Hurricane Harvey 2017
9/4/2017 – 1500 CDT Update

EXECUTIVE SUMMARY

- The remaining peroxide trailers at the Arkema facility were manually ignited on September 3, 2017 in a controlled method to eliminate the risk of an uncontrolled event. EPA issued a joint statement with the Texas Commission on Environmental Quality about the controlled burn of materials at the Arkema facility in Crosby, Texas.

- Field response activities continued at both the Corpus Christi and Houston Branches. As zones are evaluated, the focus changes from assessment to recovery.

- Two additional Incident Objectives have been added: 1) Establish a vessel recovery strategy 2) Establish a strong interagency partnership with public and private organization to determine ownership and disposition of vessels.

- On the morning of September 4, 2017 the Acting Regional Administrator and advisors to the Administrator met with the Houston Mayor and other local and state officials. The officials toured multiple NPL sites with reporters from several national media outlets in the afternoon.

PUBLIC AFFAIRS

Ken Wagner, a senior advisor to the Administrator for Regional and State Affairs, and a representative of TCEQ Chairman Shaw's office briefed the Mayor of Houston and other local officials this morning at the Houston Emergency Operations Center. Afterwards, several media outlets joined Acting Regional Administrator Sam Coleman, Chairman Shaw and Kel Kelly, special advisor to the Administrator, to tour three Superfund sites targeted for Phase 2 inspections. The 3 sites scheduled for inspection observation were US Oil Recovery, Highland Acid Pits, and San Jacinto River Waste Pits. In the afternoon, a Congressional delegation led by Senator John Cornyn's office was to be briefed by EPA and TCEQ. Information included a recap of resources dedicated to the Hurricane Response, a summary of NPL site inspections in the impacted counties, information on drinking water and wastewater systems, accomplishments and projections of ongoing work, and recent Arkema facility activities.

ARKEMA

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- After a successful controlled burn of the remaining six trailers yesterday, local authorities in coordination with the Harris County Health Department and in consultation with EPA, TCEQ, Harris County Pollution Control, and Arkema, lifted the 1.5-mile radius evacuation order shortly after midnight. As such, Arkema is working with the local authorities to complete the re-population of the residents affected by the evacuation order.
- Incident operations are gradually shifting to assessment of conditions within the facility to determine if re-entry of repair personnel is safe. An operational priority is to establish temporary cooling capabilities within the warehouse where approximately 750K lbs of ambient temperature organic peroxide is currently being stored. This material has a very high self-ignition temperature and does not currently pose an imminent threat of decomposition, but as a precaution and in concurrence with Unified Command, Arkema is proceeding with a temporary cooling system. At this time, the most practical approach is to place four tons of dry ice inside the building where the peroxide is currently being stored.
- At 10:15 a.m. an Arkema and Harris County Fire Marshall's Office assessment team indicated that the building with the remaining peroxide was safe to enter in order to place the dry ice. This determination was made in response to indoor temperature readings. Dry ice placement should be completed by mid-afternoon.
- EPA responders/assets will remain at the site for the remainder of the operational period and demobilize this afternoon.

PORT ARTHUR/BEAUMONT

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 was unable to acquire lodging for the staff of its mobile air monitoring lab and therefore will be unable to assist with air monitoring in Port Arthur/Beaumont.

EPA continues to conduct air monitoring in Southeast Houston including the Manchester

community. Two detections of 0.7 and 1.1 parts per million of volatile organic compounds were detected. The On Scene Coordinator has requested EPA's TAGA Unit respond to conduct further air monitoring.

EMERGENCY RESPONSE

No new information to report since the Morning Report.

WATER SYSTEMS ASSESSMENT

Additional people were deployed to assist Region 6 with conducting Drinking Water and Waste Water assessments in the field. Field teams receive their list of Drinking Water and Waste Water Systems for assessment based on their location.

SUPERFUND INSPECTIONS PLANNED

EPA teams continued on-site inspections of Superfund sites.

