Hurricane Harvey 2017
9/13/2017 – 0700 CDT Update

EXECUTIVE SUMMARY

- EPA will complete sampling of the 34 Superfund sites in Texas impacted by the storm today, September 13, 2017. Preliminary analytical results for the Texas Superfund sites will be available by Saturday, September 16, 2017. Sampling at the nine Louisiana Superfund sites will be completed by September 15, 2017, and preliminary analytical results will be available by September 18, 2017.

- Community Liaisons continue to assist impacted counties by providing information about dealing with the environmental hazards of returning to flood damaged homes as well as obtaining input about other challenges or concerns.

- All three branches are recovering and staging orphan containers. The Corpus Christi Branch expects to complete activities within the next week. The Port Arthur/Beaumont Branch is projected to complete these activities within 20 days and the Houston Branch within 30 days.

- EPA Environmental Justice Director Arturo Blanco will travel to the Alabama-Coushatta tribe today, September 13, 2017.

PUBLIC AFFAIRS

EPA/TCEQ issued a joint news release updating the status of water systems affected by Hurricane Harvey.

Informational fact sheets for governmental entities and citizens have been posted on the response.epa.gov website.

DEBRIS RECOVERY

EPA's representative at the Joint Field Office (JFO) indicated that the state is currently assessing its capacity to manage debris collections and disposal. While EPA does not expect to receive a direct mission assignment for this work, we are planning to place two pairs of field observers in the Corpus Christi area and two pairs of field observers in the Houston area to ensure that debris is properly categorized for disposal.

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RECOVERY EFFORTS

EPA Region 6 has a representative at the Joint Field Office (JFO) providing support to Recovery Support Function activities.

EPA Region 6 responded to a September 1, 2017, letter from the Texas Water Development Board (TWDB) requesting flexibility in the use of State Revolving Fund (SRF) resources to address immediate recovery and future resiliency efforts. TWDB and EPA's Office of Water met on September 11, 2017 regarding SRF funding to address impacts. EPA Region 6 Acting RA responded on September 12, 2017, supporting flexibilities in the SRF program and committing to expedited reviews. A follow-up meeting is scheduled at the JFO for today, September 13, 2017, with TWDB and FEMA public assistance to discuss SRF interim/bridge funding to impacted communities.

VECTOR CONTROL

DOD aerial assets sprayed 199,190 acres in Orange, Jefferson, and portions of Chambers Counties last night, September 12, 2017, to control mosquitos. Orange County is now completed. The Texas Department of State Health Services' contractor completed spraying in DeWitt County and part of Lavaca County last night. Additional DOD aerial assets are due to arrive today to assist.

AIR MONITORING

The TAGA mobile laboratory and four air quality technical specialists monitored the neighborhoods adjacent to industrial sources, Southwest Shipyard–Brady Island and Channel Energy Center. TAGA monitoring was terminated early due to unfavorable wind conditions. On September 13, 2017, the TAGA is scheduled to finish monitoring neighborhoods surrounding four (4) industrial sources in Galena Park.

EMERGENCY RESPONSE

Daily/Cumulative Summary of Hazard Evaluations/Recovery				
Status	**Opened**		**Closed**	
	9/12/2017	**Number of Targets Remaining Open**	**9/12/2017**	**Cumulative**
Corpus Christi Branch	2	6	10	96
Houston Branch	17	145	73	132
Port Arthur/Beaumont Branch	32	44	42	48
NRC Reports	0	1	1	2
TOTALS	**51**	**196**	**126**	**278**
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**	
	9/12/17	**Number of Facilities/Spills Remaining Open**	**9/12/17**	**Cumulative**
Corpus Christi Branch	2	2	1	32
Houston Branch	0	29	2	41
Port Arthur/Beaumont Branch	1	8	2	12
NRC Reports	5	59	14	52
TOTALS	**8**	**98**	**19**	**137**

Note: Open means the target is yet to be recovered/cleaned up. Closed means the target was recovered/cleaned up by a Responsible Party or not found upon return to location.
* The number of targets remaining opened has changed as QA/QC efforts have taken place and due to corrections made to the coding. Previous amounts were the total number of targets opened overall, not just those remaining open.

