Hurricane Harvey 2017
9/10/2017 – 0700 CDT Update

EXECUTIVE SUMMARY

- Office of Emergency Management Director Reggie Cheatham and OMB Budget Manager Jodi Beringer will visit the Region 6 Emergency Operations Center and ASPECT aircraft during scheduled maintenance in Addison today, September 10, 2017. They will travel to Houston on Monday, September 11, 2017 to tour EPA's command post, the Houston laboratory, TAGA mobile laboratory and the San Jacinto Waste Pits Superfund site.

- Monitoring teams identified elevated readings of volatile organic compounds in the area between Pasadena Refining Systems, Inc. and Kinder Morgan's Pasadena Terminal near the Houston Ship Channel and have scheduled additional air monitoring by the TAGA in the area on September 10, 2017.

- EPA has confirmed 21 of the 39 disaster declaration counties are currently providing private well testing for area residents. Four counties are offering free testing. The other seventeen are providing low cost ($16.50) well testing through the Department of Health. EPA is assessing if the remaining 18 counties need additional support.

- Community Liaison deployments continue to assist impacted counties by providing information about environmental and health challenges associated with returning to flood damaged homes.

- EPA shared approved fact sheets from TCEQ/EPA for returning residents to over 5,000 local, state, tribal and industry partners for further distribution.

- The Houston Branch and the Port Arthur/Beaumont Branch will both begin collection and staging of recovered orphan containers this week. Corpus Christi Branch is will complete reconnaissance activities within the next 10 days. Houston Branch is projected to complete these activities within 20 days and Port Arthur/Beaumont Branch within 30 days.

- As EPA prepares to complete response activities in different counties, a standardized procedure to formally close out with local officials (County Judge) will be completed prior to departure.

7026106

- EPA will complete sampling of the 43 Superfund sites potentially impacted by the storm by Tuesday. Preliminary analytical results should be available by Thursday. EPA continues to hear reports of sampling of Superfund site by the New York Times.

- EPA received an amendment to Mission Assignment 4332DR-TX-EPA-03 for an increase of an additional $1.5 million on September 9, 2017.

PUBLIC AFFAIRS

EPA Liaison Officers will hold a meeting at Salt Lake Baptist Church in rural Rockport, Texas on September 10, 2017, to meet with residents and disseminate information about environmental and health challenges associated with returning to flood damaged homes.

A joint news release from EPA and TCEQ was issued on September 9, 2017 updating the public on the Hurricane Harvey overall response.

DEBRIS RECOVERY

The Dallas REOC has been staffed with a Debris Management Technical Expert who participates as a member of the FEMA Debris Task Force.

EPA currently has no mission assignment for debris recovery operations.

AIR MONITORING

The four EPA air quality technical specialists deployed to Houston conducted total volatile organic compounds (VOC) area monitoring in the Ship Channel area. They used a photoionization detector and a forward looking infrared radiometer camera to monitor areas downwind of four refining and terminal facilities. The team reported that the only VOC readings of significance were observed in the area between Pasadena Refining Systems, Inc. and Kinder Morgan. The team recommended additional TAGA monitoring in that area. If TAGA identifies elevated levels of VOCs of benzene, personnel will conduct site specific evaluations.

EMERGENCY RESPONSE

Daily/Cumulative Summary of Hazard Evaluations/Recovery				
Status	**Opened**		**Closed**	
	9/9/2017	**Number of Targets Remaining Open**	**9/9/2017**	**Cumulative**
Corpus Christi Branch	5	31	0	89
Houston Branch	22	233	1	47
Port Arthur/Beaumont Branch	8	56	0	7
NRC Reports	0	3	0	0
TOTALS	**35**	**323**	**1**	**143**
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 (NON-VESSELS)				
Status	**Opened**		**Closed**	
	9/9/2017	**Number of Facilities/Spills Remaining Open**	**9/9/2017**	**Cumulative**
Corpus Christi Branch	0	14	1	34
Houston Branch	2	52	1	27
Port Arthur/Beaumont Branch	2	19	0	7
NRC Reports	1	131	5	44
TOTALS	**5**	**216**	**7**	**112**

