSTEM.
20. CIMS_EMAIL FPN: E17404 TYPE: CEILING AUTHORIZATION
21. CANAPS ID 312348Z OCT 16

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:17 PM
To: Pressley, Miriam
Subject: Fw: Region IV www.epaosc.org/CR251PipelineFire website

---

From: CR251PipelineFire@epaosc.org <CR251PipelineFire@epaosc.org>
Sent: Tuesday, November 1, 2016 7:47 AM
To: Buerki, Karen
Subject: Region IV www.epaosc.org/CR251PipelineFire website

A EPA OSC website has been created!

Region IV
NRC# 1162982
CR251 - Colonial Gasoline Pipeline Fire
Pelham, AL

To visit this site click on the link below.
http://www.epaosc.org/CR251PipelineFire

For EPA OSC website support contact:
ERTSupport@epa.gov
(800) 999-6990

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:17 PM
To: Pressley, Miriam
Subject: Fw: Colonial Pipeline Gasoline Spill - SITREP #1
Attachments: EPA SITREP 1_110116.docx

From: Prys, Paul <Paul.Prys@tetratech.com>
Sent: Tuesday, November 1, 2016 7:37 AM
To: Eichinger, Kevin; Buerki, Karen; Moore, Tony
Subject: Colonial Pipeline Gasoline Spill - SITREP #1

Here is SITREP #1 for review.

Paul Prys | Senior Environmental Scientist/Project Manager
Direct: 678.775.3106 | Cell: (b) (6) [redacted] | Fax: 678.775.3138
paul.prys@tetratech.com

Tetra Tech | Atlanta Office
1955 Evergreen Blvd. Bldg. 200, Ste. 300, Duluth, GA 30096 www.tetratech.com | NASDAQ:TTEK

PLEASE NOTE: This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

NRC #1162982, Colonial Pipeline CR251 Spill, Pelham, Shelby County, Alabama

Situation Report #1

0700, November 1, 2016

INCIDENT DESCRIPTION

On October 31, 2016 at 1455 hours a Colonial Pipeline contractor struck a 36" below ground transmission gasoline pipeline while unearthing threaded O-rings (TOR) for rendering the line inert to install a permanent repair necessitated by the previous pipeline rupture on September 9, 2016. The gasoline pipeline exploded and caught fire. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center. One worker was fatally injured and six workers were transported to local hospitals.

The exact amount of the release is unknown; however, Colonial Pipeline has estimated that 4,000 barrels of gasoline were released. Both main pipelines were shut down. The Shelby County Fire Department responded and contained the fire around the spill site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. The fire continues to burn at this time. Line 2 (the unimpacted line) was restarted at 2250 hours at a reduced rate.

The incident occurred near a man-made pond located approximately 0.75 miles to the southeast. Discharge from the pond travels another 0.25 miles southeast to the Cahaba River. Also, Shades Creek is located approximately 0.65 miles northwest of the incident and is a tributary of the Cahaba River. Contractors for Colonial Pipeline have established containment boom at 3.5 miles and 7 miles downstream in the Cahaba River and are currently assessing Shades Creek.

The Alabama Department of Environmental Management (ADEM), Shelby County Emergency Management Agency (EMA), US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, have been notified. EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command.

INCIDENT MANAGEMENT

On-Scene Coordinator (OSC) Rick Jardine deployed from Birmingham, Alabama, and was the first federal official on-scene. OSC Karen Buerki deployed from Atlanta, Georgia, to the Incident Command Post and has integrated into the Unified Command. US Coast Guard Gulf Strike Team (USCG GST) and Superfund Technical Assessment and Response Team (START) personnel were deployed to the incident.

Current number of EPA personnel assigned: 2
Current number of USCG GST personnel assigned: 4
Current number of START personnel assigned: 2

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CURRENT OPERATIONS

- Local fire personnel monitor the fire as it continues to burn. There are four homes located northwest and southeast of the spill area. Residents from the home located southeast of the spill area evacuated. The residents in two of the three homes located northwest of the spill area evacuated and one remained in place. Local fire personnel will continue to monitor the fire in the event those residents need evacuation.
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- Colonial Pipeline contractor began preparing a water and sediment sampling plan, as well as, performing a natural resources damage assessment (NRDA).
- Shelby County EMA requested the Shelby County Sheriff Department restrict the air space (3,000 feet above and a 3 mile radius) around the incident area until 1000 hours on November 1, 2016. The air space restriction was further extended until 1000 hours on November 2, 2016.

PLANNED RESPONSE ACTIVITIES

- Continue efforts to evacuate the pipeline and excavate threaded O-rings (TOR).
- Complete installation of booms in Shades Creek, Living River, and Cahaba River.
- Complete installation of interceptor trench and underflow dam in pond southeast of the spill area.
- Complete preparation of the Product Disposal Plan (PDP).
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- Continue air monitoring and sampling through CTEH.
- Begin water and sediment sampling.
- Conduct aerial surveillance via drone.
- Continue to improve site communications via Communication-Sites-on-Wheels (COWs).
- Complete preparation of the Restoration of Services Plan (RSP).
- Continue preparation for media release.

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:16 PM
To: Pressley, Miriam
Subject: Fw: Health and Safety Docs for the CR251 Incident
Attachments: ERDSS_Benzene_1112016.pdf; ERDSS_Gasoline_1112016.pdf; CR251_R4_ER_HASP_11012016.docx; Petroleum_Spill_Health_and_Safety_BPG_08132015_Draft_Final.pdf

---

From: Eichinger, Kevin
Sent: Tuesday, November 1, 2016 7:22 AM
To: Jardine, Rick; Buerki, Karen; Prys, Paul; Booth, Jason; Bret.E.Tindol@uscg.mil
Cc: bryan.vasser@tetratech.com
Subject: Health and Safety Docs for the CR251 Incident

See the attached safety info docs and a draft HASP.

Kevin

Kevin Eichinger, CHMM - On-Scene Coordinator
U.S. Environmental Protection Agency, Region 4 | 61 Forsyth St SW | Atlanta, Georgia | 30303
Emergency Response, Removal and Prevention Branch (ERRB)
office: **404.562.8268** | cell: **678.897.3759** | epaosc.org

Chemical Companion

Known Chemical Search 2016-11-01 07:19:15

Benzene

CAS Number:	71-43-2
UNNA Number:	1114
ERG Warning:	Flammable Liquids (Non-Polar / Water-Immiscible / Noxious)
UNNA Number:	1114
IDLH:	500 ppm

Properties | Exposures | PPE | Respirators | Reactivity | Isolation | ERG | Medical | NFPA Guide

Properties

Chemical Name:	Benzene
CAS Number:	71-43-2
UNNA Number:	1114
ERG Number:	130
Chemical Formula:	C_6H_6
Molecular Weight:	78.1
Freezing Point (° C):	N/A
Melting Point (° C):	6
Boiling Point (° C):	80
Vapor Pressure (mm Hg):	75

Vapor Density:	2.77
Specific Gravity:	0.88
Water Solubility:	0.0007
Evaporation Rate:	5.1
Lower Explosive Limit (LEL):	1.4%
Upper Explosive Limit (UEL):	8%
Flash Point (°C):	-11
Ignition Temperature (°C):	591.7
Minimum Explosive Concentration (MEC) (g/m³):	130
Odor Threshold (ppm):	4.68
Ionization Point (eV):	9.24
Decomposition Point (°C):	N/A
Heat of Vaporization (cal/g):	94.1
Psat (mm Hg at 25°C):	102.9
Csat (mg/m³ at 25°C):	N/A
Synonyms:	Benzol | Phenyl hydride
Persistence in Environment:	N/A
Chemical Mixture Reactivity:	Explosion hazard
Class:	Flammable liquid
Stability:	Stable
Class Incompatibilities	Strong oxidizers, Oxidizing acids, Bases, Metal salts, Halogens

:
Reactive Groups: Hydrocarbons, Aromatics

Exposures

Note: Always default to the Exposure Standard identified by agency policies.

IDLH: 500 ppm
TLV-TWA: 0.5 ppm

NIOSH Guidelines (ppm)

TLV-TWA	TLV-STEL	TLV-Ceiling
0.5	2.5	

OSHA Guidelines (ppm)

PEL-TWA	PEL-STEL	PEL-Ceiling
1	5	

ACGIH Guidelines (ppm)

REL-TWA	REL-STEL
1	1

Military Exposure Guidelines (ppm)

Time	Minimal	Significant	Severe
10 Min			
1 Hour	50	150	1000
8 Hour	0.5		
24 Hour			
14 Day			0.05
1 Year			

Emergency Reponse Guidelines (ppm)

TEEL 0	TEEL 1	TEEL 2	TEEL 3	ERPG 1	ERPG 2	ERPG 3
0.939	46.959	156.53	939.181	50	100	1000

Acute Exposure Guidelines (ppm)

Time	AEG 1	AEG 2	AEG 3
5 Min			
10 Min	130	2000	>50% LEL

30 Min	73	1100	5600
60 Min	52	800	4000
4 Hour	18	400	2000
8 Hour	9	200	990

Personal Protective Equipment

Suits

Product Name / Manufacturer	Breakthrough Time (mins)	Degradation
Barricade® / Dupont	>480	
Betex / MSA	<5	146
Blue Max® / MSA		
Butyl / Other		
Butyl/Neoprene / Other		
Challenge 5100 / Chemfab	>200	0
Chemrel® / Chemron	17	<1
Chemrel® / Chemron		
Chemrel® Max / Chemron		
Chemrel® Max / Chemron	>480	0
Cloropel / ILC Dover	26	
CPE / Other		
CPE / Stasafe		
EVAC / Other		
NEOP / Other		
Nitrile / Other		
Nitrile+PVC / Other		
Nonwoven fabric / Other		
PE / Other		
Polyurethane / Other		
PTFE Teflon® / Other		
PVAL / Other		
PVC / Other		
Tychem Responder CSM / Dupont	> 480	
Tychem ThermoPro / Dupont	>480	
Tychem® 7500 / Dupont	>480	
Tychem® BR / Dupont	>480	

Tychem® CPF2 / Dupont	36	
Tychem® CPF3 / Dupont	>480	
Tychem® CPF4 / Dupont	>480	
Tychem® F / Dupont	>480	
Tychem® LV / Dupont	>480	
Tychem® Reflector® / Dupont	>480	
Tychem® Responder® CSM / Dupont	>480	
Tychem® Saranex® 23-P / Dupont		
Tychem® SL / Dupont	imm.	
Tychem® ThermoPro / Dupont	>480	
Tychem® TK / Dupont	>480	
Vautex / MSA	98	0.8
VC-100 / Lifeguard	>240	
Viton® / Other		
Viton®/Neoprene / Other		

Boots

Product Name / Manufacturer	Breakthrough Time (mins)	Degradation
Neoprene / Other		

Gloves

Product Name / Manufacturer	Breakthrough Time (mins)	Degradation
22R / Best		degradation
25-545 / Edmont	>360	
25-950 / Edmont	49	
29-840 / Anselledmont	11	
29-870 / Anselledmont	17	
32 / Best	9	degradation
34-100 / Anselledmont	<1	
35-125 / Anselledmont	<1	
36-124 / Anselledmont		degradation
37-155 / Anselledmont	19	
37-165 / Anselledmont	46	
37-175 / Anselledmont	19	
46-320 / Anselledmont	2	
4H / Safety4	>240	
65NFW / Best		degradation

6780 / Best	15	degradation
725R / Best	13	
878 / Best	34	
890 / Best	>480	
Argus 123 / Playtex	3	
B-161 / North	20	
B-174 / North	31	
Black Hevy / Marigold	3	degradation
Blue / Marigold	25	degradation
Butyl Plus / Comasec	35	
C/Pol-25 / Guardian	33	
Challenger / Ansell	9	
Cobra / MAPA	>480	
Comaprene / Comasec	16	
Comatril / Comasec	14	
Dipco / Comasec	23	
F-091 / North	30	
FEP Teflon® / Other		
Flexigum / Comasec	33	
Green / Marigold	12	degradation
Hustler / Best	13	
IIR (Rubber) / North	31	
LA-142G / North		degradation
Lamprecht / Ansell	52	
Multimax / Comasec	16	
Multiplus / Comasec	36	
Multitop / Comasec	22	3420
Nat Rub + NEOP / Other		
Natural Rubber / Other		
Neop/Butyl / Other		
Neoprene / Best	15	
Neox / Anselledmont		degradation
Nitrile / Lab Safety Supply	27	
Nitrile/PVC / Other		
Nitrosolve / Marigold	28	degradation
Omni 276 / Ansell	3	

Orange Sup / Marigold	3	degradation
PE / Other		
PE/EVAL/PE / Other		
Pioneer A-14 / MAPA	27	
Pioneer N-440 / MAPA	21	
Pioneer V-20 / MAPA	2	
Professional / MAPA	16	
PVA / Ansell	>360	
PVA / Anselledmont	20	
PVAL / Other		
Silver Shield® / North		
Silver Shield® / North	>8 hr	
Snorke / Anselledmont		degradation
Solvatril / Comasec	>480	
Suregrip / Marigold	2	degradation
Ultraflex / Best	9	
Viton® / MAPA	16	
Viton® / North	6 hr	
Vitric / Erista	>60	

Respirators

Manufacturer	Product
MSA	GMA
MSA	GMA-C

Chemical Reactivity

Adverse Reactions May Occur With:	Acids, Inorganic Acids, Oxidizing Acids, Organic Alkalis (bases) Halogens Oxidizers Metal salts
Mixtures and Reactivities:	Explosion hazard

Isolation

Isolation / Protective Distance

Time	Isolation Distance	Protective Distance
Day - Small	160 Feet	
Day - Large	980 Feet	
Night - Small	160 Feet	
Night - Large	980 Feet	

Emergency Response Guide (2012) Guide 130

FLAMMABLE LIQUIDS (Non-Polar / Water-Immiscible / Noxious)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

* HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
* Vapors may form explosive mixtures with air.
* Vapors may travel to source of ignition and flash back.
* Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
* Vapor explosion hazard indoors, outdoors or in sewers.
* Those substances designated with a (P) may polymerize explosively when heated or involved in a fire.
* Runoff to sewer may create fire or explosion hazard.
* Containers may explode when heated.
* Many liquids are lighter than water.

