# August 21, 2017 - August 27, 2017

August 2017

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September 2017

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## Monday, August 21

## Tuesday, August 22

## Wednesday, August 23

## Thursday, August 24

## Friday, August 25

## Saturday, August 26

## Sunday, August 27

# August 28, 2017 - September 3, 2017

August 2017

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September 2017

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## Monday, August 28

**3:00pm - 4:00pm Tropical Storm Update** (RA's Conference Room) - Glenn, Trey

## Tuesday, August 29

**12:00am Raleigh, NC** →

**9:30am - 10:30am FOIA Briefing**

**10:30am - 11:00am US Technology Corporation w/Scott Gordon** (RA's Conference Room - 404-562-9997 Code (b) [redacted] (limited number of callers)) - Glenn, Trey

## Wednesday, August 30

← **12:00am Raleigh, NC**

**2:30pm - 3:00pm TSCA CBI CLEARANCE Training** (R4-RA-Conf-Rm/Sam-Nunn-Federal-Building-ATL) - Glenn, Trey

**3:00pm - 3:30pm ORA IO Meeting w/RA** (RA's Conference Room) - Heard, Anne

[redacted]

## Thursday, August 31

**8:00am - 8:10am PRIVATE: Personnel w/HQ Executive Resources Division (Vickie and Howard)** (Vickie will call Trey's office directly at 404-562-8350) - Tellis, Vickie

[redacted]

**2:30pm - 3:30pm 1 on 1 w/ Brandi Jenkins** (RA's Office) - Glenn, Trey

[redacted]

## Friday, September 1

[redacted]

(b)(6)

[redacted]

