From:	Waldon, MARGARET
To:	Mason, Steve
Subject:	USCG pics for Hurricane Harvey rolling SitRep
Date:	Thursday, September 14, 2017 3:25:33 PM
Attachments:	Potential Pictures for Rolling Sit brief.ppt Hurricane Harvey r6REOC situational awareness 06 -- 09-14-2017 0800.pptx

---

Hi – Gary wanted me to forward these pics from USCG for possible inclusion into the rolling SitRep.

Maggie, Planning Section
Maggie Waldon
On-Scene Coordinator
USEPA Region IX
75 Hawthorne St.
San Francisco, CA 94105
415.940.1109

Branch C: Orphan Container Recovery Teams courageously securing flammable container.

Branch C: OPS Brief. Various TGLO and EPA personnel pictured.

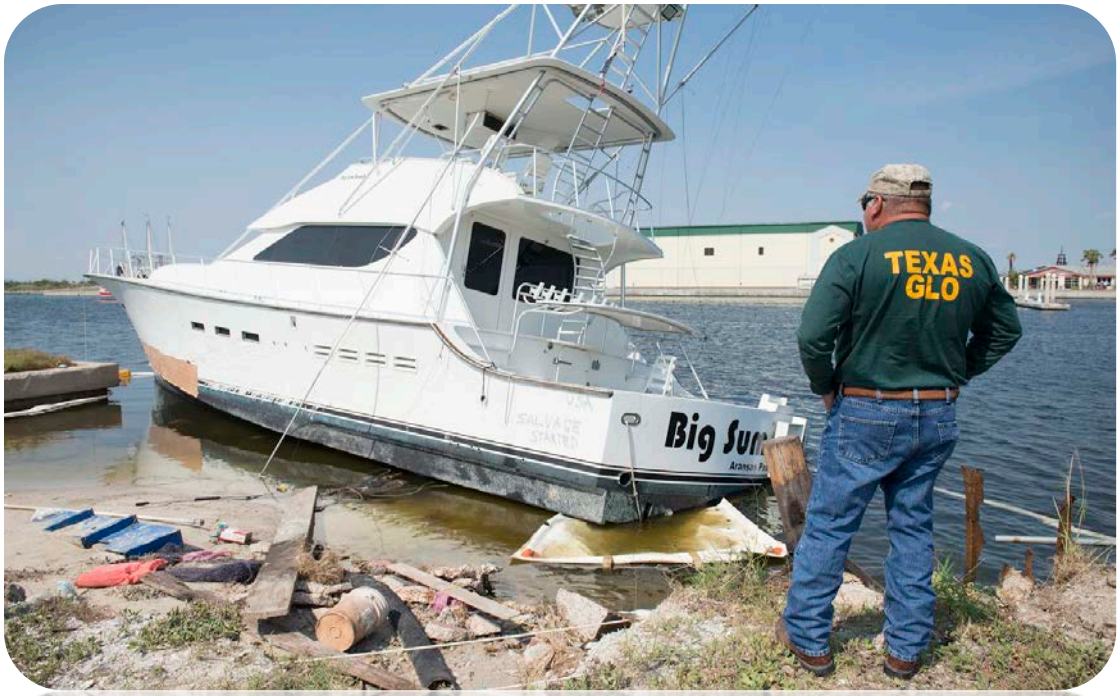
Branch C: Community and Stakeholder Engagement.

Branch B: EPA and Coast Guard recording data concerning hazard evaluations.

Branch A: Pictured is an Oceangoing Tug. Signet Enterprise.

Branch A: Orphan Container Staging Area. (HAZCAT)

Branch B: Strategically assessing operational assignments.



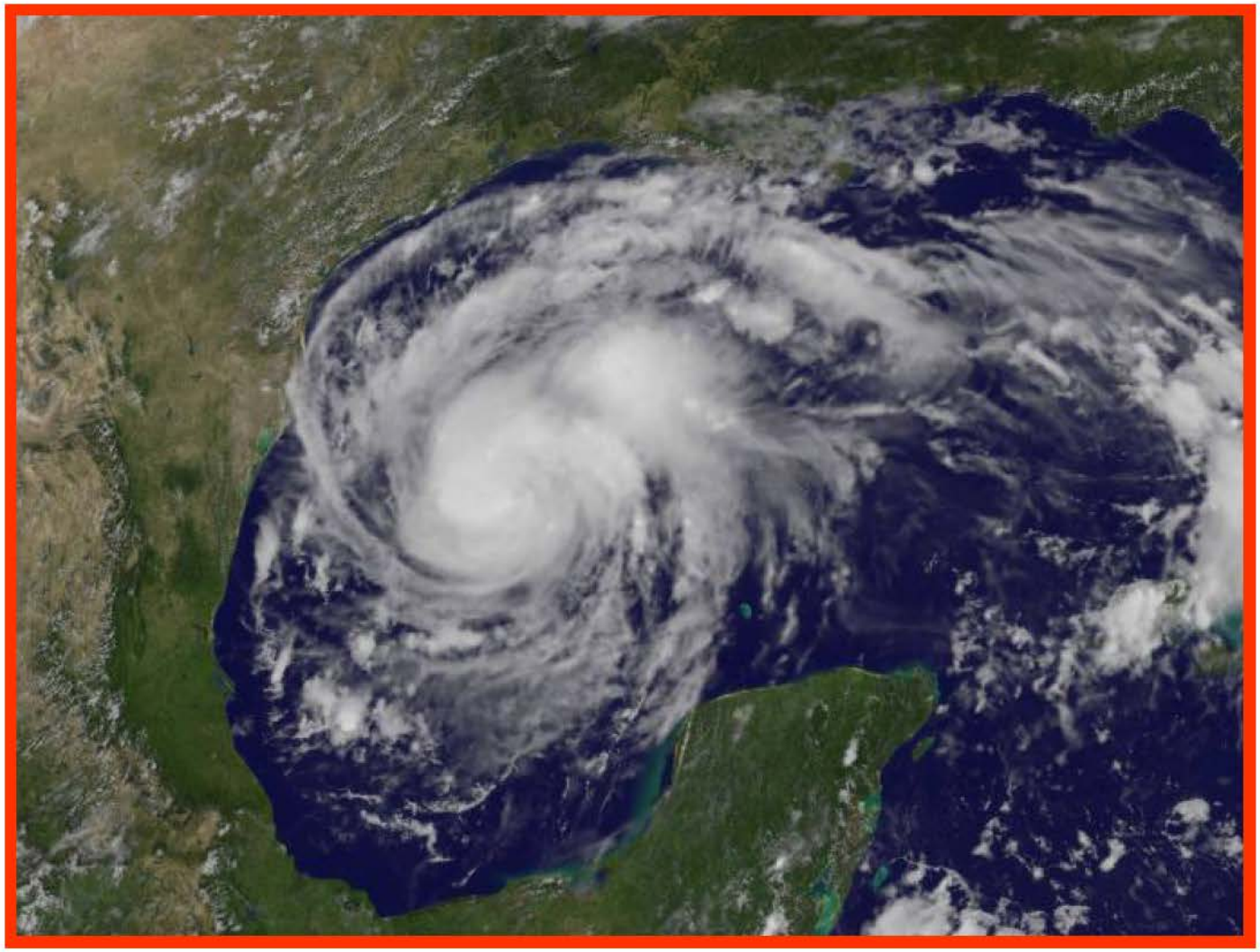
Branch A: TGLO State Official assessing potential spills/discharges from the fishing vessel BIG SUM BEACH.

Branch A: Ops Briefing. EPA OSC Eric Nord briefing his teams.

Branch A: Oil Discharge Assessment Teams evaluating a damaged recreational vessel.

Branch A: Hazard Evaluation Teams. Vehicle in the Water.

Hurricane Harvey -- Rolling Situation Report



EPA Region 6 – 09/14/2017 – 0800 Hours

ESF 10 ACTIVITIES

Alpha Brach Site Assessment

Houston Branch – Water Infrastructure Assessment Team

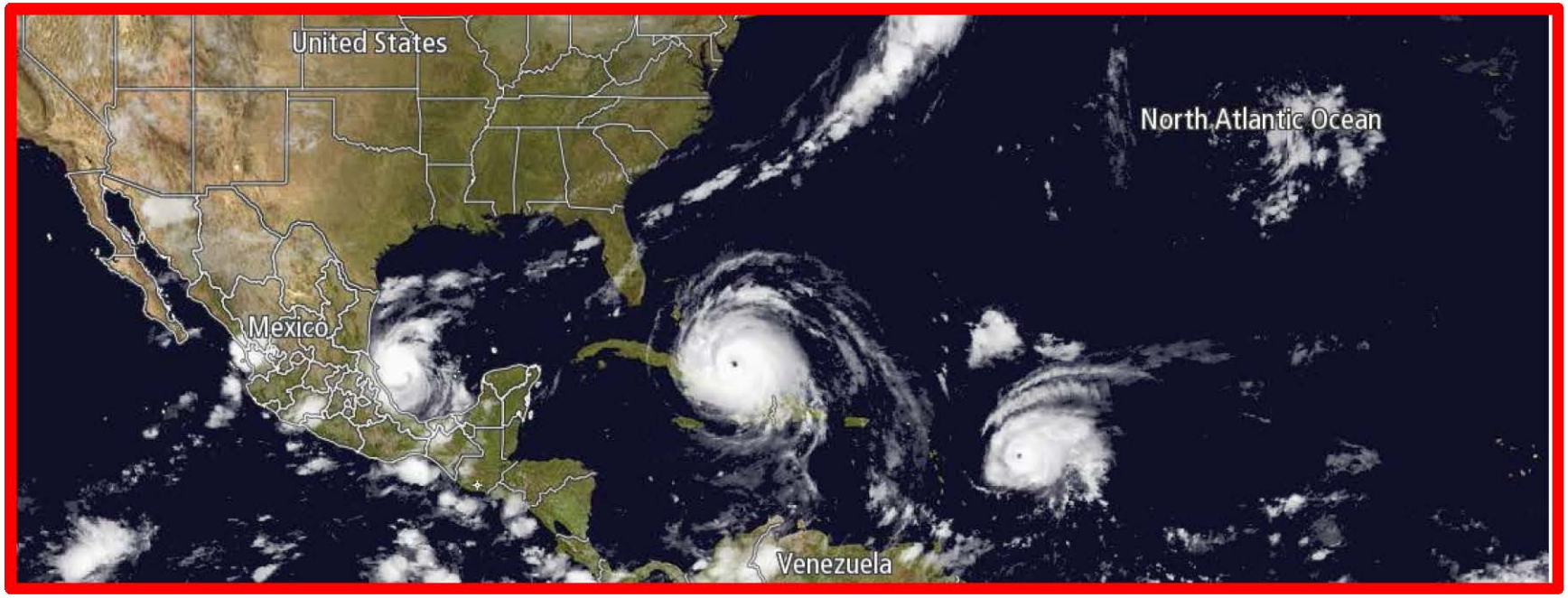
10-Day Weather Forecast for Impacted Areas

