Hurricane Harvey-Texas
ESF-10
Situation Report #14

Subject: **SITREP #14**
To: Agency Leads
Thru: Matthew Loesel, PSC
From: Unified Command
Date: 9/12/2017
Reporting Period: 9/12/2017

1. Introduction

1.1. Background

Hurricane Harvey made landfall at 2300 ET, August 26th, as a Category 4 storm near Rockport, Texas. Harvey stalled over southeastern TX. Due to its slow motion and a prolonged period of onshore flow, the impacted areas received more than 50 inches of precipitation which subsequently led to catastrophic flooding.

An ESF-10 Mission Assignment was signed on August 28, 2017. The US Environmental Protection Agency (EPA), Texas Commission on the Environmental Quality (TCEQ), Texas General Land Office (TGLO) and the US Coast Guard (USCG) have entered into Unified Command to begin the evaluation, clean-up and recovery of spills, releases, vessels and orphan containers.

2. Current Activities

2.1. Operations Section

On September 12, 2017, Unified Command continued operations in accordance with the Natural Disaster Operational Workgroup (NDOW) Standard Operating Procedures, NDOW forms and Response Manager. The Unified Command is supported by three operational branches: Alpha Branch in Corpus Christi, Bravo Branch in Houston and Charlie Branch in Port Arthur. Hazard Evaluation, Oil Discharge Assessment and Recovery, as well as Orphan Container Evaluation and Recovery teams continued working throughout the Alpha, Bravo and Charlie Branches. Drinking Water (DW) and Waste Water (WW) Assessment teams were active in the Bravo and Charlie Branches.

- ASPECT has completed all missions for the IMT and will be returning to base on September 13, 2017.
- The Portable High- Throughput Integrated Laboratory Identification System (PHILIS) will finish sample processing on September 15, 2017.
- If site conditions are favorable, EPA's mobile air monitoring Trace Atmospheric Gas Analyzer (TAGA) bus will complete monitoring in the Manchester area on September 13, 2017.

Mission Assignment:

Request ESF-10 assistance to the State of Texas in support of assessment and response operations to actual or threatened hazardous materials and oil releases/discharges as covered under Category B (Emergency Protective Services) for Public Assistance. The assistance includes response to releases/discharges from fixed facilities, vehicles, intermodal container (to include orphaned containers) and vessels (mobile) sources to remove the threat of imminent danger or contamination to the public that could be caused by any release.

Table 1: Mission Assignments

Funding Sources	Description	Funding Ceiling	End Date
MA 4332DR-TX-EPA-03	As requested by the State of Texas, provide assessment and emergency response support to the State including water/wastewater treatment plant assessments, aerial assessments	$10,092,000	9/22/2017
USCG MA D17BA1	USCG will provide oil and hazardous materials field response which may include but not limited to the placement of vessels removed of pollutions to a pre-determined staging area; providing specialized expertise; conducting damage assessment of oil/ hazmat waste impact via air and/or water; contractor oversight; evaluating hazards; and/or response, removal, or disposal of: actual and potential oil discharges, and releases of hazardous materials, pollutants and contaminations, and remove pollutants from vessels in or upon navigable waters and adjoining shoreline.	$20,000,000	9/21/2017

Unified Command Liaison officers met with two EPA Community Liaisons that will be visiting counties in the Alpha Branch. The Community Liaisons coordinated information on locations of focused interest. The Unified Command Liaison Officer sent links to 20 approved flyers of information to all Local Emergency Planning Committees (LEPC), Emergency Managers and EOC contacts in the affected areas of response. The links are available on the https://response.epa.gov site. Liaisons will be following up with Rockport officials on a request for assistance from an outreach center.

Public Information Officers have updated input for the Unified Command activities news releases concurred on and submitted. The US Coast Guard photos were added to the Story Board on EPA's https://epa.maps.arcgis.com/apps/MapJournal/index.html?appid=fadbae6b2832436fb65ca497bd75b9a6 website. An Assistant Public Information Officer will be mobilized to the Bravo Branch Operations for coordinating of messaging on Unified Command activities.