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

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

Quantity and Types of Teams Deployed 9/4/2017			
Team Type	**Corpus Christi Branch**	**Houston Branch**	**Port Arthur / Beaumont**
Water Assessment Teams	0	10	
Hazard Evaluation	1	21	3
Oil Discharge Assessment	2	3	0
Container Recovery	2	0	
Oil Recovery Group	3	0	
ER/Recovery Group	1	1	
Arkema Group	0	1	
Air Operations Group	0	1	
Air Monitoring		1	

CORPUS CHRISTI BRANCH:

- The Corpus Christi Branch Oil Discharge Recovery Group is in the process of prioritizing vessel recovery operations and contacting marinas to locate vessels in need of assessment and also for staging possibilities.
- The Oil Discharge Assessment Group (ODA) 1 provided oversight of the removal of oil from the Signet Enterprise at Aransas Pass. Thus far, 20,000 gallons of diesel have been removed and 280,000 gallons remains.
- ODA 1 monitored the Drill Ship DPSDS1 as it was successfully free floated with no issues or pollution observed. The Drill Ship DPSDS1 is currently enroute to Sherwin Alumina dock.
- The Corpus Christi Branch Hazard Evaluation Group transitioned from two teams to one and the Oil Discharge Assessment Group transitioned from three teams to two teams. The Oil Discharge Recovery Group transitioned from two teams to three teams.

	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:

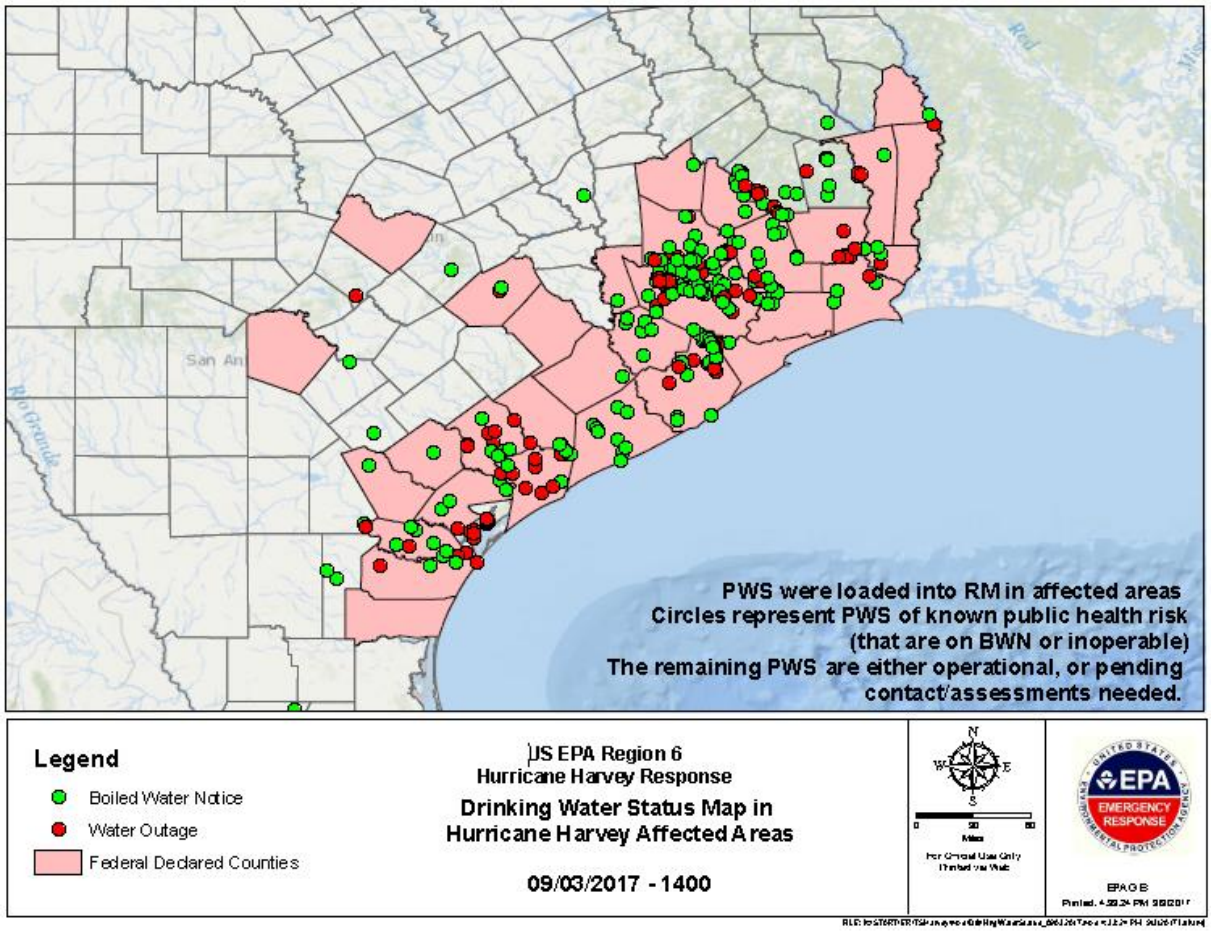
- The Houston Branch has received an influx of upwards of 80 personnel and is ramping up Hazard Evaluations. The Houston Branch has added two deputy branch directors to maintain adequate span of control ratios.
- ASPECT continued to conduct assessments of the Houston area.
- Two USCG Liaison Officers and additional EPA Planning personnel have integrated into the Houston Branch.

