Tropical Storm Harvey 2017
9/2/2017 – 1700 CDT Update

TEXAS

On September 2, 2017, FEMA approved the State of Texas' request to amend the cost waiver for response effort funding. The waiver decreases the cost share from 30 days from the date of the Presidential Declaration, the cost share has been decreased to 0%, except for debris recovery, which was decreased to 10% for 30 days from the date of the Presidential Declaration.

FEMA's Joint Field Office (JFO) opened as of September 2, 2017. EPA Region 6 has two Liaison representatives stationed at the JFO which is located in Austin, Texas.

ARKEMA FIRE

As of 4:00 Friday, Sept. 2 ,2017, three of the 9 trailers self-ignited at the Arkema facility Smoke was also observed from an additional trailer. It is expected that all the trailers will catch fire in the near future. EPA's ground air monitoring results outside the exclusion zone were below levels of health concern.

- Unified Command has determined that access to the facility is still unsafe and a 1.5-mile evacuation radius will remain in effect until further notice.
- EPA will continue to maintain a 24-hr presence with air monitoring capabilities at the incident command operations center.

BEAUMONT

TCEQ is sending four teams to survey the Beaumont area. Water pressure in the city of Beaumont water system is increasing; however, due to the previous low pressure in the system the city continues to be under a boil water notice.
On September 2, 2017, the TCEQ received the following status update from the City of Beaumont:
The groundwater plant remains off-line due to flooding conditions. The surface water treatment plant (SWP) is producing 20 Million gallons per day(MGD). Water is being sent to limited sections of distribution at this time due to the inability to maintain pressure in the distribution system. Operators are slowly opening main distribution lines and determine

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where pressure is being lost so repairs can be made. This will be a slow, methodical process to bring the entire system up to desired pressure.
The raw water pumps are out, and are estimated to remain out of service for 2-3 weeks. Crews are currently on-site installing additional pipe and installing additional pumps to bring raw water directly from the Neches River into the plant. The estimated demand will be above the plant capacity of 20 MGD. It is estimated that the full capacity will take longer to determine due to leaks in the distribution system. The elevated storage tanks and groundwater tanks are mostly full. The City of Beaumont will be on a boil water notice when it goes on-line.
Additional current status:

Chemical and fuel deliveries are expected to resume as roads begin to open in the next few days.
The City has their Emergency Operations Center (EOC) fully functional and is coordinating efforts to make repairs and acquire chemicals and materials for both short-term and long-term.

FIELD RESPONSE ACTIVITIES

LOUISIANA

The State of Louisiana has received an Emergency Declaration (FEMA-3382-EM) which includes a total of 12 Parishes: Allen, Acadia, Beauregard, Calcasieu, Cameron, Iberia, Jefferson Davis, Natchitoches, Rapides, Sabine, and Vermillion, Vernon

CORPUS CHRISTI

In the Corpus Branch the Orphan Container Recovery Group conducted orphan container recovery in Port Aransas. Containers which have been displaced and are leaking as a result of the hurricane are being identified and recovered.
The Water Infrastructure Assessment Group consists of four teams who are conducting assessments for both Drinking Water and Waste Water Facilities. Teams are prioritizing facilities, and conducting evaluation of these facilities.

The Hazard Evaluation Group consists of two teams performing orphan container hazard evaluation. Teams are prioritizing Rapid Needs Assessment Targets and conducting evaluation of the targets.
The Oil Discharge Assessment Group consists of 5 teams. Three ER Teams respond to reports of active pollution discharges and conduct patrols as tasked. There are two Oil Discharge Assessment Teams conducting assessments and responding to spills from Port Aransas to Corpus Christi and from Fulton to Ingleside. All teams are conducting hazard evaluation and damage assessment, and collecting information on damaged and sunken vessels.

There is also a Staging Group that is receiving, processing, categorizing, bulking and disposing of any and hazardous containers.

EPA's aerial recognizance aircraft is assessing public water supplies, wastewater treatment facilities, Risk Management Plan (RMP) and Facility Response Plan (FRP) facilities for damage and immediate ongoing releases.

EPA personnel deployments to Austin, Beaumont-Port Arthur, Houston and Corpus Christi will continue throughout the weekend. Personnel will be supporting the Unified Command teams that are identifying and evaluating impacts of the hurricane and floods, as well as coordinating with TCEQ to assist with priority drinking and waste water assessments. EPA is working with TCEQ to issue a statement on the hazards of floodwaters. Assisting drinking water and waste water facilities in maintaining and/or resuming their operational status remains a high priority.