The State of Texas provided Unified Command with a list of Community Water System facilities to be assessed. The list has been divided by Branch, and the Branches are currently reviewing the list to determine the appropriate assessment activities that will be needed.

Table 2 represents the up to date assessments of drinking water and waste water systems evaluated by both phone and on-site.

Table 2: Drinking Water and Waste Water Assessment

Assessment Types	Daily Assessments	Total Assessments
On-Site DW Assessments	73	518
On-Site WW Assessment	34	347
Phone DW Assessments	145	6237
Phone WW Assessments	126	4571

Table 3: Field Teams on 9/12/2017 – per IAP #14				
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**		**3**
Water Infrastructure Assessment – DW	**0**	**8**	**1**	**9**
Water Infrastructure Assessment – WW	**0**	**6**	**0**	**6**
Totals	**11**	**35**	**9**	**55**

Table 4: Daily/Cumulative summary of Hazard Evaluations/Recovery*				
Status	**Opened**		**Closed**	
	9/12/2017	**Number of Targets Remaining Open**	**9/12/2017**	**Cumulative**
Alpha Branch	2	6	10	96
Bravo Branch	17	145	73	132
Charlie Branch	32	44	42	48
NRC Reports	0	1	1	2

* The data from Response Manager has undergone a complete QA/QC and data was corrected as necessary. Due to this effort, numbers of targets Open and Closed has changed from previous reports. The data now shows a more accurate picture of targets remaining open and those which have been closed.

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.

Table 5: Waste Received at All Staging Pads to Date						
	CONTAINERS				TOTALS	
DATE	Drums [55gal]	Small Containers [< 55gal]	Large Containers [> 55gal]	Cylinders	Total Items Collected Today	Total Items Collected Project to Date
9/12/2017	**33**	**30**	**4**	**12**	**79**	**297**
Totals	**127**	**110**	**15**	**45**		

Table 6: Daily/Cumulative Summary of Spills/Discharges (NON-VESSELS)*				
Status	Opened		Closed	
	9/12/2017	Number of Facilities/Spills Remaining Open	9/12/2017	Cumulative
Alpha Branch	2	2	1	32
Bravo Branch	0	29	2	41
Charlie Branch	1	8	2	12
NRC Reports	5	59	14	52
Totals	**8**	**98**	**19**	**137**

* The data from Response Manager has undergone a complete QA/QC and data was corrected as necessary. Due to this effort, numbers of targets Open and Closed has changed from previous reports. The data now shows a more accurate picture of targets remaining open and those which have been closed.

Note: Open means the target is yet to be recovered/cleaned up. Closed means the target was recovered/cleaned up by an RP or not found upon return to location.

Table 7: Daily/Cumulative Summary of VESSELS*				
Status	**Opened**		**Closed**	
	9/12/2017	**Number of Vessels Remaining Open**	**9/12/2017**	**Cumulative**
Alpha Branch	16	216	22	185
Bravo Branch	2	45	2	15
Charlie Branch	7	10	1	5
NRC Reports	0	6	1	5
Totals	**25**	**277**	**26**	**210**

* The data from Response Manager has undergone a complete QA/QC and data was corrected as necessary. Due to this effort, numbers of targets Open and Closed has changed from previous reports. The data now shows a more accurate picture of targets remaining open and those which have been closed.

Note: Open means the target is yet to be recovered. Closed means the target was recovered/cleaned up by an RP or not found upon return to location.

Other Notable Activities

ALPHA BRANCH

An Oil Discharge Assessment team monitored salvage operations associated with the Signet Enterprise. The lift straps, slings, and hoist cables for the Signet Enterprise's heavy lift operation were repositioned and load tested and initial tests were satisfactory. The observations and surveys around the geographic area found no pollution or safety issues. Heavy lift straps, slings, and hoist cables are in place for the vessel lifting process which, pending environmental conditions and human factors, should commence tomorrow.