HEALTH

* May cause toxic effects if inhaled or absorbed through skin.
* Inhalation or contact with material may irritate or burn skin and eyes.
* Fire will produce irritating, corrosive and/or toxic gases.
* Vapors may cause dizziness or suffocation.
* Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

* CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
* As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
* Keep unauthorized personnel away.
* Stay upwind.
* Keep out of low areas.
* Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

* Wear positive pressure self-contained breathing apparatus (SCBA).
* Structural firefighters" protective clothing will only provide limited protection.

EVACUATION

Large Spill

* Consider initial downwind evacuation for at least 300 meters (1000 feet).

Fire

* If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

EMERGENCY RESPONSE

FIRE

CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient.

Small Fire

* Dry chemical, CO2, water spray or regular foam.

Large Fire

* Water spray, fog or regular foam.
* Do not use straight streams.
* Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads

* Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
* Cool containers with flooding quantities of water until well after fire is out.
* Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
* ALWAYS stay away from tanks engulfed in fire.
* For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

* ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
* All equipment used when handling the product must be grounded.
* Do not touch or walk through spilled material.
* Stop leak if you can do it without risk.
* Prevent entry into waterways, sewers, basements or confined areas.
* A vapor suppressing foam may be used to reduce vapors.
* Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
* Use clean non-sparking tools to collect absorbed material.

Large Spill

* Dike far ahead of liquid spill for later disposal.
* Water spray may reduce vapor; but may not prevent ignition in closed spaces.

FIRST AID

* Move victim to fresh air.
* Call 911 or emergency medical service.
* Give artificial respiration if victim is not breathing.
* Administer oxygen if breathing is difficult.
* Remove and isolate contaminated clothing and shoes.
* In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
* Wash skin with soap and water.
* In case of burns, immediately cool affected skin for as long as possible with cold water.* Do not remove clothing if adhering to skin.
* Keep victim warm and quiet.
* Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
* Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Medical

Symptoms:

1. Bloody/dark red mucous membranes
2. Bradycardia (slow heart rate)
3. Burning (mucous membranes/eyes/mouth)
4. Chest pain
5. Chest tightness
6. Coma
7. Difficulty breathing
8. Dizziness
9. Excitation
10. Headache
11. Hypertension
12. Hypotension
13. Lung hemorrhage
14. Pulmonary edema
15. Red, inflamed eyes
16. Red, inflamed skin
17. Red, inflamed skin/mucous
18. Seizures
19. Shortness of breath
20. Sleepiness may lead to coma
21. Tachycardia (rapid heart rate)

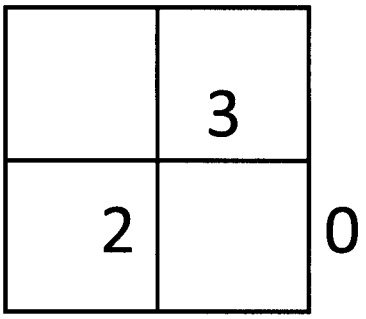
22. Visual disturbances
23. Weakness

EMS Paradigms:
1. A - None
2. A - Remove poison from patient and patient from poison. Ensure adequate skin and eye decontamination if direct contact. Ensure adequate ventilation with 100% O2 for symptomatic patients
3. B - Continually reassess ABCs and treat accordingly. Consider giving and IV beta-blocker for significant ventricular irritability that is due to sensitizing the myocardium by hydrocarbons or halogenated hydrocarbons
4. C - NA
5. D - NA

Basic Life Support Protocols:
1. Remove victim from contaminated area
2. Decontaminate
3. Flush exposed eyes for at least 15 minutes.
4. O2 10-12 lpm with Non-rebreather
5. 1-2 glasses of water following ingestion
6. Activated Charcoal if ingested. Adults 30-100g in 1 cup water, Peds 12.5-25g

Advanced Life Support Protocols:
1. IV KVO (initially)
2. If ingestion, give cathartic (magnesium sulfate) Adult - 10-15g in a glass of water
3. If ingestion, give cathartic (magnesium sulfate) Peds 5-10g in a glass of water
4. Diazepam Seizures: Adults- 5-10mg slow IV (5mg/min) may repeat in 10-15 min up to 30 mg
5. Diazepam for Seizures: Peds- (infants> 30 days to < 5years 0.2-0.5mg slowly every 2-5 min. Max dose 10mg
6. Do not mix Diazepam with other drugs or solutions
7. If seizures continue, give Phenobarbital sodium Adult- 200-300mg IV not to exceed 60mg/min
8. If seizures continue, give Phenobarbital sodium Peds- 15-20mg/kg IV over 10-15 min
9. Observe for pulmonary edema
10. Observe for airway obstruction
11. Bronchospasms give bronchodilator (albuterol)
12. Morgan lens for eye irrigation

NFPA Guide



3 Liquids and solids that can be ignited under almost all ambient conditions.

2 Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

0 Normally stable, even under fire exposure conditions, and are not reactive with water.

Chemical Companion

Known Chemical Search 2016-11-01 07:05:51

Gasoline

CAS Number:	8006-61-9
UNNA Number:	1203
ERG Warning:	Flammable Liquids (Non-Polar / Water-Immiscible)
UNNA Number:	1203
IDLH:	Not Established

Properties | Exposures | PPE | Respirators | Reactivity | Isolation | ERG | Medical | NFPA Guide

Properties

Chemical Name:	Gasoline
CAS Number:	8006-61-9
UNNA Number:	1203
ERG Number:	128
Chemical Formula:	UVCB
Molecular Weight:	N/A
Freezing Point (° C):	N/A
Melting Point (° C):	-90.5 - -95.4
Boiling Point (° C):	32-210
Vapor Pressure (mm Hg):	304-684 mm Hg @ 37.8°C
Vapor Density:	3-4

Specific Gravity:	0.70-0.80
Water Solubility:	Insoluble
Evaporation Rate:	N/A
Lower Explosive Limit (LEL):	1.4%
Upper Explosive Limit (UEL):	7.4%
Flash Point (°C):	-43; -38 (closed cup) /56-60 Octane, 73 Octane, 92 Octane, 100 Octane/ -46 (closed cup) /100-130 (Aviation Grade)/ -46 (closed cup) /115-145 (Aviation Grade)/
Ignition Temperature (°C):	456
Minimum Explosive Concentration (MEC) (g/m³):	N/A
Odor Threshold (ppm):	N/A
Ionization Point (eV):	N/A
Decomposition Point (°C):	N/A
Heat of Vaporization (cal/g):	N/A
Psat (mm Hg at 25°C):	N/A
Csat (mg/m³ at 25°C):	N/A
Synonyms:	Casing head gasoline | Cracked gasoline | Lead-free gasoline | Natural gasoline | Polymer gasoline | Pyrolysis gasoline | Straight-run gasoline | White gasoline
Persistence in Environment:	N/A
Chemical Mixture Reactivity:	Freely soluble in absolute alcohol, ether, chloroform, benzene; Can react vigorously with oxidizing materials
Class:	N/A

Stability: N/A
Class N/A
Incompatibilities:
Reactive Groups: N/A

Exposures

Note: Always default to the Exposure Standard identified by agency policies.

IDLH: Not Established
TLV-TWA: 300 ppm

NIOSH Guidelines (ppm)

TLV-TWA	TLV-STEL	TLV-Ceiling
300	500	

OSHA Guidelines (ppm)

PEL-TWA	PEL-STEL	PEL-Ceiling
300	500	

ACGIH Guidelines (ppm)

REL-TWA	REL-STEL

Military Exposure Guidelines (ppm)

Time	Minimal	Significant	Severe
10 Min			
1 Hour			
8 Hour			
24 Hour			
14 Day			
1 Year			

Emergency Reponse Guidelines (ppm)

TEEL 0	TEEL 1	TEEL 2	TEEL 3	ERPG 1	ERPG 2	ERPG 3
	500	500	1500			

Acute Exposure Guidelines (ppm)

Time	AEG 1	AEG 2	AEG 3

5 Min
10 Min
30 Min
60 Min
4 Hour
8 Hour

Personal Protective Equipment

Suits

Product Name / Manufacturer	Breakthrough Time (mins)	Degradation
Tychem Responder CSM / Dupont	> 480	
Tychem ThermoPro / Dupont	>480	

Boots

Product Name / Manufacturer	Breakthrough Time (mins)	Degradation

Gloves

Product Name / Manufacturer	Breakthrough Time (mins)	Degradation

Respirators

Manufacturer	Product

Chemical Reactivity

Adverse Reactions May Occur With: Mixtures and Reactivities:	Freely soluble in absolute alcohol, ether, chloroform, benzene; Can react vigorously with oxidizing materials

Isolation

Isolation / Protective Distance

Time	Isolation Distance	Protective Distance
Day - Small		
Day - Large		

Night - Small
Night - Large

Emergency Response Guide (2012) Guide 128

FLAMMABLE LIQUIDS (Non-Polar / Water-Immiscible)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

* HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
* Vapors may form explosive mixtures with air.
* Vapors may travel to source of ignition and flash back.
* Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
* Vapor explosion hazard indoors, outdoors or in sewers.
* Those substances designated with a (P) may polymerize explosively when heated or involved in a fire.
* Runoff to sewer may create fire or explosion hazard.
* Containers may explode when heated.
* Many liquids are lighter than water.
* Substance may be transported hot.
* For UN3166, if Lithium ion batteries are involved, also consult GUIDE 147.
* If molten aluminum is involved, refer to GUIDE 169.

HEALTH

* Inhalation or contact with material may irritate or burn skin and eyes.
* Fire may produce irritating, corrosive and/or toxic gases.
* Vapors may cause dizziness or suffocation.
* Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

* CALL Emergency Response Telephone Number on Shipping Paper first. If

Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
* As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
* Keep unauthorized personnel away.
* Stay upwind.
* Keep out of low areas.
* Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

* Wear positive pressure self-contained breathing apparatus (SCBA).
* Structural firefighters" protective clothing will only provide limited protection.

EVACUATION

Large Spill

* Consider initial downwind evacuation for at least 300 meters (1000 feet).

Fire

* If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

EMERGENCY RESPONSE

FIRE

* CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient.
* CAUTION: For mixtures containing alcohol or polar solvent, alcohol-resistant foam may be more effective.

Small Fire

* Dry chemical, CO2, water spray or regular foam.

Large Fire

* Water spray, fog or regular foam.
* Do not use straight streams.
* Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads

* Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
* Cool containers with flooding quantities of water until well after fire is out.
* Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
* ALWAYS stay away from tanks engulfed in fire.
* For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

* ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
* All equipment used when handling the product must be grounded.
* Do not touch or walk through spilled material.
* Stop leak if you can do it without risk.
* Prevent entry into waterways, sewers, basements or confined areas.
* A vapor suppressing foam may be used to reduce vapors.
* Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
* Use clean non-sparking tools to collect absorbed material.

Large Spill

* Dike far ahead of liquid spill for later disposal.
* Water spray may reduce vapor; but may not prevent ignition in closed spaces.

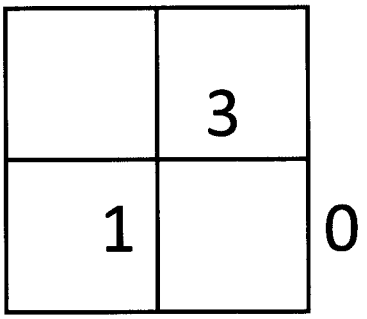
FIRST AID

* Move victim to fresh air.
* Call 911 or emergency medical service.

* Give artificial respiration if victim is not breathing.
* Administer oxygen if breathing is difficult.
* Remove and isolate contaminated clothing and shoes.
* In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
* Wash skin with soap and water.
* In case of burns, immediately cool affected skin for as long as possible with cold water.* Do not remove clothing if adhering to skin.
* Keep victim warm and quiet.
* Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Medical

NFPA Guide



3	Liquids and solids that can be ignited under almost all ambient conditions.
1	Exposure could cause irritation but only minor residual injury even if no treatment is given.
0	Normally stable, even under fire exposure conditions, and are not reactive with water.

