Hurricane Harvey 2017
9/4/2017 – 0700 CDT Update

EXECUTIVE SUMMARY

- The remaining peroxide trailers at the Arkema facility were manually ignited in a controlled method to eliminate the risk of an uncontrolled event.
- A staging area was secured for the Beaumont branch and two OSCs will be mobilizing there tomorrow.
- Field response activities continued at both the Corpus Christi and Houston Branches. As areas are evaluated, the focus changes from assessment to recovery.
- Multiple Superfund Phase 2 Site inspections are planned for the next two operational periods. One Superfund Phase 2 inspection was completed this operational period.

PUBLIC AFFAIRS

A Field Public Information Officer (PIO) was mobilized to the Houston Mayor's Office on September 3 and began operating out of the Houston Emergency Center. The liaison has been asked to provide daily updates on EPA activity in Houston.

EPA issued a joint statement with the Texas Commission on Environmental Quality about a controlled burn of materials at the Arkema facility in Crosby, Texas. The Crosby Volunteer Fire Department and the Harris County Fire Marshall's Officer performed the burn.

ARKEMA

<u>EPA/TCEQ statement on controlled ignition of trailers at Arkema facility in Crosby</u>

The U.S. Environmental Protection Agency and the Texas Commission on Environmental Quality released the following statement along with Unified Command regarding the decision to conduct a controlled ignition of remaining trailers at Arkema's facility in Crosby:

It is the understanding of personnel on the ground that the remaining trailers are at risk of catching fire over the next few days. Rather than risk additional damage to the facility or spreading into the surrounding area, the Crosby Volunteer Fire Department and the Harris County Fire Marshal's Office will perform a controlled burn of the material.

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First responders are outside the evacuation zone, but remain in the area, for quick response to ensure the safety of the community around the facility.

We continue to monitor smoke and air quality, the potential for additional fires in the area, and have aerial assets ready to be deployed, as needed. Everyone in the area should follow the safety instruction of local authorities, specifically staying out of the evacuation zone, avoiding smoke and flood waters.

Additional Background:

As with all smoke, people can limit the potential for adverse health effects by limiting their exposure. This includes staying indoors with doors and windows closed and running the air conditioning (if possible) with the fresh intake closed. If it is absolutely necessary to be outdoors, try to move out of the plume of smoke and minimize heavy work, exercise, or children's playtime.

BEAUMONT/PORT ARTHUR

EPA has secured an operational staging area in the parking lot of the Central Mall, adjacent to the U.S. Coast Guard (USCG) Marine Safety Unit (MSU) in Port Arthur. Two EPA OSCs are mobilizing from Houston tomorrow along with GIS/Data Support. Currently, most of the area is still inaccessible due to flooding. EPA will continue to coordinate with local, state and federal response partners to plan for further assessment and potential response actions once the flood waters recede. The priority for the next operational period is to set up command posts with work space and continue developing an operational structure to begin field operations.

DEBRIS RECOVERY

No new information.

AIR MONITORING

EPA's mobile air monitoring Trace Atmospheric Gas Analyzer (TAGA) bus along with EPA personnel will be arriving in Houston today.

The Louisiana Department of Environmental Quality has offered EPA the used of its Mobile Air Monitoring Lab to collect air data in the Beaumont/Port Arthur area.

An EPA Team began mobile air monitoring in the Manchester community (Houston Branch). At least six locations were monitored, all monitoring results were at background conditions.

EMERGENCY RESPONSE

Daily/Cumulative Summary of Hazard Evaluations/Recovery				
Status	**Opened**		**Closed**	
	9/3/2017	**Cumulative**	**9/3/2017**	**Cumulative**
Corpus Christi Branch	6	43	11	50
Houston Branch	26	94	7	10
NRC Reports	0	3	0	0
* Note: Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.				

Daily/Cumulative Summary of Spills/Discharges				
Status	**Opened**		**Closed**	
	9/3/2017	**Cumulative**	**9/3/2017**	**Cumulative**
Corpus Christi Branch	9	339	2	28
Houston Branch	0	30	2	3
NRC Reports	2	21	0	7

WATER SYSTEMS ASSESSMENT

No new information overnight.