The Oil Discharge Removal Teams coordinated and monitored responsible party led operations 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. In addition, teams updated vessel positions with individual GPS coordinates and coordinated and monitored responsible party led operations in Port Lavaca, Indianola, Matagorda Bay, Nautical Landings Marina and Harbor of Refuge.

BRAVO BRANCH

The Emergency Response and Orphan Container Recovery Teams conducted emergency orphan container recovery and water- based recovery operations at various designated targets. Teams recovered targets in portions of Fort Bend, Harris, and Montgomery counties.

ASPECT has completed flight operations for the Harvey Response. Please find ASPECT Harvey mission facilities surveyed totals as follows:

Risk Management Program (RMP) = 134
Drinking Water (DW) = 456
Waste Water (WW) = 105

A total of 28 mission were conducted over the course of the response.

CHARLIE BRANCH

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

The Oil Discharge Task Force assessed 4 targets. They had discussions with responsible parties determined that two targets will be cleaned up/recovered in the future and one of the targets will be inaccessible due to its location inside a refinery. The last target was closed as it was cleaned up/ recovered.

The Orphan Container Recovery Teams identified targets in Port Arthur, South Orange, Lumberton, Bridge City and Grove. Several targets are only accessible by boat as they are located within or along the Sabine Neches Waterway system.

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

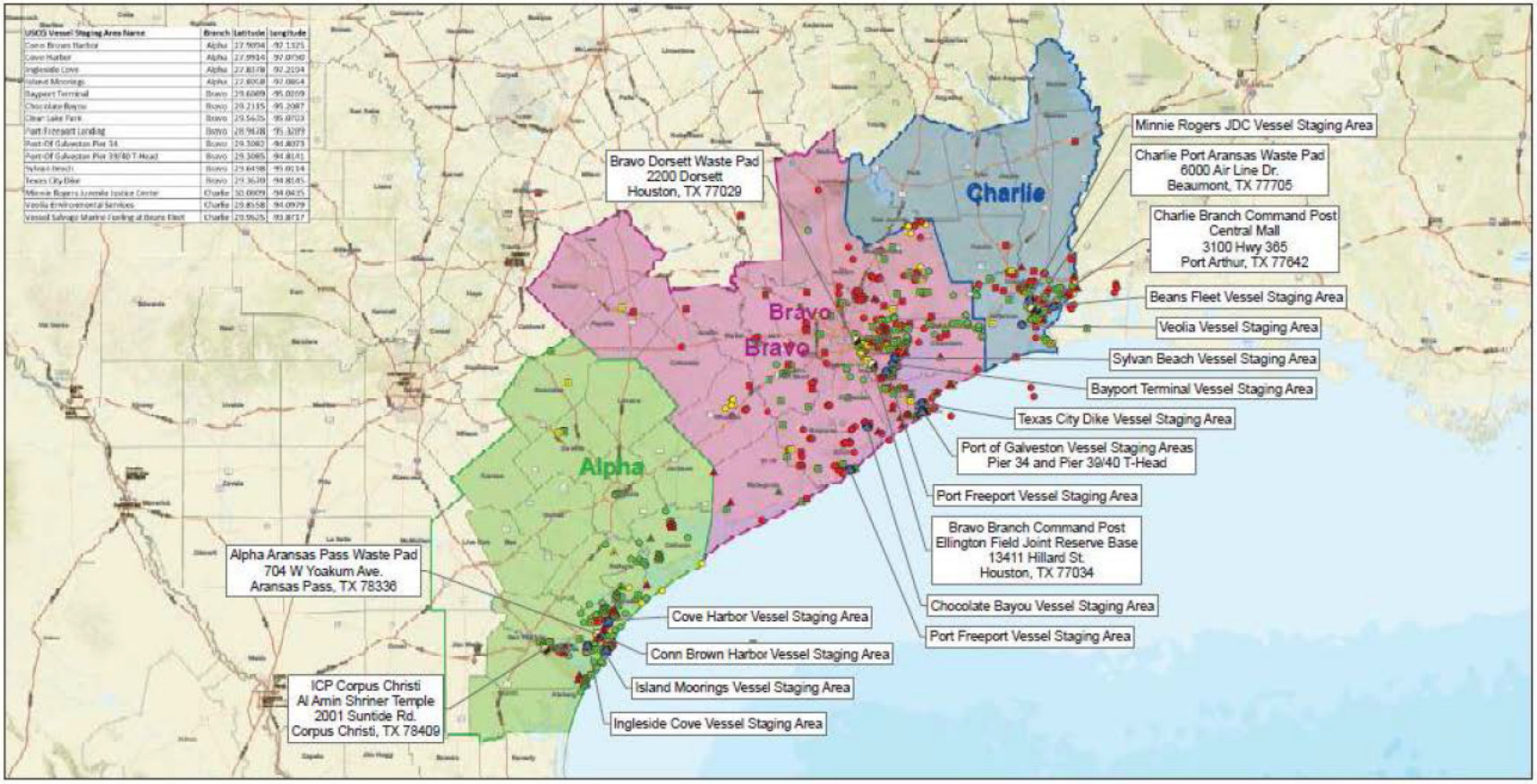
An assessment was conducted at Rainbow Bridge marina and Exxon Boat ramp (Port Arthur area) as well as Beaumont Country club launch (Beaumont) areas and placarded vessels for salvage.