DAY	DESCRIPTION	HIGH / LOW	PRECIP	WIND	HUMIDITY
TODAY SEP 14	Sunny	93°/73°	0%	SSE 10 mph	57%
FRI SEP 15	Mostly Sunny	92°/74°	10%	SE 9 mph	61%
SAT SEP 16	Partly Cloudy	92°/75°	20%	ESE 9 mph	65%
SUN SEP 17	PM Thunderstorms	91°/76°	50%	E 10 mph	68%
MON SEP 18	Partly Cloudy	92°/76°	20%	ESE 11 mph	68%
TUE SEP 19	Partly Cloudy	92°/77°	20%	SE 13 mph	67%
WED SEP 20	Isolated Thunderstorms	92°/76°	30%	SSE 13 mph	67%
THU SEP 21	Mostly Sunny	91°/76°	20%	SE 13 mph	66%
FRI SEP 22	AM Showers	90°/75°	30%	ESE 14 mph	66%
SAT SEP 23	Mostly Sunny	90°/74°	10%	E 11 mph	63%

Corpus Christi Branch – Field Screening of Unknown Container Contents

San Jacinto Waste Pits: EPA Dive Team Checking on Cap

ESF 10 ACTIVITIES

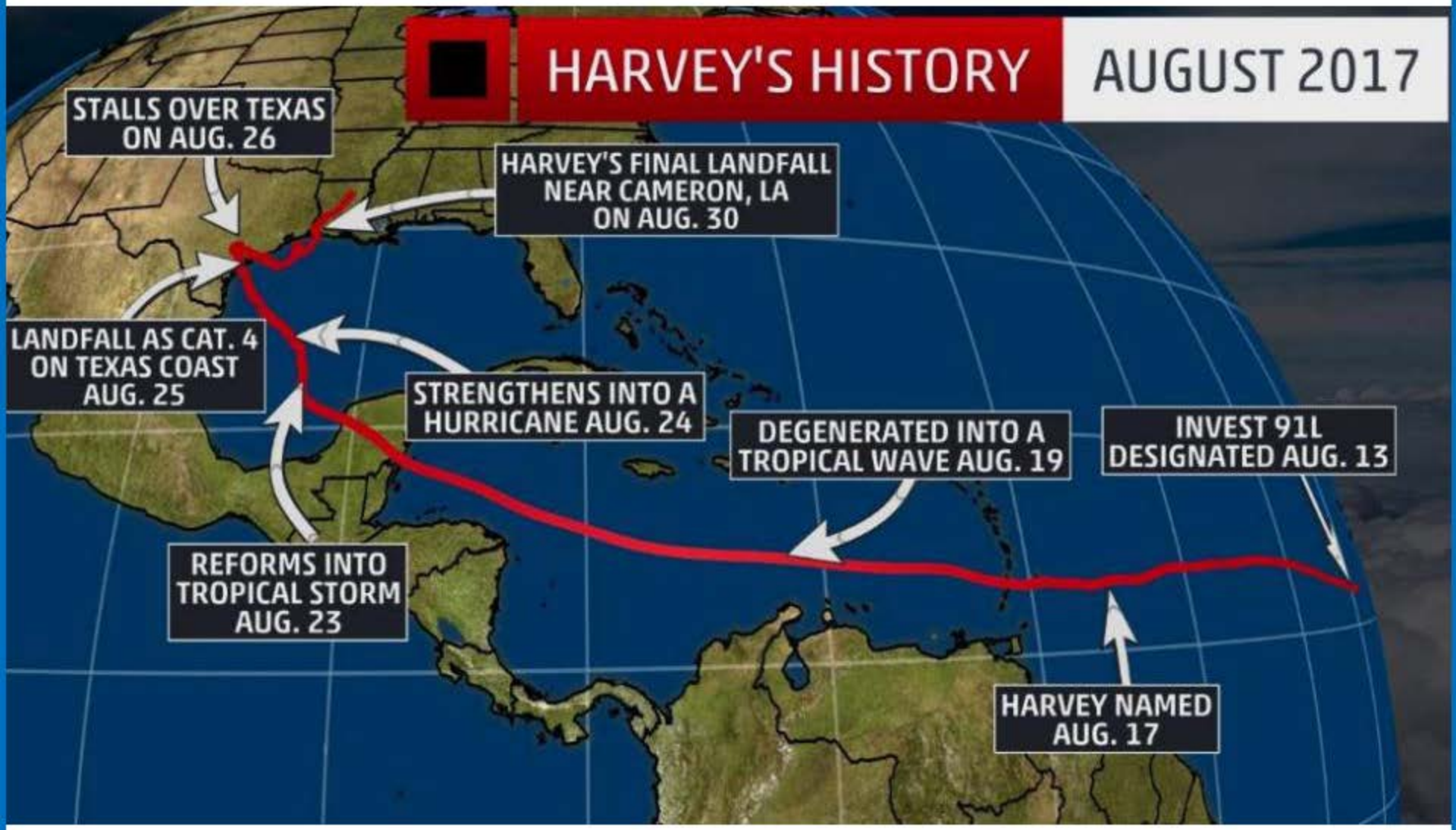

United States
North Atlantic Ocean
Mexico
Venezuela

ESF 10 ACTIVITIES

Corpus Christi Branch –
Large Container Recovery
near Aransas Pass

Water Assessment Team –
Bravo Branch

Harvey Path – August 17 – August 30, 2017



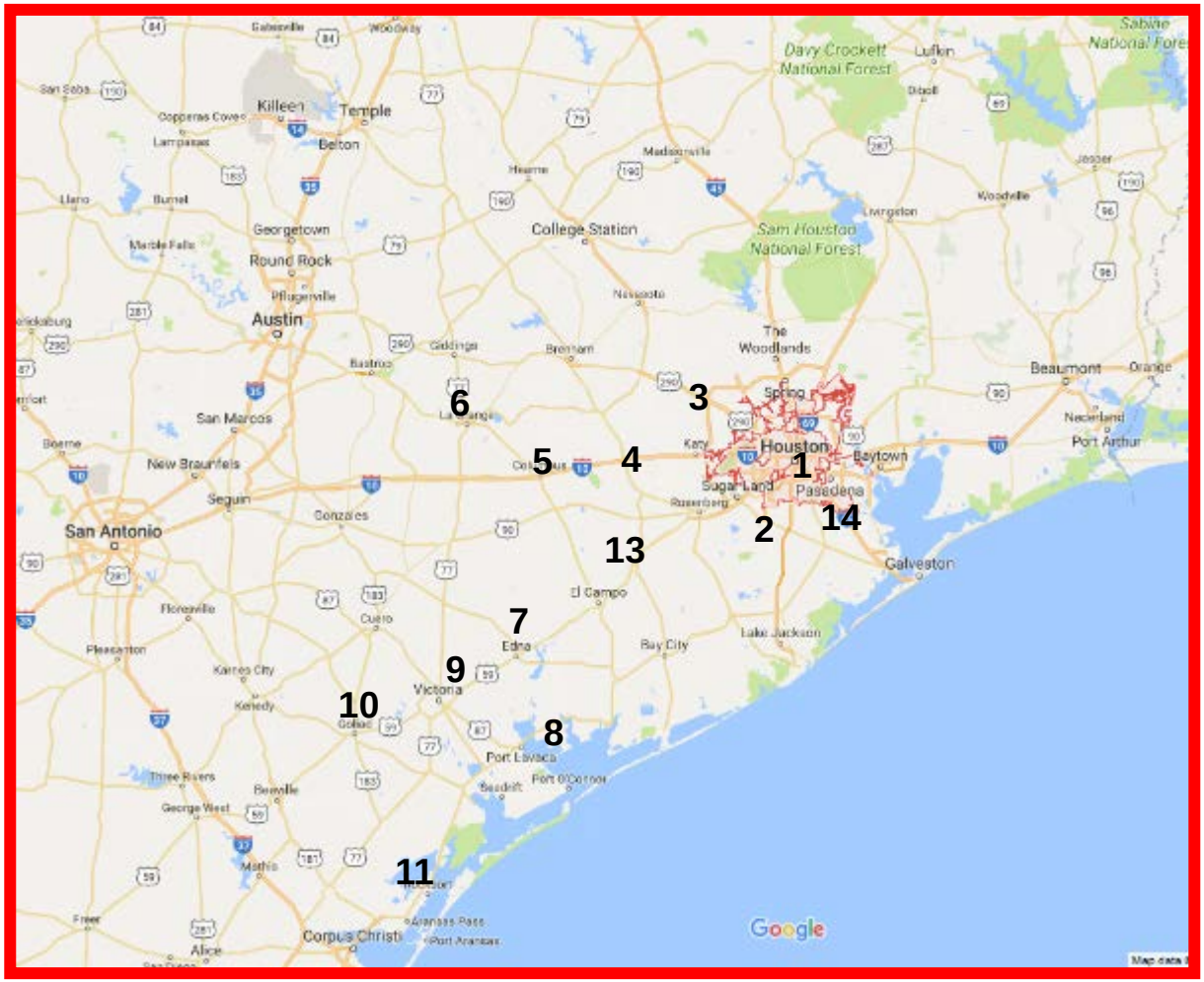
Alpha Branch Staging Pad: Aransas Pass Pad