FIELD RESPONSE ACTIVITIES

FIELD TEAMS ON 9/12/2017				
Teams	**Alpha**	**Bravo**	**Charlie**	**TOTAL**
Hazard Evaluation	2	1	3	6
Oil Discharge Assessment	2	4	1	7
ER/Orphan Container Recovery	1	9	2	12
Oil/Vessel Recovery	5	2	0	7
Staging Areas	1	1	1	3
Air Operations	0	1	1	2
Air Monitoring	0	3	0	3
Water Infrastructure Assessment – Drinking Water	0	8	1	9
Water Infrastructure Assessment – Wastewater	0	6	0	6
TOTAL	11	35	9	55

Waste Received at All Staging Pads to Date					
	CONTAINERS			**Cylinders**	**TOTAL**
	Drums [55 gals]	**Small Containers [<55 gals]**	**Large Containers [>55 gals]**		
9/12/2017	33	30	4	12	79
TOTAL TO DATE	**127**	**110**	**15**	**45**	**297**

CORPUS CHRISTI BRANCH:

An Oil Discharge Assessment team monitored Signet Enterprise salvage operations. Heavy lift straps, slings, and hoist cables were delivered to the site and load tested for the vessel lifting process which is planned for today, September 13, 2017.

Five Oil Discharge Removal Teams coordinated and monitored responsible party clean-ups and

prioritized threats to environment for removal in Laguna Madre, Padre Island Canals, Flour Bluff Canals, White Cap, Corpus Christi Bay, Ingleside, Nueces Bay, Mustard Island, the city of Corpus Christi, Copano Bay, Lamar Peninsula, Rattlesnake Point, and Holiday Beach.

HOUSTON BRANCH:

Nine Emergency Response and Orphan Container Recovery Teams recovered containers in Fort Bend, Harris, and Montgomery counties.

On September 12, 2017, EPA received a report from PCI Nitrogen (formerly Agrifos), in Pasadena, TX, that due to Hurricane Harvey, storm water run-off from the closed South Gyp Stack slopes inundated the concrete retaining wall and caused a section of the wall to collapse. An Assessment Team will investigate the report on September 13, 2017.

The ASPECT completed flight operations for the Harvey Response. A total of 134 Risk Management Program (RMP), 456 drinking water, and 105 waste water facilities were surveyed.

PORT ARTHUR/BEAUMONT BRANCH:

The Inland Task Force Hazard Evaluation Teams, Orphan Container Recovery Group and Oil Discharge Task Force conducted hazard assessments in Lumberton, Sour Lake, Port Arthur, Nederland, Sabine Pass, Beaumont, Bridge City, Beaumont Yacht Club, and Rose City.

Two Orphan Container Recovery Teams identified targets in Port Arthur, South Orange, Lumberton, Bridge City, and Grove.

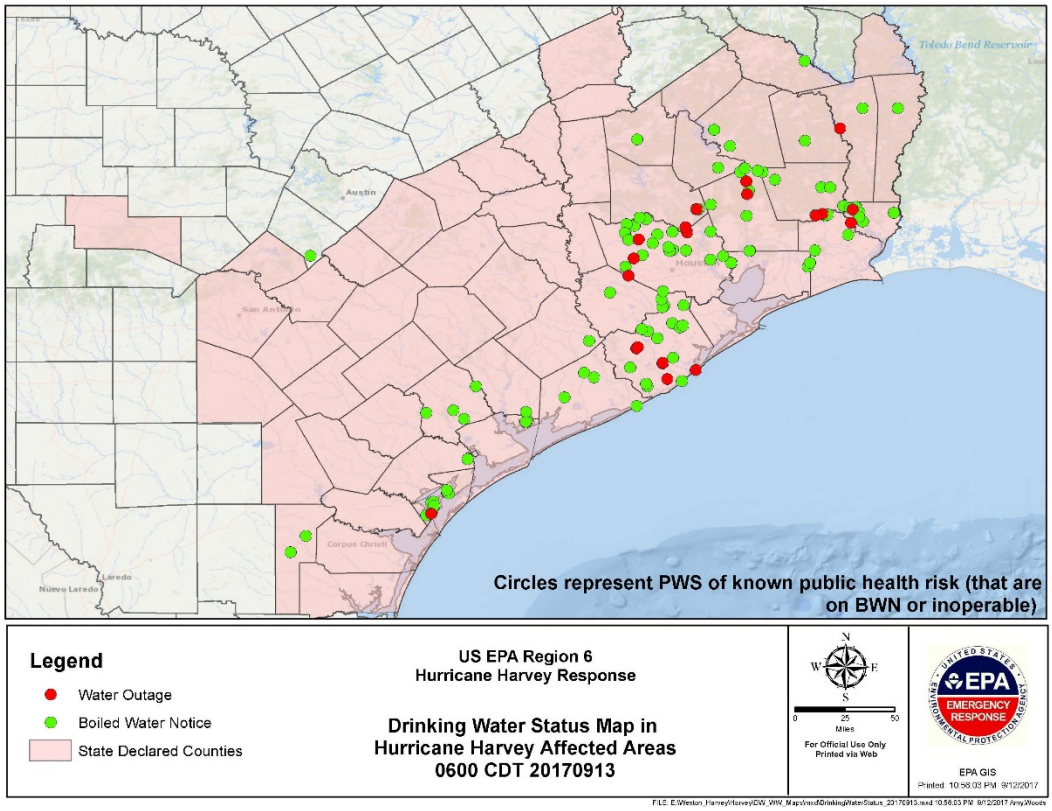
The Air Group flew assessments over the coast from the west/southwest of Jack Brooks Airport to the coast and Bravo/Charlie Branch boundary to Texas Point along the coast and southeast Beaumont area.

