Hurricane Harvey-Texas
ESF-10
Situation Report #3

Subject: **SITREP #3**

To: Agency Leads

Thru: Matthew Loesel. PSC
From: Unified Command
Date: 9/1/2017
Reporting Period: 9/1/2017

1. Introduction

1.1. Background

Hurricane Harvey made landfall at 2300 ET, August 26th, as a Category 4 storm near Rockport, Texas. Harvey was downgraded to a Category 1 with maximum sustained winds of 85 mph and located approximately 25 miles southwest of Victoria, TX by 0700 on August 27th and moving northwest at 6 mph. Harvey stalled over southeastern TX through the middle of the week. Due to the slow motion of Harvey and a prolonged period of onshore flow, water levels remain elevated. The impacted area received more than 50 inches of precipitation and catastrophic flooding occurred. Harvey was eventually downgraded to a tropical storm with maximum sustained winds of 45 mph.

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 and orphan containers.

1.2. Incident Objectives (Updated on 9/1/2017)

- Provide for the safety, welfare and security of response personnel.
- Maximize the protection of public health and safety.
- Identify affected drinking water and wastewater systems in each area, evaluate the systems to determine their operational status and facilitate system contact with Federal, State and local agencies (provide technical assistance).
- Conduct wide area assessment to identify orphaned containers equal to or greater than 5 gallons, potential or actual discharges from vessels and/or facilities, and

document the most effective means for recovery or mitigation in accordance with Natural Disaster Operations Workgroup protocols.

- Prioritize, mitigate/recover product and monitor identified pollution targets.
- Assess DHS critical infrastructure and RMP/FRP facilities for damage and immediate/ongoing releases.
- Identify secure areas to process and temporarily store for subsequent recycling, disposal, or return to original owner displaced orphan containers, above ground storage tanks, hazardous waste, and vessels.
- Identify locations and establish ESF-10 ICP, Branches and Staging Areas commensurate to the size and scope of the incident.
- Establish and maintain a common operating picture (COP).
- Identify and maximize protection of environmentally sensitive areas and threatened species.
- Manage a coordinated interagency response effort that reflects the composition of the Unified Command.
- Establish an IMT that can meet the initial and long-term challenges required for incident mitigation.
- Inform the public, stakeholders, and the media of response activities.
- Ensure appropriate financial accounting practices are adhered to.

2. Current Activities

On Friday, September 1, 2017, the Incident Command Post in Corpus Christi conducted aerial rapid needs assessments, orphan container recovery, oil discharge assessments, and drinking and waste water assessments. Hazard Evaluation continued in Houston. Two personnel from EPA NIMAT mobilized from Dallas to the Incident Command Post in Corpus Christi (NIMAT SITL and NIMAT FSC). The number of personnel checked in to the ICP has increased from ninety two on Aug 31st, 2017 to one hundred and seventeen as of 17:00 on Sep 1st, 2017.

Currently, the following agencies are engaged in the following:

- US EPA is performing hazard evaluation and recovery,

- USCG is performing hazard evaluation and recovery,
- TCEQ is performing hazard evaluation and recovery as well as drinking water/waste water plant outage assessments,
- TGLO is assessing and responding to oil spills that threaten to enter coastal waters,
- Texas Parks and Wildlife is serving in the Environmental Unit,
- 6th Civil Support Team is supporting TCEQ activities,
- and NOAA is providing scientific support coordination.

2.1. Operations Section

On Friday, Sep 1st, 2017, four TCEQ and CST drinking water and waste water teams, two container recovery teams, and 5 oil discharge assessment teams (consisting of TGLO and USCG) performed assessments in Alpha branch. Also, two ER teams, consisting of TCEQ and EPA staff, performed recovery and operations.

In addition, teams from the Bravo Branch in Houston performed Hazard Evaluations and Oil Discharge Assessments. Hazard Evaluation data was collected and entered into Response Manager.

Notable hazard evaluations and assessments performed and ongoing during this operational period include the following:

In Beaumont, TCEQ is still assessing outages in Orange County. The Beaumont Water Treatment Plant is not operational at this time, 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 anticipate being at half capacity (10 MGD), and will be at full capacity (20 MGD) within 48 hours. Drinking water storage tanks are full or near full. The town is on a boil water notice. The residents are being provided bottled water and portable bathrooms are being trucked in and set up.

In Ingleside by the Bay a 40ft by 12ft barge named M/V ROMA was reported to have drifted into a concrete wall and the Port Side was partially submerged. The owner was contacted. Teams were dispatched to perform a hazard assessment and complete an NDOW sheet. No discharges were observed and the owner is responding.

Photo 1. Well Head in Nueces Bay

An overflight revealed a well blow-out suspected to be gas and oil in Nueces Bay, E. White Point. An assessment team was diverted to perform an assessment at this location and determined the well to be for natural gas well. The owner of the well head was contacted and determined that the well was discharging salt water.

Photo 2. M/V Roma

Arkema Chemical Explosion Update: On September 1st at approximately 1730 CDT, another explosion occurred resulting in a large fire with significant amounts of black smoke. ASPECT will preform an additional overflight and will provide additional data related to the plume.

Aspect assessed facilities in the Crosby, TX region between passes over the Arkema Chemical Site.

Table 1. Summary of Hazard Assessments/Recovery

Status	Alpha Total Count	Bravo Total Count	NRC Calls
Access Denied (Open)	1	0	0
Assessment Required (Open)	15	10	2
Item Recovered (Closed)	28	0	0
Leave in Place (Closed)	3	2	0
Leave in Place (Open)	0	3	0
Recovery Required (Open)	11	12	0
Refer to Other Agency, no EPA needed (Closed)	1	1	0
Special Operations (Open)	1	0	0

Table 2. Drinking Water and Waste Water Assessments Performed on 9/1/2017

Status of Facility with On-Site Visit	# of Facilities
Loss of Power Not on Generator	2
On Generator Power	3
Inoperable	4
Operating	1
Out of Contant (No Response)	2

Table 3. Drinking Water Treatment Facility Phone Assessments from Austin TX

Waste Water Facility Status	# of Facilities Contacted
Inoperable	9
Operating	223
Operating on Generator Power	9
Partial Operations	17
Needs Site Visit	1
Out of Contact (No Response)	10
Unknown	8

Table 4. Waste Water Treatment Facility Phone Assessments from Austin TX

Waste Water Facility Status	# of Facilities Contacted
Clear	7
Destroyed	1
Operating on Generator Power	3
Inoperable	14
Loss of Power - No Generator	3
Operating	150
Out of Contact	7
Results of Testing Pending	4
Unknown	23

Projected Alpha Branch operations for Sep 2nd,2017: Include two hazard evaluation teams, two water infrastructure teams, five oil discharge assessment teams and four orphan container recovery teams.

Projected Bravo Branch Operations for 9/2/2017: Include seven hazard evaluation teams, five oil discharge teams and investigation of NRC Reports.

Projected NRC Investigation Team and Arkema Group Operations for 9/2/2017: ASPECT will continue monitoring Arkema and performing critical infrastructure assessments as available. The NRC Investigation Team will investigate any Hurricane Harvey related NRC reports.

3. **Participating Agencies**
    - **Texas Commission on Environmental Quality**
    - **Texas General Land Office**
    - **Texas Parks and Wildlife**
    - **6th Civil Support Team**
    - **US Environmental Protection Agency**
    - **US Coast Guard**
    - **National Oceanic and Atmospheric Agency**
4. **Personnel on Site**

Agency	Corpus Christi	Austin
US EPA	13	9
USCG	19	
TCEQ	20	
TGLO	16	
CST	15	
Contractors	10	