Houston Branch – EPA Water Infrastructure Assessment

ESF 10 ACTIVITIES

FEMA / State of Texas Disaster Relief Centers

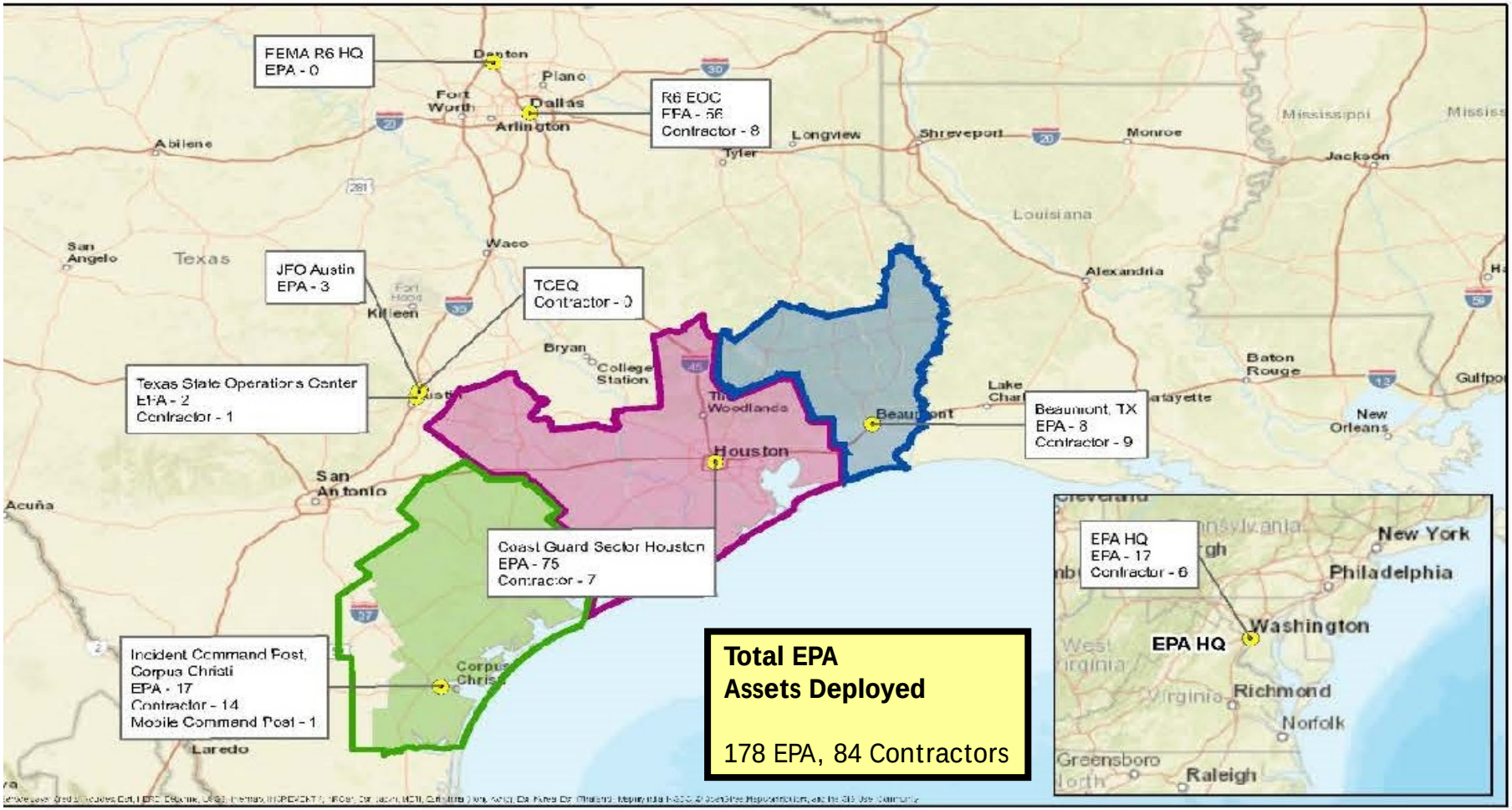
1. George Brown Convention Center, 1001 Avenida De las Americas , HOUSTON
2. Sienna Annex, 5855 Sienna Spring Hwy, MISSOURI CITY
3. Friendship Center, 31355 Friendship Drive, MAGNOLIA
4. Simonton Community Church, 9703 FM 1489 Simonton Rd., SIMONTON
5. Colorado County Services Facility, 305 Radio Lane, COLUMBUS
6. Randolph Recreation Center, 653 East Pearl Street , LA GRANGE
7. Edna High School Football Stadium, 1303 W Gayle Street, EDNA
8. Calhoun County Library, 200 W. Mahan Street, PORT LAVACA
9. Pattie Dodson Public Health Center, 2805 N Navarro, VICTORIA
10. Goliad Memorial Auditorium, 925 S State Hwy 183, GOLIAD
11. Bay Vista Shopping Center, 2334 Hwy 361, INGLESIDE
12. Hutchinson Convention Center, 650 Griffin St, DALLAS
13. Wharton Civic Center, 1924 N Fulton Street, WHARTON
14. Webster Civic Center, 311 Pennsylvania Avenue, WEBSTER



ESF 10 ACTIVITIES

Houston (Bravo) Branch –
Waste Pad Preparation

EPA Region 6 Assets



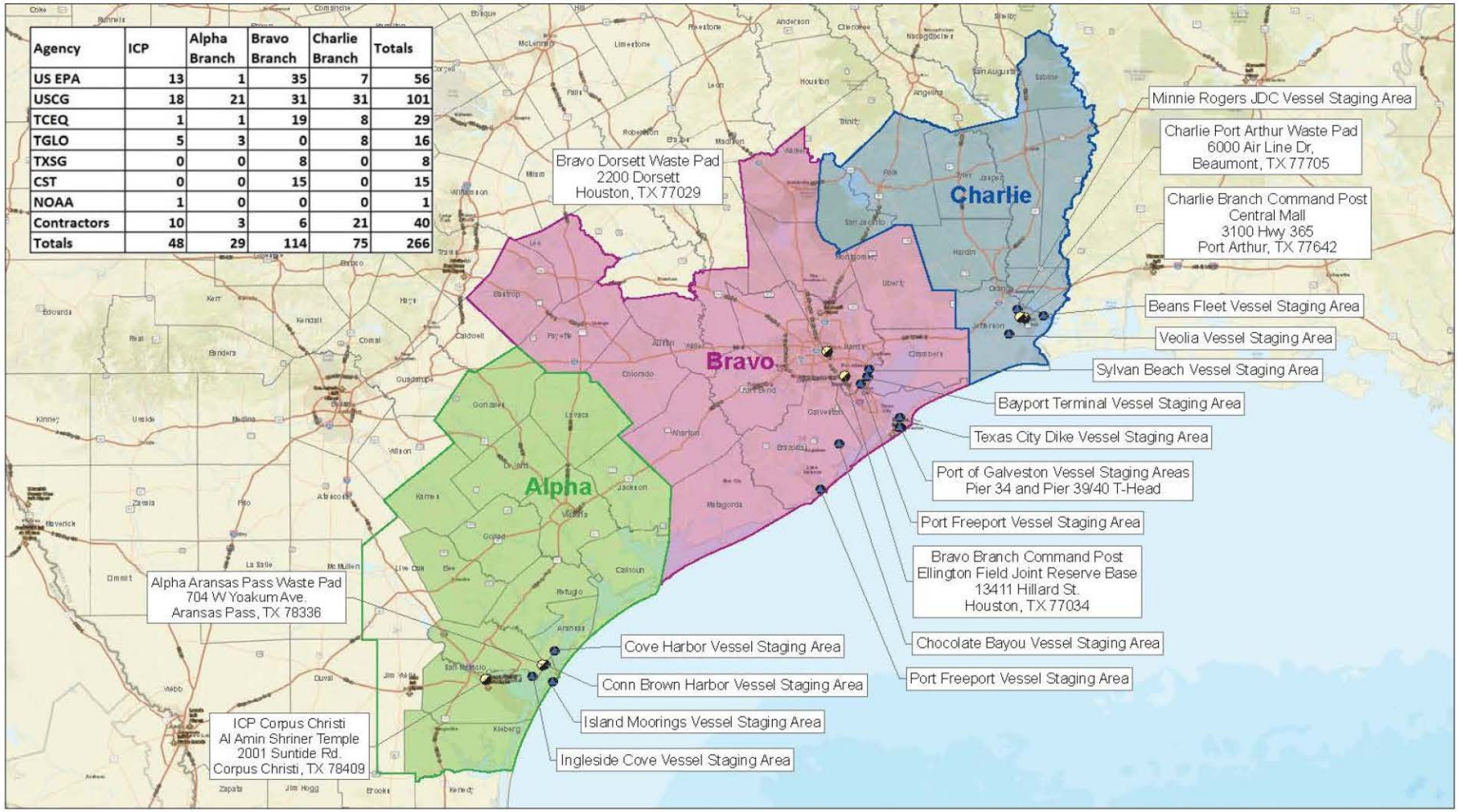
ESF 10 ACTIVITIES

Boat Ops in Alpha Branch

Houston Branch – Waste pad preparation

EPA Region 6 Assets

Agency	ICP	Alpha Branch	Bravo Branch	Charlie Branch	Totals
US EPA	13	1	35	7	56
USCG	18	21	31	31	101
TCEQ	1	1	19	8	29
TGLO	5	3	0	8	16
TXSG	0	0	8	0	8
CST	0	0	15	0	15
NOAA	1	0	0	0	1
Contractors	10	3	6	21	40
Totals	48	29	114	75	266



Legend

Federally Declared Counties:

- in Alpha
- in Bravo
- in Charlie

- Incident Command Post (ICP) /Staging Area
- Vessel Staging Location

USA EPA REGION 6
Overview Map
Alpha, Bravo, Charlie
Hurricane Harvey Response

N W E S
0 25 50 Miles

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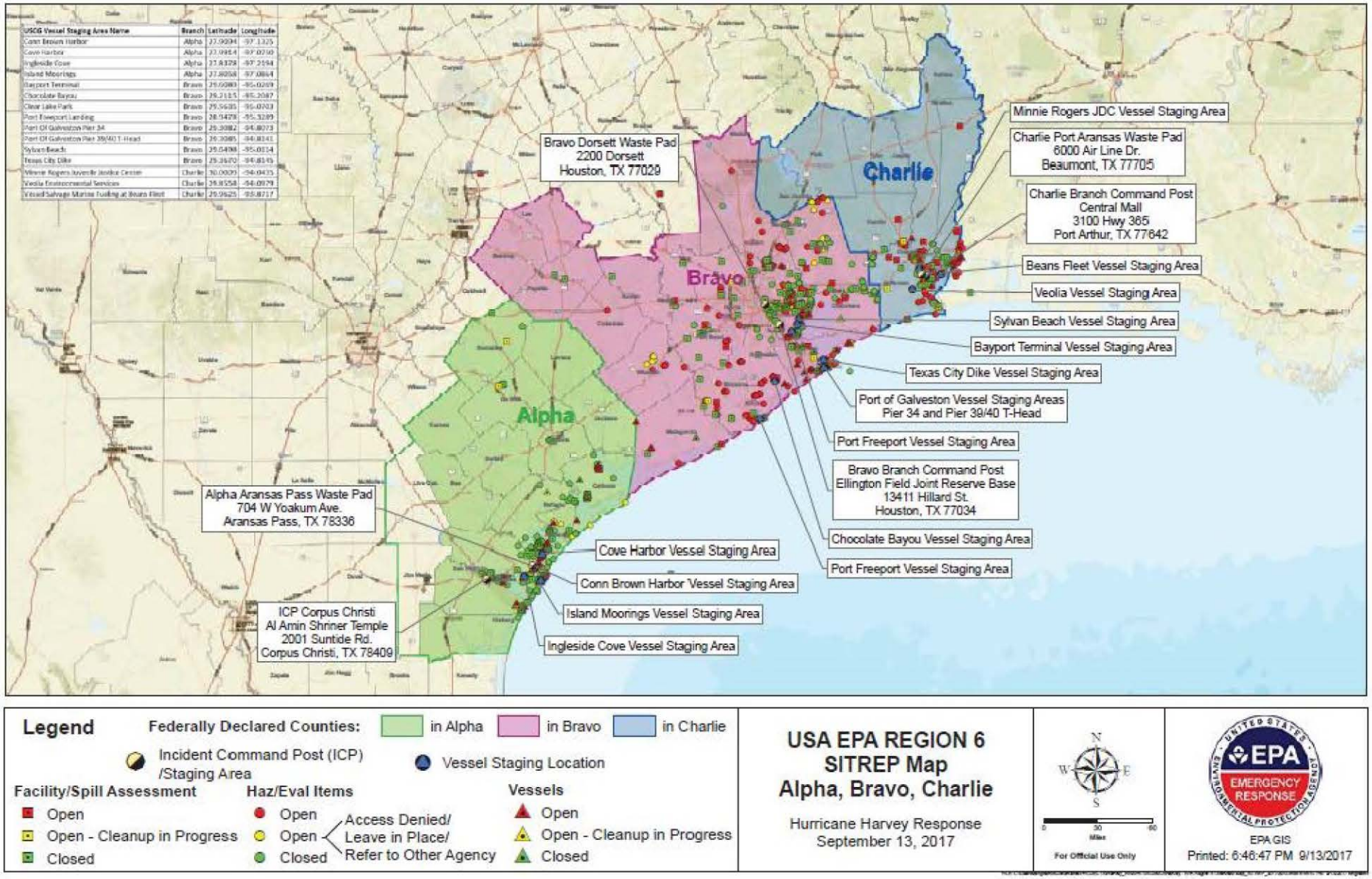
EPA GIS
Printed: 6:39:35 PM 9/13/2017

ESF 10 ACTIVITIES

Tactics Meeting on Sep 2nd 2017

EPA SitRep Map



EPA Region 6 Assets

ESF 10 ACTIVITIES

Portable High-Throughput Integrated Laboratory Identification System (PHILIS)

Trace Atmospheric Gas Analyzer (TAGA): EPA's Mobile Sampling and Analysis System

Incident Objectives

- **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 and the approved Unified Command Vessel/Pollution Removal protocols.**

ESF 10 ACTIVITIES

Corpus Christi Branch – Field Screening Containers

Corpus Christi Branch – Orphan Container Recovery Team

Incident Objectives

- **Prioritize, monitor, mitigate and/or recover identified pollution targets.**
- **Assess DHS critical infrastructure and RMP/FRP facilities for damage and immediate/on-going releases.**
- **Identify secure areas to process and temporarily store for subsequent recycling, disposal, or return to the original owner displaced orphaned containers, above ground storage tanks, hazardous waste, and vessels.**
- **Identify location 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.**

ESF 10 ACTIVITIES

Field Screening –
Alpha Branch

Corpus Christi Branch –
Morning Operations Briefing

Incident Objectives

- **Manage a coordinated interagency response effort that reflects the composition of the Unified Command.**
- **Establish and 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.**
- **Establish a vessel recovery strategy.**
- **Establish a strong interagency partnership with public and private organizations to determine ownership and disposition of targets.**

ESF 10 ACTIVITIES

The Responsible Party contractor continued cap repair activities at the San Jacinto Waste Pits.

Responsible Party contractors began manual probing of underwater cap with oversight by EPA Dive Team representative at the San Jacinto Waste Pits.

ESF-10 Unified Command Organization Chart

Incident Name:
Hurricane Harvey – ESF 10 Texas
Operational Period: 09/14/17 to 09/15/17
Prepared by: Tori Gomez
Date: 09/13/17
Time: 1735

Incident Command
Gary Moore, EPA
Chris Wiatrek, TCEQ
Jimmy Martinez, TGLO
CDR Tedd Hutley, USCG
Deputy Joel Ferguson, USCG
Deputy Brent Koza, TGLO
Deputy Susan Fisher, EPA
C000

Liaison Officer
Janie Acevedo, EPA
CDR Byron Hayes, USCG
C160

Public Information Officer
Austin Vela, EPA
PA1 Timothy Tamargo, USCG
Susan Blake, USCG
C140

Safety Officer
David Eppler, EPA
Edward Primeau, USCG
C130

Data Support Coordinator
Dan Burgo, EPA
C150

Scientific Support Coordinator
Steve Lehmann, NOAA
C170

Operation Section
Joe Davis, EPA
Deputy Renae DiGuardi, TCEQ
LT Jacqueline Fitch, USCG
Deputy Daniel Davis, TGLO
(See Next Page)
O000

Operations Support
Theresa Holz, START
OY00

Alpha Branch
(Corpus Christi)
(See Next Page)
OB00

Bravo Branch
(Houston)
(See Next Page)
OC00

Charlie Branch
(Port Arthur)
(See Next Page)
OD00

Planning Section
Maggie Waldon, EPA
Pete Gollnick, USCG
P500

Resources Unit
Tori Gomez, START
Maggie Valentine, START
Julie Bosman, USCG
Curry Fleischer, USCG
Aldon Eubanks, USCG
P510

Situation Unit
Justin McDowell, EPA
Brandon Aten, USCG
Eric Sandusky, START
Brian Churchill, USCG
P520

Data Management Unit
Kris Fuller, START
Donna Klein, START
Vira Yakusha, START
P570

GIS Specialist
Cody Bingham, START
Julie Carey, USCG
P560

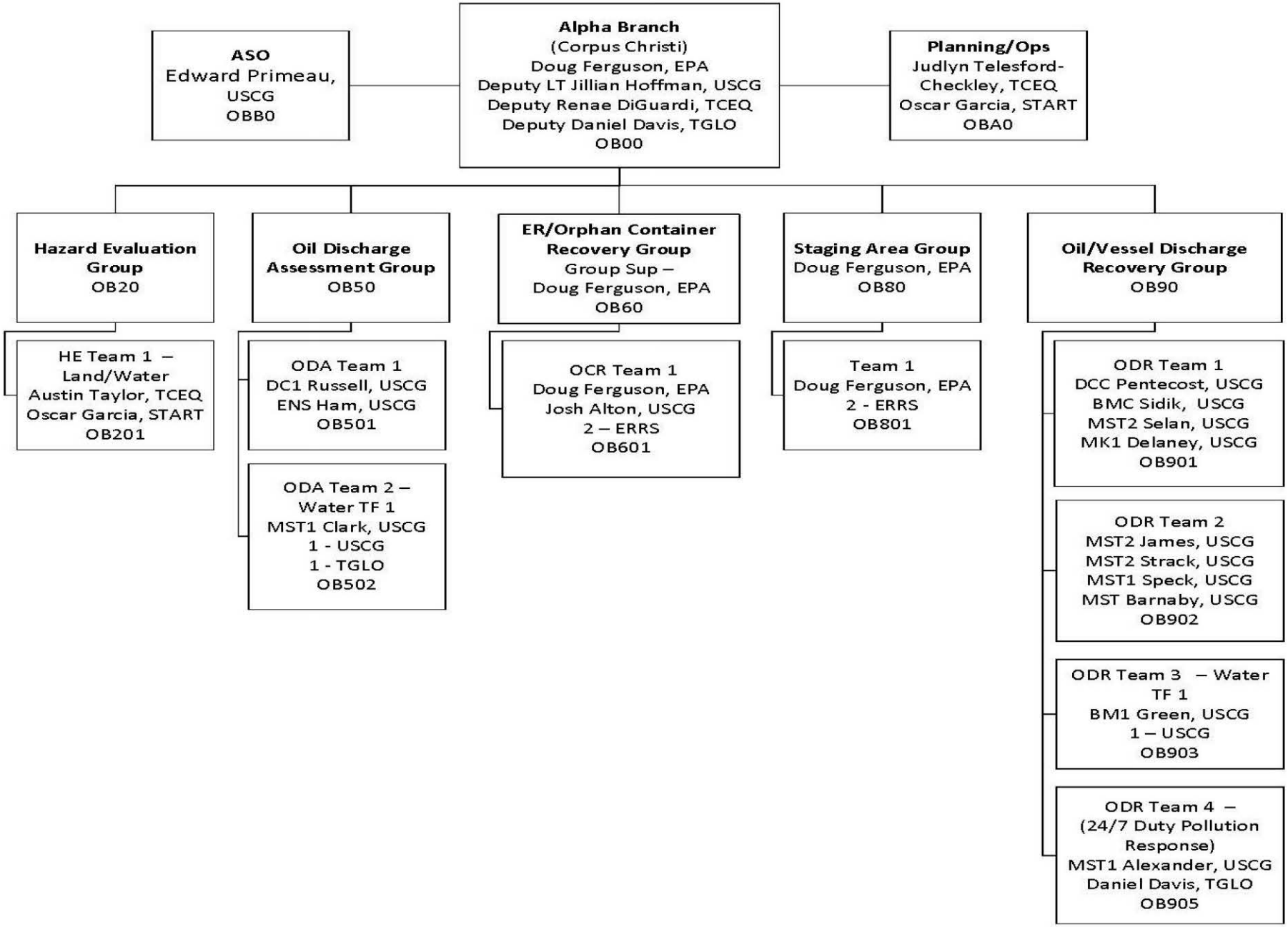
Documentation Unit
Derek Ragon, EPA
Carla Hope, TCEQ
Simone Butler, TGLO
Gena Good, START
George Amon, USCG
P530