Assessments were conducted at Rainbow Bridge Marina and the Exxon Boat ramp in the Port Arthur area and the Beaumont Country Club launch area.

DRINKING WATER / WASTEWATER ASSESSMENTS

Fifteen EPA personnel are providing support to TCEQ for drinking water and wastewater system assessments in the Houston Branch.

Drinking Water and Wastewater Assessments (September 12, 2017)		
Assessment Types	**Daily Assessments**	**Total Assessments**
On-Site DW Assessments	73	518
On-Site WW Assessments	34	347
Phone DW Assessments	145	6237
Phone WW Assessments	126	4571


Toledo Bend Reservoir
Austin
Houston
San Antonio
Corpus Christi
Laredo
Nuevo Laredo
Circles represent PWS of known public health risk (that are on BWN or inoperable)
Legend
Water Outage
Boiled Water Notice
State Declared Counties
US EPA Region 6
Hurricane Harvey Response
Drinking Water Status Map in Hurricane Harvey Affected Areas
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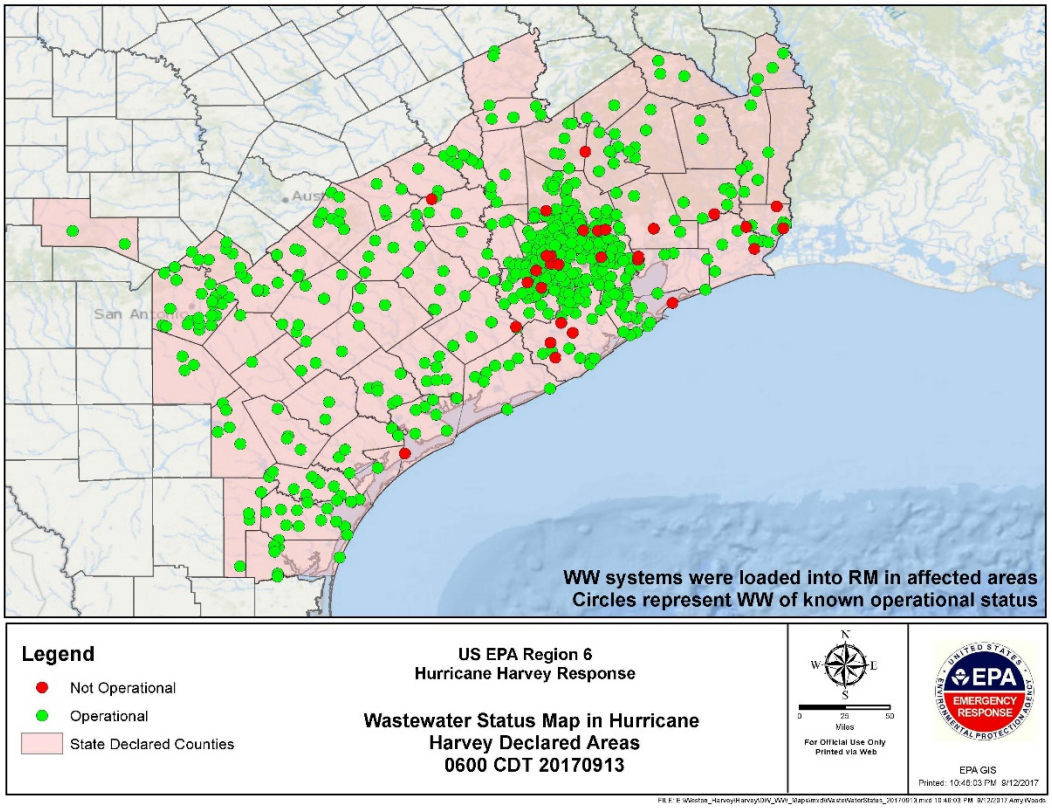
Austin
San Antonio
WW systems were loaded into RM in affected areas
Circles represent WW of known operational status
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Not Operational
Operational
State Declared Counties
US EPA Region 6
Hurricane Harvey Response
Wastewater Status Map in Hurricane Harvey Declared Areas
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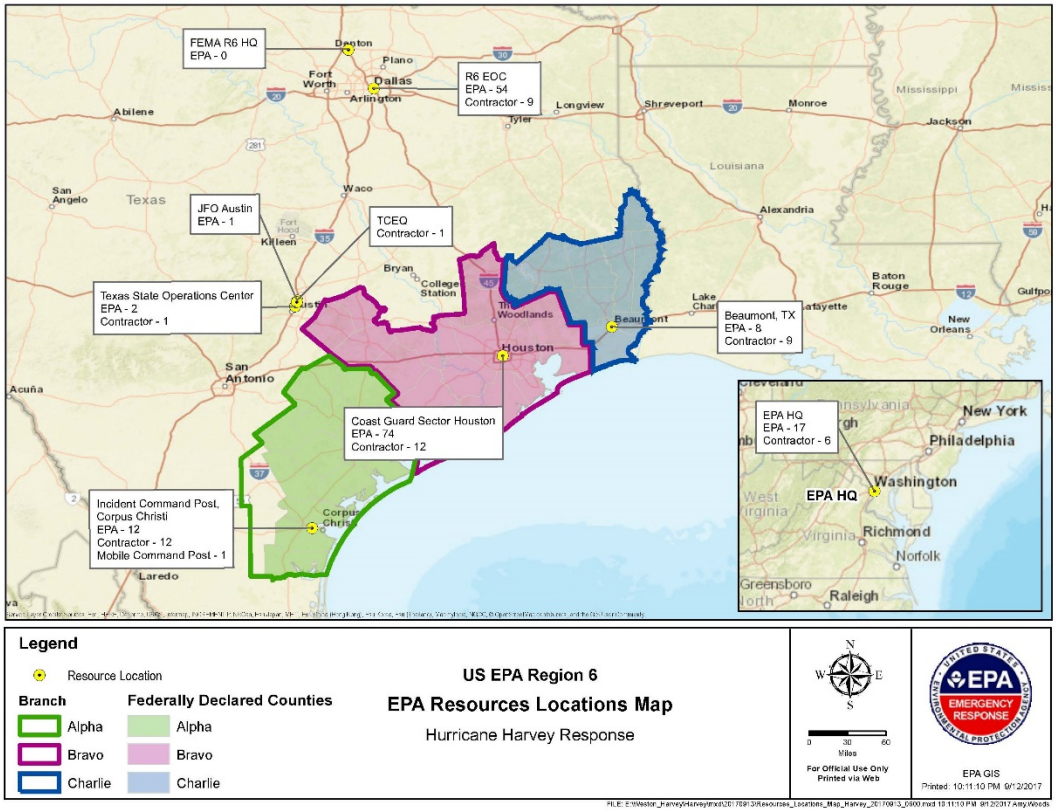
EPA RESOURCES

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	55	0	1	2	0	74	13	8	17	170
START	9			1	1	12	12	9		44
ERRS						19	6	5		30
Other Contractors	1								6	7
TOTAL	65	0	1	3	1	105	31	22	23	251