Daily/Cumulative Summary of VESSELS				
Status	**Opened**		**Closed**	
	9/9/2017	**Number of Vessels Remaining Open**	**9/9/2017**	**Cumulative**
Corpus Christi Branch	12	419	22	149
Houston Branch	2	53	0	10
Port Arthur/Beaumont Branch	33	39	1	3
NRC Reports	0	6	0	1
TOTALS	**47**	**517**	**23**	**163**

FIELD RESPONSE ACTIVITIES

FIELD TEAMS ON 9/9/2017				
Teams	**Alpha**	**Bravo**	**Charlie**	**TOTAL**
Hazard Evaluation	1	15	4	20
Oil Discharge Assessment	2	4	1	7
ER/Orphan Container Recovery	1	5	1	7
Oil/Vessel Recovery	4	0	0	4
Staging Areas	1	1	0	2
Air Operations	0	1	0	1
Air Monitoring	0	3	0	3
Water Infrastructure Assessment – Drinking Water	0	10	0	10
Water Infrastructure Assessment – Wastewater	0	5	0	5
TOTAL	9	44	6	59

CORPUS CHRISTI BRANCH:

An Oil Discharge Assessment Team completed waste oil removal operations onboard the Signet Enterprise. A total of 400 gallons of waste oil was removed. The Signet Enterprise still has ballast

water on board. The Oil Discharge Assessment Team will be on the scene tomorrow to oversee the removal of all ballast water and complete a final assessment of oil and hazardous substances on board the Signet Enterprise.

The Oil Discharge Recovery Group coordinated and monitored Responsible Party led removal operations in Island Moorings, Rattle Snake Point, Ingleside, Seadrift, Harbor of Refuge and Holiday Beach. In preparation of the signing of Unified Command approved vessel removal protocols, the teams within the Oil Discharge Recovery Group prioritized threats to the environment for removal.

	CONTAINERS				**TOTAL**
	Drums [55 gals]	**Small Containers [<55 gals]**	**Large Containers [>55 gals]**	**Cylinders**	
9/9/2017	17	5	0	1	23
TOTAL TO DATE	74	36	8	18	136

HOUSTON BRANCH:

Fifteen Hazard Evaluation (HE) Teams conducted and completed assessments in Brazoria, Matagorda and Harris Counties. A total of 23 new sites were identified.

HE Assessment Status: 100% complete in Liberty, Austin, Waller, Chambers, Montgomery, Fort Bend, Galveston, Bastrop, Lee, Fayette, Colorado, Wharton, and Walker Counties; 90% complete in Brazoria, Matagorda and Harris Counties.

The Air Recon Team conducted an aerial assessment of the mouth of the Colorado River to Highway 59, the beginning of the Old Brazos River and the Brazos River to Highway 59, St. Bernard River to Highway 59 and Chocolate Bayou to Highway 6. During the assessment, the Air Recon Team identified three new sites and reinvestigated a report of a sunken vessel in Texas City. The Air Recon Team was unable to identify the sunken vessel; however, the position was marked for future reassessment.

ASPECT conducted two flights to complete 100% of all targeted Risk Management Program, Drinking Water and Wastewater facilities in east Brazoria County and most of Galveston County.

Valero Houston Refinery's Tank #3, Tank #228 (pinhole leak) and barge loading areas are the only potential sources of VOCs. Valero has a contractor coming to degas Tank #3. The TCEQ/EPA personnel who visited Valero yesterday detected no strong odors coming off the #3 tank. TCEQ has no plans to do additional air monitoring unless a complaint is received. Valero is conducting daily perimeter and community air monitoring. Valero is to notify EPA/TCEQ of barge loading operations are conducted in case of citizen complaints.