Logistics Section
Derek Ragon, EPA
David Mergentnolar, USCG
Michael Dougherty, USCG
Terry Sullivan, TCEQ
L300

Finance Section
Rob Martin, USCG
Michael Cavanaugh, USCG
F200

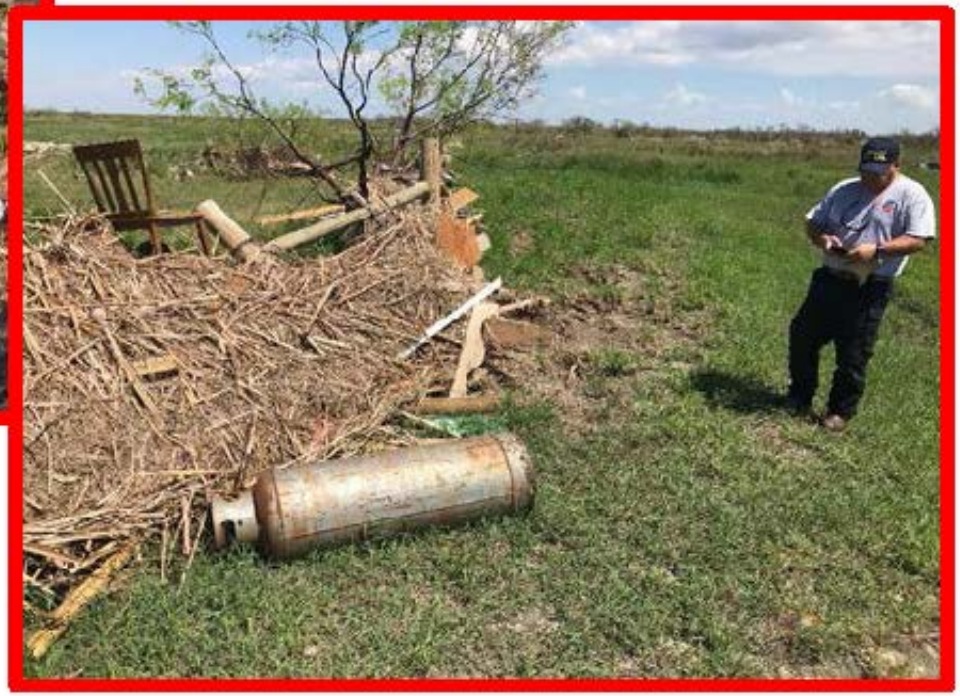
Cost & Time Unit
Chris Gibson, USCG

ESF-10 Unified Command Organization Chart



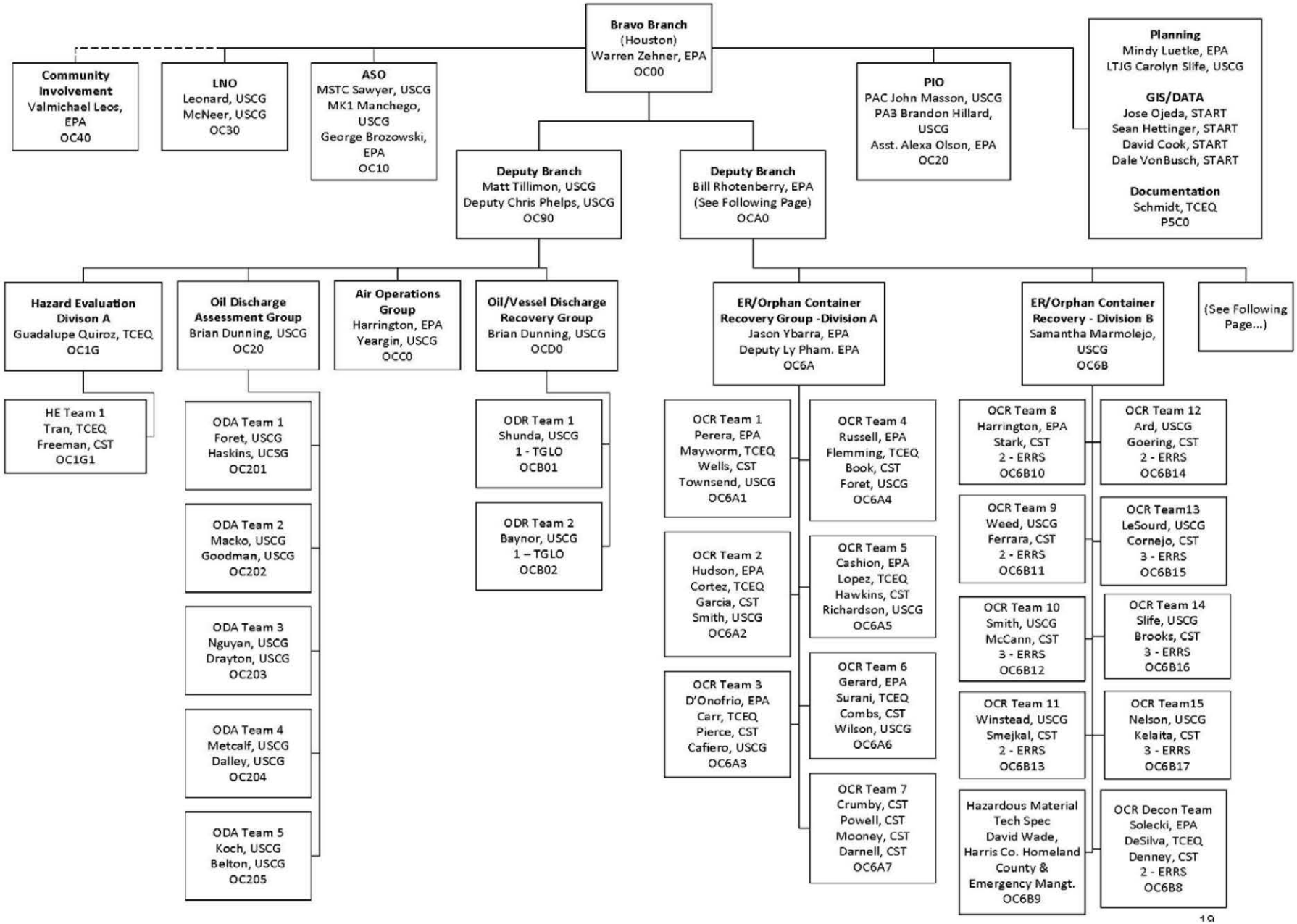
ESF 10 ACTIVITIES

EPA OSC recording information as part of a Hazard Evaluation Team in Wallace, Texas



