Tropical Storm Harvey 2017
9/1/2017 – 0800 CDT Update

HIGHLIGHTS

Texas

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 report that temperature in the trailers have stabilized overnight due to cool conditions and because the material was initially refrigerated, aiding in the cooling of the trailer itself. Internal temperatures are expected to rise again once ambient temperatures increase today (around 90 degrees). Before temperatures stabilized it was reported as of 4:30 pm that three additional peroxide trailers are close to Self-Accelerating Decomposition Temperature (SADT) which is between 19 and 70 degrees Fahrenheit depending on the type of peroxide. The three trailers nearing SADT are reportedly within thirty feet of each other. These three trailers are part of six that are stationed closed together in the far north side of the facility, hence the possibility that all six could become ignite almost simultaneously because of proximity. Region 6 continues to work with Interagency Modeling Atmospheric Assessment Center on modeling of anticipated future releases at the site. The modeling products are being delivered to Unified Command.

Arkema has had no substantial changes since the first peroxide critical degradation/ decomposition and subsequent fire earlier on August 31, 2017. Due to unstable conditions access to the facility is still not possible and unsafe. The 1.5-mile radius evacuation is still in effect. ASPECT has performed 5 overflights with no detections, with the exception for 2 detections if benzoyl peroxide at approximately 5 ppm which is just above the detection limit. Mobile ground air monitoring for pollutants of concern including VOCs, SO2 and CO. Monitoring 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 non-detect at ground levels.

ASPECT aircrew will be moving their base of operations from Addison Airfield to Hobby Airfield. This will position the aircraft closer to the target areas and reduce the transit time by more than one hour. The ASPECT technical reach-back team will remain in Addison, Texas.

EPA Headquarters' Emergency Operations Center (EOC) has been activated and EPA has mobilized personnel to Austin, Houston and Corpus Christi in addition to providing response support in Dallas and Washington, DC. Currently, EPA has 98 employees dedicated to response activities and further deployments are happening daily. EPA field personnel are in Unified Command coordinating seven teams identifying and evaluating potential hazards posed by orphaned containers. The teams will determine actions needed to stabilize or remove items.

EPA is working closely with the Texas Commission on Environmental Quality to man a "call bank" to reach drinking water and waste water facilities to determine their needs and operational status. To date, TCEQ and EPA have determined that 53 drinking water systems are not functioning due to loss of power or damage from the storm. Another 58 drinking water systems are compromised and running on generator power. A total of 22 waste water systems are shut down. Boil water orders have been issued as appropriate. Army of Core of Engineers is working to locate pumps for them. They will either truck or fly them in. The system is good on chemicals and they do have chlorine tanks but they are secure in a building that is not impacted. Also, the Texas State Operations Center (SOC) is working to begin on hauling water as soon as a route is determined.

TCEQ priority is drinking water issues between Beaumont and Louisiana. TCEQ is assessing outages in Orange County, the Beaumont Water Plant is not currently operational, but staff are running a line to the Nueces River near the existing intake on a temporary basis so service can be restored. By noon tomorrow, they hope to be at half capacity, 10 MGD, and to full capacity of 20 MGD within 48 hours. Storage tanks are full or near full and valved off. The town is on a boil water notice. The residents are being provided bottled water and porta potties are being trucked in and set up.

Unified Command personnel inspected two Superfund sites in the Corpus Christi area. Both the Falcon Refinery Site and the Brine Service Site show no significant damage. No emergency clean up response for storm damage is needed at the two sites.

The EPA Public Information Unit in Dallas is fully operational and supported by a Public Information Assistance Team (PIAT). The Dallas PIO Unit distributed two EPA HQ-issued statements to R6 media, Congressional Offices, NGOs and other regional stakeholder lists. Administrator Pruitt's statement on the reported explosion at the Arkema facility in Crosby: https://www.epa.gov/newsreleases/epa-statement-reported-explosion-chemical-plant-crosby-texas ; EPA's joint statement with Texas officials responding to the Arkema incident: https://www.epa.gov/newsreleases/local-state-federal-joint-statement-texas-chemical-plant-fire . EPA also issued fuel waivers for 38 states and Washington, D.C. today to help ensure an adequate supply of fuel throughout the country in the aftermath of Hurricane Harvey. Learn more here: https://www.epa.gov/newsreleases/epa-approves-emergency-fuel-waivers-38-states-and-washington-dc-0

Louisiana

The EPA Regional Emergency Operations Center Liaison for the State of Louisiana, is reporting that the Louisiana Department of Environmental Quality (LDEQ) does not currently have any environmental emergencies resulting from the Hurricane Harvey rainfall. To date, LDEQ has not set up its IMT and does

not plan to unless something significantly changes. LDEQ is making calls associated with some waste water treatment plants in the area. The main focus for Louisiana at this point is supporting individuals evacuating from impacted areas in Texas. EPA continues to monitor the situation in Louisiana and stay in close communication with LDEQ.