1. Incident Name:	2. Operational Period: (Date/Time)		**SITE SAFETY AND CONTROL PLAN ICS 208 - EPA**
CR251 – Colonial Gasoline Pipeline Fire	From:	To:	

3a. Incident Location: 3b. Incident Area Size:

ORGANIZATION

4. Incident Command:	5. Safety:	6. Ops Chief:
7. Branch Director:	8. Div/Grp Supervisor:	9. Other:
10. Strike Team #1: 10a.Team Leader #1:	11. Strike Team #2: 11a.Team Leader #2:	12. Strike Team #3: 12a.Team Leader #3:

	7b. Names	Task #		8b. Names	Task #		9b. Names	Task #
1			1			1		
2			2			2		
3			3			3		
4			4			4		
5			5			5		

13. SITE MAP Attached: Yes: ☐ No: ☐ Includes: ☐ Command Post ☐ Work Zones ☐ Evacuation Route(s) ☐ Assembly Point(s) ☐ Topography ☐ Accessibility by Air, Ground and/or Water ☐ First Aid Stations ☐ Spill Kits ☐ Other: _____

EMERGENCY PROCEDURES

14a. Notified	☐ Hospital: ☐ Air Ambulance ☐ Law Enforcement ☐ Ambulance: ☐ Fire ☐ Other: _____
14b. On-Site	Medical Monitoring: Yes ☐ No ☐ Medical Treatment and Transport: Yes ☐ No ☐
14c. Evacuation Plan	Assembly Area(s) Identified: ☐ Safe Distance: _____ Assembly Point(s): ☐ _____ ALARM System(s): Horn ☐ # Blasts Bells ☐ # Rings Radio Code ☐ Other (specify): _____
14d. In Case of Emergency, Notification Procedures	☐ Phone ☐ Radio ☐ Other: _____ Safety Officer #: Medical #: Command #: Site Security / Entry #: Tactical #: Other (specify):
14e. Directions to Nearest Hospital	Attached: Yes: ☐ No: ☐ If No, then Describe:
14 f. Additional Procedures	

15. DECONTAMINATION PROCEDURES BELOW: ATTACHED:

Instrument/Equipment Drop Off ☐ Outer Boot/Glove Wash/Rinse ☐ Boot Cover/Outer Glove Removal ☐ Suit Wash/Rinse ☐	Bottle Exchange ☐ Outer Suit Removal ☐ Inner Suit Removal ☐ Suit/Gloves/Boot Disposal ☐	Inner Glove Removal ☐ SCBA/Mask Removal ☐ SCBA/Mask Wash/Rinse ☐ Hand/Face Wash ☐	Work Clothes Removal ☐ Body Shower ☐ Intervening Steps ☐ Other ☐:	Decon Agent: Water ☐ Other ☐:

16. RECORDS MAINTAINED ☒ Medical Surveillance ☒ Fit Testing ☒ Training ☐ Air Monitoring/Sampling Log Other:

17. ATTACHMENTS **Procedures, SOPs, Safe Work Practices, IAP Components, Other**

☒ SDS Chemical 1	☐ Confined Space Permit/Procedures: _____		IAP COMPONENTS
☐ SDS Chemical 2	☒ AHA#: SD001, Emergency Response Activity		☐ 201 Incident Briefing; or
☐ SDS Chemical 3	☒ AHA#: SD002, Motor Vehicle Ops		☐ 202 Incident Objectives
☐ SDS Chemical 4	☒ AHA#: SD003, ATV and UTV Ops		☐ 203 Organization List
☐ Spill Containment Plan	☒ SOP #: A100	☒ SOP #: P102	☐ SOP#: _____ ☐ 204 Assignment List (#8, #9)
☐ Drum/Container Handling SOP	☒ SOP #: D101	☒ SOP #: P103	☐ SOP#: _____ ☐ 205 A Incident Comms Plan
☐ Disposal Procedures	☒ SOP #: P100	☒ SOP #: T101	☐ SOP#: _____ ☐ 206 Medical Plan
☐ Release Map Pathway	☒ SOP #: P101	☒ SOP #: T103	☐ SOP#: _____ ☐ ICS-215 A IAP Safety Analysis
☐ Air Monitoring/Sampling Plan	☐ Other (specify): _____		Online SDS Database:
☐ Decontamination Plan	☐ Other (specify): _____		http://jr.chemwatch.net/chemwatch.web
☐ Hot Work Permit	☐ Modifications to Documented SOPs or Work Practice		**Account:** epa, **User Name:** everyone **Password:** 120270

HAZARD ANALYSIS / ENVIRONMENTAL & PERSONNEL MONITORING

18. Chemical Name(s)	Action Levels	LEL/UEL %	Physical State	Ceiling IDLH	STEL / TLV	Flash Pt / Ignition Pt (°F or °C)	Vapor Press (mmHg)	Vapor Density	Sp. Gravity	Boiling Pt (°F or °C)	Odor Thresh (ppm)
1) Gasoline	>10% LEL EVAC	1.4/7.4	Liquid & Vapor	NE	STEL - 500 ppm TLV - 300ppm	-43C	304	3	0.7	32C	
2) Benzene	>0.5 ppm don Level C >500 PPM don Level B	1.4/8	Gas	500 ppm	TLV – 0.5ppm STEL 2.5ppm	-11C	75	2.77	0.88	80C	
3)											
4)											

19. Instruments:	☐ Radiation	☒ $\%O_2$	☐ H_2S	☒ PID	☐ Colorimetric
	☐ Thermal	☒ %LEL	☐ CO	☐ FID	☐ CGI
	☐ Personnel:			☒ Other: Benzene	
20. Monitoring Frequency:	☐ 24 hr	☐ 8 hr	☐ Hourly	☒ Continuous	Other:
21. Containers	Types / Quantities / Comments:				

22. Physical Hazards					
	☐ Confined Space	☒ Heat Stress	☒ Noise	☐ Violence	☐ Animal/Plant/Insect
	☒ Slips/Trips/Falls	☐ Cold Stress	☐ Electrical	☐ Water	☐ Biomedical waste / needles
	☒ Excavation	☒ Fatigue	☐ Ergonomic	☐ Ionizing Rad	☐ Other:

23a. Hazards	Chemical 1	2	3	4	23b. Target Organs	Chemical 1	2	3	4	23b. Con't	Chemical 1	2	3	4	23c. Exposure Routes	Chemical 1	2	3	4
Explosive					Eyes	X				Lungs					Inhalation	X	X		
Flammable	X	X			Nose					Bone					Absorption	X	X		
Reactive					Ears					Throat					Ingestion	X	X		
Radioactive					Liver	X	X			Kidney					Injection	X	X		
Carcinogen	X	X			Skin	X	X			Heart					Membrane	X	X		
Oxidizer					CNS	X	X			Blood									
Corrosive					Gastrointestinal					Respiratory	X	X							
Biomedical					Circulatory														
Toxic	X	X																	

TASK / PPE / CONTROLS

24a. TASK 1 Level PPE D ☒ C ☒ B ☐ A ☐	Description: Oversight of health and safety, cleanup operations. Don Level C if Benzene Levels are greater than 0.5 PPM. If possible, ventilate or leave the area as opposed to donning Level C. DO NOT ENTER IF LEL IS GREATER THAN 10%
24b. TASK 2 Level PPE D ☐ C ☐ B ☐ A ☐	Description: Air Monitoring, Water Sampling, Soil Sampling. Don Level C if Benzene Levels are greater than 0.5 PPM. If possible, ventilate or leave the area as opposed to donning Level C. DO NOT ENTER IF LEL IS GREATER THAN 10%
24c. TASK 3 Level PPE D ☐ C ☐ B ☐ A ☐	Description:

25a. PPE	TASK 1	2	3	Comment/Modifications	25b. CONTROLS	TASK 1	2	3	Comment/Modifications
Boots (Steel-toe/Shank)	X	X			Work/Rest (hrs)				
Hard Hats	X	X			Fluids (amt/time)				
ANSI Hi-Vis Vest	X	X			Clothing (cold)				
Hearing Protection	X	X			Cooling Garments				
Eye Protection	X	X			Ventilate	X	X		
Gloves (Inner/Outer)		X			Signs & Barricade				
Face Shield/ Splash Suit					Fall Protection				
Suit (Inner/Outer)		X			Post Guards				
APR (cartridges)	X	X			Life Jacket		X		
PAPR (cartridges)					Fire Resistance PPE	X	X		
SAR					Flash Protection				
SCBA					Sanitation Facilities	X	X		
Insect Repellent	X	X			Sun Screen	X	X		

PREPARED/APPROVED BY

26. Prepared by:	Signature:	Date / Time:
27. Approved by:	Signature:	Date / Time:

28. WORKER ACKNOWLEDGEMENT FORM

28a. Worker Name (Print)	28b. Signature*	28c. Date	28d. Time

**** By signing this document, I am acknowledging that I have read and fully understand the plan and/or information provided to me.***

Health Hazards: May be fatal if swallowed and enters airways. May cause genetic defects. May cause cancer. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.
Physical Hazards: Fire and explosive hazards. Heat Stress Hazards. Slip, Trip and Fall Hazards.

Short-term over-exposures to this material may cause irritation to skin and eyes, headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation.
Long term inhalation over-exposures to this material may cause cancer. Contains material that may cause heritable genetic damage. Contains material that may cause damage to the blood and blood forming organs.

First-aid measures general: If exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation: Remove to fresh air and keep in a position comfortable for breathing. In case of irregular breathing or respiratory arrest provide artificial respiration.
First-aid measures after skin contact: Wash immediately with water for 15 minutes. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact: Rinse immediately and thoroughly with water, hold eyelids open for 15 minutes.
First-aid measures after ingestion: Immediately call a POISON CONTROL CENTER and/or 911. Rinse mouth.

MultiRAE Pro	PID only detects VOC's with an Ionization Potential (IP) <10.6; also H_2S, CO, $\%O_2$, and %LEL. See RAE Systems Technical Note TN-106 for information on PID use and correction factors.
TVA 1000	Non-specific, FID will detect total VOC's. PID will detect VOC's w/ an IP <10.6
Draeger Chip Management System (CMS)	Estimated 10% - 20% margin of error.
Draeger Tubes	Estimated 25% margin of error.
UltraRAE 3000	Use Benzene-specific separation tube for Benzene monitoring.
Personnel Sampling: 1. GilAir Sample Pump 2. SKC Sample Pump	Analytical methods: 1. Oil Mist - NIOSH 5026 2. Benzene – NIOSH 3700 3. VOC's – NIOSH 2549 4. Hydrocarbons – NIOSH 1500 Will also need a DryCal Calibrator and appropriate sampling media

Benzene	500ppm	TWA: 1 ppm, STEL: 5ppm	TWA: 0.5ppm, STEL: 2.5ppm	1.2-7.8%	9.24 eV	0.47
Butane	1600ppm (10%LEL)	--	STEL: 1000ppm	1.6-8.4%	10.63 eV	--
Carbon Monoxide	1200ppm	TWA: 35ppm, Ceiling: 200ppm	TWA: 25ppm	12.5-74%	--	--
Diesel Fuel	600ppm (10%LEL)	--	TWA: 100mg/m^3/~11ppm (total hydrocarbon vapor)	0.6-7.5%	Mixture	0.7
Ethyl Benzene	800ppm (10%LEL)	TWA: 100ppm	TWA: 20ppm	0.8-6.7%	8.76 eV	0.65
Gasoline	--	--	TWA: 300ppm, STEL: 500ppm	1.4-7.6%	Mixture	0.9-1.0
Hydrogen Sulfide	100ppm	Ceiling: 20ppm	TWA: 1ppm, STEL: 5ppm	4.0-44.0%	10.46 eV	3.3
Kerosene (Jet Fuel)	700ppm (10%LEL)	--	TWA: 200 mg/m^3/~29ppm (total hydrocarbon vapor)	0.7-5.0%	Mixture	0.6-1.0
Nitrogen Dioxide	20ppm	Ceiling: 5ppm	TWA: 0.2ppm	--	--	--

Oil Mist	2500 mg/m^3/~149ppm	TWA: 5 mg/m^3/~0.3ppm	--	--	Mixture	--
Pentane	1500ppm (10%LEL)	TWA: 1000ppm	1000ppm	1.5-7.8%	10.34 eV	8.4
Petroleum Distillates	1100ppm (10%LEL)	TWA: 500ppm	--	1.1-5.9%	Mixture	--
Sulfur Dioxide	100ppm	TWA: 5ppm	STEL: 0.25ppm	--	--	--
Toluene	500ppm	TWA: 200ppm, Ceiling: 300ppm	TWA: 20 ppm	1.1-7.1%	8.82 eV	0.45
Xylenes	900ppm (10%LEL)	TWA: 100ppm	TWA: 100ppm, STEL: 150ppm	0.9-7.0	8.44 – 8.56 eV	0.39-0.40

Fire or Explosion Hazard Oxygen Deficient or Rich Atmosphere	Leave the work zone and implement engineering controls. Engineering controls used in a potentially explosive atmosphere must be rated explosion proof.
Exceed an OSHA or ACGIH Exposure Limit	Leave the work zone and implement engineering controls. Don Level C PPE. Replace cartridges at the end of each work shift and/or based on manufacturers recommendations. **Do not reenter the work zone if LEL levels are still >10%.**
Oxygen Deficient Atmosphere and/or Exceed the Maximum Use Concentration of Respirator	Leave the work zone and implement engineering controls. Don Level B PPE. **Do not reenter the work zone if LEL levels are still >10%.**

Level D:	Safety Toe/Shank Work Boots, Safety Glasses, Flame Resistant Coveralls (as needed), Work Gloves (as needed), Hard Hat (as needed), High-Vis Vest (as needed), Hearing Protection (as needed), personal flotation device (as needed), Chest waders (as needed)
Level C:	Safety Toe/Shank Work Boots or HAZMAT Boots, Appropriate Chemical Protective Suit, Flame Resistant Coveralls (as needed), Full Face APR with Appropriate Cartridges, Appropriate Chemical Protective Gloves, Work Gloves (as needed), Hard Hat (as needed), High-Vis Vest (as needed), Hearing Protection (as needed)
Level B:	Safety Toe/Shank Boots or HAZMAT Boots, Appropriate Chemical Protective Suit, Flame Resistant Coveralls (as needed), and Chemical Protective Gloves, SCBA, Work Gloves (as needed), Hard Hat (as needed), Hearing Protection (as needed)

NOTE: Always review the PPE permeation rates for the specific compounds involved. Saranex (Tychem SL), Polyethylene Coated Suits (Tychem QC) and Nitrile Gloves may not always be appropriate for petroleum responses. The following are permeation rates for equipment carried by ERRPB. Always confirm this information with SDS or Specific Manufacturer
Permeation Rates are in Minutes, unless otherwise noted.
imm.: Chemical moves through suit, glove or boot material immediately. Blank Cells - No testing data available.