PORT ARTHUR/BEAUMONT BRANCH:

The Branch secured the staging pad for future recovery operations. The pad was sampled yesterday, September 9, 2017, prior to any container storage.

The Inland HE Team assessed Lumberton, Hardin County. Heavy oil stains were seen on Cook's

Lake Road. An investigation revealed that three tanks with a total volume of 2,000 gallons had leaked. The team contacted the Responsible Party, who has initiated a cleanup. TCEQ will oversee this cleanup.

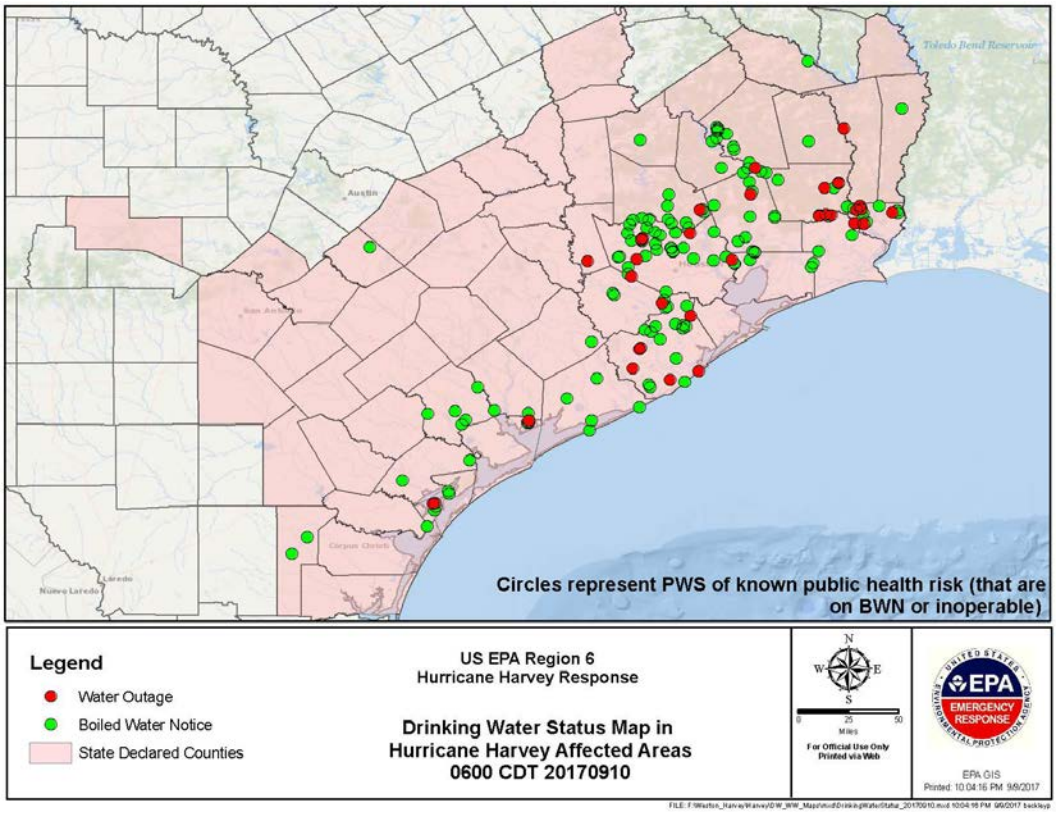
The Coastal HE Team investigated a citizen report of oil in Bessie Height Marsh, Jefferson County. The team identified fragmented sections of oil residue in a small area of marsh grass. There was no observed ongoing discharge. The team recorded the location and executed spill mitigation protocols.