Corpus Christi (Alpha) Branch – EPA Staff doing Hazard Evaluation by Debris Pile

ESF-10 Unified Command Organization Chart

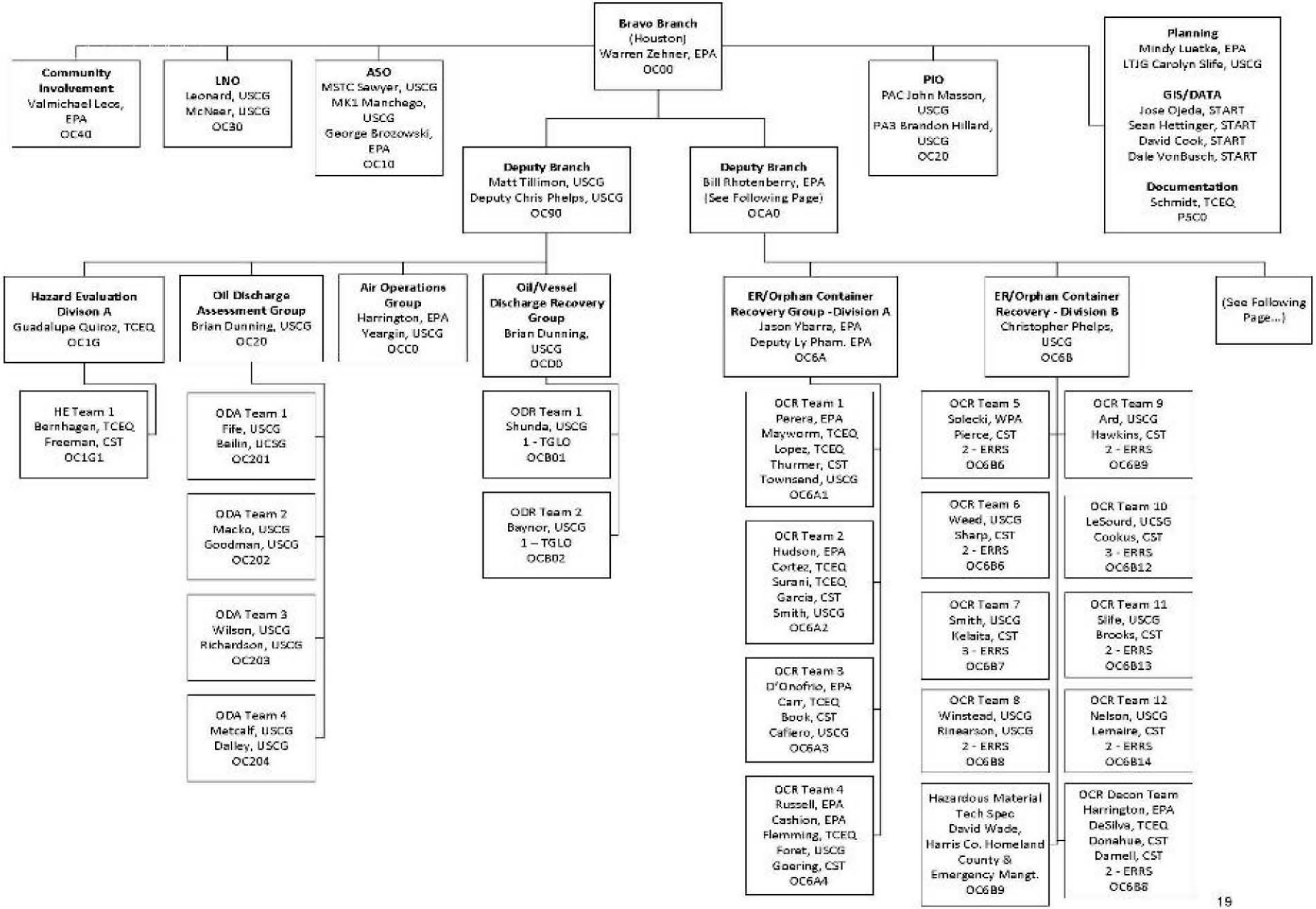


ESF 10 ACTIVITIES

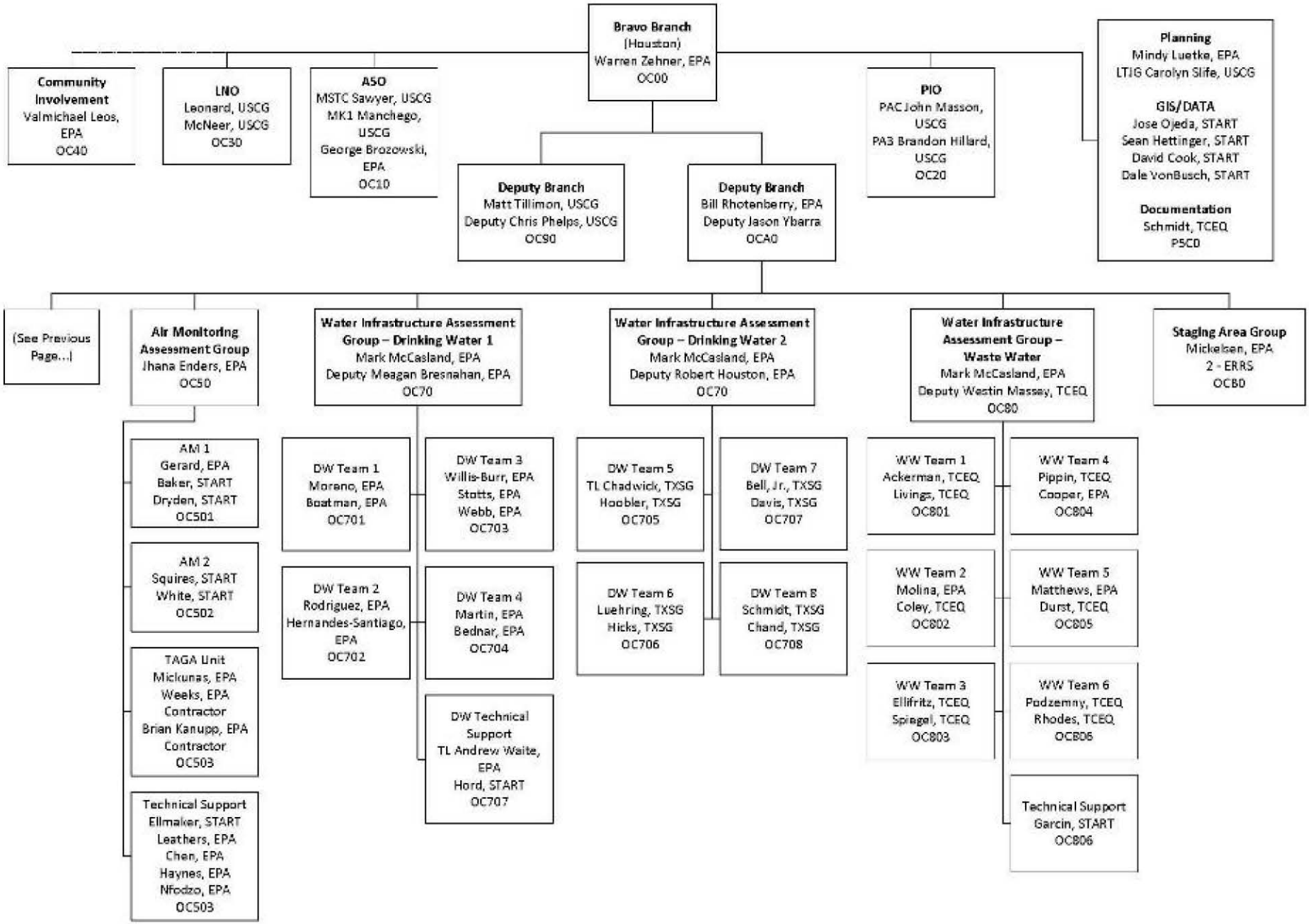
OSC in Alpha Branch performing a field assessment.

Port Arthur/Beaumont Branch – EPA On-Scene Coordinator (OSC) discusses operations with members of the U.S. Coast Guard

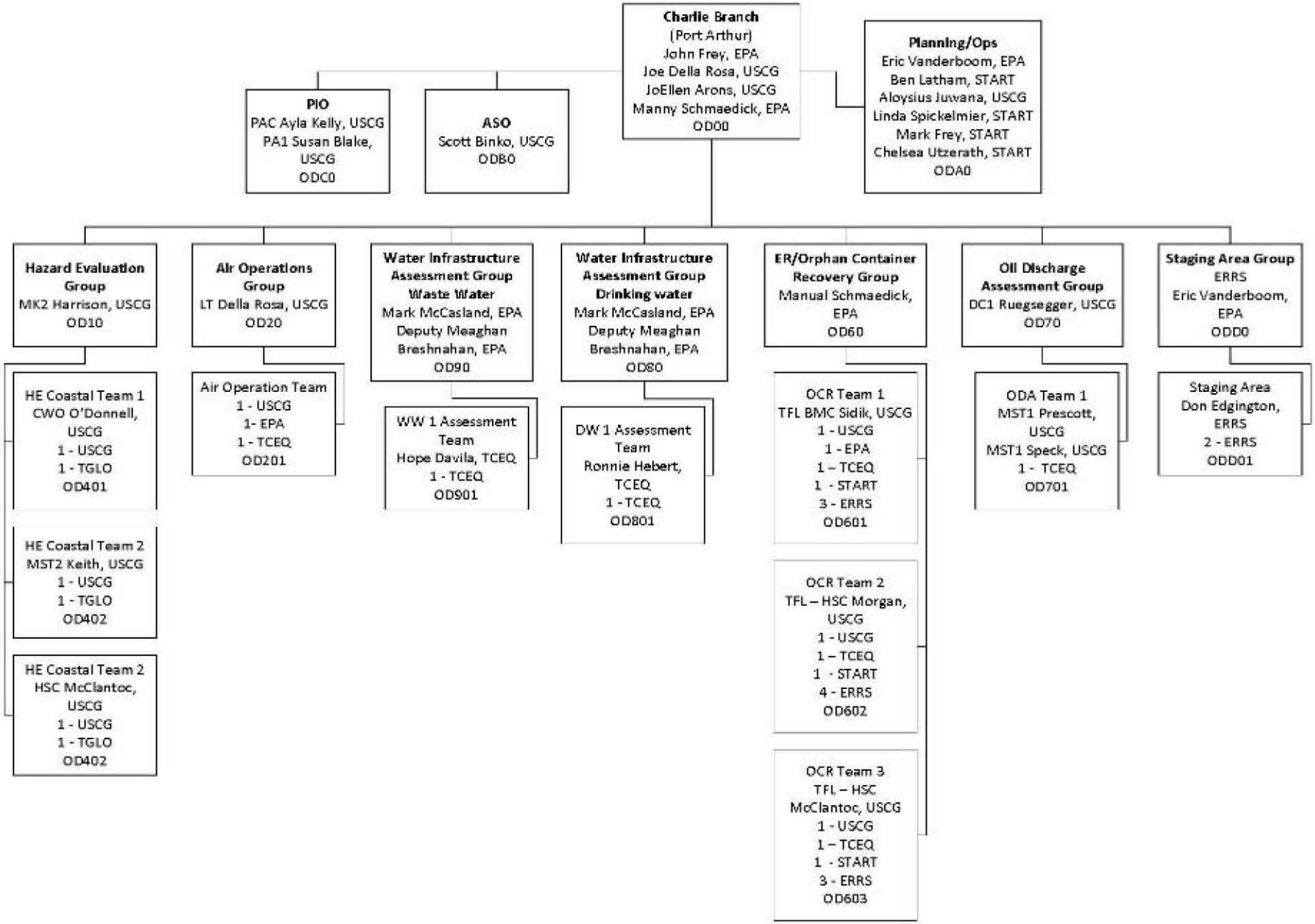
ESF-10 Unified Command Organization Chart



ESF-10 Unified Command Organization Chart



ESF-10 Unified Command Organization Chart



ESF 10 ACTIVITIES

Command and General Staff Meeting on September 2, 2017.