SUPERFUND INSPECTIONS PLANNED

The updated Status/Schedule for NPL Inspections is below:

- Phase 1 – 41 sites completed 9/1/17
- Phase 2 – 11 sites require inspection
    - Planned
        - San Jacinto – 9/4/17 Miller
        - Highlands Acid Pit – 9/4/17 Miller
        - French Ltd. – 9/5/17 Sullivan
        - Gulfco Marine – 9/5/17 Abshire
        - Malone Services – 9/5/17 Miller
        - Patrick Bayou – 9/5/17 Abshire
        - Petro-Chemical Systems – 9/5/17 Abshire
        - Triangle Chemical – 9/5/17 Sullivan
        - US Oil Recovery – 9/4/17 Miller
        - Bailey Waste – 9/5/17 Sullivan
        - Geneva – **complete 9/3/17**

FIELD RESPONSE ACTIVITIES

As areas are evaluated, the focus changes from assessment to recovery. Several additional Oil Recovery and Container Recovery teams were added to both the Corpus Christi Branch and Houston Branch.

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The table below displays the teams deployed in the Corpus Christi and Houston Branches during this operational period:

Quantity and Types of Teams Deployed 9/3/2017		
Team Type	**Corpus Christi Branch**	**Houston Branch**
Water Assessment Teams	1	8
Hazard Evaluation	2	8
Oil Discharge Assessment	3	5
Container Recovery	0	2
Oil Recovery Group	2	0
ER/Recovery Group	1	0
Arkema Group	0	1
Air Operations Group	0	2

CORPUS CHRISTI BRANCH:

- Pre-sampling of staging area pads completed.
- ER/Recovery Group: Six hazardous material drums were discovered near a recreational area in Victoria, TX and removed.
- Oil Discharge Assessment Group: In Mesquite Bay, a team discovered an oil sheen. The suspected source is a nearby oil production platform. No ongoing discharge was observed.
- A total of 73 orphan containers have been collected to date.

	CONTAINERS			**TOTAL**
	Drums [55 gals]	**Large Containers [<55 gals]**	**Large Containers [>55 gals]**	
9/3/2017	7	0	0	7
Total to date	39	32	2	73

HOUSTON BRANCH:

- Site assessments were completed at 24 public water systems and 14 wastewater treatment facilities.
- Response activities focused on reconnaissance and assessment – no orphan container recovery was conducted.