PORT ARTHUR/BEAUMONT BRANCH:

- The Port Arthur / Beaumont Branch should be fully stood up by Wednesday, September 6, 2017.

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.


PWS were loaded into RM in affected areas
Circles represent PWS of known public health risk
(that are on BWN or inoperable)
The remaining PWS are either operational, or pending
contact/assessments needed.
Legend
Boiled Water Notice
Water Outage
Federal Declared Counties
US EPA Region 6
Hurricane Harvey Response
Drinking Water Status Map in
Hurricane Harvey Affected Areas
09/03/2017 - 1400
N
W
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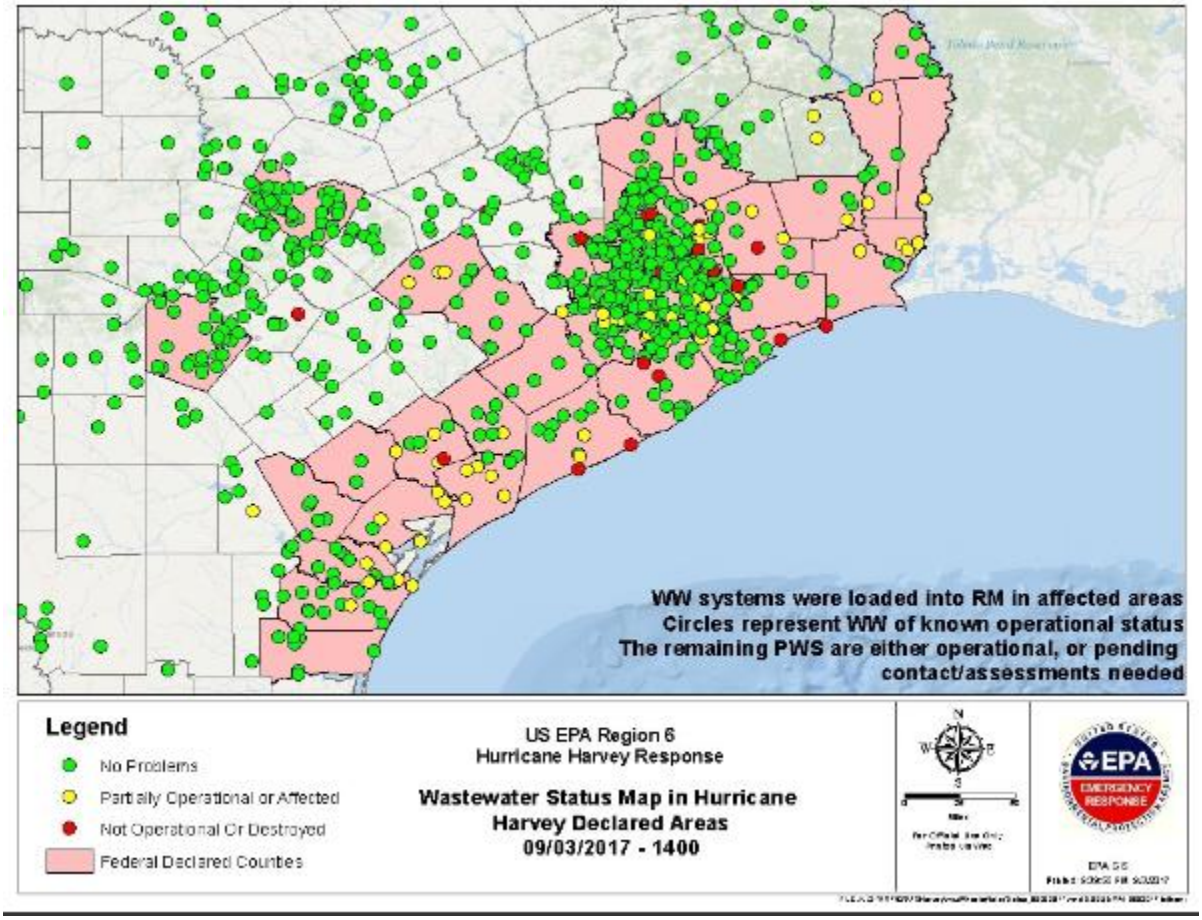
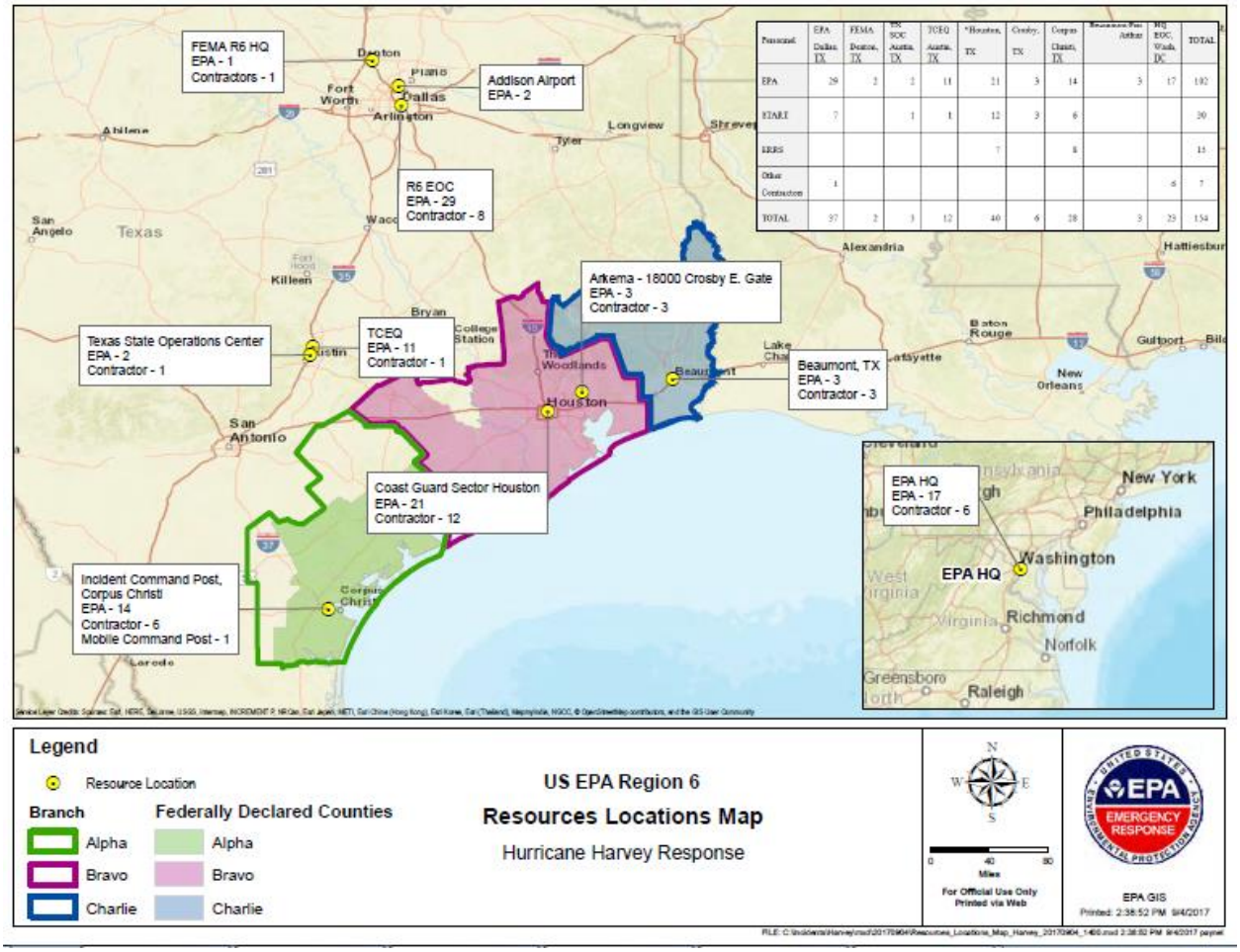
50
80
Miles
For Official Use Only
Printed via Web
EPA
EMERGENCY
RESPONSE
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
EPA GIS