Alpha Branch – EPA OSCs Sampling Drums at Pad in Level B

ESF-10 Mission Assignments

Mission Assignments	Status	Funded w/Indirect	Estimated Spent to Date	Amount Available	Daily Burn Rate
Hurricane Harvey					
FEMA-4332-DR-TX-EPA-01 As directed by and in coordination with FEMA, EPA will provide appropriate personnel to RRCC, JFO, IOF, or other locations as needed to support FEMA response operations.	Ongoing	$ 242,741	$ 39,056	$ 203,685	$ 3,664
FEMA-4332-DR-TX-EPA-03 Requested ESF-10 assistance to the State of Texas in support of assessment and response operations to actual or threatened hazardous materials and oil releases/discharge. This assistance includes response to release/ discharges from fixed facilities, as well as orphaned containers and mobile sources.	Ongoing	$ 8,908,113	$ 5,291,807	$ 3,616,306	$ 324,857

ESF 10 ACTIVITIES

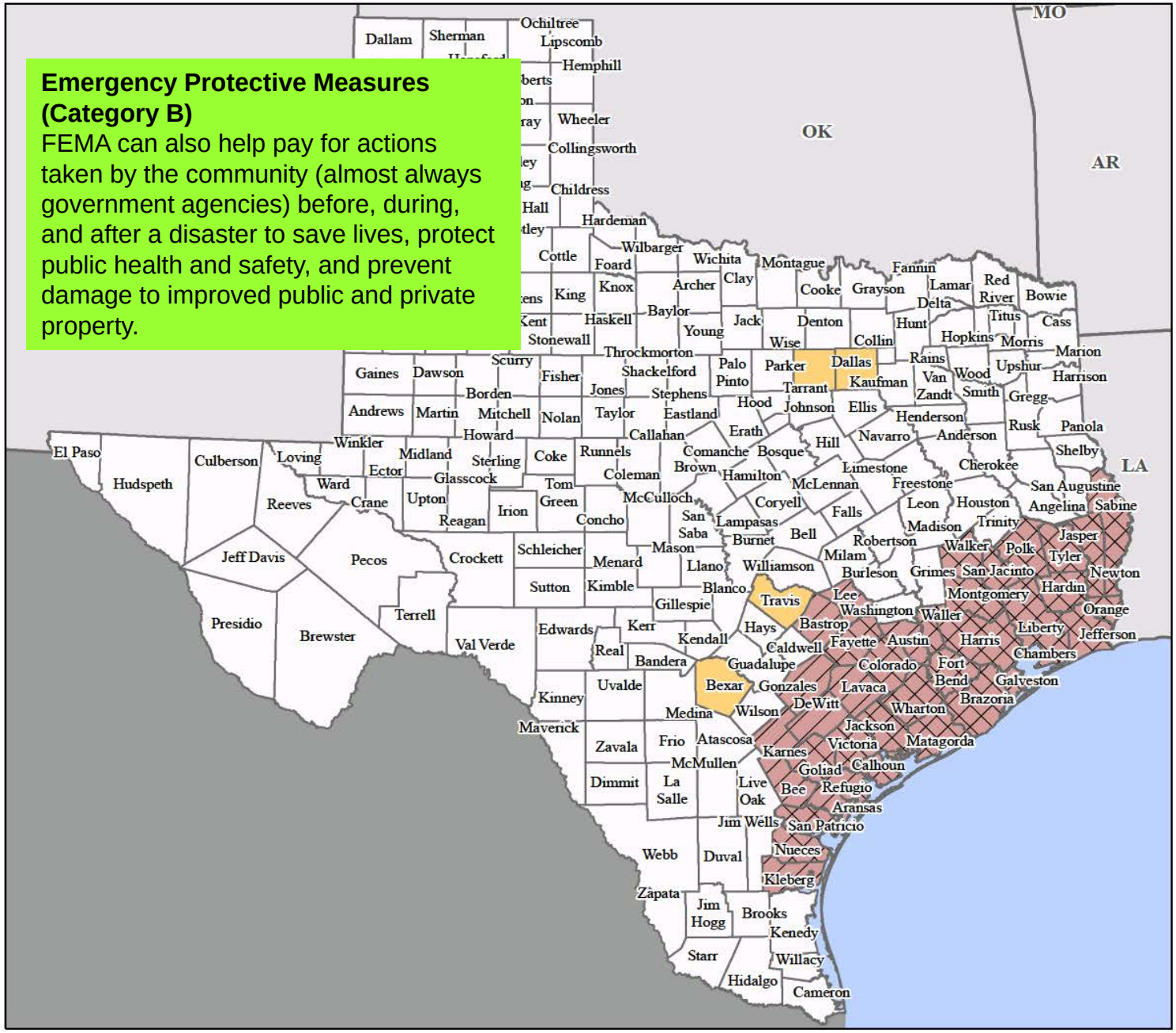
TCEQ/EPA Recon flight over Rockport/Fulton on Sep 1st 2017

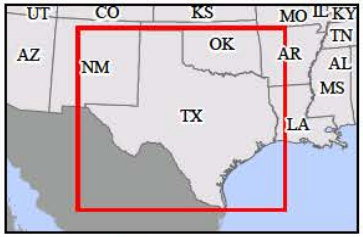
Command and General Staff Meeting

FEMA-4332-DR, Texas Disaster Declaration as of 09/04/2017

FEMA

Emergency Protective Measures (Category B)
FEMA can also help pay for actions taken by the community (almost always government agencies) before, during, and after a disaster to save lives, protect public health and safety, and prevent damage to improved public and private property.





Data Layer/Map Description:
The types of assistance that have been designated for selected areas in the State of Texas.

All designated areas in the State of Texas are eligible to apply for assistance under the Hazard Mitigation Grant Program.

Designated Counties

- No Designation
- Public Assistance (Category B)
- Individual Assistance and Public Assistance (Categories A and B)
- Individual Assistance and Public Assistance (Categories A - G)

N W E S

0 40 80 120 160 Miles

Data Sources:
FEMA, ESRI;
Initial Declaration: 08/25/2017
Disaster Federal Registry Notice:
Amendment #5 - 09/04/2017
Datum: North American 1983
Projection: Lambert Conformal Conic

MapID e91763b63ea0904171836hqprod

ESF 10 ACTIVITIES

TCEQ/EPA/TGLO Recon flight over Rockport/Fulton on Sep 1st, 2017.

San Jacinto Pits: Completed repairs on the western portion of the southern berm.

Daily/Cumulative summary of Hazard Evaluations/Recovery

Status	Opened		Closed	
	09/13/2017	Number of Targets Remaining Open	09/13/2017	Cumulative
Corpus Christi Branch	0	5	9	96
Houston Branch	20	124	73	163
Port Arthur/ Beaumont Branch	17	42	32	53
Reports	0	1	1	2
Totals	37	172	115	314

ESF 10 ACTIVITIES

EPA and TCEQ Partnership

Houston Branch – EPA staff doing Hazard Evaluation

Daily/Cumulative summary of Spills/Discharges (Non-Vessels)

Status	Opened		Closed	
	09/13/2017	Number of Facilities/Spills Remaining Open	09/13/2017	Cumulative
Corpus Christi Branch	0	0	2	33
Houston Branch	1	20	5	53
Port Arthur / Beaumont Branch	1	8	0	12
NRC Reports	3	45	13	66
Totals	5	73	20	164

Bravo Branch – EPA preparing waste pad

Bravo Branch – EPA OSC working with USCG on Container Removal

ESF 10 ACTIVITIES

Drinking Water and Waste Water Assessments

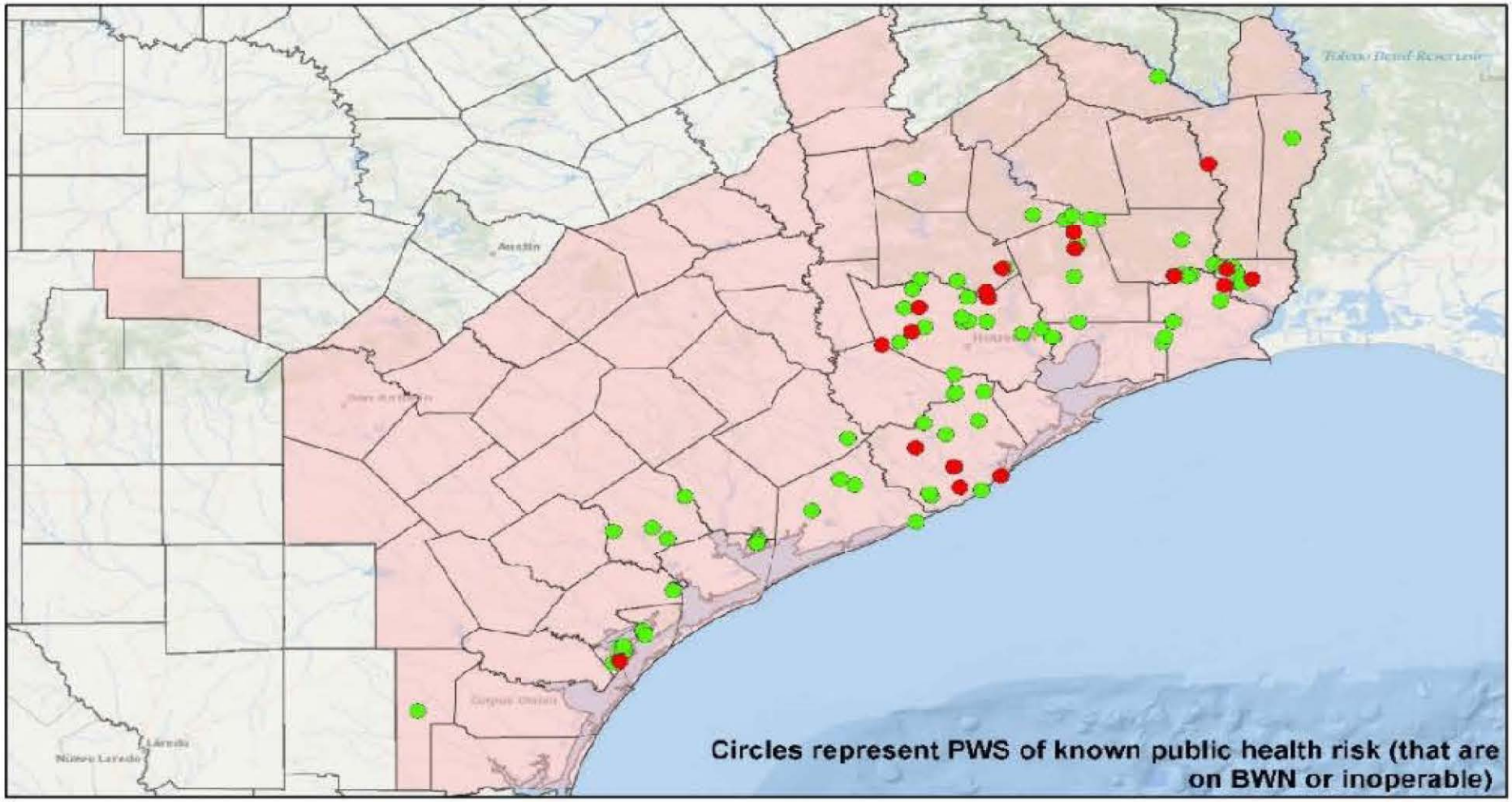
As of 09/11/2017	Daily Assessments	Total Assessments
On-Site DW Assessments	50	567
On Site WW Assessments	48	385
Phone DW Assessments	143	6,550
Phone WW Assessments	76	4,606

ESF 10 ACTIVITIES

EPA and USCG conducting orphan container recovery in Victoria, Texas

EPA On Scene Coordinator Surveying a Well-Head from the Corpus Christi Branch.