## Saturday, September 2

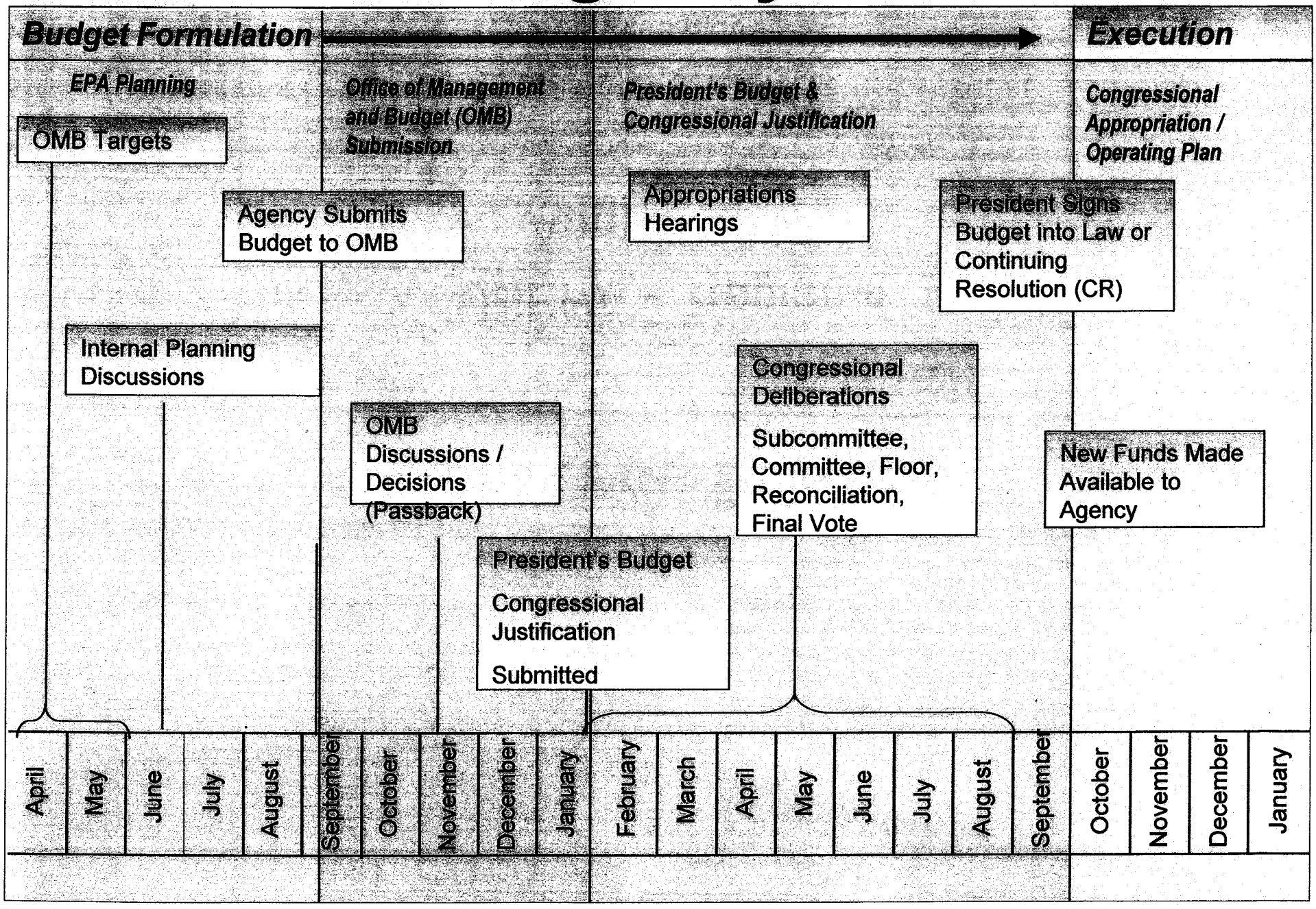
## Sunday, September 3

# Resource Briefing

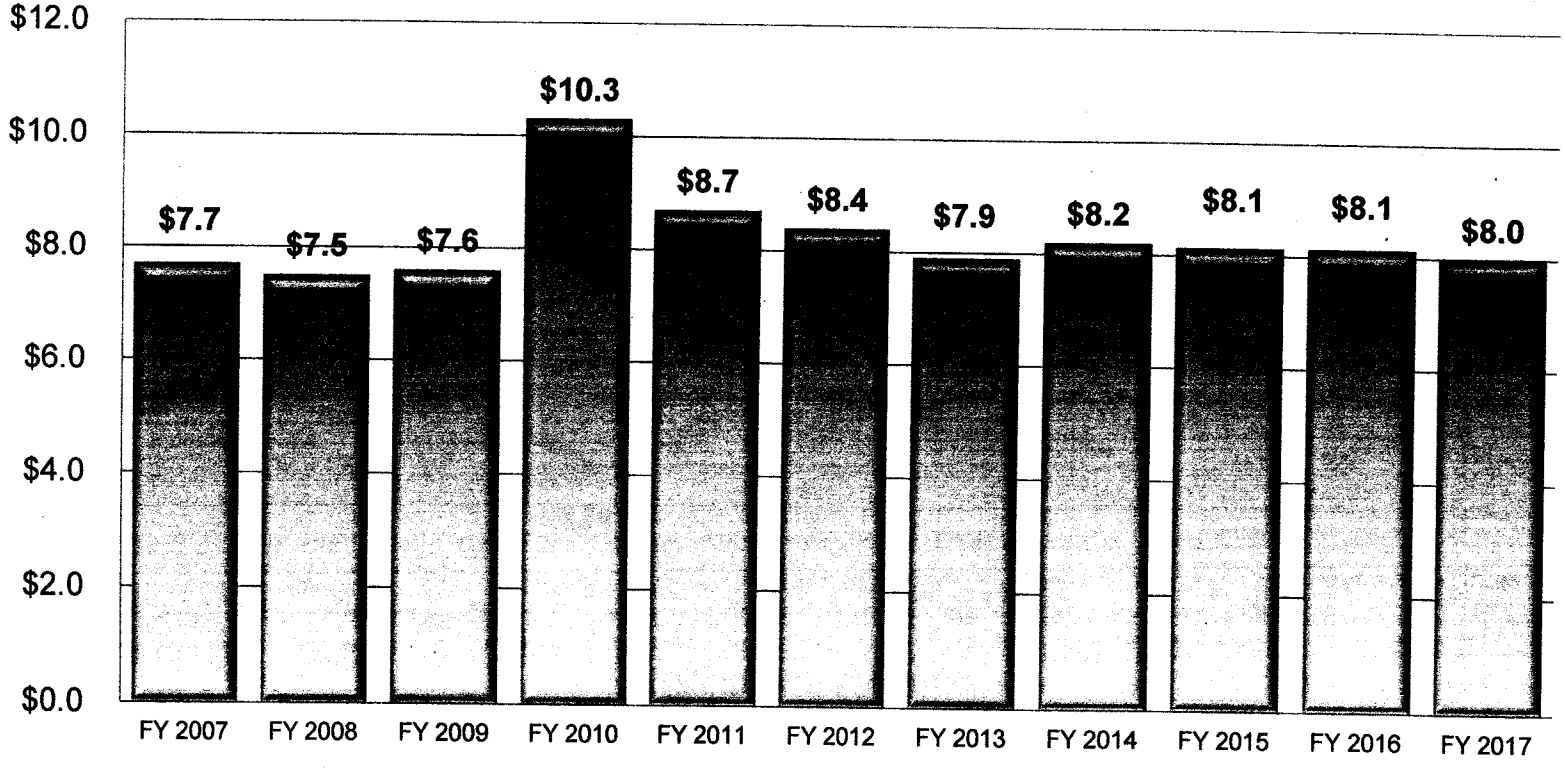
USEPA – Region 4

August 2017

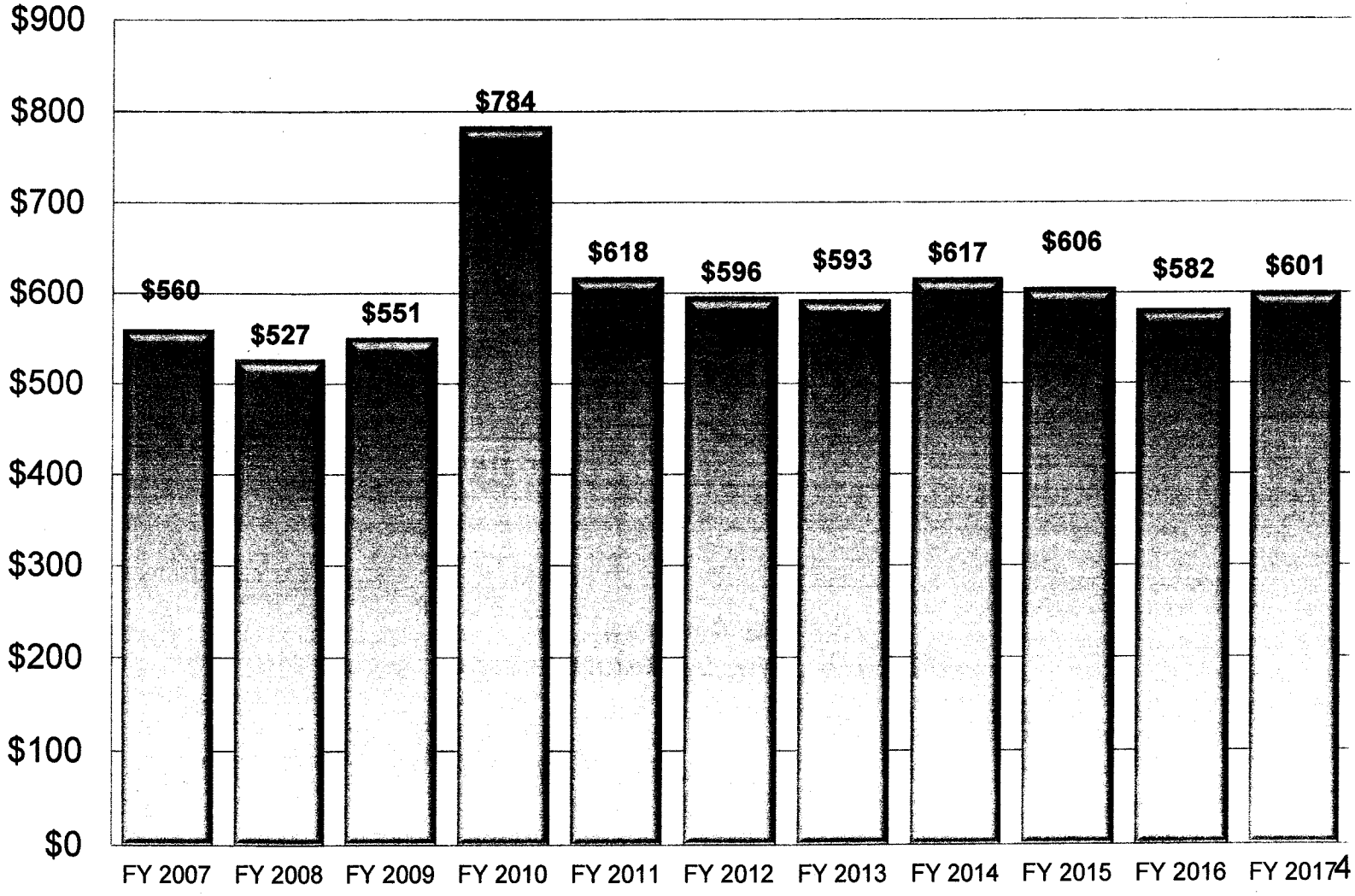
# Budget Cycle



## EPA Budget FY 2007 to FY 2017
(Dollars in Billions)