FUNDING

SitRep
September 12, 2017, UPDATED 1300 hours

Funding Sources	Funding Ceiling	Funding Ceiling Less Indirect	Obligated to Date	Estimated Spent to Date	Unobligated Dollars Remaining	Estimated Unspent Dollars	Daily Burn Rate	Days Remaining
Non Mission Assignment	N/A			$64,200.00	$0.00	$0.00		
MA 4332DR-TX-EPA-01	$275,000.00	$242,741.00	$30,512.00	$30,512.00	$212,229.00	$212,229.00	$3,664.00	57.92
MA 4332DR-TX-EPA-03	$10,092,000.00	$8,908,113.00	$6,914,755.01	$4,966,187.57	$1,993,357.99	$3,941,925.43	$324,857.33	see below
Totals:	$10,367,000.00	$9,150,854.00	$6,945,267.01	$5,060,899.57	$2,205,586.99	$4,089,954.43		
Days remaining based on authorized direct ceiling minus total payroll, travel, and contracts EXPENDED								12.13
Days Remaining based on authorized ceiling minus total payroll, travel, and contract OBLIGATIONS								6.79

** The indirect cost pool consists of all costs classified as indirect for all appropriations that fund administrative, management and support functions.

NOTE: This report includes estimated cumulative costs of the HQ EOC charging under MA#03 (09/12/17)

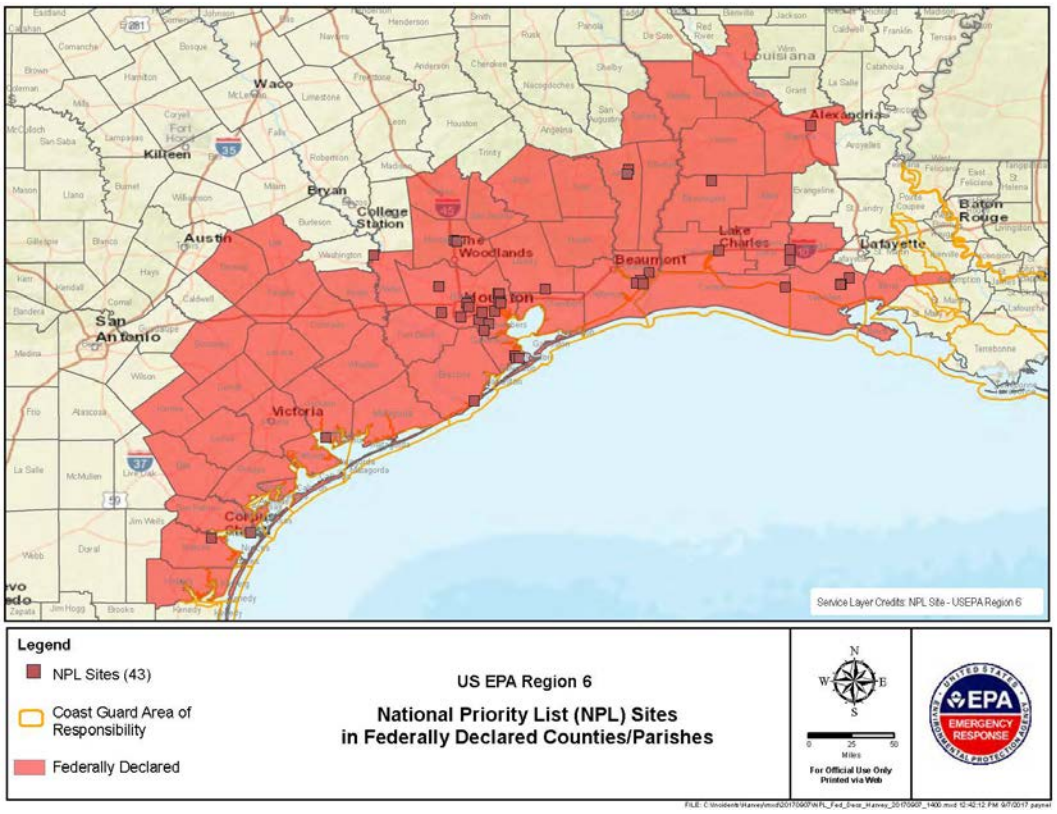
REFINERIES / FUEL WAIVERS

- EPA extended the 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 red dye fuel waiver to covers the entire state of Texas