HOUSTON

Aerial Recon teams are being formed for the next operational period. It is anticipated these teams will be placed in Bravo Branch.

The Orphan Container Hazard Evaluation Group consists of 7 teams. Team compositions include personnel from the EPA, USCG, TCEQ, TGLO, and CTEH. The group's primary purpose is to conduct orphan container hazard evaluation throughout Branch Bravo's geographical area. The targets are being evaluated via the NDOW orphan container hazard evaluation SOP and documented within Response Manager.

The spill report Investigation Group consists of one team. The team composition is currently two EPA members. The group's primary purpose is to investigate any NRC reports within the Branch Bravo's geographical area.

The Oil Discharge Assessment Group consists of 5 teams. Each team has three members and includes personnel from the EPA, USCG, TCEQ, and CTEH. The group's primary purpose is to conduct oil discharge assessments throughout Branch Bravo's geographical area. The targets are being evaluated via the NDOW Facility/Vessel Oil Discharge Assessment SOP and documented within Response Manager.

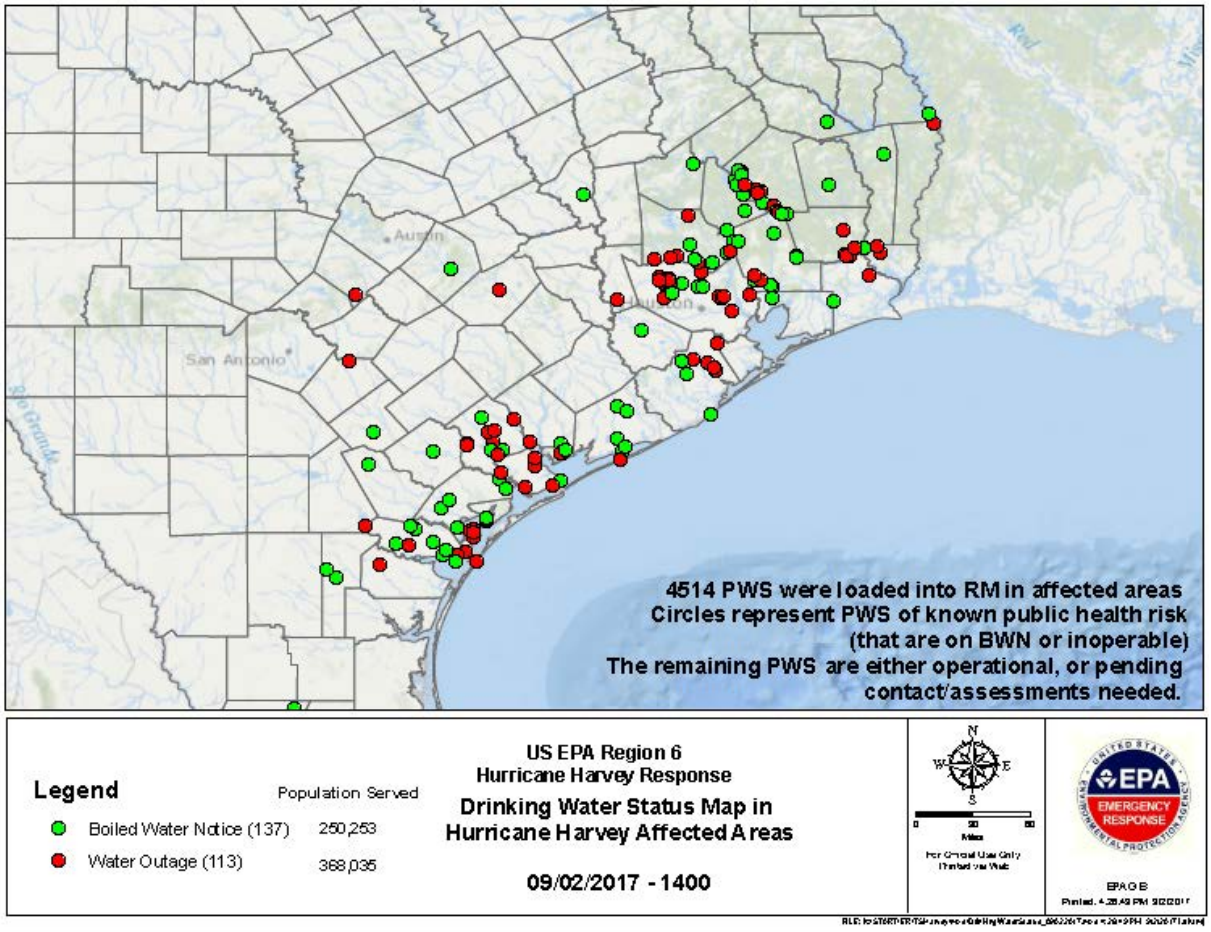
The Orphan Container Recovery Group consists of 2 teams. Each team has three members and includes personnel from USCG, TCEQ, and an OSRO. The group's primary purpose is to conduct orphan container recovery throughout Branch Bravo's geographic area. If not recovery already documented targets, the Orphan Container Recovery Group will utilize the NDOW Orphan Container Hazard Evaluation SOP and document targets within Response Manager accordingly.