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	30	1	1	10	2	6	22	72
START	5			1	3	5		14
ERRS						6		6
Other Contractors	1						5	6
TOTAL	36	1	1	11	5	17	27	98

*Additional personnel who are in transit may not be reflected in resource table.

On August 31, 2017, EPA deployed four teams made up of On Scene Coordinators and contractors to Houston to coordinate with TCEQ, TGLO, and US Coast Guard and begin responding to releases and spills at facilities. The teams will conduct rapid needs assessments, oil assessments, and hazards evaluations.

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 weather allows 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.

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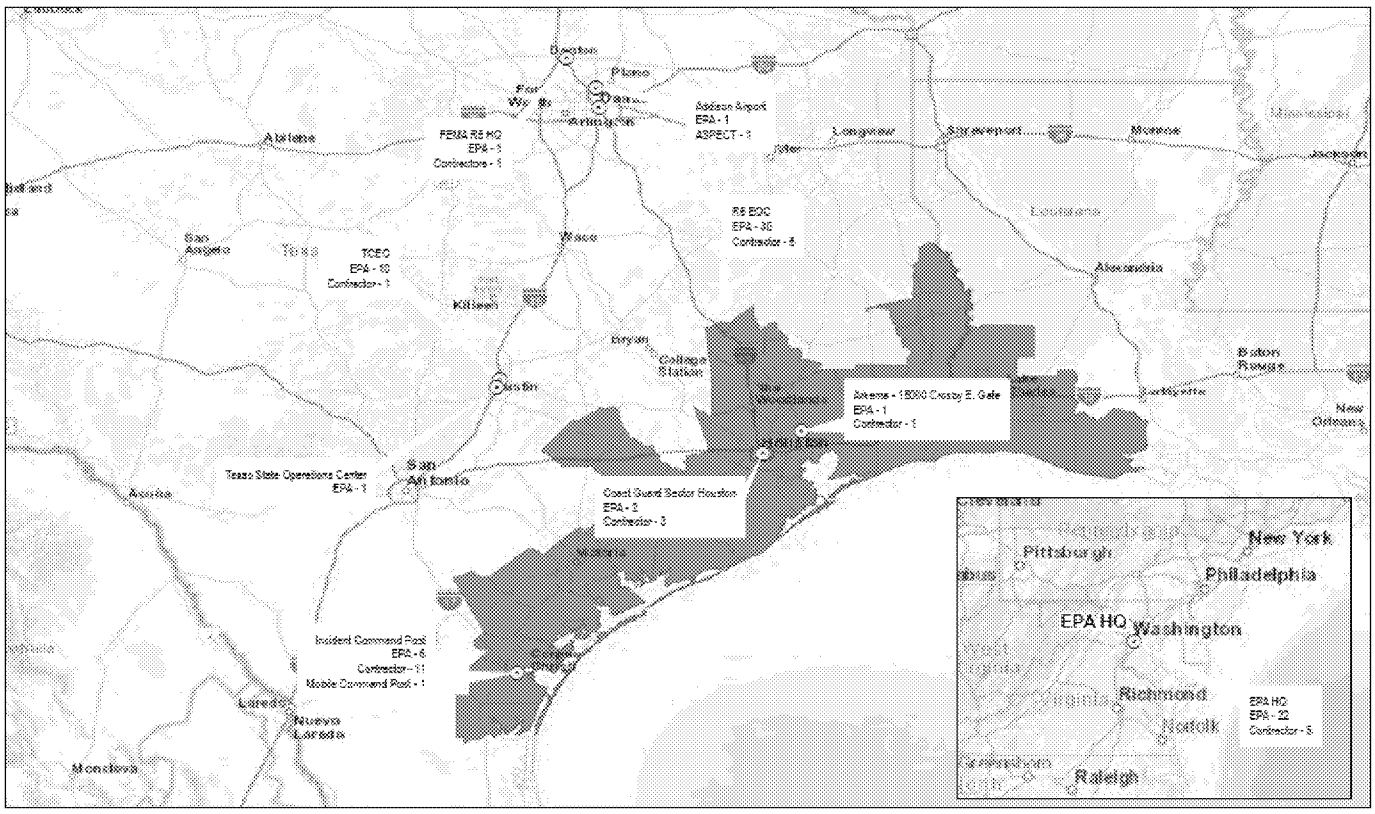


Legend

- Resource Location
- Federally Declared County/Parish

US EPA Region 6

Resources Locations Map

Hurricane Harvey Response

N
W E
S

0 40 80
Miles

For Official Use Only
Printed via Web

EPA GIS

Spill/Release Response

Hotline Calls as of August 31, 2017	
Number of Harvey Related Calls Received During Reporting Period 0100 and 1300 hrs	22
Total Number of Harvey Related Calls to Date	85

EPA is assessing each call to determine appropriate response and forwarding reports to field personnel to conduct further assessments and response as needed.