		Chemical Protective Suits					Chemical Protective Gloves					Boots	
		DuPont	DuPont	DuPont	DuPont	DuPont	North	Ansell	North	North	Ansell	Tingley	Onguard
Chemical Name	**Physical State**	**Tychem QC**	**Tychem SL - Saranex**	**Tychem BR**	**Tychem Responder**	**Tychem TK**	**Silver Shield**	**Barrier**	**Viton**	**Butyl**	**Solvex Nitrile**	**HAZPROOF**	**Boot Cover**
Crude oil	Liquid	imm.											
Diesel fuel	Liquid	imm.	48										
Ethanol	Liquid										240		
Fuel oil	Liquid	imm.											
Gasoline	Liquid		imm.					170					Poor
Kerosene and Jet Fuel	Liquid		58										Poor

Dry removal of PPE following standard contamination control techniques is typically appropriate. Wash hands and face with soap and water after exiting the contaminate reduction zone. Use a degreasing solution to decontaminate waders, chemical protective boots, tools and equipment.

- Light ends (e.g. pentanes, butanes, benzene, xylenes, toluene, and ethyl benzene) often volatilize during the first few days of the response as the oil weathers. **Do not underestimate the explosive hazards of the light ends.**
- Exposure to carcinogens should be as low as reasonably achievable. Implement engineering controls even if air monitoring indicates respiratory protection is not required.
- Additional health and safety considerations and controls are needed during In-situ Burning Operations. See SOG # P103 for additional information.

1. OSHA Compendium of Oil Spill Safety Data Sheets (includes SDS's for dispersants and DECON agents)
2. Other SDS: Benzene, Ethyl Benzene, Toluene, Xylene
3. Emergency Response and Removal Operations Job Hazard Analysis
4. Emergency Response, Removal and Prevention Health and Safety Standard Operating Guidelines
5. Emergency Response, Removal and Prevention PPE Selection Guides
6. OSHA PPE Matrix for Oil Spill Response
7. NIOSH Respiratory Protection Recommendations – Deepwater Horizon Response
8. Emergency Response Air Monitoring Guidance Tables (EPA ERTG, 2012, Version 3)
9. Hazard Evaluation Flow Chart for Unknowns (EPA ERTG, 2005, Version 6)
10. NIOSH Pocket Guide to Chemical Hazards
11. RAE Systems Technical Note TN-106
12. American Conference of Governmental Industrial Hygienist TLVs and BEIs
13. SCOTT Safety SureLife Cartridge Calculator
14. MSA Emergency Response Application (Respirator Cartridge Calculator)

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:16 PM
To: Pressley, Miriam
Subject: Fw: Special ERNS Report - NRC#1162982, Colonial Gasoline Pipeline Rupture and Fire, Pelham, Shelby County, AL

From: Eichinger, Kevin
Sent: Tuesday, November 1, 2016 3:06 AM
To: Buerki, Karen
Subject: Re: Special ERNS Report - NRC#1162982, Colonial Gasoline Pipeline Rupture and Fire, Pelham, Shelby County, AL

Ok

Sent from my iPhone

On Nov 1, 2016, at 02:09, Buerki, Karen <Buerki.Karen@epa.gov> wrote:

> They want to call it CR251.
>
> Sent from my iPhone
>
> On Oct 31, 2016, at 7:00 PM, Eichinger, Kevin <Eichinger.Kevin@epa.gov> wrote:
>
> > Bryan,
> >
> > Following up to our phone conservation at 1716 hours. Please deploy two START Team Member with the Response Truck (Box Truck) to assist OSC Buerki at the Colonial Gasoline Pipeline Rupture and Fire. Your initial site ceiling is $20,000. Contact OSC Buerki at 404-229-9516 and coordiante logistics with her directly.
> >
> > Kevin
> >
> > ---
> >
> > **From:** Eichinger, Kevin
> > **Sent:** Monday, October 31, 2016 7:29 PM
> > **Subject:** Special ERNS Report - NRC#1162982, Colonial Gasoline Pipeline Rupture and Fire, Pelham, Shelby County, AL
> >
> > **NRC#1162982, Colonial Gasoline Pipeline Rupture and Fire, Pelham, Shelby County, AL**

NOTE: The incident is involving and information is fluid at this time.

On October 31, 2016 at 1704 hours, Colonial Pipeline reported to the National Response Center that a third party struck a 36" below ground gasoline pipeline and the gasoline exploded and caught fire. Two workers were severely burned and air lifted to a trauma center. Three workers were transported by ambulance to a local hospital. One workers self-transported to local hospital. One worker is currently missing.

This pipeline is the same line that ruptured in September. The line is currently on fire and there are numerous large brush fires in the area. The pipeline is shut down and Colonial Pipeline is currently reporting that they have spilled 4000 barrels. On-Scene Coordinator (OSC) Karen Buerki, OSC Jardine (from the 35th Avenue Removal Site), Superfund Technical Assessment and Response Team (START) Contractors and the United States Coast Guard, Gulf Strike Team are responding. OSC Booth will respond in the morning to assist.

The US Department of Interior (DOI) Region 4 Representative, Alabama Department of Environmental Management (ADEM), and Shelby County Emergency Management Agency (EMA) has been notified. ADEM State OSC and Shelby County EMA Director are on scene.

The rupture is adjacent to Shades Creek, in a relatively remote location. Shades Creek is a tributary of the Cahaba River. Contractors for Colonial are establishing containment boom locations and assessing the creek as best as possible. At this time, responders believe that the fuel is burning and not releasing to the ground. Crews. Both Local and National Media interested is high.

Kevin Eichinger, CHMM - On-Scene Coordinator and Industrial Hygienist
U.S. Environmental Protection Agency, Region 4 | 61 Forsyth St SW | Atlanta, Georgia | 30303
Emergency Response, Removal and Prevention Branch (ERRB)
office: **404-562-8268** | cell: **678-897-3759** | epaosc.org

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:15 PM
To: Pressley, Miriam
Subject: Fw: Urgent - Resources Needed

From: Webster, James
Sent: Monday, October 31, 2016 6:38 PM
To: Eichinger, Kevin
Cc: R4 OSC List
Subject: Re: Urgent - Resources Needed

Call Joyce on her cell.

Sent from my iPhone

On Oct 31, 2016, at 6:36 PM, Eichinger, Kevin <Eichinger.Kevin@epa.gov> wrote:

> All,
>
> Colonial Pipeline has had another pipeline rupture in Shelby County AL. R1 (Karen) is headed out now and R2 (Jason) will be heading out in the morning.
>
> I need to know everyones availability. We are a little short handed with Rotation OSCs at a DECON conference in RTP and Clean Gulf in Tampa. We also have a Rotation OSC who is sick and one who has his son's graduation to attend.
>
> I need a R3 to be immediately available for response Duty and an R4. I would also like to know who else is available in case Karen needs additional support.
>
> Thanks,
> Kevin

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:15 PM
To: Pressley, Miriam
Subject: Fw: NRC#1162982

From: Eichinger, Kevin
Sent: Monday, October 31, 2016 5:46 PM
To: Buerki, Karen
Cc: bryan.vasser@tetratech.com; Moore, Tony; Joyce_Stanley@ios.doi.gov; Corey CB. Brown; Berry, Chuck; Spurlin, Steve; Harper, Greg; Jones, Katrina; Eoc, Epahq
Subject: Fw: NRC#1162982

Third party struck the line. Line is on fire. Pipeline Shut off and they are letting the fuel burn. 5 hurt. The location is 344 County Rd 13, Pelham, Shelby County, AL. The initial command post well be located at Colonial Pelham Facility, County Rd 52 E Pelham Sta, Pelham, AL 35124. Karen Buerki (R1) is mobilizing and will pick up the Response Truck and Benzene Meter from the RRC. START will contact her directly and discuss other equipment needs. Bryan Vasser is mobilizing a START from ATL. One START is in the Birmingham Area with their Response Truck and will divert from a project with Steve Spurlin. I called Tony and HQ EOC and provided a verbal update. The ADEM Contact is Mark Orr, 205-438-1080. ADEM and Shelby County are notified and performing downstream notifications. The spill is adjacent to Whispering Pines Lake which feeds Shades Creek and Cahaba River. Local and National Media has already reported the story.

From: HQS-PF-fldr-NRC@uscg.mil <HQS-PF-fldr-NRC@uscg.mil>
Sent: Monday, October 31, 2016 5:04 PM
To: R4DutyOSC
Subject: NRC#1162982

NATIONAL RESPONSE CENTER 1-800-424-8802
GOVERNMENT USE ONLYGOVERNMENT USE ONLY***
Information released to a third party shall comply with any
applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 1162982

INCIDENT DESCRIPTION

*Report taken by: CIV BRANDON WEATHERLY at 16:56 on 31-OCT-16
Incident Type: PIPELINE
Incident Cause: UNKNOWN
Affected Area:
Incident was discovered on 31-OCT-16 at 14:55 local incident time.

Affected Medium: UNKNOWN /UNKNOWN

REPORTING PARTY

Name: CONRAD SANDERS
Organization: COLONIAL PIPELINE COMPANY
Address: 1185 SANCTUARY PARKWAY
ALPHARETTA, GA 30004
Email Address: csanders@colpipe.com

PRIMARY Phone: (678)7622263
Type of Organization: PRIVATE ENTERPRISE

SUSPECTED RESPONSIBLE PARTY

Name: CONRAD SANDERS
Organization: COLONIAL PIPELINE COMPANY
Address: 1185 SANCTUARY PARKWAY
ALPHARETTA, GA 30004
PRIMARY Phone: (678)7622263
Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

MP: 573.7 County: SHELBY
PIPELINE LINE 1
RIVER RD.
City: HELENA State: AL
RP DID NOT HAVE EXACT LOCATION INFO AT THE TIME OF THE REPORT.

RELEASED MATERIAL(S)

CHRIS Code: GAS Official Material Name: GASOLINE: AUTOMOTIVE (UNLEADED)
Also Known As:
Qty Released: 4000 BARREL(S) Qty in Water: 0 UNKNOWN AMOUNT

DESCRIPTION OF INCIDENT

THE RP IS REPORTING A DISCHARGE OF GASOLINE DUE TO A LINE STRIKE ON
A 36" TRANSMISSION PIPELINE (STEEL). RP STATED IT IS BELIEVED THAT
A THIRD-PARTY MAY HAVE STRUCK THE LINE RESULTING IN THE DISCHARGE.
RP STATED THE ENVIRONMENTAL IMPACTS ARE CURRENTLY UNKNOWN.

**RP STATED THERE WAS A FIRE AND AN EXPLOSION AS WELL.
**UNKNOWN IF THERE WERE ANY INJURIES OR EVACUATIONS.
**DAMAGE AMOUNT IS ALSO UNKNOWN.

SENSITIVE INFORMATION

INCIDENT DETAILS

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

IMPACT

Fire Involved: YES Fire Extinguished: UNKNOWN

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

Damages: UNKNOWN

Closure Type	Description of Closure	Hours Closed	Direction of Closure
Air:			N
Road:			Major Artery:N
Waterway:			N
Track:			

Environmental Impact: UNKNOWN
Media Interest: UNKNOWN Community Impact due to Material:

REMEDIAL ACTIONS

CONTRACTORS ARE ENROUTE WITH AN ETA OF 15 MINS TO 2 HOURS.
**LOCAL FD ARE ON SCENE.
Release Secured: YES
Release Rate:
Estimated Release Duration:

WEATHER

Weather: SUNNY, ºF

ADDITIONAL AGENCIES NOTIFIED

Federal:
State/Local:
State/Local On Scene: FD
State Agency Number:

NOTIFICATIONS BY NRC

ALABAMA DEPT OF ENV MGMT (MAIN OFFICE)
31-OCT-16 17:03 (334)3944382
ALABAMA DEPT OF ENV MGMT (BIRMINGHAM FIELD OFFICE)
31-OCT-16 17:03 (334)3944382
AL U.S. ATTORNEY'S OFFICE (COMMAND CENTER)
31-OCT-16 17:03 (205)2442188
CENTERS FOR DISEASE CONTROL (GRASP)
31-OCT-16 17:03 (770)4887100
DHS PROTECTIVE SECURITY ADVISOR (PSA DESK)
31-OCT-16 17:03 (703)2355724
DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)
31-OCT-16 17:03 (202)3661863
U.S. EPA IV (MAIN OFFICE)
(404)6504955
U.S. EPA IV (DUTY OSC)
31-OCT-16 17:03 (404)6504955
USCG NATIONAL COMMAND CENTER (MAIN OFFICE)
31-OCT-16 17:03 (202)3722100
GULF STRIKE TEAM (MAIN OFFICE)
31-OCT-16 17:03 (251)4416601

JFO-LA (COMMAND CENTER)
31-OCT-16 17:03 (225)3366513
NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)
31-OCT-16 17:03 (202)2829201
NOAA RPTS FOR AL (MAIN OFFICE)
31-OCT-16 17:03 (206)5264911
NATIONAL RESPONSE CENTER HQ (MAIN OFFICE)
31-OCT-16 17:03
NATIONAL RESPONSE CENTER HQ (AUTOMATIC REPORTS)
31-OCT-16 17:03 (202)2671136
NRC COMMAND DUTY OFFICER (MAIN OFFICE)
(202)2672100
NTSB PIPELINE (MAIN OFFICE)
31-OCT-16 17:03 (202)3146293
HOMELAND SEC COORDINATION CENTER (MAIN OFFICE)
31-OCT-16 17:03 (202)2828300
PIPELINE & HAZMAT SAFETY ADMIN (OFFICE OF PIPELINE SAFETY (AUTO))
31-OCT-16 17:03 (202)3660568
DOI FOR REGION 4 (MAIN OFFICE)
31-OCT-16 17:03 (404)3314524
REPORTING PARTY (RP SUBMITTER)
31-OCT-16 17:03
ALABAMA EMA (MAIN OFFICE)
31-OCT-16 17:03 (205)2802312
TSA OFFICE OF SECURITY OPERATIONS (SURFACE COMPLIANCE BRANCH SE REGION)
31-OCT-16 17:03 (904)9804075
USCG DISTRICT 8 (MAIN OFFICE)
31-OCT-16 17:03 (504)5896225
USCG DISTRICT 8 (PLANNING)
31-OCT-16 17:03 (504)6712080

ADDITIONAL INFORMATION

*** END INCIDENT REPORT #1162982 ***
Report any problems by calling 1-800-424-8802
PLEASE VISIT OUR WEB SITE AT http://www.nrc.uscg.mil

USCG National Response Center Home Page

www.nrc.uscg.mil

Welcome to the National Response Center Anyone witnessing an oil spill, chemical release or maritime security incident should ...