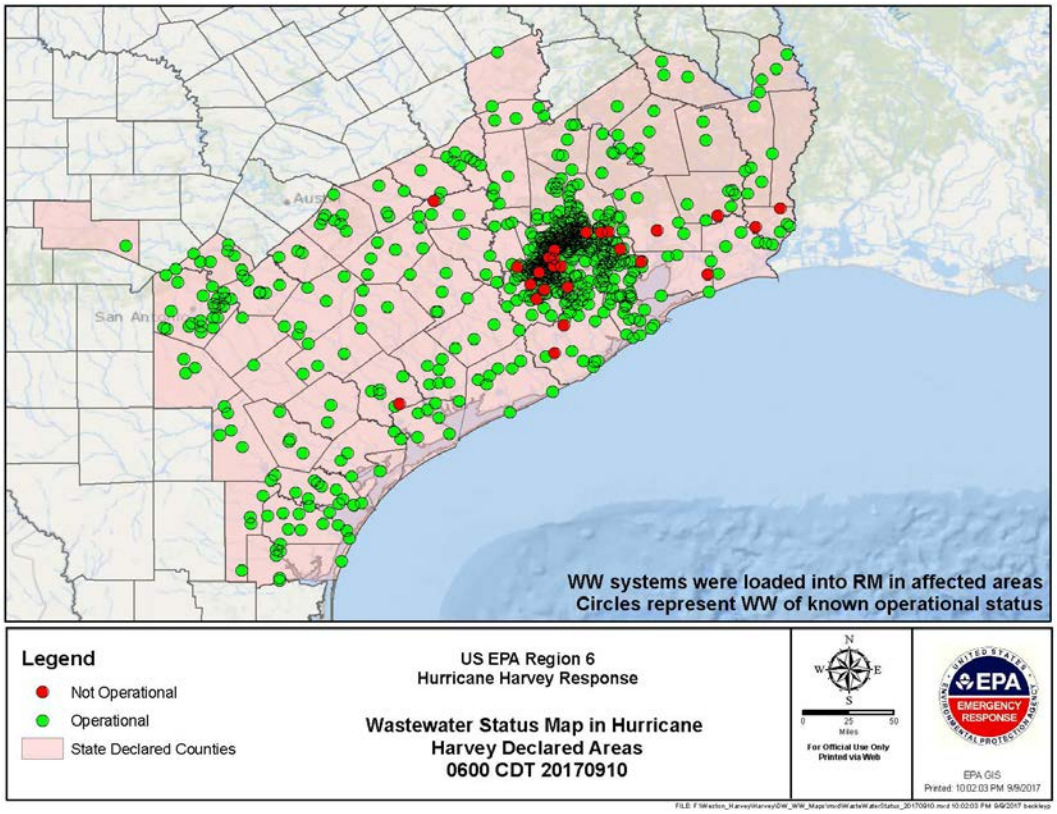
The Coastal HE Team also assessed four vessels at Angelet's Marina and 28 vessels at the Beaumont Yacht Club. There was no significant safety or environmental risks posed by the identified vessels.

DRINKING WATER / WASTEWATER ASSESSMENTS

EPA is providing support to TCEQ for drinking water and wastewater system assessments. Ten EPA personnel are conducting drinking water assessments in the Houston Branch, while an additional five personnel are conducting wastewater assessments.