Drinking Water Status Map



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
0600 CDT 20170914

N W E S
0 25 50
Miles
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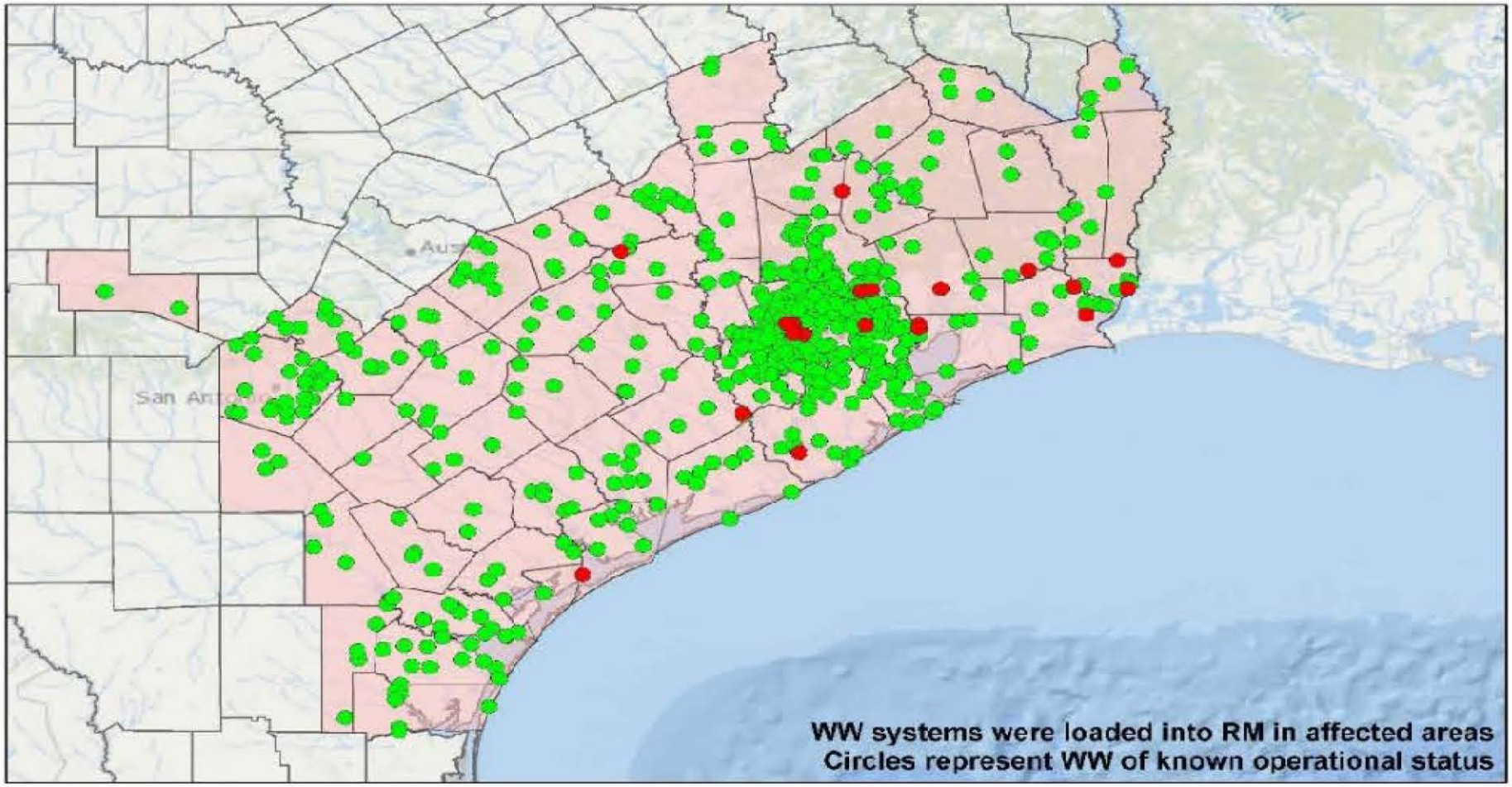
EPA GIS

Waste Water Status Map



Legend

- Not Operational
- Operational
- State Declared Counties

US EPA Region 6
Hurricane Harvey Response

Wastewater Status Map in Hurricane Harvey Declared Areas
0600 CDT 20170914

N
W E
S
0 25 50
Miles

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Printed via Web

EPA GIS
Printed: 8:50:50 PM 8/13/2017

Field Response Activities

Teams	Alpha	Bravo	Charlie	Total
Hazard Evaluation	1	1	3	5
Oil Discharge Assessment	2	4	1	7
ER/Orphan Container Recovery	1	14	3	18
Oil/Vessel Recovery	2	2	0	4
Staging Areas	1	1	1	3
Air Operations	0	0	1	1
Air Monitoring	0	3	0	3
Water Infrastructure Assessment – Drinking Water	0	8	1	9
Water Infrastructure Assessment – Wastewater	0	6	1	7
TOTAL	7	39	11	57

ESF 10 ACTIVITIES

EPA and USCG performing a field assessment near the Houston Ship Channel

Bravo Branch – Orphan Container Recovery

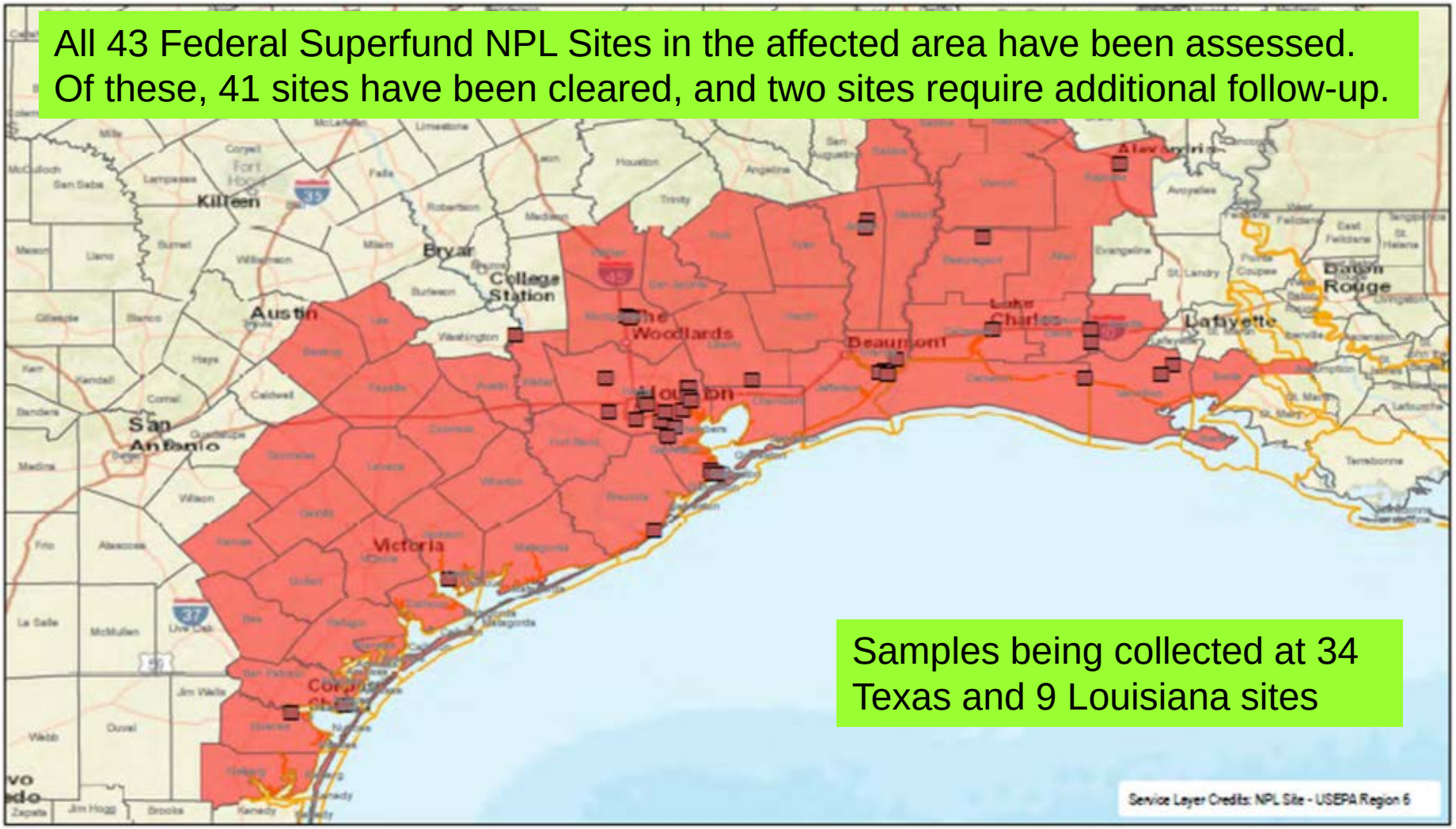
Waste Received at All Staging Pads to Date

	CONTAINERS			CYLINDERS	TOTAL
	DRUMS [55 gals]	**SMALL CONTAINERS [<55 gals]**	**LARGE CONTAINERS [.55 gals]**		
09/13/2017	115	22	2	12	**151**
TOTAL TO DATE	242	132	17	57	**448**

ESF 10 ACTIVITIES

US EPA conducting site assessments

All 43 Federal Superfund NPL Sites in the affected area have been assessed. Of these, 41 sites have been cleared, and two sites require additional follow-up.



Samples being collected at 34 Texas and 9 Louisiana sites

Legend

- NPL Sites (43)
- Coast Guard Area of Responsibility
- Federally Declared

US EPA Region 6

National Priority List (NPL) Sites in Federally Declared Counties/Parishes

N W E S

0 25 50 Miles

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
EPA
EMERGENCY RESPONSE

ESF 10 ACTIVITIES

Houston Branch – EPA Staff Prepping for Air Operations