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 12:14 PM
To: Pressley, Miriam
Subject: Fw: EOC Spot Report: Region 4, Pipeline Explosion, Shelby County, Alabama (NRC Report #1162982)

From: Eoc, Epahq
Sent: Monday, October 31, 2016 6:20 PM
To: Eoc, Epahq
Subject: EOC Spot Report: Region 4, Pipeline Explosion, Shelby County, Alabama (NRC Report #1162982)

This report is being sent as a bcc to prevent accidental Reply to All messages.

UNCLASSIFIED//FOR OFFICIAL USE ONLY

EOC Spot Report: Region 4, Pipeline Explosion, Shelby County, Alabama (NRC Report #1162982)

US Environmental Protection Agency
Report as of Oct 31, 2016 6:00PM

Overview:

Region 4 Emergency Response Program is responding to a pipeline explosion in Shelby County, Alabama. Colonial pipeline reported the discharge of gasoline to the NRC around 4:56PM on October 31, 2016. The incident was reported to have happened around 2:55PM. Colonial Pipeline (reporting party) reported a discharge of gasoline due to a line strike on a steel 36" transmission pipeline. The reporting party (RP) believed a third party may have struck the line resulting in the discharge. Environmental impacts were unknown at the time. The RP stated that there was an explosion and a fire.

At the time of this report we are aware of 5 injuries. The site is located at 344 County Rd 13, Pelham, Shelby County, AL.

State, Local, and other Federal Agency Action:

- EPA has deployed a Federal On-Scene Coordinator (OSC) to the incident. The FOSC is also deploying contract support for technical assessment work as well as environmental cleanup work (START and ERRS contractors). An additional FOSC is already scheduled to provide overlapping response coverage.

- The Region 4 EOC is making notifications to other Federal agencies and precautionary downstream notifications. The Region 4 EOC is coordinating with the Alabama Department of Emergency Management and Shelby County in conducting downstream notifications. The spill is adjacent to Whispering Pines Lake which feeds Shades Creek and Cahaba River.

- The initial command post well be located at Colonial Pelham Facility, County Rd 52 E Pelham Sta, Pelham, AL 35124.

Pipeline Actions:

- The line is on fire.
- It has been shut off and the fuel is being allowed to burn out. The media outlets have reported local fire department using foam to suppress the fire.

Note: Due to the lack of rain and the remote forested area there may be a potential for a forest fire.

Media Interest: Extensive national and local.
http://www.al.com/news/birmingham/index.ssf/2016/10/reported_gas_line_explosion_se.html

1 dead, several severely burned after Shelby County gas ...

www.al.com

Fire departments from across the Birmingham area responded to a gas line explosion in Shelby County that killed one person and severely injured several people Monday ...

http://www.tucsonnewsnow.com/story/33524945/7-injured-en-route-to-hospital-from-reported-pipeline-explosion-in-al
http://www.wbrc.com/story/33524945/5-injured-en-route-to-hospital-from-reported-gas-line-explosion-in-al
http://abc3340.com/news/local/explosion-reported-in-helena

The HQ EOC will continue to monitor and provide updates as needed

Laura Casillas, Senior Watch Officer
U.S Environmental Protection Agency
Headquarters Emergency Operations Center
1200 Pennsylvania Ave
Washington, DC 20004
202-564-3850 (24-hrs)
202-564-8729 (fax)
eoc.epahq@epa.gov

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 10:30 AM
To: Pressley, Miriam
Subject: Fw: Emergency ESA Consultation on Colonial CR-251 [WARNING: DKIM validation failed]

From: Buerki, Karen
Sent: Friday, December 16, 2016 8:15 AM
To: Joe Nicolette; Andrew, Gary
Cc: Booth, Jason
Subject: Re: Emergency ESA Consultation on Colonial CR-251 [WARNING: DKIM validation failed]

I'll be in the office next week. I would like to get Gary Andrew in the conversation as well.

Sent from my iPhone

On Dec 15, 2016, at 8:39 PM, Joe Nicolette <jnicolette@envplanning.com> wrote:

> Hi Karen and Jason,
>
> Are you around to discuss this briefly? We are preparing the BA for this as Andy recommended. I wanted to coordinate with you in regards to the path forward. Can either of you talk next week?
>
> Thanks, Joe
>
> **Joseph Nicolette**
>
> Senior Principal
>
> PLEASE NOTE NEW CONTACT INFORMATION
>
> Direct: (678) 336-8554
>
> Cell: (b) (6) [redacted]
>
> jnicolette@envplanning.com

NOTICE: This communication may contain privileged or other confidential information. If you are not the intended recipient, or believe that you have received this communication in error, please do not print, copy, retransmit, disseminate, or otherwise use the information. Also, please indicate to the sender that you have received this communication in error, and delete the copy you received. Thank you.

From: Ford, Anthony [mailto:anthony_ford@fws.gov]
Sent: Tuesday, November 08, 2016 4:40 PM
To: Buerki.Karen@epa.gov; booth.jason@epa.gov
Cc: Joe Nicolette <jnicolette@envplanning.com>; Kirk Kessler <KKessler@envplanning.com>; Jeff Powell <jeff_powell@fws.gov>; John Rawls <john_rawls@fws.gov>; Greg Masson <greg_masson@fws.gov>; Joyce Stanley <joyce_stanley@ios.doi.gov>
Subject: Emergency ESA Consultation on Colonial CR-251

Karen,

Good talking to you on the phone this morning. As we discussed this morning, we would recommend emergency ESA consultation for the expected take of listed snails from the placement and retrieval of precautionary boom during the response. I went out on site with Joe and Kirk with EPS on Friday to all of the booming sites, noted listed snails and/or habitat at the sites (see attached photos), and advised them on ways to minimize impacts to listed snails during the retrieval of boom.

According to the Section 7 Consultation Handbook, you as the action agency should initiate consultation by submitting a description of the emergency; a justification for the expedited consultation; and an evaluation of the response to and the impacts of the emergency on affected species and their habitats, including documentation on how the Services' recommendations were implemented, and results of implementation in minimizing take.

I asked Joe Nicolette to assist you in summarizing these things within a biological assessment. This document should assist us in our writing a formal consultation on the emergency. I'll help Joe with any survey information that we have in these area for baseline.

Please contact me with any questions you may have.

Thanks,

Andy

Anthony "Andy" Ford

Fish and Wildlife Biologist

U.S. Fish and Wildlife Service

Alabama Ecological Services Field Office

1208-B Main Street

Daphne, AL 36526

(251) 441-5838 (O)

(251) 441-6222 (F)

https://www.fws.gov/daphne/

This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 10:28 AM
To: Pressley, Miriam
Subject: Fw: Trinity Highway Products Sulfuric Acid Spill

From: Joyce Stanley <joyce_stanley@ios.doi.gov>
Sent: Sunday, November 20, 2016 7:44 PM
To: Buerki, Karen
Subject: RE: Trinity Highway Products Sulfuric Acid Spill

Hello Karen,

Pls email me the latest SITREPs for the last Colonial spill. I'm unable to access EPA OSC website. Getting message "access denied" after changing my password. I assume I had too many attempts.

Thanks,

From: Buerki, Karen [mailto:Buerki.Karen@epa.gov]
Sent: Sunday, November 20, 2016 6:52 PM
To: Joyce_Stanley@ios.doi.gov
Cc: Williamson, Carter <Williamson.Carter@epa.gov>
Subject: Trinity Highway Products Sulfuric Acid Spill

Joyce,

There was a fish kill in an unnamed tributary of the Edisto River as a result of this spill on Saturday. I sent OSC Carter Williamson to it and SCDHEC also responded.

Karen Buerki

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 10:26 AM
To: Pressley, Miriam
Subject: Fw: DRAFT: Colonial Pipeline Explosion Desk Statement

---

From: Pinkney, James
Sent: Thursday, November 3, 2016 1:48 PM
To: Buerki, Karen; Moore, Tony; Webster, James
Subject: DRAFT: Colonial Pipeline Explosion Desk Statement

Please review and make any necessary changes. Thanks.

Draft

Colonial Pipeline Explosion Desk Statement

11/3/2016

(b) (5)
[redacted]

[redacted]

Background

(b) (5)
[redacted]

James Pinkney
EPA Region 4 Office of External Affairs
61 Forsyth Street SW | Atlanta, GA 30303
phone: 404.562.9183 | mobile: 404.695.5503
email: pinkney.james@epa.gov

Follow Region 4 on Twitter: www.twitter.com/EPASoutheast
and Facebook: www.facebook.com/eparegion4

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 10:25 AM
To: Pressley, Miriam
Subject: Fw: RRT 4 Activation Call 11:30am today
Attachments: CR251_SITREP_1_11012016_0700.pdf

From: Andrew, Gary
Sent: Tuesday, November 1, 2016 10:50 AM
To: thomas.m.mccrossen@uscg.mil; miguel.l.bella@uscg.mil; adam.davis@noaa.gov; Airrion Moore; Artie Buff; kizer.billie@dol.gov; brad.Benggio@noaa.gov; Blair, Carl; christina.edwards@nnsa.srs.gov; D_L_Anderson@nps.gov; Elisa Roper; Eric K. Conklin; forest.a.willis@uscg.mil; frank.csulak@noaa.gov; Gwen Keenan; Jack Fowler; Webster, James; Joaquin Cardenas; John M. Pelchat; Joyce_Stanley@ios.doi.gov; justin.smith@usdoj.gov; cohunka@state.gov; lindy_nelson@ios.doi.gov; Michael Crump; mike.davenport@navy.mil; Nathan Bland; Rachel C. Smith Ph. D; Robert K. Rader; rrmajiros@tva.gov; Stanley Copeland; harrison.teresa@dol.gov; Terry Alverson; Terry Brown; wsternke@fs.fed.us; Wayne M. Kee; Andrew, Gary; forest.a.willis@uscg.mil; Webster, James; Moore, Tony; Davis, James P LTJG; arose@tnema.org; statoncd@dhec.sc.gov; Cody Fisher; Earl Alexander; Ed Jenkins; Ernie Shirley; GSpringer@adem.state.al.us; John.S.Johnson@dep.state.fl.us; JR Campbell; leepd@dhec.sc.gov; Paul Wotherspoon; Randy Jenkins; robert.francis@ky.gov; Stephen Clark; steve.lewis@ncdenr.gov; Yatasha Moore; Bill Gordon; cwhite@pci-nsn.gov; Darin Steen; David Dees; jamilong@nc-cherokee.com; Jason Dobronz; Keith Bluecloud; kevind@miccosukeetribe.com; Lee Boone; Brandon A LT Guldseth; CAPT. Joe Uzmann; Timothy.J.Wendt@uscg.mil; Austin Gould; Gregory Case; Ric Rodriguez; Richard.Timme@uscg.mil; Samuel Walker; Sean Murtagh; Kevin P. Lynn; malcolm.r.mclellan@uscg.mil; Amy Beach; jeffrey.f.dixon@uscg.mil; Kimberly Chesteen, LCDR; Mary.d.hoffman@uscg.mil; Weaver, James (USCG); Marquesio Robinson, LT; Rhenee K. Allen; Mary M. Dwyer; McQuiddy, David; michael.k.sams@uscg.mil; Mason, Steve; todd.m.peterson@uscg.mil
Cc: Buerki, Karen; Eichinger, Kevin
Subject: RRT 4 Activation Call 11:30am today

Good Morning All:

The attached Situation Report for the Colonial Gasoline Pipeline Fire is the purpose for our call this morning. This call was requested by the EPA Chair James Webster and will provide your organization with current information and allow FOSC Karen Buerki to obtain the support she needs from the RRT.

This call will be at 11:30 am eastern DST. Today.

Call-in #: (b) (5) [redacted]
Conference #: (b) (5) [redacted]

Gary A. Andrew, CHMM
Federal On-Scene Coordinator
EPA RRT Coordinator
678-733-1621

NRC #1162982, CR251 - Colonial Gasoline Pipeline Fire, Pelham, Shelby County, Alabama

Situation Report #1
0700, November 1, 2016

INCIDENT DESCRIPTION

On October 31, 2016 at 1455 hours a Colonial Pipeline contractor struck a 36" below ground transmission gasoline pipeline while unearthing threaded O-rings (TOR) for rendering the line inert. This operations was necessary to install a permanent repair required by the previous pipeline rupture on September 9, 2016. The gasoline pipeline exploded and caught fire. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center. One worker was fatally injured and six workers were transported to local hospitals.