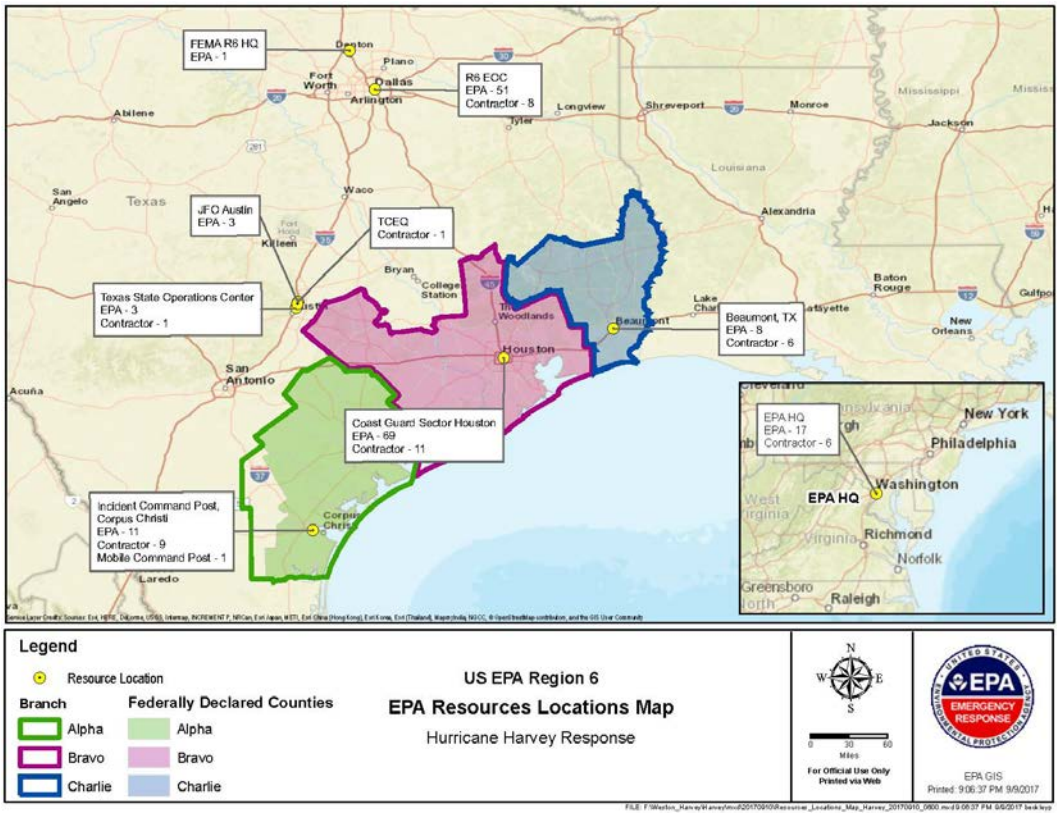
Drinking Water and Wastewater Assessments (September 9, 2017)		
Assessment Types	**Daily Assessments**	**Total Assessments**
On-Site DW Assessments	53	347
On-Site WW Assessments	26	237
Phone DW Assessments	331	5006
Phone WW Assessments	82	3026





EPA RESOURCES

Personnel	EPA Dallas, TX	FEMA Denton, TX	Texas JFO Austin, TX	Texas SOC Austin, TX	TCEQ Austin, TX	Houston, TX	Corpus Christi, TX	Beaumont, TX	HQ EOC, Wash, DC	TOTAL
EPA	51	1	3	3	0	69	12	8	17	164
START	8			1	1	11	9	6		36
ERRS						16	8	3		27
Other Contractors	1								6	7
TOTAL	60	1	3	4	1	96	29	17	23	234



FUNDING

September 9, 2017 – UPDATED 1700 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	$275,000.00	$242,741.00	$27,664.00	$215,077.00	$2,848.00	75.52
MA 4332DR-TX-EPA-03	$10,092,000.00	$8,884,727.00	$5,705,091.61	$1,878,985.39	$310,392.01	6.05
Totals	$10,367,000.00	$9,127,468.00	$5,796,955.61	$2,094,062.39		

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

REFINERIES/FUEL WAIVERS

- EPA has extended the current multi-state fuel waiver to September 26, 2017.
- EPA has granted all open fuel waivers requested to date.
- EPA has issued a No Action Assurance for the Use of Vapor Recovery Systems in Texas Related to Hurricane Harvey (September 1, 2017). EPA will exercise its discretion not to

pursue enforcement for violations of the vapor recovery requirements for fuel loading and unloading under 40 CFR Part 60 Subpart XX and Part 63 Subparts, R, Y, CC, BBBBBB, and 30 Texas Administrative Code sections 115.212, .214.