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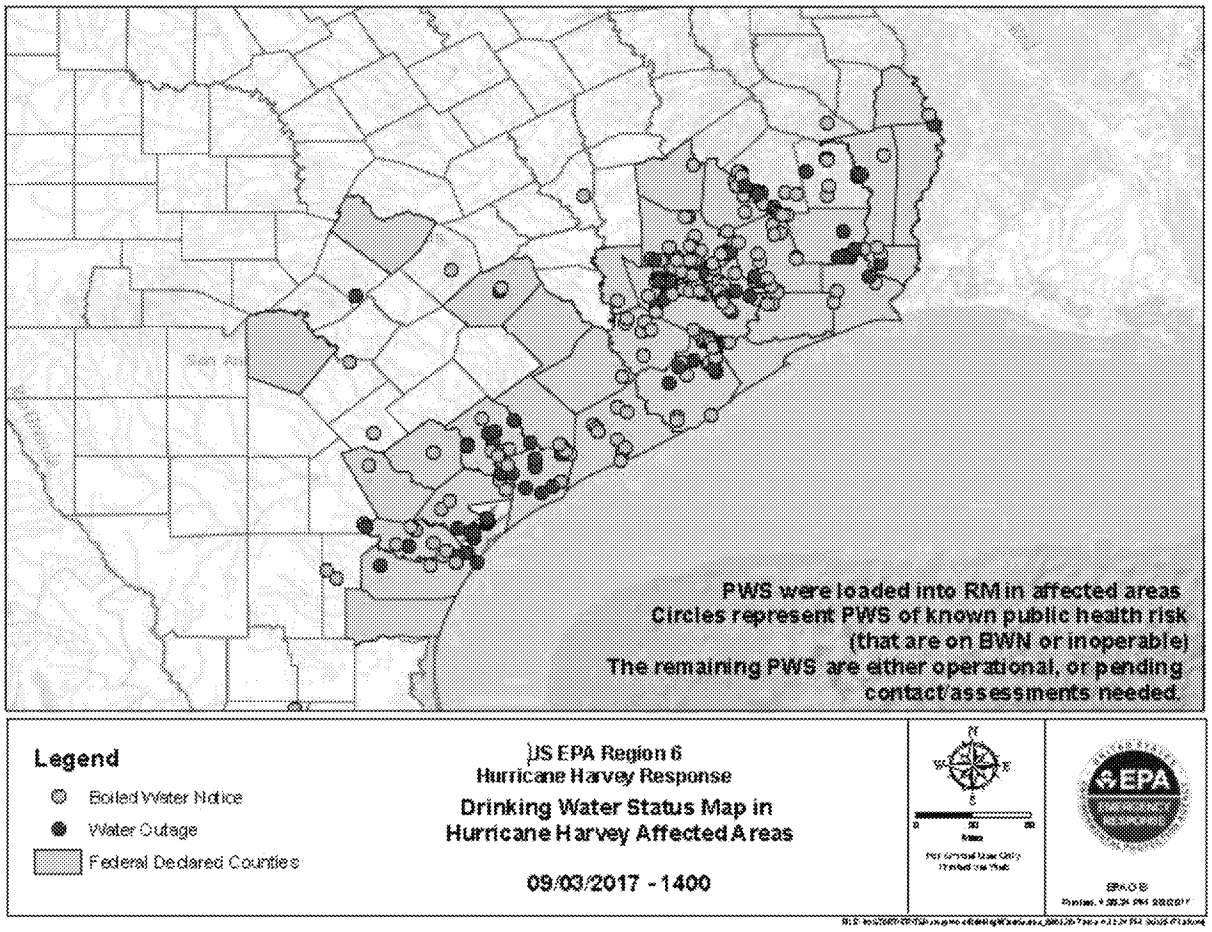
