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

TEXAS

ARKEMA FIRE

As of September 1, 2017, three trailers caught fire following chemical reactions. One trailer fire occurred on August 31, 2017 and two occurred on September 1, 2017. During the fire on September 1, 2017, EPA periodic air monitoring results downwind of the exclusion zone were approximately 0.3 parts per million (ppm), below the OSHA permissible exposure limit (PEL) of 2 ppm. The fire subsided by 1850 hour and by 1930 hour, air monitoring results for SO_2 were non-detect. VOCs readings were between 0 and 0.2 ppm throughout the burning event.

Additional Updates:

- 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.
- ASPECT recent flyover photos indicate that flood waters within the facility have receded significantly.
- At the request of the local jurisdiction and Harris County Pollution Control, EPA collected surface water runoff samples from the facility at 4 locations and a background location. A small residential area is located downstream from the facility in the path of the run-off.
- EPA will continue to maintain a rotational 24-hr presence with air monitoring capabilities at the incident command operations center.

EPA, the Texas Commission of Environmental Quality (TCEQ), Crosby Fire Department, Harris County Fire Marshal Office, and Arkema have established a Unified Command at the Arkema response. EPA teams are reporting that temperatures in the trailers are rising slightly due to rising ambient temperatures. EPA has also identified a risk for a vessel of 38,000 pounds of Isobutylene that is close to the trailers of peroxide. The risk is radiant heat from burning peroxide could ignite the isobutylene.

Due to the unstable conditions of the trailers, access to the facility is still not possible and unsafe. The 1.5-mile radius evacuation is still in effect. ASPECT has performed overflight approximately twice per hour. The ASPECT continues to see detections of benzoyl peroxide at approximately 5 ppm which is well below health concerns. Monitoring for pollutants of

7030109

concerns is being conducted at locations accessible given current flooding and exclusion zone. Four air monitoring teams from EPA, Harris County Pollution Control and Liberty County are conducting monitoring around the exclusion zone. So far all reading are showing no levels of concern. Unified Command at the Arkema site continue to coordinate with the EPA Region 6 Environmental Unit to determine locations on the site where flood water samples can be collected.

BEAUMONT

On September 1, 2017, the TCEQ received the following status update from the City of Beaumont for their Water Treatment Facilities: The groundwater plant remains off-line due to flooding. The surface water treatment plant (SWP) is producing 6-8 million gallons per day (MGD) as of 9:00 am this morning. No water is being sent to distribution as this time, but plant operators are currently attempting to pressurize lines from the plant to pump stations and storage facilities.

The raw water pumps are not operational, and estimated to remain out of service for 2-3 weeks. Crews are currently on-site laying additional pipe and installing additional pumps to bring raw water directly from the Neches River into the SWTP. The estimated demand will be 20 MGD. It is estimated that the full 20 MGD capacity will take another 24 hours. The elevated storage tanks and groundwater tanks are mostly full and are currently valved-off until the system is brought back online. The City of Beaumont will be on a boil water notice when it goes on-line.

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. TCEQ spoke with the Managing Engineer for the City and he stated that their EOC is currently in control of the situation.