On August 31, 2017 the Unified Command had five teams in the field conducting reconnaissance. The teams consist of personnel from TCEQ, Civil Support Team (CST), EPA, and a USCG. These teams are conducting hazard evaluations of orphaned containers found during field reconnaissance in Corpus Christi. An additional twelve teams consisting of USCG and TCEQ were deployed to Houston to conduct hazard evaluations of orphaned containers found during field reconnaissance. Evaluations are used to determine actions needed to stabilize or remove items in the future. One TCEQ water infrastructure team is conducting water system assessments in the Corpus Christi area.

EPA Emergency Response Assets

ASPECT is making multiple overflights of the Arkema facility. Preliminary indications from the onboard infrared monitoring instruments indicate low levels of peroxide emissions. These detections were made about 200 meters downwind of the plant.

Drinking Water / Wastewater Assessments

One Water Infrastructure team consisting of two TCEQ staff are assessing systems based on information developed by the TCEQ/EPA call bank in Austin, TX. Additional EPA Region 6 Water Team members are prepared to deploy to Corpus Christi and Houston, Saturday 9/2/2017.

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	163
Bacteria Sample Results Pending	10
Out of Contact	21
On generator – lost pressure	10
No problems	1212
On generator – never lost pressure	13
No Status	2927
Lost pressure & or Treatment	54
Lifted boil water notice due to negative bacteria samples. Normal Ops resumed	57
System Destroyed	1
Not Operating	44

WW - Total # of Systems: 2467

STATUS	NUMBER OF SYSTEMS
System Destroyed	1
Contact Pending - Phone evaluation only	52
Out of Contact - phone evaluation only	5
No Problems	428
No Status	1912
Waste Water Treat. Plant and/or Collection on Generator or bypass pumps for Lift Station	25
Waste Water Treat. Plant and/or Collection non operational no Sanitary Sewer Overflow	29
WWTP and/or Collection Partially Operational Sanitary Sewer Overflow	16

EPA Laboratory/ Analytical Services

The Houston laboratory will be closed until Tuesday September 5, 2017. The laboratory and office building are not damaged. EPA has back up capabilities for laboratory services should the Houston facility remain closed.

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

Data Management

Continue to support operations in Corpus Christi and the Houston/Crosby area. Continue to coordinate with and support the TCEQ/EPA Drinking Water and Waste Water teams with their assessment operations. Continue to work with the PIO on a public information strategy that shows EPA resources deployed and the status of NPL Sites in the impacted areas.

Communications

ESF-15 FEMA Public Affairs is establishing a Joint Information Center in Austin at the newly established Joint Field Office (JF0). A request to staff the EPA PIO position at the JIC/JFO is on order. The EPA Public Information Unit in Dallas is fully operational and supported by a Public Information Assistance Team (PIAT). An EPA PIO is also in Corpus Christi to support operations there. The Dallas PIO Unit distributed two EPA HQ-issued statements to R6 media, Congressional Offices, NGOs and other regional stakeholder lists; EPA's joint statement with Texas officials responding to the Arkema incident: https://www.epa.gov/newsreleases/local-state-federal-joint-statement-texas-chemical-plant-fire)

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

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.