- The Internal Revenue Service expanded the red dye fuel waiver to cover the entire state of Texas, not just the 110 counties as before.

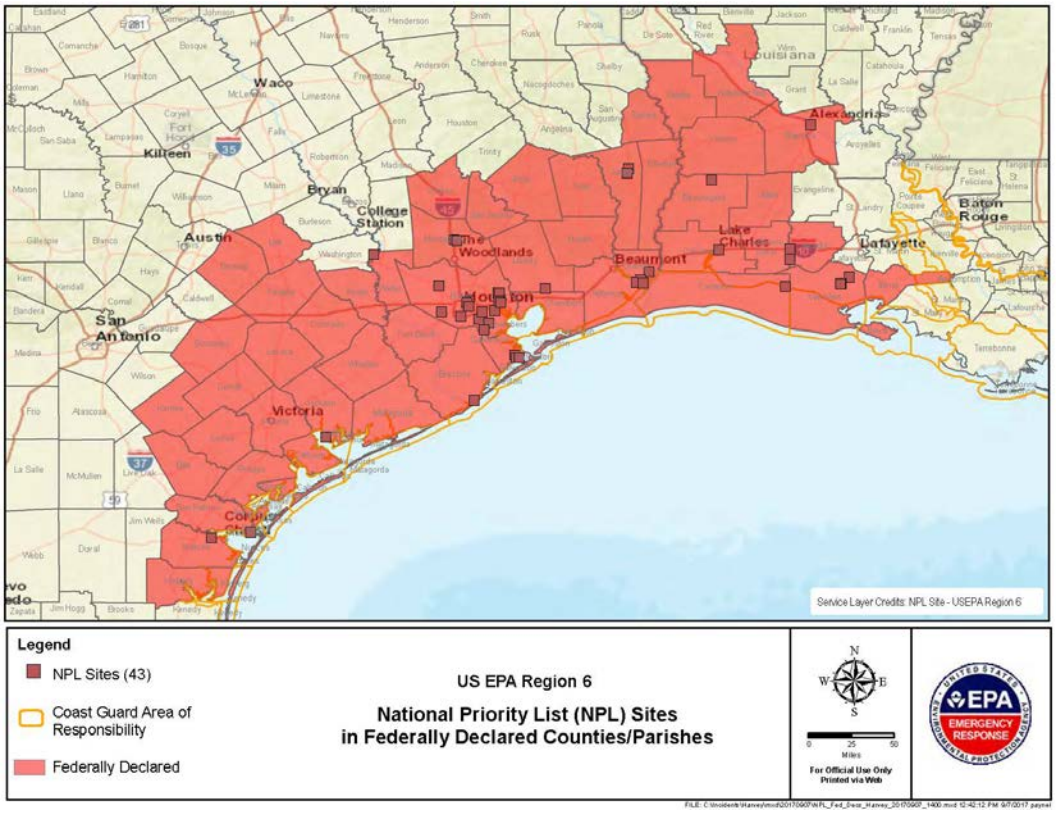
FEDERAL SUPERFUND NPL SITES

- EPA directed potentially responsible parties or independently started collecting samples at 34 Texas Superfund Sites to confirm no releases due to storm impacts. Two EPA field teams arrived on September 8, 2017, and will be joined by three additional field teams on September 11, 2017. Sampling has been completed at 11 sites. The sampling is part of a longer-term assessment that will be used to transition sites to their normal cleanup operations. Sampling will be complete by September 13, 2017, with preliminary un-validated results expected by September 16, 2017.