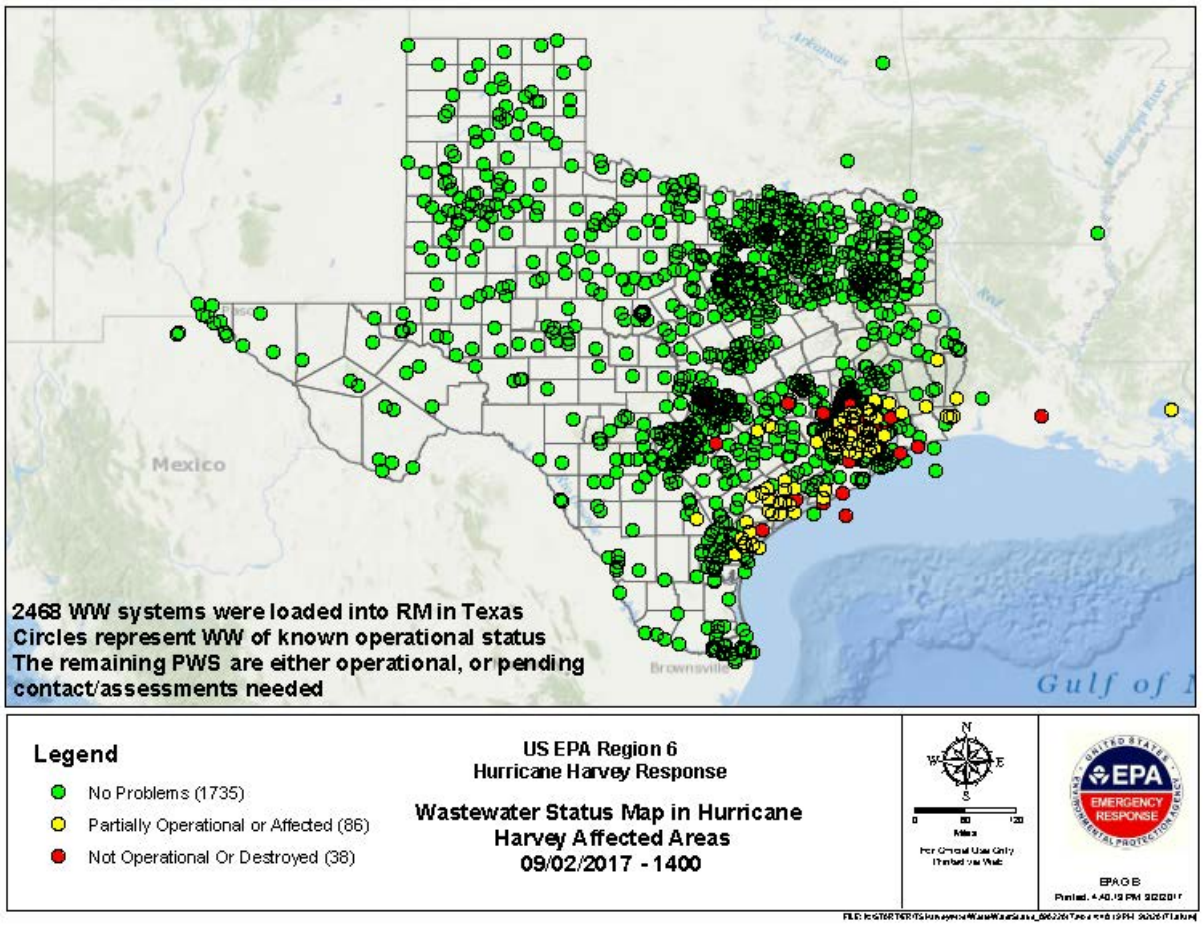
SPILL/RELEASE RESPONSE

Hotline Calls as of September 1, 2017	
Number of Harvey Related Calls Received During Reporting Period 0100 to 1300 hr.	5
Total Number of Harvey Related Calls to Date	120
*** 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. EPA deployed 10 personnel to assist TCEQ's Drinking Water and Waste Water Phone Bank located in Austin.





Legend

- No Problems (1735)
- Partially Operational or Affected (86)
- Not Operational Or Destroyed (38)