The exact amount of the release is unknown; however, Colonial Pipeline has estimated that 4,000 barrels of gasoline were released. Both main pipelines were shut down. The Shelby County Fire Department responded and contained the fire around the spill site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. The fire continues to burn at this time. Line 2 (the unimpacted line) was restarted at 2250 hours at a reduced rate.

The incident occurred near a man-made pond located approximately 0.75 miles to the southeast. Discharge from the pond travels another 0.25 miles southeast to the Cahaba River. Also, Shades Creek is located approximately 0.65 miles northwest of the incident and is a tributary of the Cahaba River. Contractors for Colonial Pipeline have established containment boom at 3.5 miles and 7 miles downstream in the Cahaba River and are currently assessing Shades Creek.

The Alabama Department of Environmental Management (ADEM), Shelby County Emergency Management Agency (EMA), US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, have been notified. EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command.

INCIDENT MANAGEMENT

On-Scene Coordinator (OSC) Rick Jardine deployed from Birmingham, Alabama, and was the first federal official on-scene. OSC Karen Buerki deployed from Atlanta, Georgia, to the Incident Command Post and has integrated into the Unified Command. US Coast Guard Gulf Strike Team (USCG GST) and Superfund Technical Assessment and Response Team (START) personnel were deployed to the incident.

Current number of EPA personnel assigned: 2
Current number of USCG GST personnel assigned: 4
Current number of START personnel assigned: 2

REPORTING SCHEDULE

Situation Reports (SITREPS) will be delivered daily at 1600 hours EST.

CURRENT OPERATIONS

- Local fire personnel monitor the fire as it continues to burn. There are four homes located northwest and southeast of the spill area. Residents from the home located southeast of the spill area evacuated. The residents in two of the three homes located northwest of the spill area evacuated and one remained in place. Local fire personnel will continue to monitor the fire in the event those residents need evacuation.
- CTEH continued performing mobile air monitoring throughout the populated areas along the northern perimeter of the spill area. Air monitoring results indicated no detections above background levels. CTEH developed an area air sampling plan for approval.
- Colonial Pipeline contractor began preparing a water and sediment sampling plan, as well as, performing a natural resources damage assessment (NRDA).
- Shelby County EMA requested the Shelby County Sheriff Department restrict the air space (3,000 feet above and a 3 mile radius) around the incident area until 1000 hours on November 1, 2016. The air space restriction was further extended until 1000 hours on November 2, 2016.

PLANNED RESPONSE ACTIVITIES

- Continue efforts to evacuate the pipeline and excavate threaded O-rings (TOR).
- Complete installation of booms in Shades Creek, Living River, and Cahaba River.
- Complete installation of interceptor trench and underflow dam in pond southeast of the spill area.
- Complete preparation of the Product Disposal Plan (PDP).
- Complete staging area set up.
- Prepare for VIP visit from Congressman Gary Palmer.
- Continue air monitoring and sampling through CTEH.
- Begin water and sediment sampling.
- Conduct aerial surveillance via drone.
- Continue to improve site communications via Communication-Sites-on-Wheels (COWs).
- Complete preparation of the Restoration of Services Plan (RSP).
- Continue preparation for media release.

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 10:21 AM
To: Pressley, Miriam
Subject: Fw: Scribe Subscription CR-251 Event

From: Buerki, Karen
Sent: Monday, December 19, 2016 12:47 PM
To: Pressley, Miriam
Subject: FW: Scribe Subscription CR-251 Event

This is the SCRIBE database info I was speaking about.

From: Prys, Paul [mailto:Paul.Prys@tetratech.com]
Sent: Thursday, November 03, 2016 12:16 PM
To: Buerki, Karen <Buerki.Karen@epa.gov>; Harper, Greg <Harper.Greg@epa.gov>; Jardine, Rick <Jardine.Richard@epa.gov>; Booth, Jason <Booth.Jason@epa.gov>; Tripp, Christopher <tripp.christopher@epa.gov>
Cc: Croft, Brian <Brian.Croft@tetratech.com>; bryan.vasser@tetratech.com; Vickers, Jessica <jessica.vickers@tetratech.com>
Subject: FW: Scribe Subscription CR-251 Event

See below for the CTEH SCRIBE database subscription info.

From: Eric Callahan [mailto:ecallahan@cteh.com]
Sent: Thursday, November 03, 2016 8:28 AM
To: Prys, Paul <Paul.Prys@tetratech.com>
Subject: FW: Scribe Subscription CR-251 Event

Paul,

Below is the subscription information for the CTEH SCRIBE database. Please distribute it to the people who need it.

Thanks,

Eric Callahan - Data Manager
Center for Toxicology and Environmental Health
5120 North Shore Drive
North Little Rock, AR 72118
Office: 501-801-8500
Cell: (b) (6) [redacted]
http://www.cteh.com

From: ERT Support [mailto:ERTSupport@epa.gov]
Sent: Thursday, November 03, 2016 7:06 AM
To: Eric Callahan <ecallahan@cteh.com>
Subject: Re: Scribe Subscription CR-251 Event

Okay Eric, here's the subscription information:

Subscription ID = R04 PelhamCR215
Password = proj3045 (case sensitive)

For Additional Information Please Contact
ERT Software Support
1-800-999-6990
1-732-321-6724 (fax)
ertsupport@epa.gov
www.ertsupport.org

From: Eric Callahan <ecallahan@cteh.com>
Sent: Wednesday, November 2, 2016 5:44 PM
To: ERT Support
Subject: Scribe Subscription CR-251 Event

Please provide a Scribe subscription ID and password and password for project ID 3045 for distribution to the CR-251 event Unified Command in Pelham, AL. Please call if you have questions or need additional information.

Thank you,

Eric Callahan - Data Manager
Center for Toxicology and Environmental Health
5120 North Shore Drive
North Little Rock, AR 72118
Cell: 501-366-1525
http://www.cteh.com

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 10:20 AM
To: Pressley, Miriam
Subject: Fw: Pelham Pipeline Rupture

From: Buerki, Karen
Sent: Sunday, November 6, 2016 5:09 PM
To: Joyce_Stanley@ios.doi.gov
Subject: Re: Pelham Pipeline Rupture

I did not receive a request. I did speak briefly with Keith Westlake and Andy Ford was on-site Friday.

Sent from my iPhone

On Nov 5, 2016, at 9:59 AM, Stanley, Joyce <joyce_stanley@ios.doi.gov> wrote:

Hello Karen,

I hope all is well. Did you receive a PRFA request from FWS. If so, what is the status?

Thanks,

Joyce A. Stanley, MPA
Regional Environmental Protection Specialist
US Department of the Interior
Office of Environmental Policy and Compliance
(404) 331-4524 - Office
(404) 331-1736 - Fax
(b) (6) [redacted] *- Mobile*
joyce_stanley@ios.doi.gov
http://www.doi.gov/oepc/atlanta.html

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 10:20 AM
To: Pressley, Miriam
Subject: Fw: Pelham Pipeline Rupture SITREP #6
Attachments: Colonial Pipeline Rupture_SITREP6_110516.pdf; ATT00001.htm

---

From: Buerki, Karen
Sent: Sunday, November 6, 2016 9:54 AM
To: Brian.Croft@tetratech.com
Subject: Fwd: Pelham Pipeline Rupture SITREP #6

Sent from my iPhone

Begin forwarded message:

From: "Tripp, Christopher" <tripp.christopher@epa.gov>
Date: November 5, 2016 at 5:20:55 PM CDT
To: R4 ERRB <R4_ERRB@epa.gov>, R4 ERNS Reports <R4_ERNS_Reports@epa.gov>, R4 RICT <R4_RICT@epa.gov>
Cc: "steven.j.wall@noaa.gov" <steven.j.wall@noaa.gov>, "Eoc, Epahq" <Eoc.Epahq@epa.gov>, "thomas.m.mccrossen@uscg.mil" <thomas.m.mccrossen@uscg.mil>
Subject: Pelham Pipeline Rupture SITREP #6

Colonial Pipeline CR251 Rupture

Pelham, Shelby County, Alabama

Situation Report #6

November 5, 2016

1800

NRC #1162982

INCIDENT DESCRIPTION

On Monday, October 31 at approximately 1450 CDT, a pipeline accident occurred in Helena, Alabama, in which one worker died and four others were seriously injured. The 36-inch

diameter pipeline carrying gasoline, operated by Colonial Pipeline, ruptured during maintenance operations. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center.

The exact amount of the release is unknown; however, Colonial Pipeline has estimated that between 3,300 and 4,000 barrels of gasoline were released. Both main pipelines were shut down. The local fire department responded and contained the fire around the ruptured site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. Line 2 was restarted at 2250 hours on October 31 at a reduced rate.

The Alabama Department of Environmental Management (ADEM), Alabama Emergency Management Agency (EMA), Shelby County EMA, the US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, were notified. The EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command (UC).

PUBLIC AFFAIRS

- **ONGOING:** The PIO continues to coordinate press releases with Colonial Pipeline through the JIC.
- **ONGOING:** The NTSB assessment has transitioned to a full investigation. NTSB communications restrictions are being implemented due to the investigation. No photos of the pipe leak site or equipment at the scene when the incident occurred are to be disseminated to the public.
- NEW: An OSHA representative arrived onsite November 4 to observe the release location.
- NEW: A US Fish & Wildlife representative arrived onsite November 4 to observe boom locations and assess concerns regarding a possible threatened and endangered species of snail.

INCIDENT MANAGEMENT AND STAFFING

EPAs integration into the Colonial Pipeline Incident Command structure has provided numerous benefits to the response and further ensured that operations ran successfully. This has been accomplished through working directly with the Environmental Unit on sampling and monitoring, the Situation Unit, the Planning Section, Safety, Unified Command, and with overall operations related to this unfortunate incident. All EPA staff, USCG GST and support contractors are fully embedded into the Colonial Pipeline incident management structure. The number of personnel managing the incident is as follows:

Current number	Number
EPA	6 (1 working from R4 REOC)
USCG GST	4
START	3
Total Response Personnel	591

CURRENT RELEASE AND RECOVERY ESTIMATES

- Current Release Estimate remains unchanged at 3,300 bbl to 4,000 bbls[1]
- NEW: Product recovery from the pipeline (drain-up) was completed during night operations. A total of approximately 783 barrels (32,886 gallons) of product were recovered and transferred to the four frac tanks.
- NEW: Mechanical excavation of soil from the incident area began at approximately 0500 on November 5. Excavated soil is being temporarily stockpiled for future transportation and disposal at an approved landfill. Stockpiles will be placed on Visqueen with a constructed earthen berm to prevent runoff or migration of the impacted soils.

REPORTING SCHEDULE

Situation Reports (SITREPS) will be delivered daily at 1800 hours EDT.

CURRENT OPERATIONS

1) **Environmental Sampling and Impacts**
   a. Air Monitoring
      - **ONGOING:** CTEH continues conducting air monitoring at the frac tank staging area, TORs, and release during recovery and excavation efforts.
      - **ONGOING:** CTEH continues performing 24-hour mobile air monitoring at and near the incident area, as well as at nearby homes to the northwest and southeast of the incident area. Air monitoring results from 0600 hours CDT on November 4, through 0600 hours CDT on November 5 indicated no detections above site action levels at the nearby residential areas located northwest and southeast of the incident area, except for particulate matter 2.5 micrometers or less (PM2.5). Air monitoring results indicated one spike in the PM2.5 concentration (0.146 mg/m^3) at the residences located southeast of the incident area. In the vicinity of the ongoing worker operations at the TORs and the leak site, air monitoring results indicated spikes above the worker action levels in the concentrations of PM2.5 (0.335 mg/m^3), benzene (0.8 ppm), LEL (8%), and VOCs (405 ppm).
      - **ONGOING:** CTEH continues analytical air sampling at five locations near the homes located northwest (Bent Pine Drive) and southeast of the incident area along County Road 251.
      - **ONGOING:** CTEH continues to upload air sampling data to the SCRIBE database.
   b. Water/Sediment Sampling and National Resources Damage Assessment (NRDA)

- Environmental Planning Specialists (EPS) continues surface water sampling, including locations along the Cahaba River, Shades Creek, and the pond located southeast of the incident area.

2) **Local Response Actions**
   - The air space restriction to 1,500 feet and a 1.5 mile radius around the incident area remains in effect until 0000 hours on November 7, 2016.

3) **Health and Safety**
   - CTEH continues to conduct air monitoring and address health and safety concerns during response activities.
   - USCG Gulf Strike Team continues to provide health and safety oversight of response operations.

4) **Communications**
   - **ONGOING:** NTSB communications requirements are being implemented for parties involved in the incident investigation. EPA continues to coordinate press releases with Colonial Pipeline through the JIC.

5) **Fuel Supply**
   - No change in the waiver status.

PLANNED RESPONSE ACTIVITIES

- Continue product recovery (residual), as necessary, from Line 1 in preparation for replacement of the damaged section at the incident area.
- Complete excavation along the pipeline at the incident area in preparation for the replacement of the damaged section.
- NEW: Remove and replace the damaged section of pipeline to restore Line 1 to service.
- NEW: Transfer product from the four frac tanks to Pelham Junction (tentatively scheduled to occur Monday November 7).
- CTEH will continue air monitoring and sampling.
- Complete and approve the Transition Plan for moving from emergency to removal phase.
- Continue preparing and releasing updates for the media outlets.
- NEW: Prepare for demobilization.