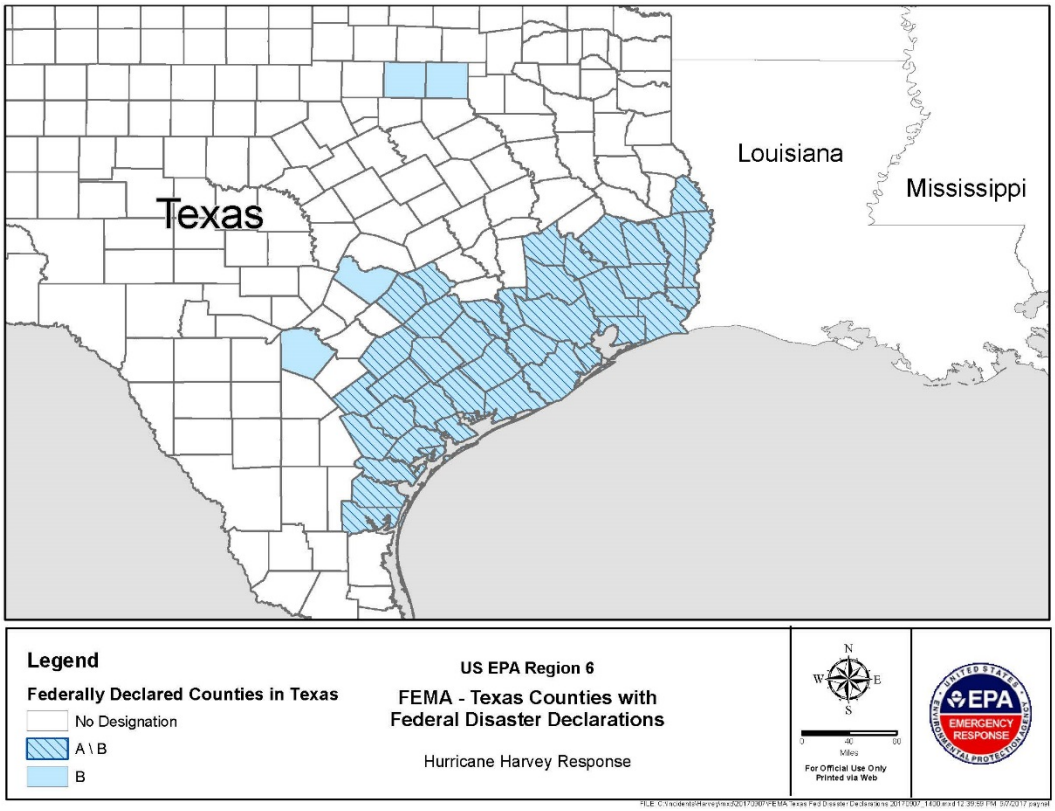
FEDERAL SUPERFUND NPL SITES - (These activities are being done concurrently but outside of the current Mission Assignment)

- EPA directed potentially responsible parties (PRPs) or independently started collecting samples at 34 Texas Superfund Sites and nine Louisiana Sites to confirm no releases due to storm impacts. Six EPA field teams, along with potentially responsible parties, completed sampling at 33 sites. Sampling in Texas will be complete by today, September 13, 2017 and sampling in Louisiana will be complete by September 15, 2017. Preliminary un-validated results for sites located in Texas are expected by September 16, 2017 and for the site located in Louisiana are expected by September 18, 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 Waste Pits and U.S. Oil Recovery) require additional follow-up.
    - U.S. Oil Recovery Update: The PRP continues to pump down operations to maintain freeboard. Since the time the pump down operations began, after the hurricane landfall, a total of 58 truckloads of storm water (approximately 290,000 gallons) have been removed from the site. The PRP continues to remove sludge globules observed on the ground surface near the Gravity Thickener.
    - San Jacinto Waste Pits Update: Cap repairs continue on the remaining berm sections and cap probing continues. The Dive team assessed areas identified as

having missing armor stone on September 11, 2017, and a sample plan will be developed based on this assessment.



FEMA – TEXAS COUNTIES WITH DISASTER DECLARATIONS



Corpus Christi Branch – Field Screening of Unknown Container Contents

Houston Branch – EPA Staff Prepping for Air Operations

Houston Branch – Water Assessment Team

Corpus Christi Branch – Large Container Recovery near Aransas Pass

San Jacinto Waste Pits:
EPA Dive Team Checking on Cap