US EPA Region 6
Hurricane Harvey Response

Wastewater Status Map in Hurricane Harvey Affected Areas
09/02/2017 - 1400

N W E S

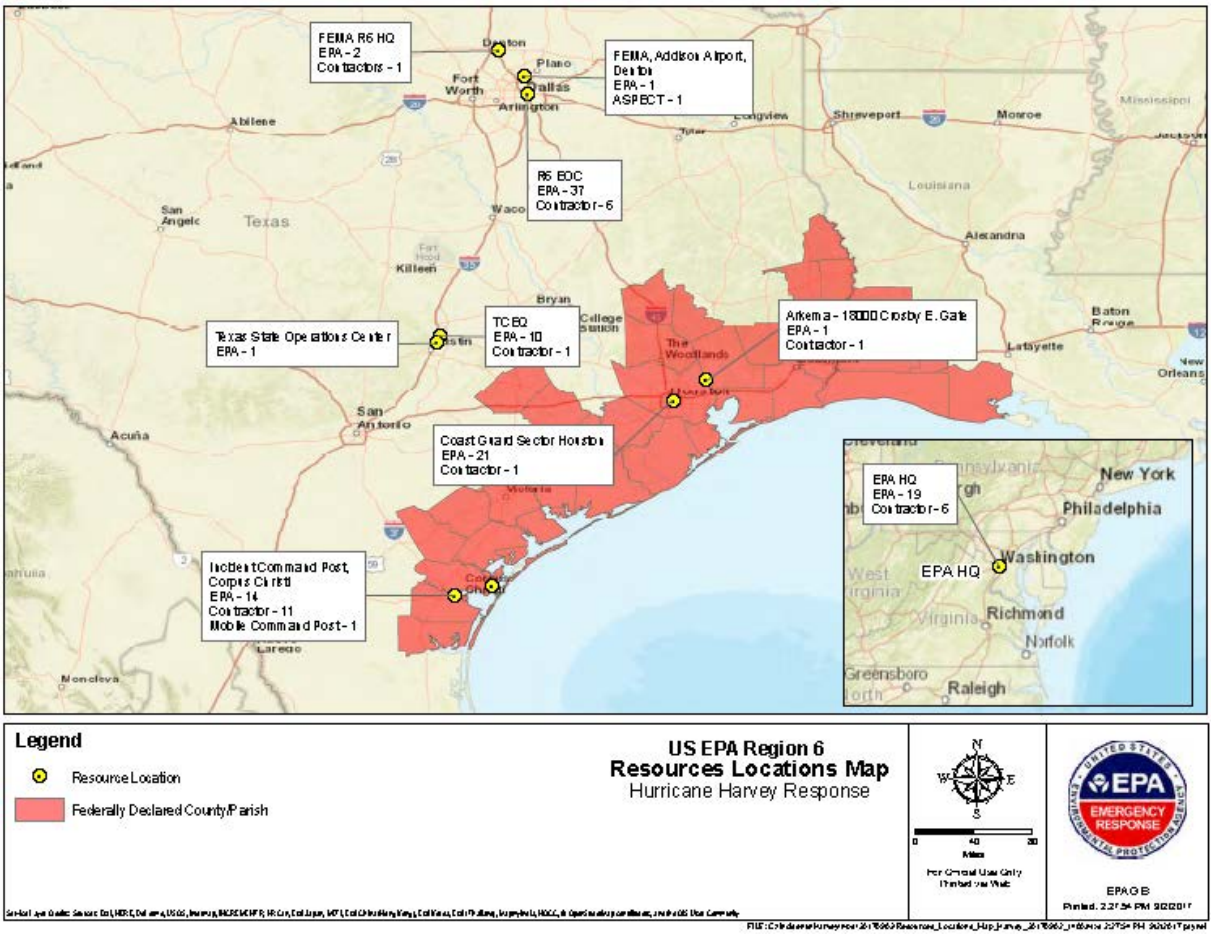
0 60 120
Miles

For Official Use Only
Printed via Web

EPA GIS
Printed: 4:40:19 PM 9/2/2017

RESOURCES

Personnel	EPA Dallas, TX	FEMA Denton, TX	Texas SOC Austin, TX	TCEQ Austin, TX	Houston, TX	Corpus Christi, TX	HQ EOC Wash DC	Totals
EPA	36	1	2	10	9	13	19	84
START	5			1	1	5		12
ERRS						6		6
Other Contractors	1						6	4
TOTAL	42	1	2	11	10	24	25	106



FUNDING

SEPTEMBER 1, 2017

Funding Sources	Funding Ceiling	Funding Ceiling Less Indirect	Spent to Date	Remaining Balance	Daily Burn Rate
Non Mission Assignment	N/A		$64,200.00	$0.00	
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	$1,759,127.00	$5,824,950.00	$90,233.84*
Totals:	$8,612,000.00	$7,601,731.00		$7,601,731.00	