# EPA Region 4 Budget FY 2007 to FY 2017
(Dollars in Millions)



# FY 2018 President's Budget

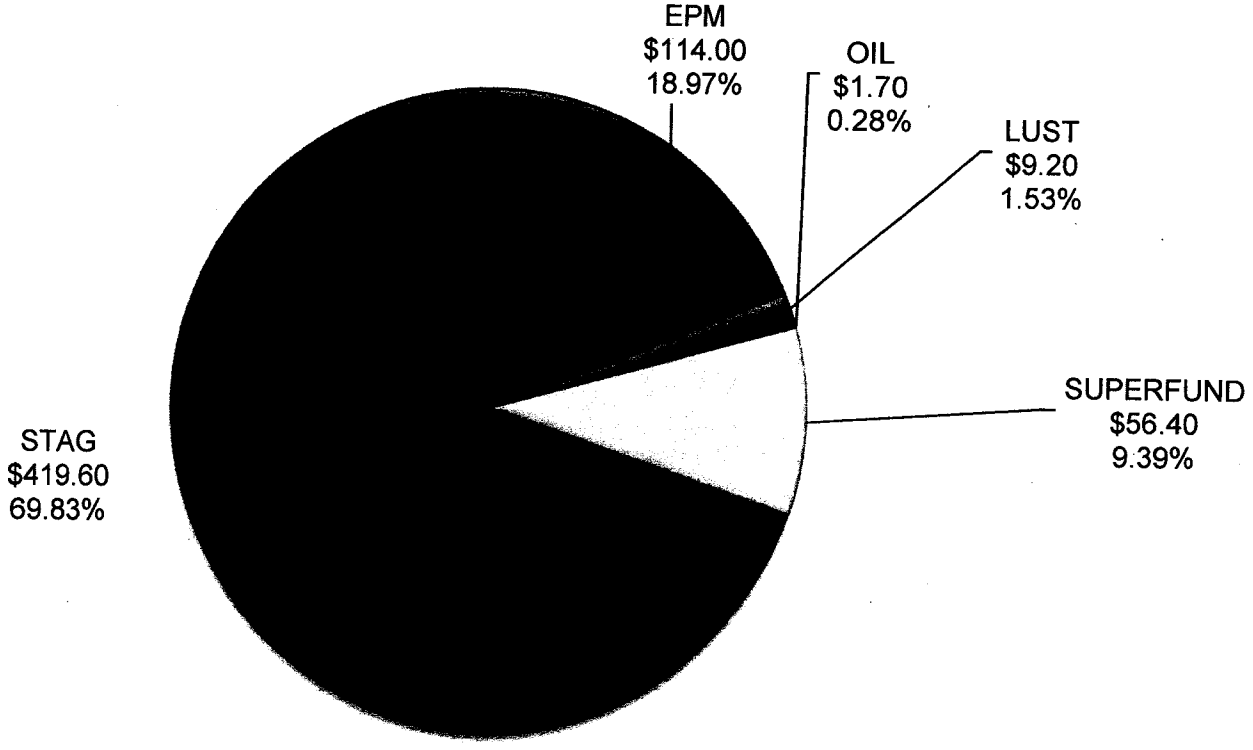
- Released – May 23, 2017
- Submitted to Congress
- Congressional Hearings on-going
- $5.6 Billion for EPA
- 3200 less positions
- 30% reduction for EPA

# Appropriations

- Environmental & Program Management (EPM)
- Leaking Underground Storage Tanks (LUST)
- Oil Spill (Oil)
- State and Tribal Assistance Grants (STAG)
- Superfund (SF)
- Building and Facilities (B&F)
- Science and Technology (S&T)
- Inspector General (IG)