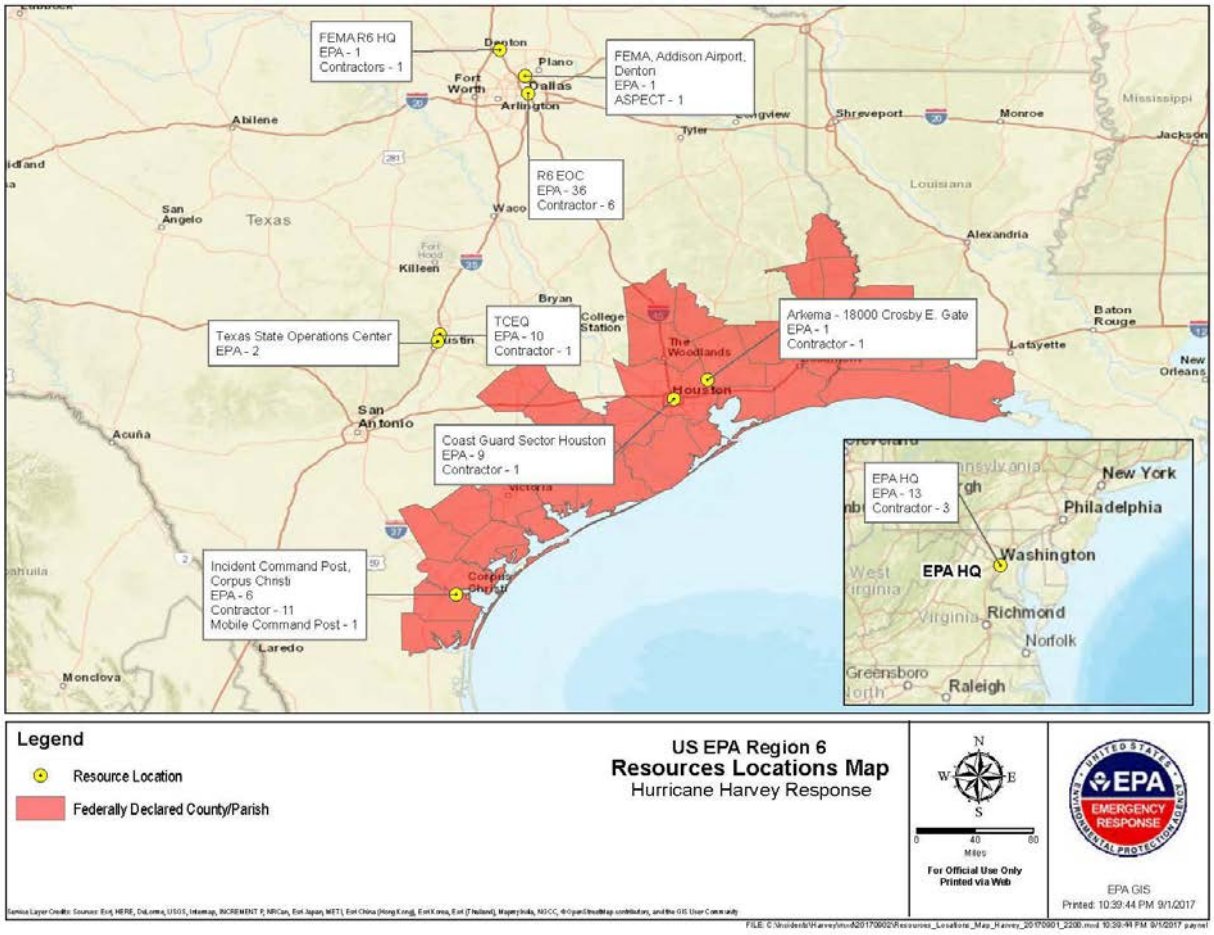
COORDINATION WITH TEXAS DEPARTMENT OF AGRICULTURE

On September 1, 2017, The region's Agriculture Policy Advisor did follow up on a request from Texas Animal Health Commission (TAHC) and Texas Department of Agriculture (TDA) for salinity probes to determine if surface water can be used for livestock uses. It was determined that region has all salinity probes already deployed in Bird Creek. Through communications to various external partners, the Agriculture Advisor was able to arrange conductivity meters Texas AgriLife has to contacts working with TAHC and TDA. These meters were previously purchased with CWA Section 319h funds the Region manages and awards to Texas. In addition, EPA on-scene coordination staff made contact with USDA-Natural Resources Conservation Service staff to facilitate monitoring equipment be loaned to TAHC and TDA. The need is that ranchers know if water resources for their livestock are safe to use. Salinity levels above 5,000 part per million become are no longer satisfactory for cattle use.