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

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

REFINERIES/FUEL WAIVERS

Four No Action Assurance (NAA) letters were signed by EPA September 1, 2017, to help address fuel shortages. Of the 17 refineries along the Texas coast, as of September 1, only 6 have returned to partial operation due to Hurricane Harvey. The following 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 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.

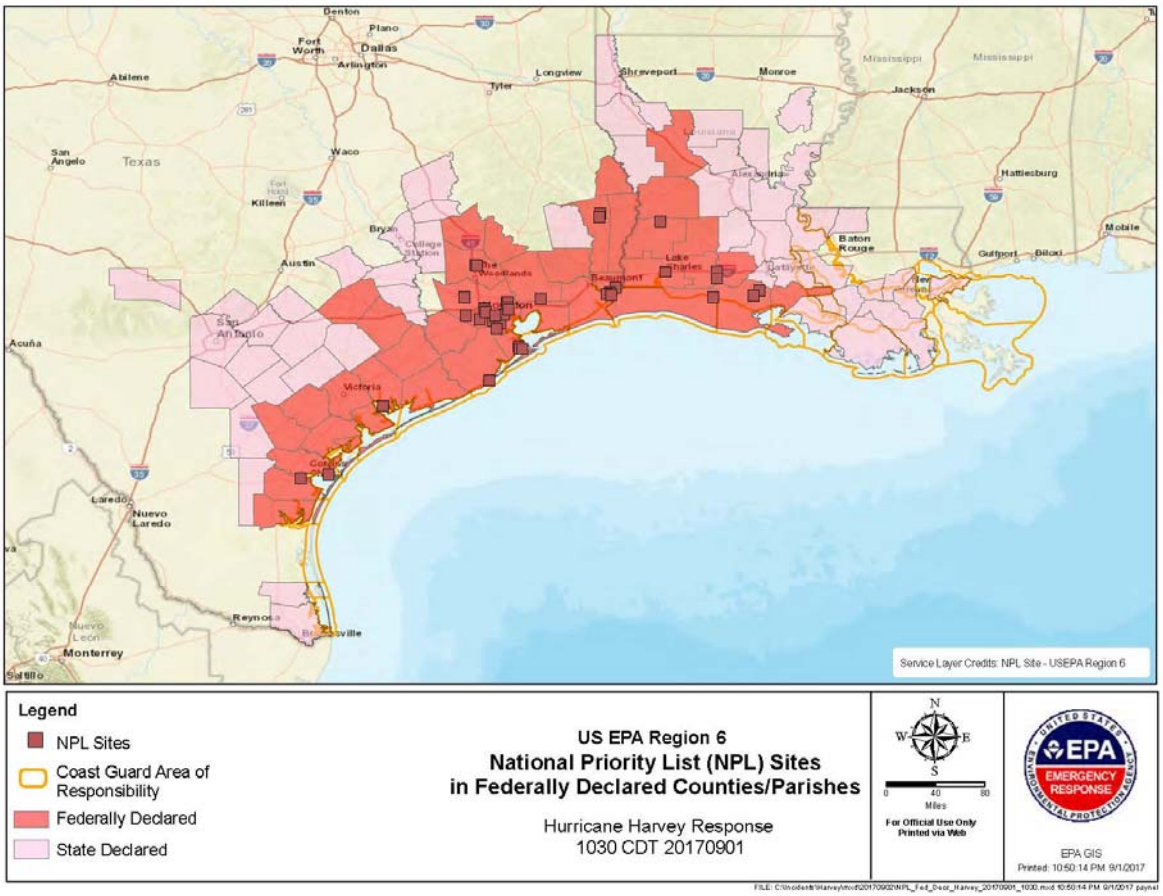
- **Texas NAA for Vapor Recovery Systems**: Several federal regulations and the Texas State Implementation Plan (SIP) require that bulk gasoline, marine, and rail loading terminals operate a vapor control system to collect the fuel vapors displaced from tank trucks during product loading. This NAA allows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