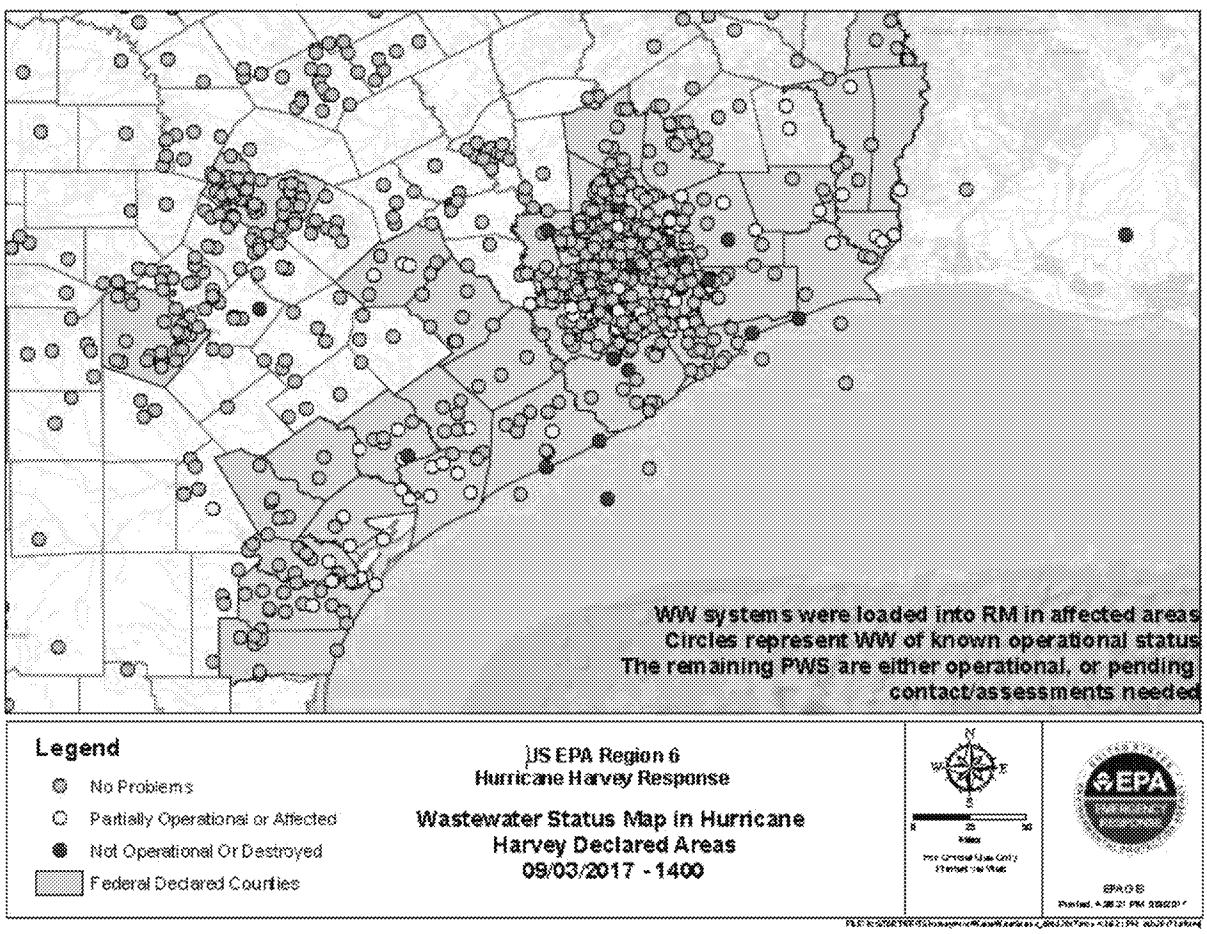
SPILL/RELEASE RESPONSE