Christopher Tripp - On-Scene Coordinator

U.S. Environmental Protection Agency, Region 4 | 61 Forsyth St SW | Atlanta, Georgia | 30303

Emergency Response, Removal and Prevention Branch (ERRPB)

office: **404-562-8745** | cell: **470-426-3336**

epaosc.org

[1] I barrel (bbl) = 42 gallons

Colonial Pipeline CR251 Rupture
Pelham, Shelby County, Alabama
Situation Report #6
November 5, 2016
1800
NRC #1162982

INCIDENT DESCRIPTION

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[1] 1 barrel (bbl) = 42 gallons

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- USCG Gulf Strike Team continues to provide health and safety oversight of response operations.

4) Communications

- **ONGOING:** NTSB communications requirements are being implemented for parties involved in the incident investigation. EPA continues to coordinate press releases with Colonial Pipeline through the JIC.

5) Fuel Supply

- No change in the waiver status.

PLANNED RESPONSE ACTIVITIES

- Continue product recovery (residual), as necessary, from Line 1 in preparation for replacement of the damaged section at the incident area.
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- Complete and approve the Transition Plan for moving from emergency to removal phase.
- Continue preparing and releasing updates for the media outlets.
- NEW: Prepare for demobilization.

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 10:19 AM
To: Pressley, Miriam
Subject: Fw: Pelham Pipeline Rupture SITREP #4

From: Buerki, Karen
Sent: Thursday, November 3, 2016 9:37 PM
To: Tripp, Christopher; Moore, Tony
Subject: Re: Pelham Pipeline Rupture SITREP #4

Say, why didn't the NTSB info make it in?

It was important to state that the NTSB elevated their Assessment to a Full Investigation. It has implications on what information can be shared with the public.

Sent from my iPhone

On Nov 3, 2016, at 6:23 PM, Tripp, Christopher <tripp.christopher@epa.gov> wrote:

Colonial Pipeline CR251 Rupture

Pelham, Shelby County, Alabama

Situation Report #4

November 3, 2016

1700

NRC #1162982

INCIDENT DESCRIPTION

On October 31 at 1455 hours, a Colonial Pipeline contractor struck a 36" below ground transmission gasoline pipeline (Line 1) while finishing a permanent repair necessitated by the previous pipeline rupture that occurred on September 9. The gasoline pipeline exploded and caught fire. At 1656 hours, Colonial Pipeline reported the incident to the National Response Center. One worker was fatally injured and six workers were transported to local hospitals.

The exact amount of the release is unknown; however, Colonial Pipeline has estimated that between 3,300 and 4,000 barrels of gasoline were released. Both main pipelines were shut down. The local fire department responded and contained the fire around the ruptured site. The Alabama Forestry Commission and Shelby County Highway Department constructed an earthen berm to contain the gasoline and cut a fire break. The fire continues to burn at this time. Line 2 was restarted at 2250 hours on October 31 at a reduced rate.

The Alabama Department of Environmental Management (ADEM), Shelby County Emergency Management Agency (EMA), US Environmental Protection Agency (EPA), US Department of Interior (DOI) Region 4, have been notified. EPA, ADEM, Colonial Pipeline, and local emergency responders are on scene and have integrated into the Unified Command (UC).

PUBLIC AFFAIRS

- EPA responded to an email inquiry from Conner Sheets with AL.com.
- Pipeline and Hazardous Material Safety Administration (PHMSA) Administrator Marie Therese Dominguez toured site activities and met with federal officials on-site.

INCIDENT MANAGEMENT AND STAFFING

EPAs integration into the Colonial Pipeline Incident Command structure will provide myriad of benefits to the response and further ensure operations run successfully. This will be accomplished through working directly with the Environmental Unit on sampling and monitoring, the Planning Section, safety, and with overall operations related to this unfortunate incident. All EPA staff, USCG GST and support contractors have embedded into the Colonial incident management structure.

Current number	Number
EPA	5
USCG GST	4
START	5
Total Response Personnel	approximately 120

CURRENT RELEASE AND RECOVERY ESTIMATES

Current Release Estimate – 3,300 bbl to 4,000 bbls[1]

REPORTING SCHEDULE

Situation Reports (SITREPS) will be delivered daily at 1800 hours EST.

CURRENT OPERATIONS

1) **Environmental Sampling and Impacts**
   a. Air Monitoring
      - CTEH continued performing 24-hour mobile air monitoring near the incident area, the homes located northwest of the incident area, and along County Road 1, County Road 12, County Road 13, River Road, and Crest Road. Air monitoring results from 0600 hours CDT on November 2, through 0600 hours CDT on November 3 indicated no detections above site action levels, except for particulate matter 2.5 micrometers or less (PM2.5). Air monitoring results indicated spikes in the PM2.5 worker (2.69 mg/m3) action levels near the incident area and along River Road near the residences located northwest of the incident area.
      - CTEH continued analytical air sampling at five locations near the homes located northwest (Bent Pine Drive) and southeast of the incident area and along County Roads 1, 13, and 251. Analytical air monitoring began at three locations on October 31, 2016, at the homes located northwest of the incident area on Bent Pine Drive and County Road 13. On November 2, analytical air sampling was expanded to the five locations listed above. The air sample located on Bent Pine Drive was moved to the intersection of Bent Pine Drive and County Road 13.
      - CTEH obtained a subscription ID and password to upload air sampling data to the SCRIBE database. This will allow EPA to analyze air monitoring results in real-time.
   b. Water/Sediment Sampling and National Resources Damage Assessment (NRDA)
      - Colonial Pipeline contractor completed the environmental sampling plan, as well as, prepared for performing a natural resources damage assessment (NRDA).
      - Environmental Planning Specialists (EPS) collected surface water samples at three locations along the Cahaba River and a collocated surface water and sediment sample at two location along Shades Creek.

2) **Local Response Actions**
   - Distillates Line #2 was unearthed during the night and inspected by Colonial Pipeline (CP). CP determined there was no damage and returned to the pipeline to service.
   - TORs (Threaded O-Rings) were placed overnight in accordance with the Drain-Up Plan[2] and CP has been constructing an earthen berm around the leak area while an evacuation plan and other operational considerations are being vetted prior to extinguishing the fire.
   - Local fire personnel monitored the fire during the night and through the day as it continued to burn.
   - The air space restriction to 1,500 feet and a 1.5 mile radius around the incident area remains in effect until 0000 hours on November 4, 2016. The temporary flight restriction has been extended until 0000 hours on November 7, 2016.
   - The site decontamination plan was completed and approved.

- There was a berm created down below the leak site where the fire is burning. There are also containment and recovery measures in place for evacuation of product from the pipeline and other pipeline operations.

3) **Health and Safety**
   - National Transportation Safety Board personnel continued to conduct site incident investigation.
   - Health and Safety will be elevated over the next operational period as pipeline work is taking place.

4) **Fuel Supply**
   - Line #2 is in full operation, it moves heavier/industrial product (e.g. diesel, jet fuel, kerosene).
   - Region 4 worked with EPA Headquarters to address fuel waiver requests from the impacted States. Today, November 3, there was a fuel waiver granted for a reformulated gas blend, signed by the EPA Administrator.

PLANNED RESPONSE ACTIVITIES

- Continue water and sediment sampling at three locations along the Shades Creek as access permits.
- Continue efforts to gain access for well water sampling at residences near the incident area.
- Continue efforts to evacuate gasoline from the pipeline in preparation of repair at the incident site.
- Complete installation of interceptor trench and underflow dam in the pond southeast of the incident area.
- Continue air monitoring and sampling through CTEH. Continue air monitoring through USCG GST.
- Complete preparation of the Restoration of Services Plan (RSP).
- Continue preparing and releasing updates for the media outlets.

Christopher Tripp - On-Scene Coordinator

U.S. Environmental Protection Agency, Region 4 | 61 Forsyth St SW | Atlanta, Georgia | 30303

Emergency Response, Removal and Prevention Branch (ERRPB)

office: **404-562-8745** | cell: **470-426-3336**

epaosc.org

[1] I barrel (bbl) = 42 gallons

[2] The Drain-Up Plan is a plan to evacuate product from the pipeline.

<Colonial Pipeline Rupture_SITREP4_110316.pdf>

Pressley, Miriam

From: Buerki, Karen
Sent: Thursday, January 19, 2017 10:19 AM
To: Pressley, Miriam
Subject: Fw: Special ERNS Report - NRC#1162982, Colonial Gasoline Pipeline Rupture and Fire, Pelham, Shelby County, AL

From: Buerki, Karen
Sent: Tuesday, November 1, 2016 2:09 AM
To: Eichinger, Kevin
Subject: Re: Special ERNS Report - NRC#1162982, Colonial Gasoline Pipeline Rupture and Fire, Pelham, Shelby County, AL

They want to call it CR251.

Sent from my iPhone

On Oct 31, 2016, at 7:00 PM, Eichinger, Kevin <Eichinger.Kevin@epa.gov> wrote:

> Bryan,
>
> Following up to our phone conservation at 1716 hours. Please deploy two START Team Member with the Response Truck (Box Truck) to assist OSC Buerki at the Colonial Gasoline Pipeline Rupture and Fire. Your initial site ceiling is $20,000. Contact OSC Buerki at 404-229-9516 and coordiante logistics with her directly.
>
> Kevin
>
> ---
>
> **From:** Eichinger, Kevin
> **Sent:** Monday, October 31, 2016 7:29 PM
> **Subject:** Special ERNS Report - NRC#1162982, Colonial Gasoline Pipeline Rupture and Fire, Pelham, Shelby County, AL
>
> **NRC#1162982, Colonial Gasoline Pipeline Rupture and Fire, Pelham, Shelby County, AL**
>
> NOTE: The incident is involving and information is fluid at this time.
>
> On October 31, 2016 at 1704 hours, Colonial Pipeline reported to the National Response Center that a third party struck a 36" below ground gasoline pipeline and the gasoline exploded and caught fire. Two workers were severely burned and air lifted to a trauma center. Three workers were transported by ambulance to a local hospital. One workers self-transported to local hospital. One worker is currently missing.

This pipeline is the same line that ruptured in September. The line is currently on fire and there are numerous large brush fires in the area. The pipeline is shut down and Colonial Pipeline is currently reporting that they have spilled 4000 barrels. On-Scene Coordinator (OSC) Karen Buerki, OSC Jardine (from the 35th Avenue Removal Site), Superfund Technical Assessment and Response Team (START) Contractors and the United States Coast Guard, Gulf Strike Team are responding. OSC Booth will respond in the morning to assist.

The US Department of Interior (DOI) Region 4 Representative, Alabama Department of Environmental Management (ADEM), and Shelby County Emergency Management Agency (EMA) has been notified. ADEM State OSC and Shelby County EMA Director are on scene.

The rupture is adjacent to Shades Creek, in a relatively remote location. Shades Creek is a tributary of the Cahaba River. Contractors for Colonial are establishing containment boom locations and assessing the creek as best as possible. At this time, responders believe that the fuel is burning and not releasing to the ground. Crews. Both Local and National Media interested is high.

Kevin Eichinger, CHMM - On-Scene Coordinator and Industrial Hygienist
U.S. Environmental Protection Agency, Region 4 | 61 Forsyth St SW | Atlanta, Georgia | 30303
Emergency Response, Removal and Prevention Branch (ERRB)
office: **404-562-8268** | cell: **678-897-3759** | epaosc.org

Pressley, Miriam

From: Buerki, Karen
Sent: Friday, January 20, 2017 1:55 PM
To: Pressley, Miriam
Subject: Fw: Management objectives

From: Moore, Tony
Sent: Wednesday, November 2, 2016 1:30 PM
To: Buerki, Karen; Jardine, Rick
Subject: FW: Management objectives

From: Webster, James
Sent: Tuesday, November 01, 2016 1:47 PM
To: Moore, Tony <moore.tony@epa.gov>
Subject: Management objectives

Tony,
(b) (5)

-
-
-
-
-
-
-

James W. Webster, Ph.D., Chief
Emergency Response, Removal and Prevention Branch
Superfund Division
U.S. Environmental Protection Agency, Region 4

To: Hill, Franklin[Hill.Franklin@epa.gov]
Cc: Heard, Anne[Heard.Anne@epa.gov]; Hicks, Javoyne[Hicks.Javoyne@epa.gov]
From: McTeerToney, Heather
Sent: Tue 11/1/2016 7:00:29 PM
Subject: Re: [redacted]
MAIL_RECEIVED: Tue 11/1/2016 7:00:30 PM

Do you have a call in number for the sitrep?
Heather

Sent from my iPhone

On Nov 1, 2016, at 1:55 PM, Hill, Franklin <Hill.Franklin@epa.gov> wrote:

More details to come in this afternoon Sitrep at 5:00

Sent from my iPhone

Begin forwarded message:

From: "Tripp, Christopher" <tripp.christopher@epa.gov>
Date: November 1, 2016 at 2:19:36 PM EDT
To: "Hill, Franklin" <Hill.Franklin@epa.gov>
Cc: "Webster, James" <Webster.James@epa.gov>
Subject: [redacted]

<Document1.docx>

To: Hill, Franklin[Hill.Franklin@epa.gov]; McTeerToney, Heather[McTeerToney.Heather@epa.gov]; Heard, Anne[Heard.Anne@epa.gov]
From: Hicks, Javoyne
Sent: Tue 11/1/2016 6:58:07 PM
Subject: RE: [redacted]
MAIL_RECEIVED: Tue 11/1/2016 6:58:08 PM

Thanks!