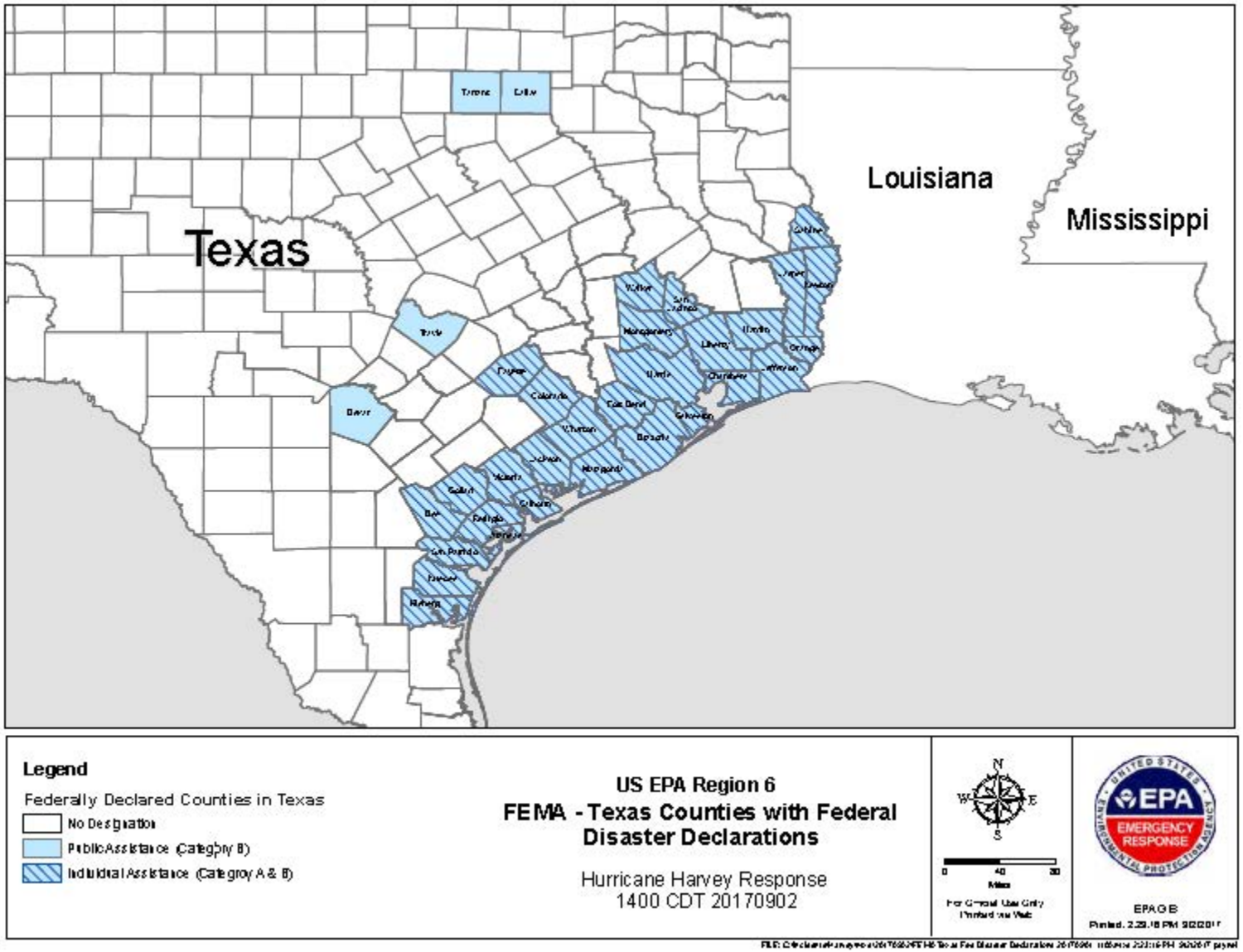
- **Louisiana NAA for Truck Loading at Petroleum Distribution Terminals**: Several federal regulations and the Louisiana SIP require that gasoline tank trucks obtain testing and certification that the tank trucks are vapor tight. This NAA allows tank trucks to load and unload fuel at terminals even though 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