Hotline Calls as of September 4, 2017	
Number of Harvey Related Calls Received During Reporting Period 1300-0100	3
Total Number of Harvey Related Calls to Date	139
* EPA is assessing each call to determine appropriate response and forwarding reports to field personnel to conduct further assessments and response as needed.	

DRINKING WATER / WASTEWATER ASSESSMENTS

EPA continues to support TCEQ in contacting drinking water and waste water systems with 10 personnel manning TCEQ's Drinking Water and Waste Water Phone Bank located in Austin.

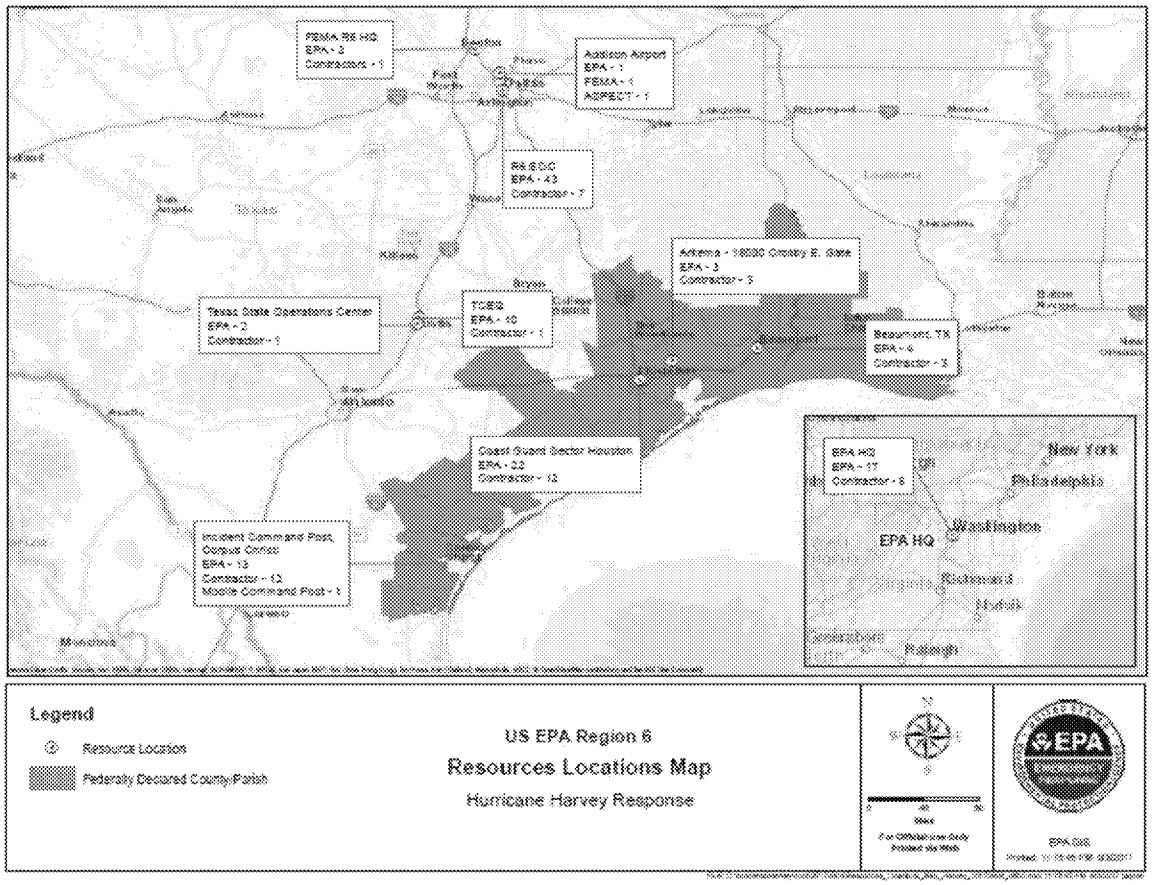




EPA RESOURCES

Personnel	EPA Dallas, TX	FEMA Denton, TX	TX SOC Austin, TX	TCEQ Austin, TX	*Houston, TX	Crosby, TX	Corpus Christi, TX	HQ EOC, Wash, DC	TOTAL
EPA	43	2	2	10	22	3	13	17	111
START	7		1	1	12		6		27
ERRS					7		8		15
Other Contractors	1							6	7
TOTAL	53	1	3	11	39	3	27	23	163

*Includes staff for Beaumont



FUNDING
SEPTEMBER 3, 2017

Funding Sources	Funding Ceiling	Funding Ceiling Less Indirect	Spent to Date	Remaining Balance	Daily Burn Rate	Days Remaining
Non Mission Assignment	N/A		$64,200.00	$0.00		25.15
MA 4332DR-TX-EPA-01	$20,000.00	$17,654.00	$0.00	$17,654.00		
MA 4332DR-TX-EPA-03	$8,592,000.00	$7,584,077.00	$2,628,702.00	$4,955,375.00	$197,752.84	
Totals:	$8,612,000.00	$7,601,731.00	$2,692,902.00	$4,973,029.00		

** Indirect costs represent the money the Cincinnati Shared Service Center takes off the top to manage the Mission Assignments

*Burn rate does not include daily ERRS amounts, not yet received. The burn does include START & ASPECT.

REFINERIES/FUEL WAIVERS

No New Information.

The Department of Energy authorized the Strategic Petroleum Reserve (SPR) to negotiate and execute an emergency exchange agreement with the Phillips 66 Lake Charles Refinery. This decision will authorize 200,000 barrels of sweet crude oil and 300,000 barrels of sour crude oil to be drawn down from SPR's West Hackberry, Louisiana (LA) site and delivered via pipeline to the Phillips 66 refinery.

Four No Action Assurance (NAA) letters were signed by EPA on September 1, 2017, to help address fuel shortages. NAAs will help expedite the distribution of existing gasoline supplies in

both Texas and Louisiana while the refineries work to re-start and resume normal operations. For each NAA, EPA will exercise discretion not to pursue enforcement for violations of the regulations identified in the NAAs. Each NAA is effective for two weeks, or until September 15. It is anticipated that these NAAs will allow for the immediate distribution in Texas of 10 million or more gallons of gasoline to consumers.