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	1	10	9	9	13	88
START	5			1	1	5		12
ERRS						6		6
Other Contractors	1						3	6
TOTAL	42	1	1	11	10	20	16	112

*



ACTIVITIES

CORPUS CHRISTI

On September 1, 2017, EPA deployed two container recovery teams to collect orphaned containers where hazard evaluations have been completed. Six oil discharge assessment teams consisting of US Coast Guard and Texas General Land Office are conducting reconnaissance in the area. Four TCEQ water infrastructure teams are conducting drinking water and waste water assessments. Two teams are conducting air reconnaissance via helicopters.

HOUSTON

Eight hazard evaluation teams consisting of U.S. Coast Guard (USCG) and TCEQ and two oil discharge assessment teams consisting of USCG and TCEQ are working in the Houston area. USCG is also conducting orphaned container recovery in the area.

EPA is deploying four teams of On Scene Coordinators and contractors to Beaumont-Port Arthur to coordinate with TCEQ, TGLO, and US Coast Guard in responding to releases and spills at facilities. These teams will stage in Houston until conditions allow them to enter the Beaumont-Port Arthur area.

On Saturday, September 2, 2017, EPA will send four additional Drinking Water/Wastewater Assessment Teams to Corpus Christi, and four Drinking Water/Wastewater Assessment Teams to Houston.

On September 1, 2017, the Department of Transportation (DOT), Pipeline and Hazardous Materials Safety Administration (PHMSA) issued a waiver of hazardous materials regulations. The waiver applies to persons conducting operations under the direction of EPA Region 6 within the Hurricane and Tropical Storm disaster and emergency areas of Texas and Louisiana. The waiver is granted to support EPA in taking appropriate actions to prepare for, respond to, and recover from Hurricane and Tropical Storm Harvey.

SPILL/RELEASE RESPONSE

Hotline Calls as of September 1, 2017	
Number of Harvey Related Calls Received During Reporting Period 1300 to 0100 hr.	13
Total Number of Harvey Related Calls to Date	115
*** 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

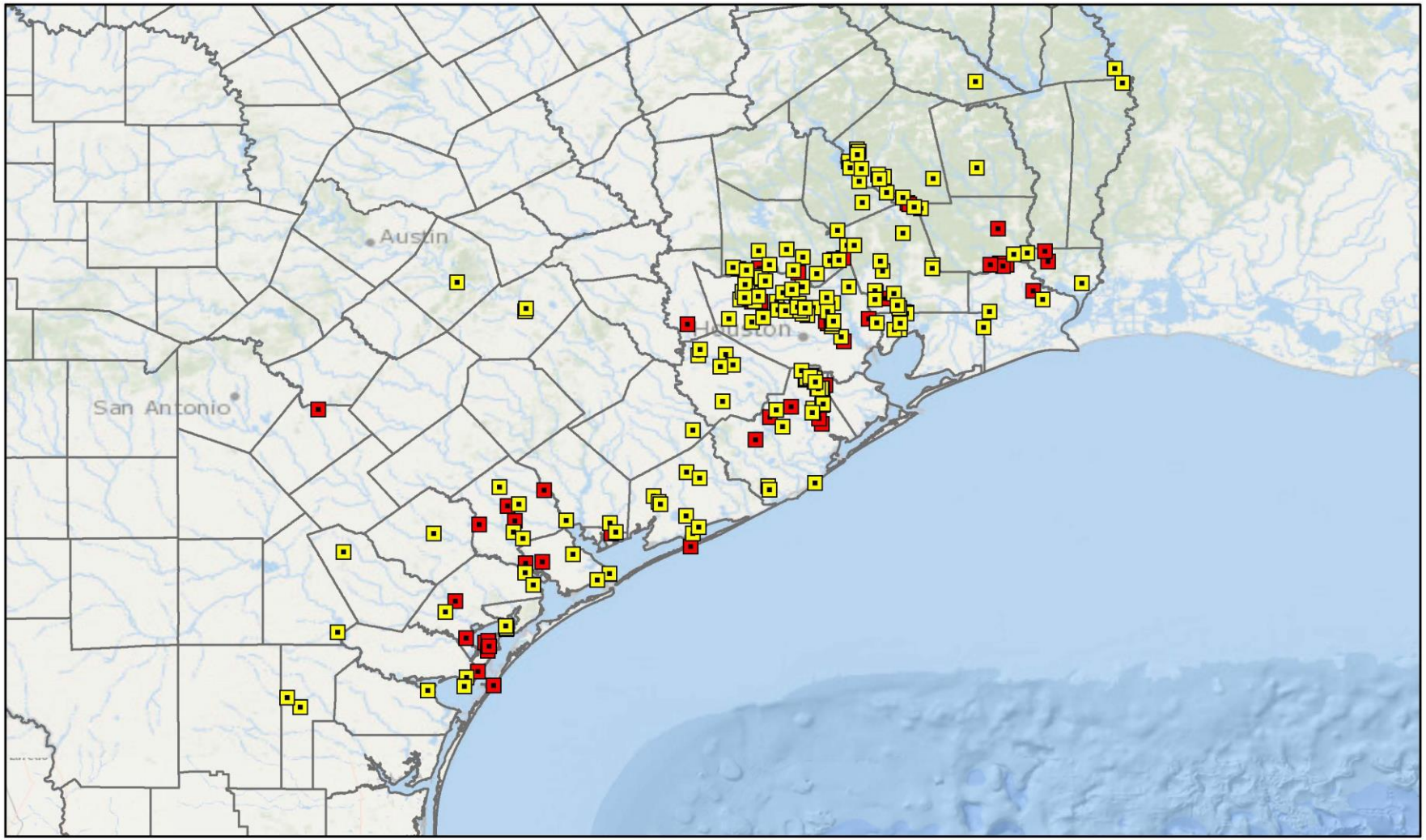
EPA continues to support TCEQ in contacting drinking water and waste water systems. EPA deployed 10 personnel to assist TCEQ's Drinking Water and Waste Water Phone Bank located in Austin.