# FY 2017 EPA Region 4 Funds by Appropriation

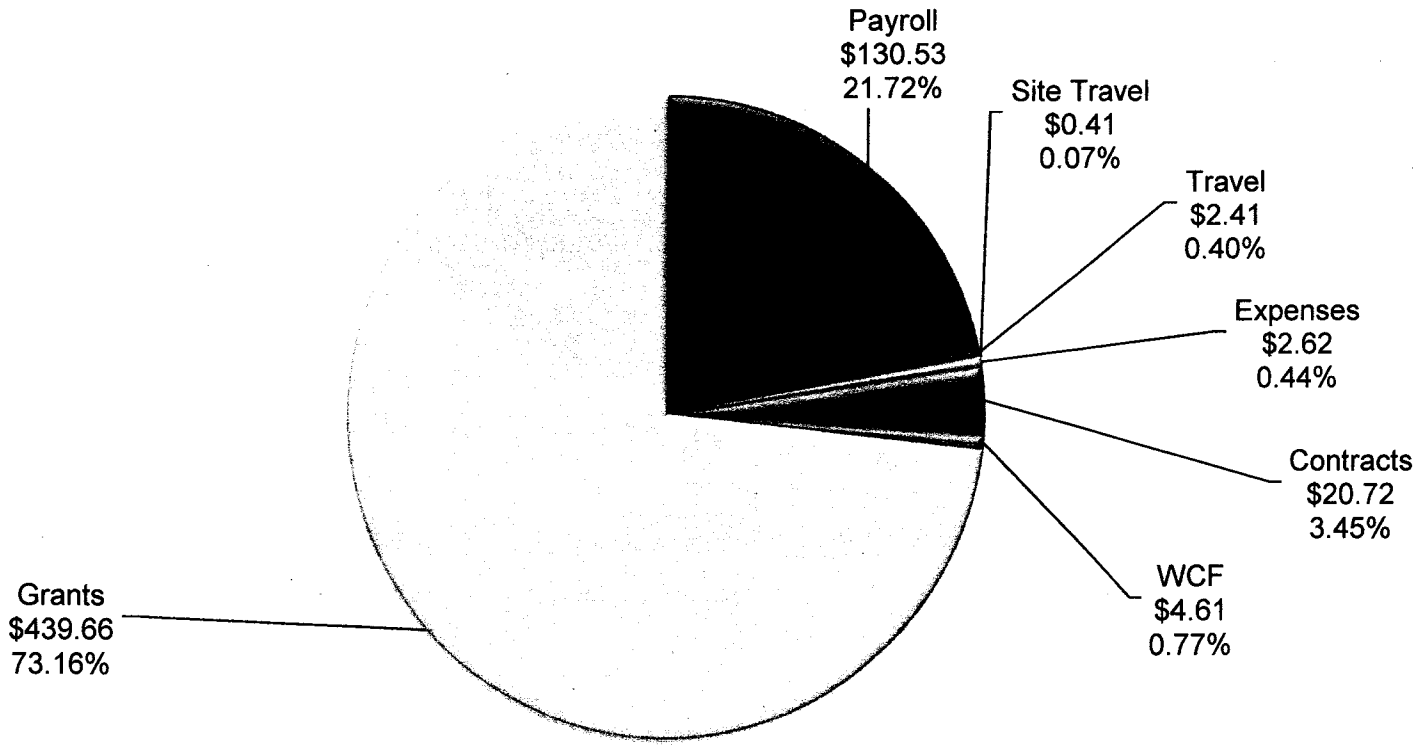
(Dollars in Millions) – Total Budget = $600.9 Million