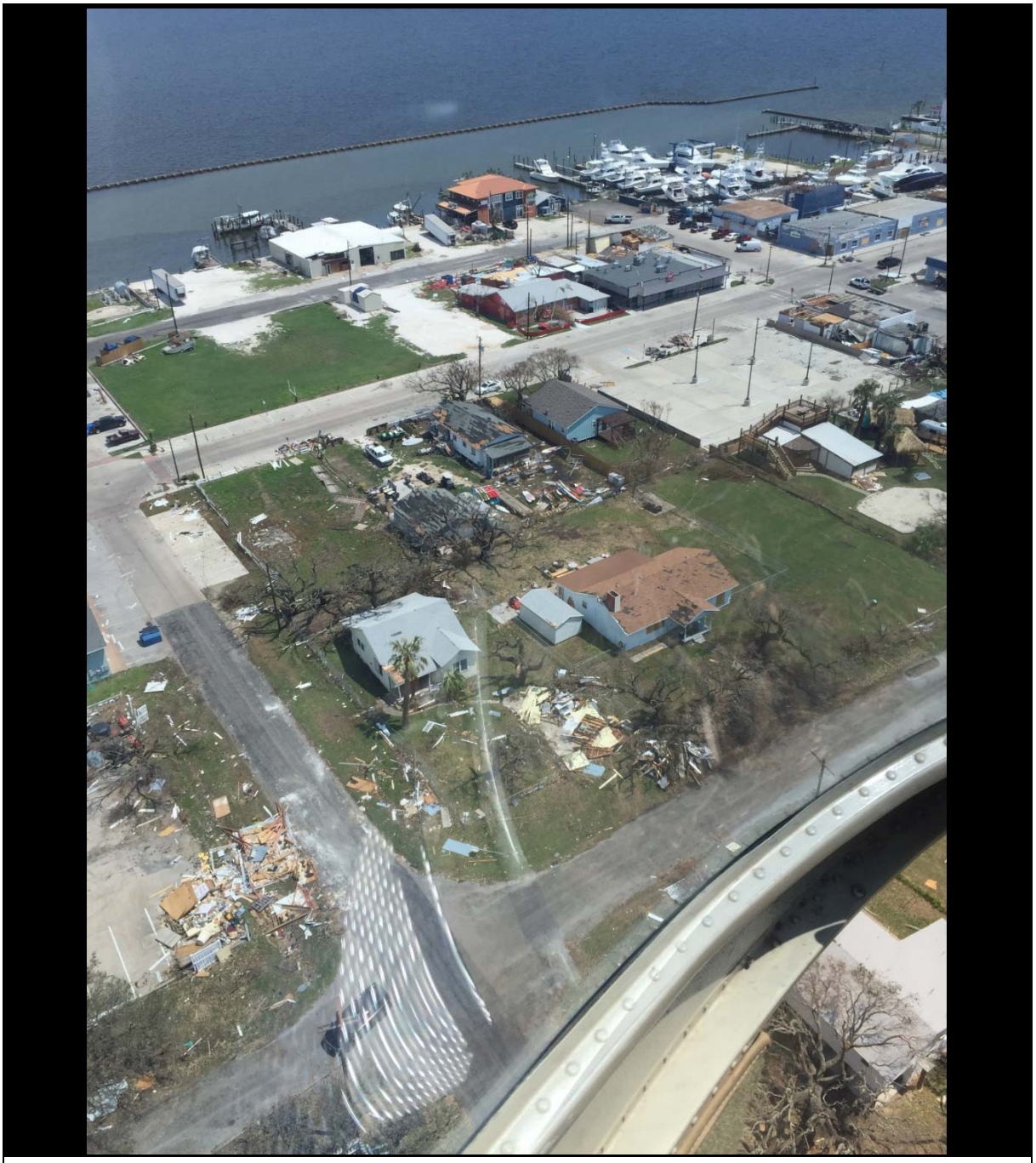
Superfund Sites within Federally Declared Counties					9/2/2017
Hurricane Harvey Rapid Response Assessment	**Phase 1**	**Phase 2**		**Phase 3**	**All Phases Completed**
	Rapid Response Assessment	**Site Inspection Needed**	**Inspected**	**Additional Response Action**	
TEXAS					
SITE NAME					
ALCOA (Point Comfort) / LAVACA BAY	8/29/17	No			8/29/2017
BAILEY WASTE DISPOSAL	9/1/17	Yes			
BRINE SERVICE CO.	8/30/17	Yes	8/30/17	No	8/30/2017
BRIO REFINING INC.	9/1/17	No			9/1/17
CONROE CREOSOTING COMPANY	9/1/17	No			9/1/17
CRYSTAL CHEMICAL CO.	8/30/17	No			8/30/17
DIXIE OIL PROCESSORS INC.	9/1/17	No			9/1/17
FALCON REFINERY	8/31/17	Yes	8/30/17	No	8/30/2017
FRENCH, LTD.	9/1/17	Yes			
GENEVA INDUSTRIES / FUHRMANN ENERGY	9/1/17	Yes			
GULFCO MARINE MAINTENANCE	9/1/17	Yes			
HARRIS (FARLEY STREET)	9/1/17	No			9/1/17
HART CREOSOTING	9/1/17	No			9/1/17
HIGHLANDS ACID PIT	9/1/17	Yes			
JASPER CREOSOTING	9/1/17	No			9/1/17
JONES ROAD GROUNDWATER PLUME	8/29/17	No			08/29/17
MALONE SERVICES COMPANY	9/1/17	Yes			
MANY DIVERSIFIED INTERESTS, INC	9/1/17	No			9/1/17
MOTCO, INC.	8/31/17	No			8/31/2017
NORTH CAVALCADE STREET	8/29/17	No			08/29/17
PALMER BARGE LINE	9/1/17	No			9/1/17
PATRICK BAYOU	9/1/17	Yes			