DW - Total # of Systems: 4512

STATUS	NUMBER OF SYSTEMS
Contact Pending	159
Bacteria Sample Results Pending	16
Out of Contact	16
On Generator – Lost Pressure	14
No problems	1435
On Generator – Never Lost Pressure	16
No Status	2680
Lost pressure & or Treatment	61
Lifted boil water notice due to negative bacteria samples. Normal Ops resumed	63
System Destroyed	2
Not Operating	50

WW - Total # of Systems: 2469

STATUS	NUMBER OF SYSTEMS
No Problems	1626
System Destroyed	2
Unknown	678
Waste Water Treat. Plant and/or Collection on Generator or bypass pumps for Lift Station	30
Waste Water Treat. Plant and/or Collection non operational no Sanitary Sewer Overflow	35
WWTP and/or Collection Partially Operational Sanitary Sewer Overflow	32
Site Visit Needed	1
Out of Contact - phone evaluation only	14
Contact Pending - Phone evaluation only	51



Legend

- Boiled Water Notices (173)
- Water Outage (49)

US EPA Region 6

Drinking Water Status Map
09/02/2017 - 0100

N
W E
S

0 25 50
Miles

For Official Use Only
Printed via Web

EPA GIS
Printed: 2:35:09 AM 9/2/2017

FILE: K:\START\ER\TSHarvey\mxd\09022017\DrinkingWaterStatus_09022017.mxd 2:35:09 AM 9/2/2017 lathamj

LABORATORY/ ANALYTICAL SERVICES

EPA's organic chemical mobile laboratory arrived in Houston, Texas on August 31, 2017. The mobile laboratory can be utilized to process environmental samples.

REFINERIES/FUEL WAIVERS

1. TEXAS: EPA approved the State of Texas' request to extend the Texas fuel waiver to allow use of non-road diesel fuel in on-road applications. This non-road fuel has different tax treatment, and to differentiate it, is colored with red dye. The Internal Revenue Service (IRS) issued a waiver of the dyed diesel fuel penalty through September 15, 2017. The IRS will not impose a penalty when dyed diesel fuel is sold for use or used on the highway.