Source: BAS 2017 OPP V4 + 4.1

# FY 2017 EPA Region 4 Funds by Budget Object Class

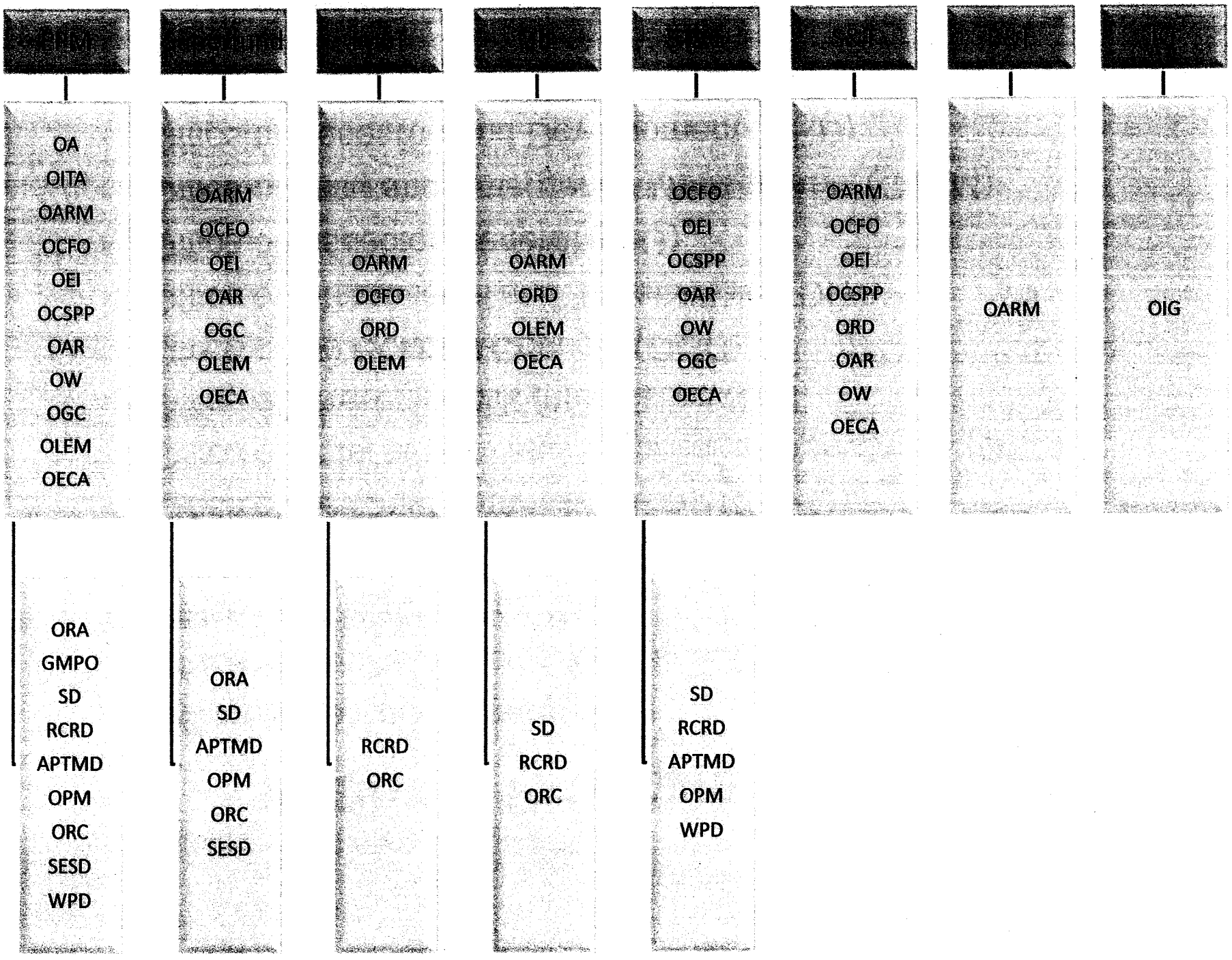
(Dollars in Millions) – Total Budget = $600.9 Million




Source: BAS 2017 OPP V4 + 4.1

# National Program Managers

- Office of the Administrator (OA)
- Office of Administration & Resource Management (OARM)
- Office of Air & Radiation (OAR)
- Office of Chemical Safety and Pollution Prevention (OCSPP)
- Office of the Chief Financial Officer (OCFO)
- Office of Enforcement and Compliance Assistance (OECA)
- Office of Environmental Information (OEI)
- Office of the General Counsel (OGC)
- Office of International and Tribal Affairs (OITA)
- Office of Inspector General (OIG)
- Office of Land and Emergency Management (OLEM)
- Office of Research and Development (ORD)
- Office of Water (OW)