Texas NAA for Vapor Recovery Systems: Several federal regulations and the Texas State Implementation Plan (SIP) require that bulk gasoline, marine, and rail loading terminals operate a vapor control system to collect the fuel vapors displaced from tank trucks during product loading. This NAA allows the loading and unloading of fuel at terminals that have damaged or inoperable vapor recovery devices or that are otherwise not equipped with such devices.

Texas NAA for Truck Loading at Petroleum Distribution Terminals: Several federal regulations and the Texas SIP require that gasoline tank trucks obtain testing and certification that the tank trucks are vapor tight. This NAA allows tank trucks to load and unload fuel at terminals even though the trucks may not be registered with the terminals as having completed all the testing for tank tightness or have the documentation on hand to prove it.

Texas NAA for Roof Landings at Gasoline Storage Vessels: This relates to several federal regulations and the Texas SIP covering storage vessels with external floating roofs. Specifically, when the operator removes product from the vessel such that the roof lands on the vessel's legs, such action must be a continuous motion, i.e. the process of re-filling the vessel must begin immediately after roof landing. This NAA will allow roof landings without requiring immediate re-filling of the vessel.

Louisiana NAA for Truck Loading at Petroleum Distribution Terminals: Several federal regulations and the Louisiana SIP require that gasoline tank trucks obtain testing and certification that the tank trucks are vapor tight. This NAA allows tank trucks to load and unload fuel at terminals even though the trucks may not be registered with the terminals as having completed all the testing for tank tightness or have the documentation on hand to prove it.

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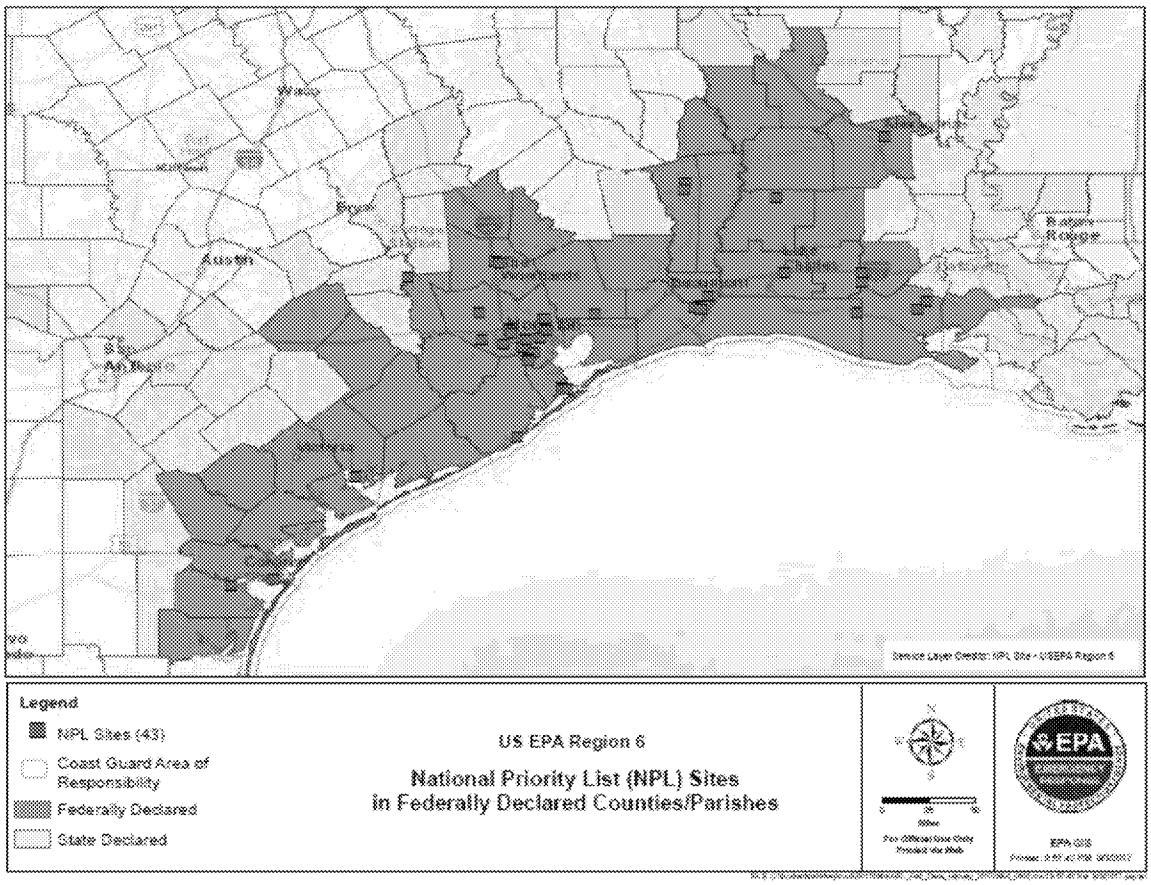
SUPERFUND NPL SITES