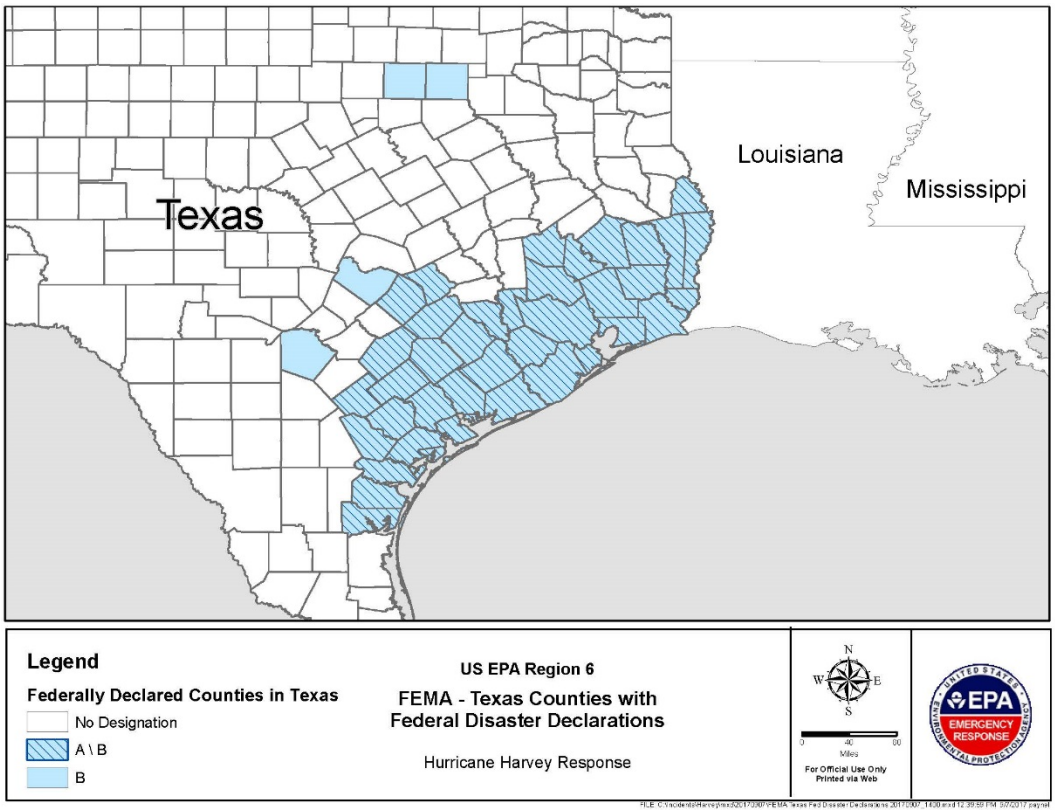
- All 43 Federal Superfund NPL Sites in the affected area have been assessed. Of these, 41 sites have been cleared, and two sites (San Jacinto Pits and US Oil Recovery) require additional follow-up.

    - U.S. Oil Recovery Update: Since September 5, 2017 a total of 29 vacuum truckloads of water (approximately 145,000 gallon) have been removed and shipped off-site for disposal. The potentially responsible party continues operating pumping equipment and a storage tank to maintain and control overflow. Sampling of the lift station water continues. In addition, soil and ground water samples were collected on September 8, 2017. No sheen or odor was observed in the overflowing water.

    - San Jacinto Waste Pits Update: Cap repairs are complete on the western part of Southern Berm while repairs continue on the remaining berm sections. Manual probing of capped areas, with oversight by the EPA Dive Team, continues and is expected to be completed September 11, 2017. Three areas on the northwest part of the cap have been identified for further investigation. The Dive Team is planning to enter the water September 11, 2017. The Dive team will collect sediment samples from areas identified as missing armor stone.



FEMA – TEXAS COUNTIES WITH DISASTER DECLARATIONS



9/9/2017 FIELD ACTIVITIES

PHOTOS

Houston Branch – Waste pad preparation

Houston Branch – EPA staff doing Hazard Evaluation

Corpus Christi Branch – Morning Operations Briefing