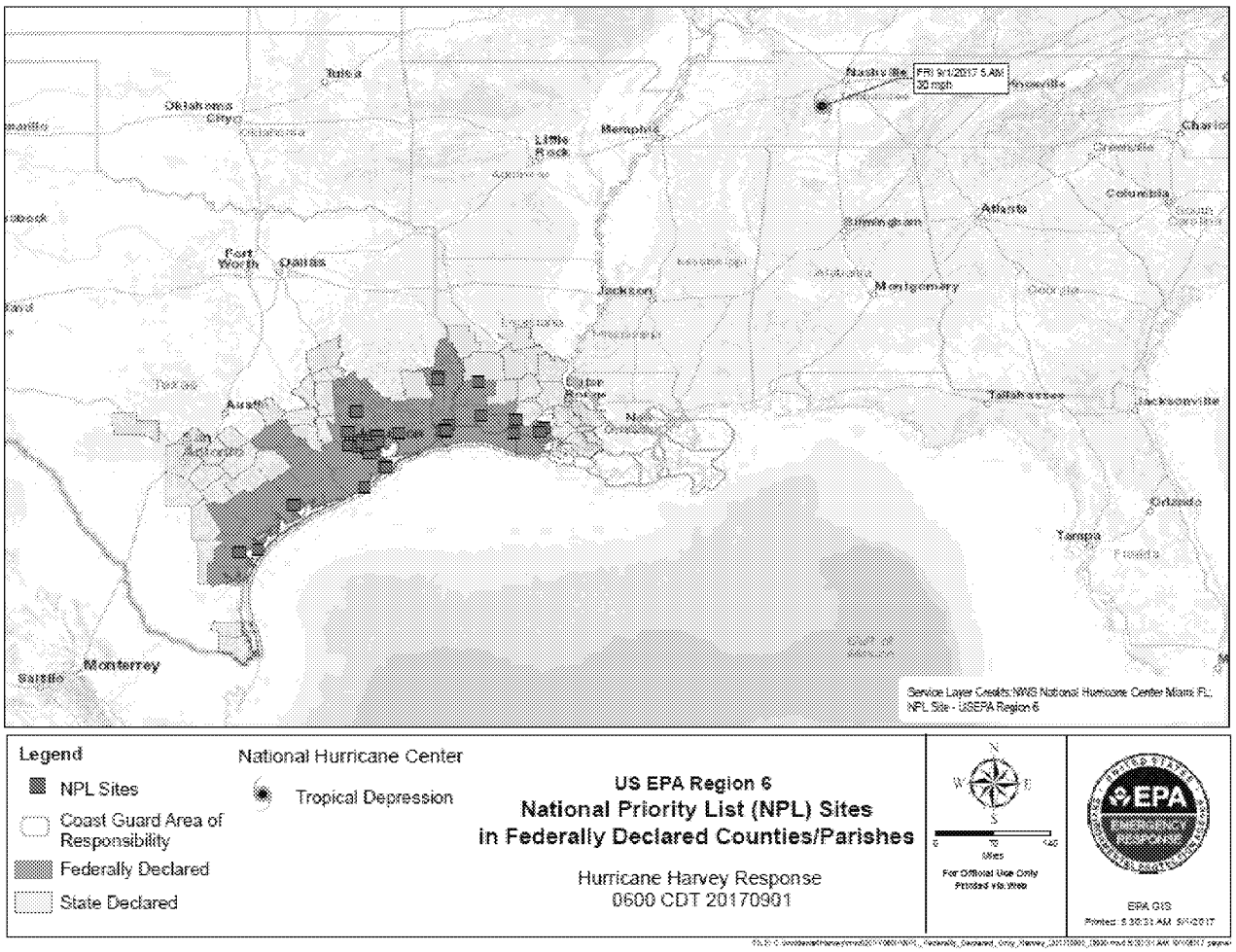
5. On August 30th, EPA issue a waiver for the temporary use of 11.5 PSI RVP gasoline in the following states: Alabama, Georgia, Kentucky, Maryland, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, Texas, Louisiana, Florida and the District of Columbia. For Texas and Louisiana, it expands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

Funding Sources	Funding Ceiling	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	$0.00	$20,000.00	
MA 4332DR-TX-EPA-03	$8,592,000.00	$75,864.86	$8,516,135.14	$37,932.43
Totals:	$8,612,000.00	$75,864.86	$8,536,135.14	

Superfund NPL Sites



Superfund Sites within Federally Declared Counties			8/31/2017
	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			
BRIO REFINING INC.			
CRYSTAL CHEMICAL CO.			
DIXIE OIL PROCESSORS INC.			
FRENCH, LTD.			
GENEVA INDUSTRIES / FUHRMANN ENERGY			
GULFCO MARINE MAINTENANCE			
HARRIS (FARLEY STREET)			
HIGHLANDS ACID PIT			
JONES ROAD GROUNDWATER PLUME			
MALONE SERVICES COMPANY			
MANY DIVERSIFIED INTERESTS, INC			
MOTCO, INC.			
NORTH CAVALCADE STREET			
PATRICK BAYOU			
PETRO-CHEMICAL SYSTEMS, INC. (Turtle Bayou)			
SAN JACINTO RIVER WASTE PITS			
SIKES DISPOSAL PITS			
SOL LYNN / INDUSTRIAL TRANSFORMERS			
SOUTH CAVALCADE STREET			
TEX-TIN CORP.			
US OIL RECOVERY			
LOUISIANA			
AMERICAN CREOSOTE DERIDDER			
GULF STATE UTILITIES (North Ryan Street)			
MALLARD BAY LANDING BULK PLANT			
SBA SHIPYARD			
PAB OIL & CHEMICAL SERVICE			
GULF COAST VACUUM SERVICES			
D.L. MUD, INC.			