2. LOUISIANA: A waiver that would allow use of 9.0lb. RVP was approved on 28 August. LDEQ thanked EPA, R6 and Department of Energy for the quick turnaround and assistance this week. On September 1, 2017 the Governor of Louisiana requested a No Action Assurance from the EPA Region 6 Acting Regional Administrator. According to Louisiana this in order to facilitate the delivery of fuels to areas of Louisiana and Texas impacted by the hurricane, the Louisiana Department of Environmental Quality (LDEQ), on behalf of Governor John Bel Edwards, respectfully requests that EPA provide a "no action assurance" to allow for the use of tank trucks, railcars, and marine tank vessels that may not have the requisite vapor tightness documentation necessary to load gasoline and other petroleum products at Louisiana facilities.

3. OKLAHOMA: A statewide low Reid Vapor Pressure (RVP) fuel waiver request was submitted on August 28, 2017, and amended their request on August 30 expanding 11.5 RVP waiver nationwide.

4. ARKANSAS: The State is drafting a waiver request to temporarily waive the requirement for low 9.0lb RVP fuel.

5. On August 30th, EPA issue a waiver for the temporary use of 11.5 PSI RVP gasoline in the following states: Alabama, Georgia, Kentucky, Maryland, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, Texas, Louisiana, Florida and the District of Columbia. For Texas and Louisiana, it expands the waiver coverage area from the earlier waiver granted.

6. EPA issued a waiver for 38 states and the District of Columbia of all low volatility gasoline requirements in any State Implementation Plan that applies in the designated states. This waiver now includes all five Region 6 states: Arkansas, Louisiana, New Mexico, Oklahoma and Texas. The waiver for El Paso, Texas goes until September 16, 2017 due to their State Implementation Plan requirements.