PETRO-CHEMICAL SYSTEMS, INC. (Turtle Bayou)	9/1/17	Yes			
SAN JACINTO RIVER WASTE PITS	9/1/17	Yes			
SIKES DISPOSAL PITS	8/29/17	No			08/29/17
SOL LYNN / INDUSTRIAL TRANSFORMERS	8/29/17	No			08/29/17
SOUTH CAVALCADE STREET	8/29/17	No			08/29/17
STAR LAKE CANAL	8/30/17	No			8/30/2017
STATE MARINE OF PORT ARTHUR	9/1/17	No			9/1/17
TEX-TIN CORP.	9/1/17	No			9/1/17
TRIANGLE CHEMICAL COMPANY	9/1/17	Yes			
UNITED CREOSOTING CO.	9/1/17	No			9/1/17
US OIL RECOVERY	9/1/17	Yes			
LOUISIANA					
AMERICAN CREOSOTE DERIDDER	09/01/17	No			9/1/17
D.L. MUD, INC.	08/29/17	No			08/29/17
EVR-WOOD TREATING/EVANGELINE REFINING C	09/01/17	No			9/1/2017
GULF COAST VACUUM SERVICES	08/29/17	No			08/29/17
GULF STATE UTILITIES (North Ryan Street)	08/31/17	No			8/31/2017
MALLARD BAY LANDING BULK PLANT	08/29/17	No			08/29/17
PAB OIL & CHEMICAL SERVICE	08/29/17	No			08/29/17
SBA SHIPYARD	09/01/17	No			9/1/17
Status Summary					
Rapid Response Assessment Completed	41				
Sites with no further action	30				
Sites in Phase 2	11				

FEMA – TEXAS COUNTIES WITH DISASTER DECLARATIONS



PHOTOS

Tactics Meeting on Sep 2nd 2017



Photos from the TCEQ/EPA Recon flight over Rockport/Fulton on Sep 1st 2017

Alpha Branch Team Three Special Ops. USCG and EPA Members discussing operations.