SUPERFUND NPL SITES (Continued)

Superfund Sites within Federally Declared Counties					9/4/2017
Hurricane Harvey Rapid Response Assessment	Phase 1	Phase 2		Phase 3	All Phases Completed
Site Name	Rapid Response Assessment	Site Inspection Needed	Inspected	Additional Response Action	
TEXAS					
ALCOA (Point Comfort) / LAVACA BAY	8/29/2017	No			8/29/2017
BAILEY WASTE DISPOSAL	9/1/2017	Yes			
BRINE SERVICE CO.	8/30/2017	Yes	8/30/2017	No	8/30/2017
BRIO REFINING INC.	9/1/2017	No			9/1/2017
CONROE CREOSOTING COMPANY	9/1/2017	No			9/1/2017
CRYSTAL CHEMICAL CO.	8/30/2017	No			8/30/2017
DIXIE OIL PROCESSORS INC.	9/1/2017	No			9/1/2017
FALCON REFINERY	8/30/2017	Yes	8/30/2017	No	8/30/2017
FRENCH, LTD.	9/1/2017	Yes			
GENEVA INDUSTRIES / FUHRMANN ENERGY	9/1/2017	Yes	9/3/2017	No	9/3/2017
GULFCO MARINE MAINTENANCE	9/1/2017	Yes			
HARRIS (FARLEY STREET)	9/1/2017	No			9/1/2017
HART CREOSOTING	9/1/2017	No			9/1/2017
HIGHLANDS ACID PIT	9/1/2017	Yes			
JASPER CREOSOTING	9/1/2017	No			9/1/2017
JONES ROAD GROUNDWATER PLUME	8/29/2017	No			8/29/2017
MALONE SERVICES COMPANY	9/1/2017	Yes			
MANY DIVERSIFIED INTERESTS, INC	9/1/2017	No			9/1/2017
MOTCO, INC.	8/31/2017	No			8/31/2017
NORTH CAVALCADE STREET	8/29/2017	No			8/29/2017
PALMER BARGE LINE	9/1/2017	No			9/1/2017
PATRICK BAYOU	9/1/2017	Yes			
PETRO-CHEMICAL SYSTEMS, INC. (Turtle Bayou)	9/1/2017	Yes			
SAN JACINTO RIVER WASTE PITS	9/1/2017	Yes			
SHERIDAN DISPOSAL	9/3/2017	No			9/3/2017
SIKES DISPOSAL PITS	8/29/2017	No			8/29/2017
SOL LYNN / INDUSTRIAL TRANSFORMERS	8/29/2017	No			8/29/2017
SOUTH CAVALCADE STREET	8/29/2017	No			8/29/2017
STAR LAKE CANAL	8/30/2017	No			8/30/2017
STATE MARINE OF PORT ARTHUR	9/1/2017	No			9/1/2017
TEX-TIN CORP.	9/1/2017	No			9/1/2017
TRIANGLE CHEMICAL COMPANY	9/1/2017	Yes			
UNITED CREOSOTING CO.	9/1/2017	No			9/1/2017
US OIL RECOVERY	9/1/2017	Yes			
LOUISIANA					
AMERICAN CREOSOTE DERIDDER	9/1/2017	No			9/1/2017
D.L. MUD, INC.	8/29/2017	No			8/29/2017
EVR-WOOD TREATING/EVANGELINE REFINING COMPANY	9/1/2017	No			9/1/2017
GULF COAST VACUUM SERVICES	8/29/2017	No			8/29/2017
GULF STATE UTILITIES (North Ryan Street)	8/31/2017	No			8/31/2017
MALLARD BAY LANDING BULK PLANT	8/29/2017	No			8/29/2017
PAB OIL & CHEMICAL SERVICE	8/29/2017	No			8/29/2017
SBA SHIPYARD	9/1/2017	No			9/1/2017
RUSTON FOUNDRY	9/3/2017	No			9/3/2017
STATUS SUMMARY					
Rapid Response Assessment Completed	43				
Sites with no further action	33				
Sites in Phase 2	10				