FUNDING

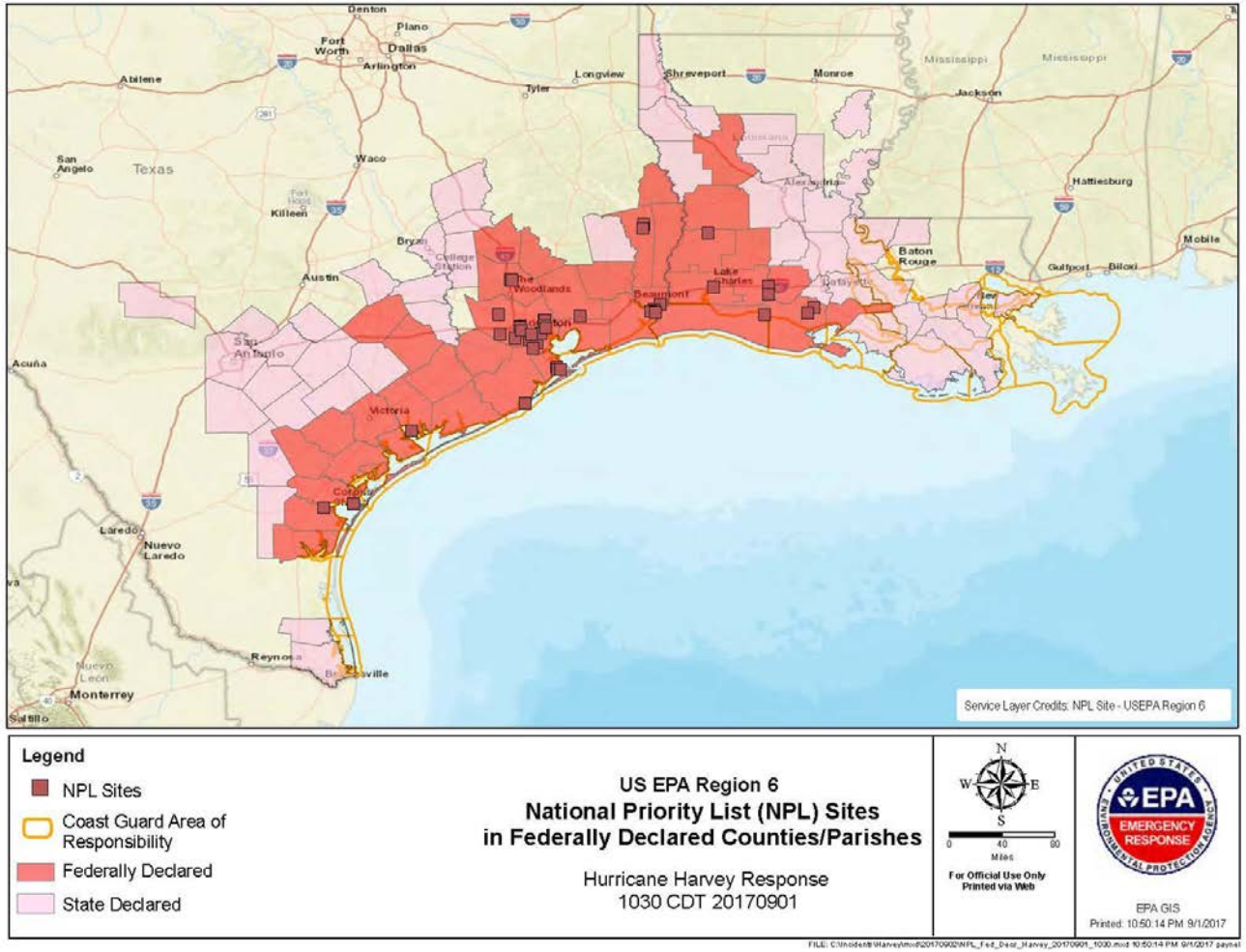
SEPTEMBER 1, 2017

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

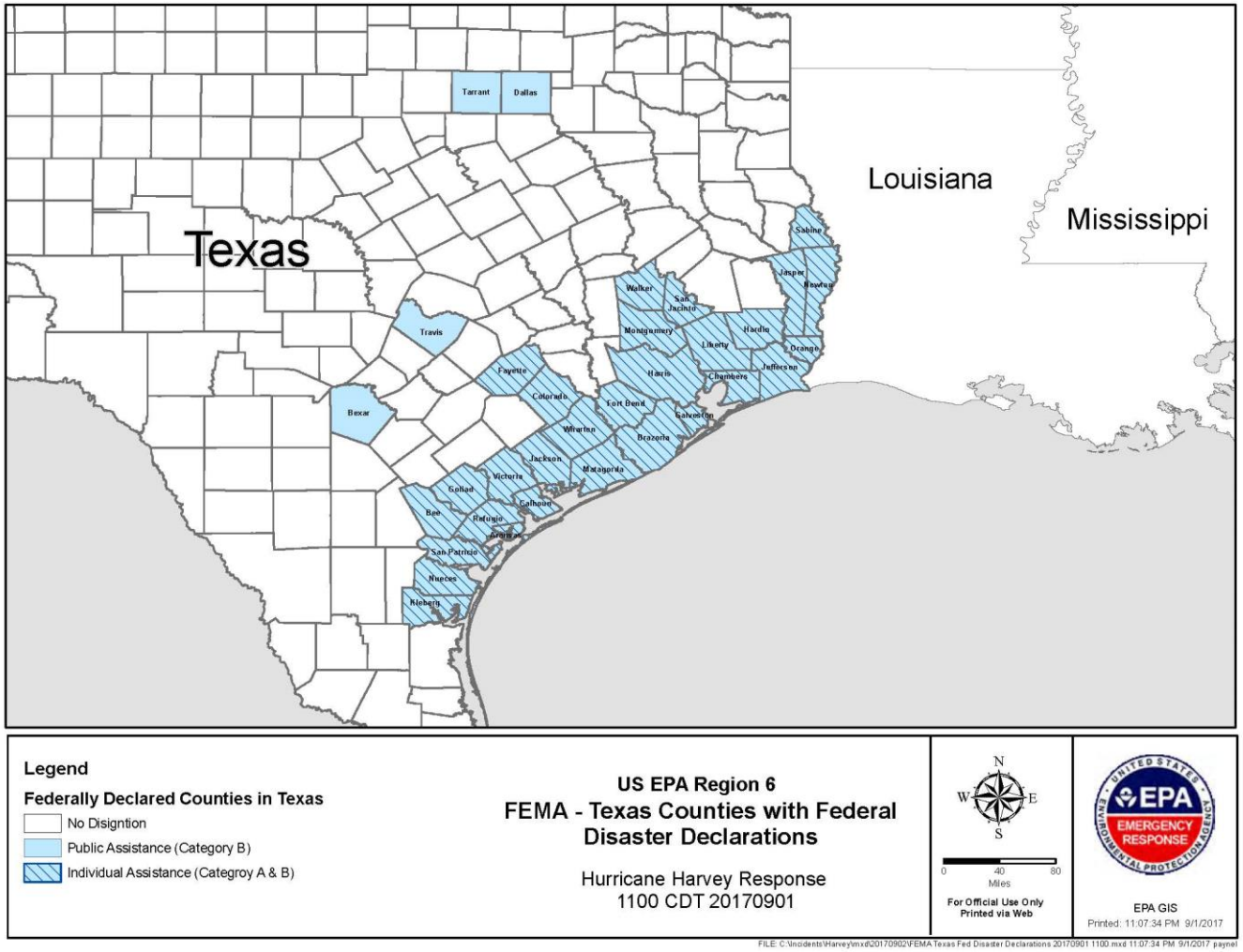
** Indirect costs represent the money the Cincinnati Shared Service Center takes off the top to manage the Mission Assignments