EPA RESOURCES

Personnel	EPA Dallas, TX	FEMA Denton, TX	TX SOC Austin, TX	TCEQ Austin, TX	*Houston, TX	Crosby, TX	Corpus Christi, TX	Beaumont/ Port Arthur	HQ EOC, Wash, DC	TOTAL
EPA	29	2	2	11	21	3	14	3	17	102
START	7		1	1	12	3	6			30
ERRS					7		8			15
Other Contractors	1								6	7
TOTAL	37	2	3	12	40	6	28	3	23	154



FUNDING

September 4, 2017

SitRep
September 4, 2017, UPDATED 1300 hours

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		
MA 4332DR-TX-EPA-01	$20,000.00	$17,654.00	$13,424.00	$4,230.00	$2,848.00	1.49
MA 4332DR-TX-EPA-03	$8,592,000.00	$7,584,077.00	$3,419,017.00	$4,165,060.00	$236,348.84	17.62
Totals:	$8,612,000.00	$7,601,731.00	$3,496,641.00	$4,169,290.00		

** 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.

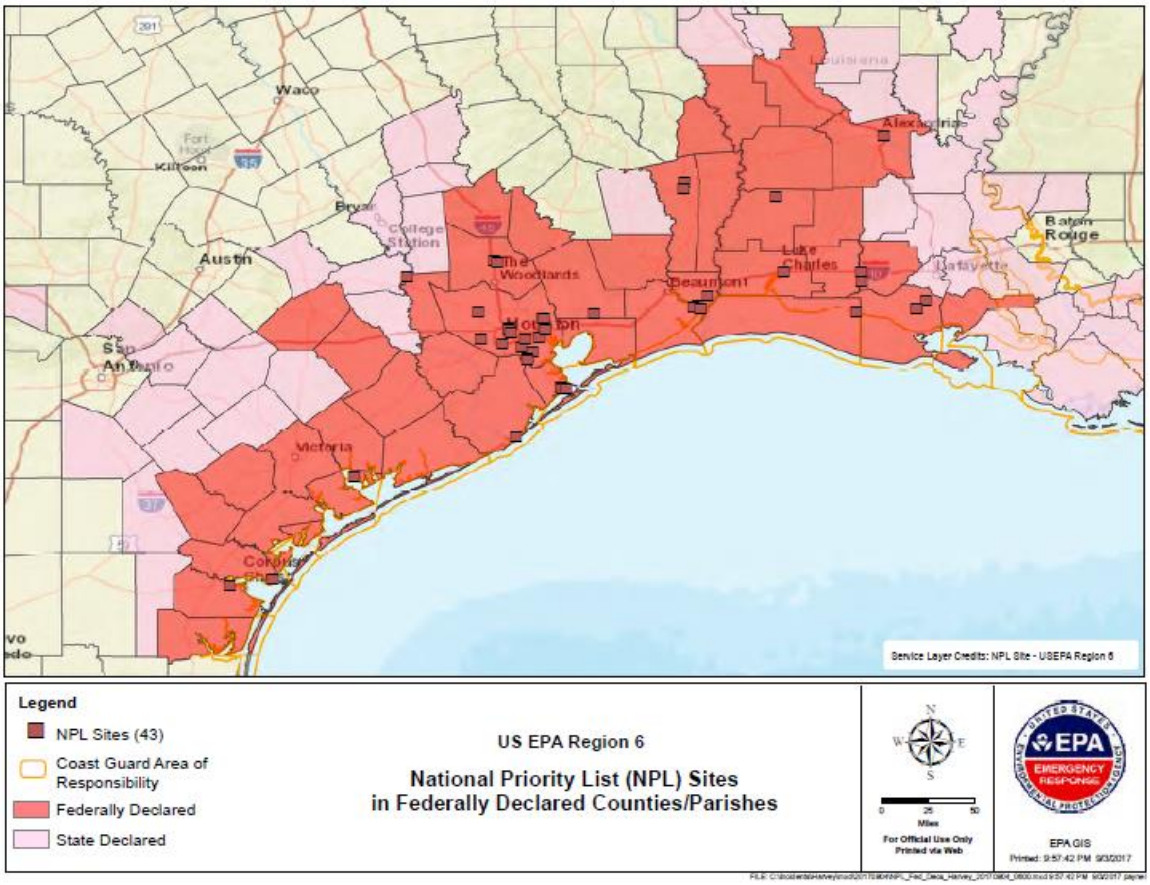
Texas NAA for Vapor Recovery Systems: Several federal regulations and the Texas State Implementation Plan (SIP) require that bulk gasoline, marine, and rail loading terminals operate a vapor control system to collect the fuel vapors displaced from tank trucks during product loading. This NAA allows the 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.