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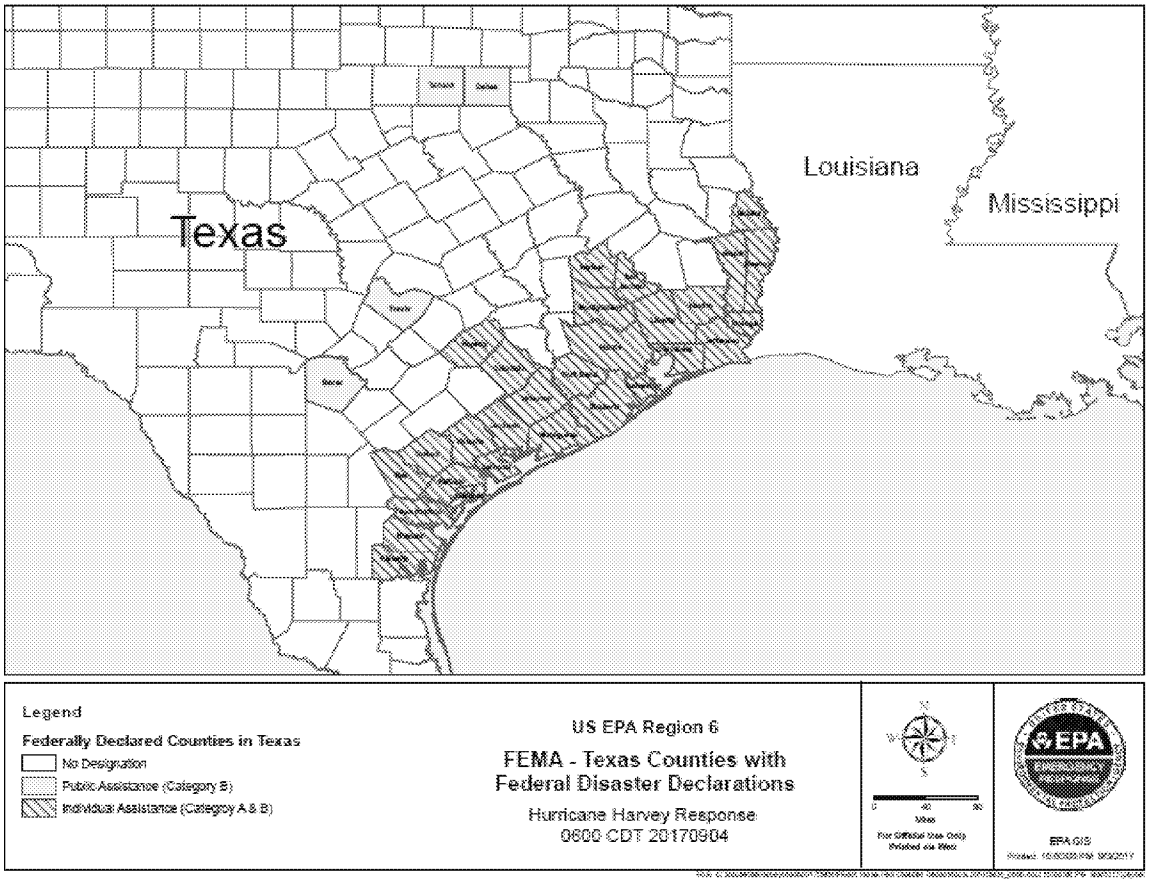
FEMA – TEXAS COUNTIES WITH DISASTER DECLARATIONS