SUPERFUND NPL SITES



- No NPL site status updates are expected until Tuesday September 4, 2017.

FEMA – TEXAS COUNTIES WITH DISASTER DECLARATIONS



Superfund Sites within Federally Declared Counties			9/2/2017
	Status Summary		
TEXAS			
SITE NAME	**Inspected**	**Offsite Release**	**Onsite Damage**
BRINE SERVICE CO.	8/30/17	No	No
FALCON REFINERY	8/30/17	No	No
ALCOA (Point Comfort) / LAVACA BAY			
BAILEY WASTE DISPOSAL			
BRIO REFINING INC.			
CONROE CREOSOTING COMPANY			
CRYSTAL CHEMICAL CO.			
DIXIE OIL PROCESSORS INC.			
FRENCH, LTD.			
GENEVA INDUSTRIES / FUHRMANN ENERGY			
GULFCO MARINE MAINTENANCE			
HARRIS (FARLEY STREET)			
HART CREOSOTING			
HIGHLANDS ACID PIT			
JASPER CREOSOTING			
JONES ROAD GROUNDWATER PLUME			
MALONE SERVICES COMPANY			
MANY DIVERSIFIED INTERESTS, INC			
MOTCO, INC.			
NORTH CAVALCADE STREET			
PALMER BARGE LINE			
PATRICK BAYOU			
PETRO-CHEMICAL SYSTEMS, INC. (Turtle Bayou)			
SAN JACINTO RIVER WASTE PITS			
SIKES DISPOSAL PITS			
SOL LYNN / INDUSTRIAL TRANSFORMERS			
SOUTH CAVALCADE STREET			
STAR LAKE CANAL			
STATE MARINE OF PORT ARTHUR			
TEX-TIN CORP.			
TRIANGLE CHEMICAL COMPANY			

UNITED CREOSOTING CO.			
US OIL RECOVERY			

Superfund Sites within Federally Declared Counties			**9/2/2017**
		Status Summary	
LOUISIANA			
AMERICAN CREOSOTE DERIDDER			
D.L. MUD, INC.			
EVR-WOOD TREATING/EVANGELINE REFINING COMPANY			
GULF COAST VACUUM SERVICES			
GULF STATE UTILITIES (North Ryan Street)			
MALLARD BAY LANDING BULK PLANT			
SBA SHIPYARD			
PAB OIL & CHEMICAL SERVICE			

PHOTOS

Command and General Staff Meeting

EPA Command Post – Corpus Christi