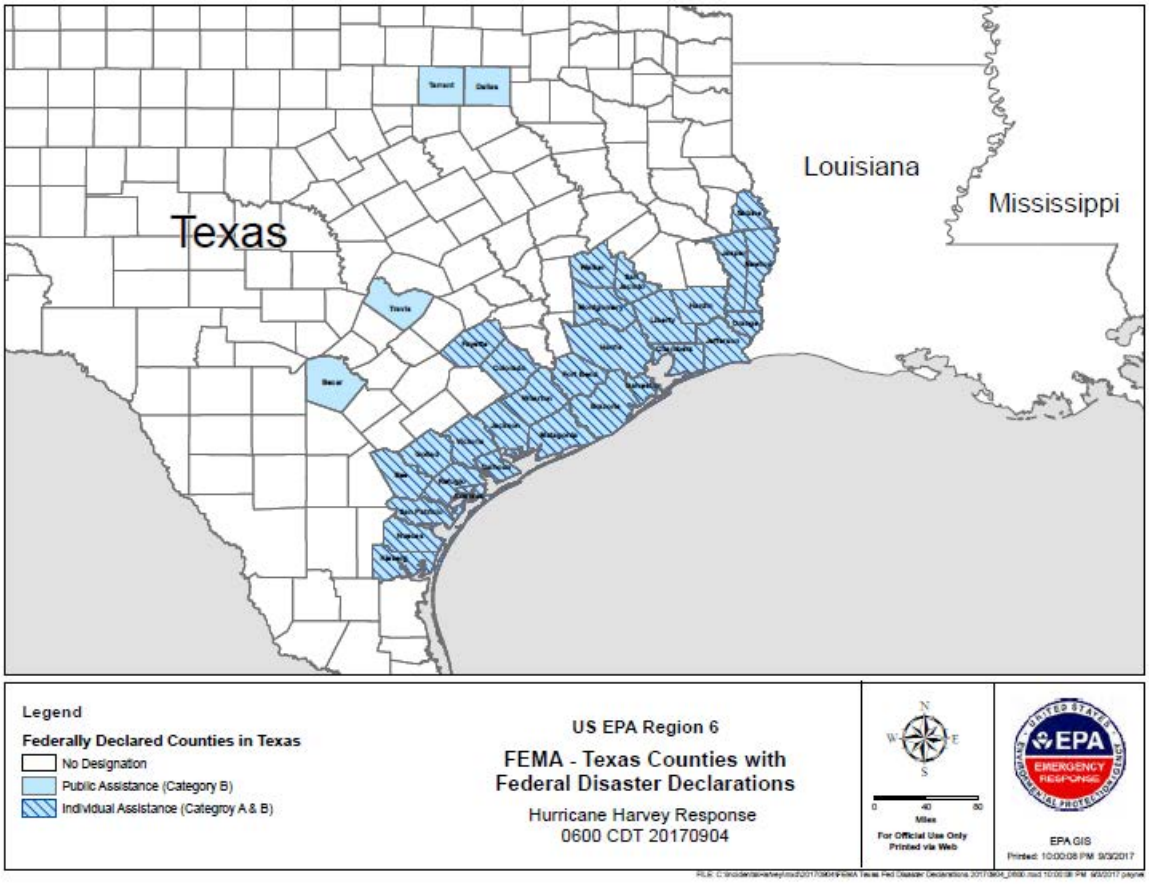
SUPERFUND NPL SITES



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				

FEMA – TEXAS COUNTIES WITH DISASTER DECLARATIONS



PHOTOS

Recording information Wallace, Texas by Hazard Evaluation Team

PHOTOS

EPA and USCG conducting orphan container recovery in Victoria, Texas

EPA and USCG conducting orphan container recovery in Victoria, Texas

PHOTOS

EPA and USCG performing a field assessment near the Houston Ship Channel