Javoyne Hicks

hicks.javoyne@epa.gov

404-562-8357

From: Hill, Franklin
Sent: Tuesday, November 1, 2016 2:56 PM
To: McTeerToney, Heather <McTeerToney.Heather@epa.gov>; Heard, Anne <Heard.Anne@epa.gov>; Hicks, Javoyne <Hicks.Javoyne@epa.gov>
Subject: Fwd: [redacted]

More details to come in this afternoon Sitrep at 5:00

Sent from my iPhone

Begin forwarded message:

From: "Tripp, Christopher" <tripp.christopher@epa.gov>
Date: November 1, 2016 at 2:19:36 PM EDT
To: "Hill, Franklin" <Hill.Franklin@epa.gov>
Cc: "Webster, James" <Webster.James@epa.gov>
Subject: [redacted]

To: Cheatham, Reggie[cheatham.reggie@epa.gov]
From: Hill, Franklin
Sent: Tue 11/1/2016 9:12:05 PM
Subject: Fwd: [redacted]
MAIL_RECEIVED: Tue 11/1/2016 9:12:06 PM
Document1.docx
ATT00001.htm

Sent from my iPhone

Begin forwarded message:

From: "Tripp, Christopher" <tripp.christopher@epa.gov>
Date: November 1, 2016 at 2:19:36 PM EDT
To: "Hill, Franklin" <Hill.Franklin@epa.gov>
Cc: "Webster, James" <Webster.James@epa.gov>
Subject: [redacted]

[redacted] Incident Report

- On October 31, 2016, at 1455 CST, during a repair of the main gasoline pipeline, a Colonial Pipeline contractor caused a rupture within the pipeline causing an explosion and fire. The location of the incident is in Pelham, AL. The release point is approximately 3/4 – 1 mile from the September incident.
- There has been one confirmed fatality and six workers were transported to the area hospitals. One person originally reported as missing, has since been located.
- The pipeline has been shut down. The ensuing affects to the regional gasoline supply is undetermined. Colonial Pipeline will make a statement on that issue in the near future. The Air program is coordinating with the potentially affected States. (Waiver issues?)
- There are currently four On-Scene Coordinators deployed to the incident with START and USCG Strike Team supporting. Total personnel: 12
- EPA is embedding itself within the Colonial incident command structure.
- At this point, there has been no known impact to any water body. Defensive measures are being installed to contain and prevent any potential releases (e.g. underflow dams, interception trenches, defensive boom configurations)
- There are known endangered species in the area, that information has been coordinated with US Fish and Wildlife.
- We have background analytical water data from the September release that can be used as a baseline. EPA plans to collect independent water samples to determine any current impact to the area waters and monitor for contaminants.
- The fire is ongoing. The plan is to let the fuel burn itself out. The pipeline volume in that area, provided by Office of Pipeline Safety, is 3300 barrels (138,600 gal). The estimated duration of the burn out has not been determined.
- A no-fly zone has been established around the site.

To: McTeerToney, Heather[McTeerToney.Heather@epa.gov]; Heard, Anne[Heard.Anne@epa.gov]; Hicks, Javoyne[Hicks.Javoyne@epa.gov]
From: Hill, Franklin
Sent: Tue 11/1/2016 6:55:47 PM
Subject: Fwd: [redacted]
MAIL_RECEIVED: Tue 11/1/2016 6:55:48 PM
Document1.docx
ATT00001.htm

More details to come in this afternoon Sitrep at 5:00

Sent from my iPhone

Begin forwarded message:

From: "Tripp, Christopher" <tripp.christopher@epa.gov>
Date: November 1, 2016 at 2:19:36 PM EDT
To: "Hill, Franklin" <Hill.Franklin@epa.gov>
Cc: "Webster, James" <Webster.James@epa.gov>
Subject: [redacted]

To: McTeerToney, Heather[McTeerToney.Heather@epa.gov]
From: Hill, Franklin
Sent: Tue 11/1/2016 7:09:46 PM
Subject: Re: [redacted]
MAIL_RECEIVED: Tue 11/1/2016 7:09:47 PM

No Heather the situation report is being developed as details from the field come in from operations

Sent from my iPhone

On Nov 1, 2016, at 3:00 PM, McTeerToney, Heather <McTeerToney.Heather@epa.gov> wrote:

> Do you have a call in number for the sitrep?
> Heather
>
> Sent from my iPhone
>
> On Nov 1, 2016, at 1:55 PM, Hill, Franklin <Hill.Franklin@epa.gov> wrote:
>
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>>
>> Sent from my iPhone
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>>
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>> **Date:** November 1, 2016 at 2:19:36 PM EDT
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>> <Document1.docx>

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- A no-fly zone has been established around the site.

To: Kodish, Jeff[Kodish.Jeff@epa.gov]
Cc: White, Thomas[Thomas.White@hq.doe.gov]; Connell, John[Connell.Johnc@epa.gov]
From: Brusstar, Daniel
Sent: Wed 11/2/2016 9:44:18 PM
Subject: Re: Colonial pipeline

Hi Jeff,
I am traveling this week but I will call you or Tom tomorrow morning. The fire had a big impact for one day, and then Colonial announced that they would have the line repaired by the weekend. Today the gasoline market was down almost 4 cents on the news. NY Harbor is less dependent on Colonial Pipeline as compared to the Southeastern U.S markets from Florida up to Virginia.

I can provide more details by phone.
Thanks
Dan

Sent from my iPhone

On Nov 2, 2016, at 9:55 PM, Kodish, Jeff <Kodish.Jeff@epa.gov<mailto:Kodish.Jeff@epa.gov>> wrote:

Dan - I am sending this email as a follow up to the phone message I left for you earlier today. I would appreciate it if you can give me or Tom White from DOE (cc'd on this email) a call to discuss the impact of the Colonial pipeline fire on fuels supplies in NYH.

You can reach me at the number below, or you can reach Tom at (202) 586-1393.

Thank you.

Jeffrey A. Kodish
Fuels Team Leader
Attorney-Adviser
OECA/AED/Western Field Office (8MSU)
1595 Wynkoop Street
Denver, Colorado 80202

Tel: 303-312-7153
Fax: 303-312-6003

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To: Brooks, Phillip[Brooks.Phillip@epa.gov]; Chapman, Apple[Chapman.Apple@epa.gov]
From: Kodish, Jeff
Sent: Thur 11/3/2016 1:56:52 PM
Subject: FW: Colonial pipeline

FYI

-----Original Message-----
From: Brusstar, Daniel [mailto:Daniel.Brusstar@cmegroup.com]
Sent: Wednesday, November 02, 2016 3:44 PM
To: Kodish, Jeff <Kodish.Jeff@epa.gov>
Cc: White, Thomas <Thomas.White@hq.doe.gov>; Connell, John <Connell.Johnc@epa.gov>
Subject: Re: Colonial pipeline

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To: Le, Madison[Le.Madison@epa.gov]; Gustafson, Kurt[Gustafson.Kurt@epa.gov]; Manners, Mary[manners.mary@epa.gov]
From: Kodish, Jeff
Sent: Wed 11/2/2016 10:44:22 PM
Subject: FW: Colonial pipeline

FYI

-----Original Message-----
From: Brusstar, Daniel [mailto:Daniel.Brusstar@cmegroup.com]
Sent: Wednesday, November 02, 2016 3:44 PM
To: Kodish, Jeff <Kodish.Jeff@epa.gov>
Cc: White, Thomas <Thomas.White@hq.doe.gov>; Connell, John <Connell.Johnc@epa.gov>
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Group information systems.

To: Daniel.brusstar@cmegroup.com[Daniel.brusstar@cmegroup.com]
Cc: White, Thomas[Thomas.White@hq.doe.gov]; Connell, John[Connell.Johnc@epa.gov]
From: Kodish, Jeff
Sent: Wed 11/2/2016 8:55:54 PM
Subject: Colonial pipeline

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You can reach me at the number below, or you can reach Tom at (202) 586-1393.

Thank you.

Jeffrey A. Kodish

Fuels Team Leader

Attorney-Adviser
OECA/AED/Western Field Office (8MSU)
1595 Wynkoop Street
Denver, Colorado 80202

Tel: 303-312-7153
Fax: 303-312-6003

To: Lincoln, Larry[Lincoln.Larry@epa.gov]
Cc: Lovett, Queen[Lovett.Queen@epa.gov]
From: Lovett, Queen
Sent: Fri 11/4/2016 10:06:06 PM
Subject: OExA Detailed Weekly Summary-10-31-11-4-2016
OExA Detailed Weekly Summary-10-31-11-4-2016.docx

Larry,

Attached, the OExA Detailed Weekly Summary for October 31st through November 4th.

Thanks!

Queen Lovett

U.S. Environmental Protection Agency – Region 4

Office of External Affairs

61 Forsyth Street, SW, Suite 9T25

Atlanta, Georgia 30303

Direct Voice Mail Telephone Number: (404) 562-8319

Main Office Telephone Number: (404) 562-8327

E-mail: Lovett.queen@epa.gov

11/4/2016

OExA
Detailed Weekly Summary
October 31, 2016 through November 4, 2016

Press Inquiries

Lanetra Bennet – WCTV, Tallahassee – Due to the lead being found in the drinking water in Leon County elementary schools, the reporter has questions on EPA lead drinking water standards. **Referred to HQ. (Closed)**

Eric Gutierrez - Fernandina Beach News-Leader – Would like to know the difference between brownfields and NPL sites. **Coordinated response w/ Barbara Alfano. (Closed)**

Trent Butler - WAFF-TV, Birmingham – The reporter has questions on coal ash based on a letter EPA recently sent to TVA. **Referred to HQ. (Closed)**

Ryan Phillips - The Weather Channel – Provided a telephone interview to update the reporter on EPA activities at the Colonial Pipeline Explosion site. (Closed)

Daron Diamond - WSB-TV Channel 2, Atlanta, GA - Provided an on-camera interview to update the reporter on EPA activities at the Colonial Pipeline Explosion site. (Closed)

Marlei Martinez – WVTM NBC 13 - Provided an on-camera interview to update the reporter on EPA activities at the Colonial Pipeline Explosion site. (Closed)

Valerie Volcovici – Reuters – The reporter's looking for any comment out of various agencies on the Colonial pipeline explosion. Has EPA issued a statement or do you defer to other agencies (PHMSA, etc)? Will provide on 11/3. **(Open)**

Curtis Tate - Washington Correspondent, McClatchy Newspapers – The reporter wants to know if Colonial has been living up to the terms of its 2003 settlement agreement with EPA and DOJ. Awaiting on response from R4 Water Division. **(Open)**

Conner Sheets – AL.com – The reporter's request is as follows: I would just like to know if you could comment on what the EPA and Colonial will do now to ensure there are no more negative impacts or problems going forward. Will you and the company have to put various contingency plans in place and do readings or take other steps to ensure that no further negative impacts take place? Will you and the company have to do work to ensure the pipeline doesn't break again? What role will the agency play in that process? These questions all dovetail with my last email which included an attached contingency plan in that I'd be interested to know if similar plans are being formulated in response to the Monday explosion.

I'm just interested to hear a bit about what the protocol is for the wake of an incident like this, and what the company and EPA will need to do in the coming days and weeks to minimize further damage, test for potential problems and address any underlying issues. (Closed)

Steve Ahillen, Knoxville News Sentinel - Responded on 11/4/2016, in conjunction with EPA Headquarters on the status of air quality in Knoxville, TN. (Closed)

Responded to an inquiry on 11/4/2016, from Louisville Courier-Journal on Food Waste in Kentucky. (Closed)

EPA Media Activities and Inquiries 11/1/16

PIO integration into the unified command, SME preparation for a press conference held by the Helena Mayor and Sheriff at 2pm and responding to individual media calls. Alabama Congressman Gary Palmer visited the Incident Command Post at 11am.

The following media outlets contacted our office with questions concerning EPA involvement at the incident site.

Thomas Allen - WVTM 13 – NBC

Melanie Posey - WBRC – FOX 6

Press Releases

11/4/2016	Issued a press release for the CitySpace research project in Memphis, TN
11/2/2016	Issued a press release announcing the public meeting for the Lee's Lane Landfill on Thursday, November 3, 2016
11/2/2016	Issued a press release announcing the public meeting for Campbell Hausfeld in Leitchfield, KY

Public Meetings/Presentations/Desk Statements

There are none to report at this time.

HQ Press Release Amplification

10/28/2016	EPA Issues Rule Finalizing Changes to Existing Hazardous Waste Export and Import Regulations
10/28/2016	EPA Announces First ONE Future Commitments Under Methane Challenge Program
11/2/2016	Automakers Outperform Greenhouse Gas Emissions Standards for 4th Consecutive Year
11/3/2016	EPA Enforcement Actions Help Protect Vulnerable Communities from Lead-Based Paint Health Hazards

Social Media

Developing new #WaterWednesday material.

Web Duties

Research on a possible internal communication strategy.

Update state webpages.

Product Review (PROTRAC)

Review and approval of the Gulf of Mexico material.

Other

Continue to coordinate Water Wednesday messaging with the Water Division.

Participated HQ Office of Water communications meeting/conference call.

Participated on OPS Colonial Pipeline Fire conference call.

Environmental Education/Outreach

There are none to report at this time.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
Atlanta Federal Center
61 Forsyth Street
Atlanta, Georgia 30303-3104

MEMORANDUM

DATE: November 4, 2016

SUBJECT: Superfund Division Weekly Report

FROM: Franklin E. Hill, Director
Superfund Division

TO: Superfund Division

Attached for your use is Superfund Division Weekly Accomplishments Report. This report provides a summary of the day-to-day activities and accomplishments across the various programs within the Superfund Division. I appreciate your continued efforts in support of our mission to protect human health and the environment and to highlight your key accomplishments on a weekly basis.

Sf Restoration & Site Evaluation Branch

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