Participating Agencies

- **Texas Commission on Environmental Quality**
- **Texas General Land Office**
- **Texas Parks and Wildlife**
- **US Environmental Protection Agency**
- **US Coast Guard**
- **National Oceanic and Atmospheric Agency**

3. Personnel on Site

Agency	ICP	Alpha Branch	Bravo Branch	Charlie Branch	Totals
US EPA	12	2	37	7	58
USCG	19	22	36	31	108
TCEQ	1	2	19	16	38
TGLO	3	2		6	11
TXSG			8		8
CST			10		10
NOAA	1				1
Contractors	5	2	6	17	30
Totals	41	30	116	77	264



USCG Vessel Staging Area Name	Branch	Latitude	Longitude
Conn Brown Harbor	Alpha	27.9094	-97.1325
Cove Harbor	Alpha	27.9934	-97.0730
Ingleside Cove	Alpha	27.8378	-97.2194
Island Moorings	Alpha	27.8068	-97.0864
Bayport Terminal	Bravo	29.6089	-95.0019
Chocolate Bayou	Bravo	29.2115	-95.2087
Clear Lake Park	Bravo	29.5635	-95.0703
Port Freeport Landing	Bravo	28.9628	-95.3219
Port Of Galveston Pier 34	Bravo	29.3083	-94.8073
Port Of Galveston Pier 39/40 T-Head	Bravo	29.3085	-94.8141
Sylvan Beach	Bravo	29.6498	-95.0134
Texas City Dike	Bravo	29.3639	-94.8145
Minnie Rogers Juvenile Justice Center	Charlie	30.0909	-94.0435
Veolia Environmental Services	Charlie	29.8558	-94.0979
Vessel Salvage Marine Fueling at Beans Fleet	Charlie	29.9625	-93.8737

Legend

Federally Declared Counties: in Alpha; in Bravo; in Charlie

Incident Command Post (ICP) /Staging Area

Vessel Staging Location

Facility/Spill Assessment
- Open
- Open - Cleanup in Progress
- Closed

Haz/Eval Items
- Open
- Open
- Closed

Access Denied/ Leave in Place/ Refer to Other Agency

Vessels
- Open
- Open - Cleanup in Progress
- Closed

USA EPA REGION 6 SITREP Map Alpha, Bravo, Charlie

Hurricane Harvey Response
September 12, 2017

N W E S

0 30 60 Miles

For Official Use Only

EPA GIS
Printed: 6:09:08 PM 9/12/2017