OA
OITA
OARM
OCFO
OEI
OCSPP
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OW
OGC
OLEM
OECA
ORA
GMPO
SD
RCRD
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OPM
ORC
SESD
WPD
OARM
OCFO
OEI
OAR
OGC
OLEM
OECA
ORA
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OECA
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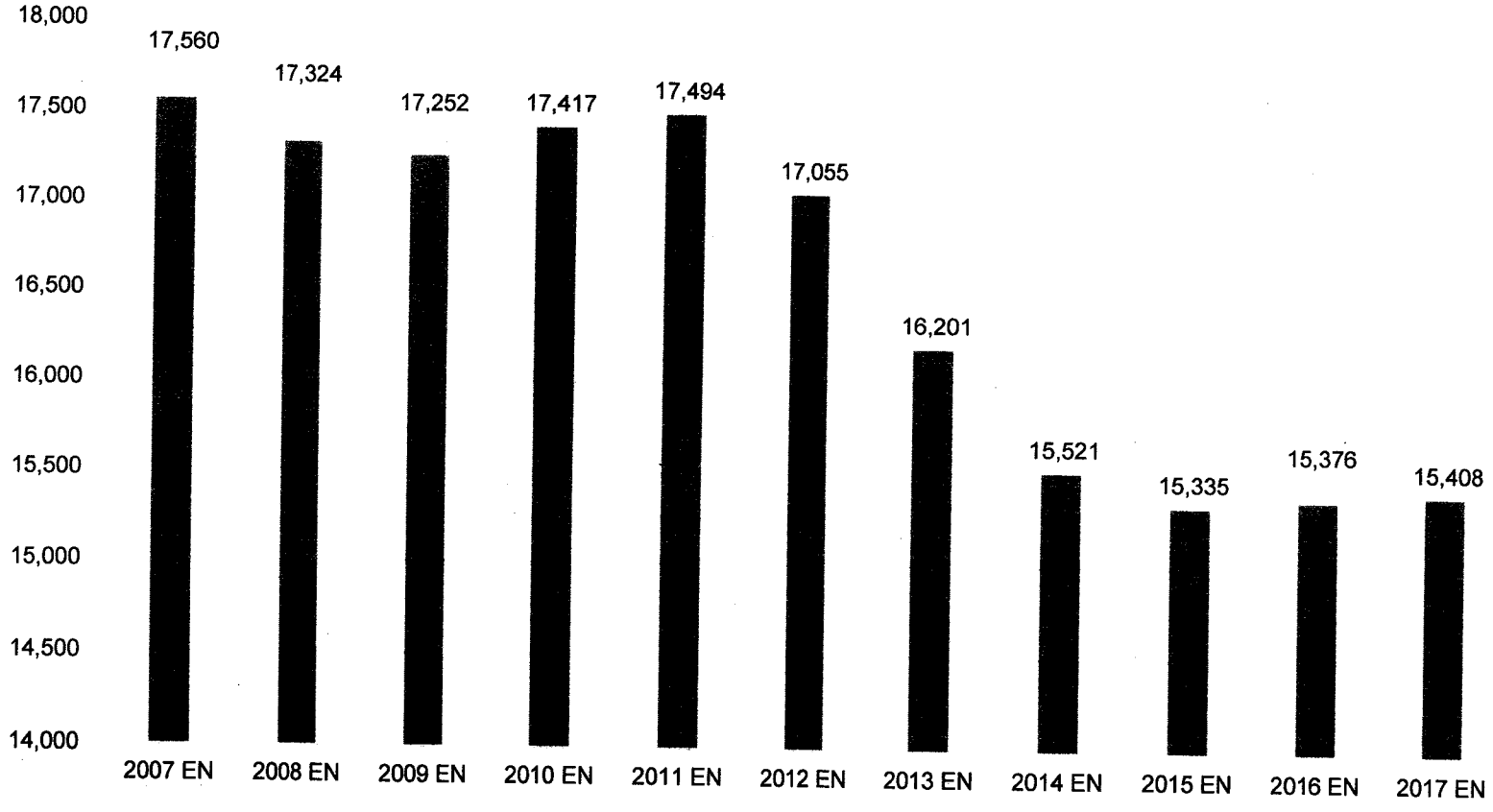
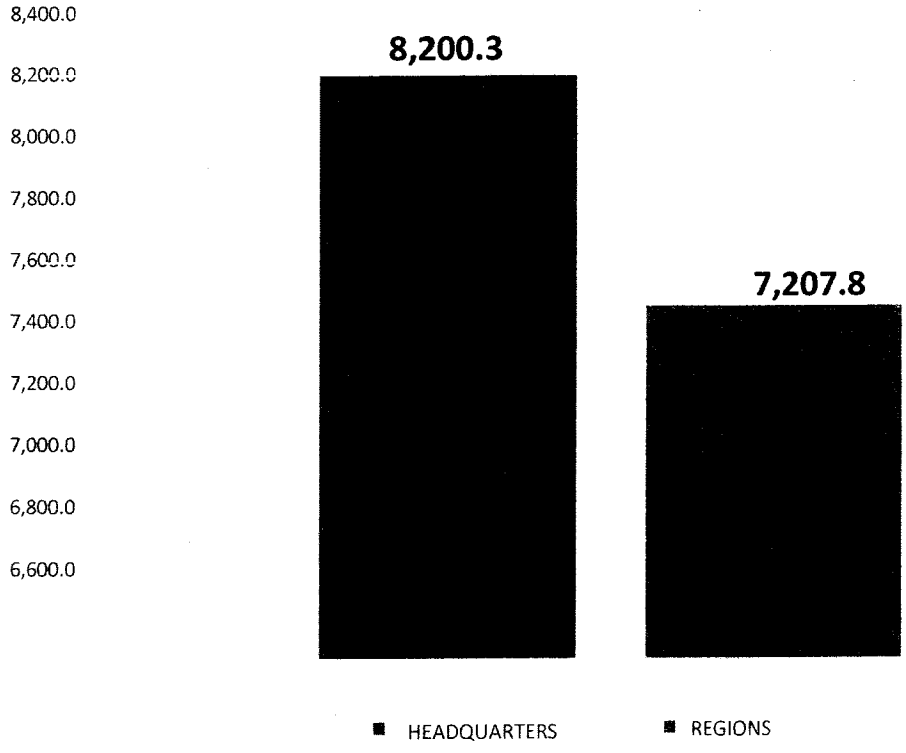
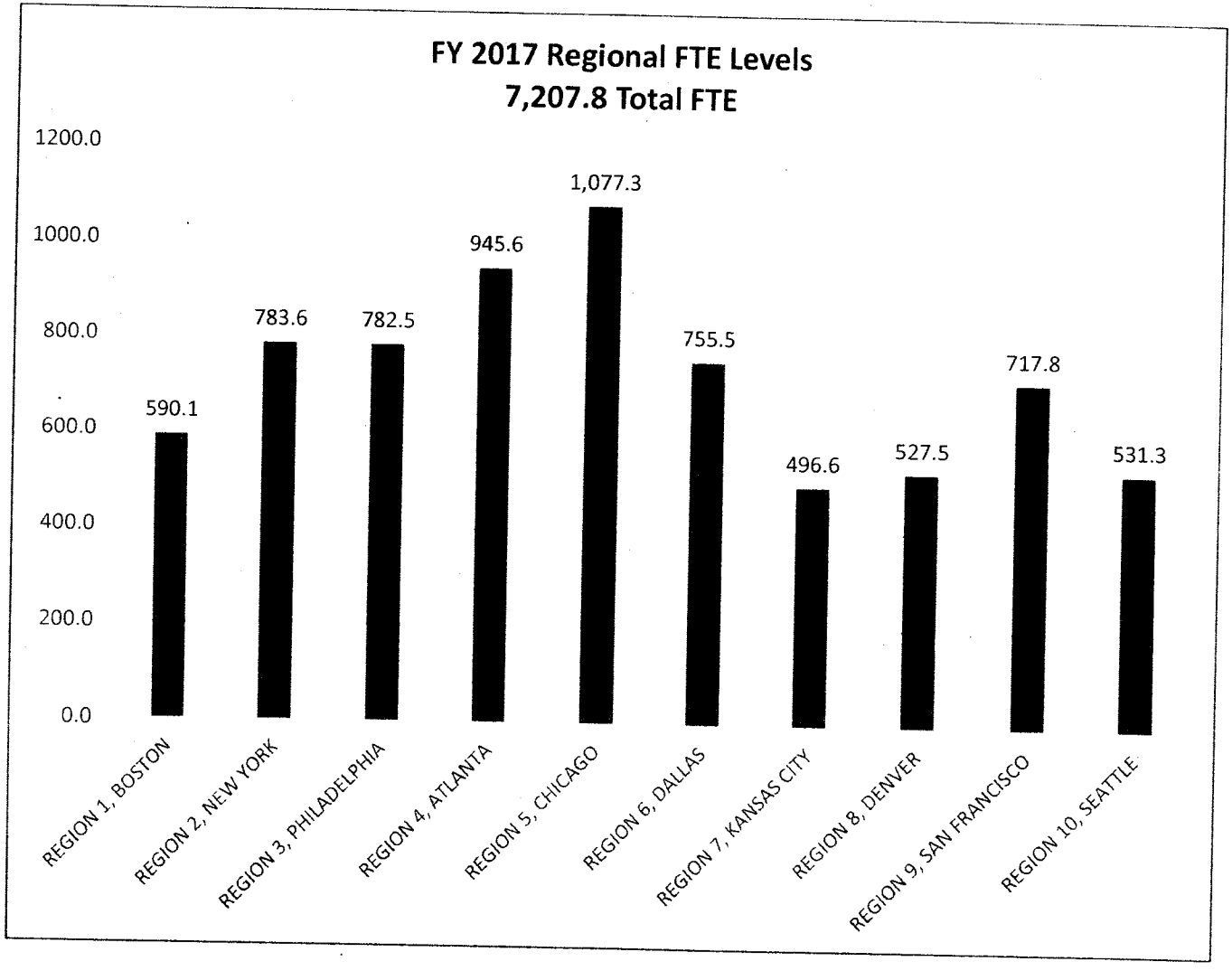
OIG

## EPA Full-Time Equivalent (FTE) Levels: FY 2007 to FY 2017

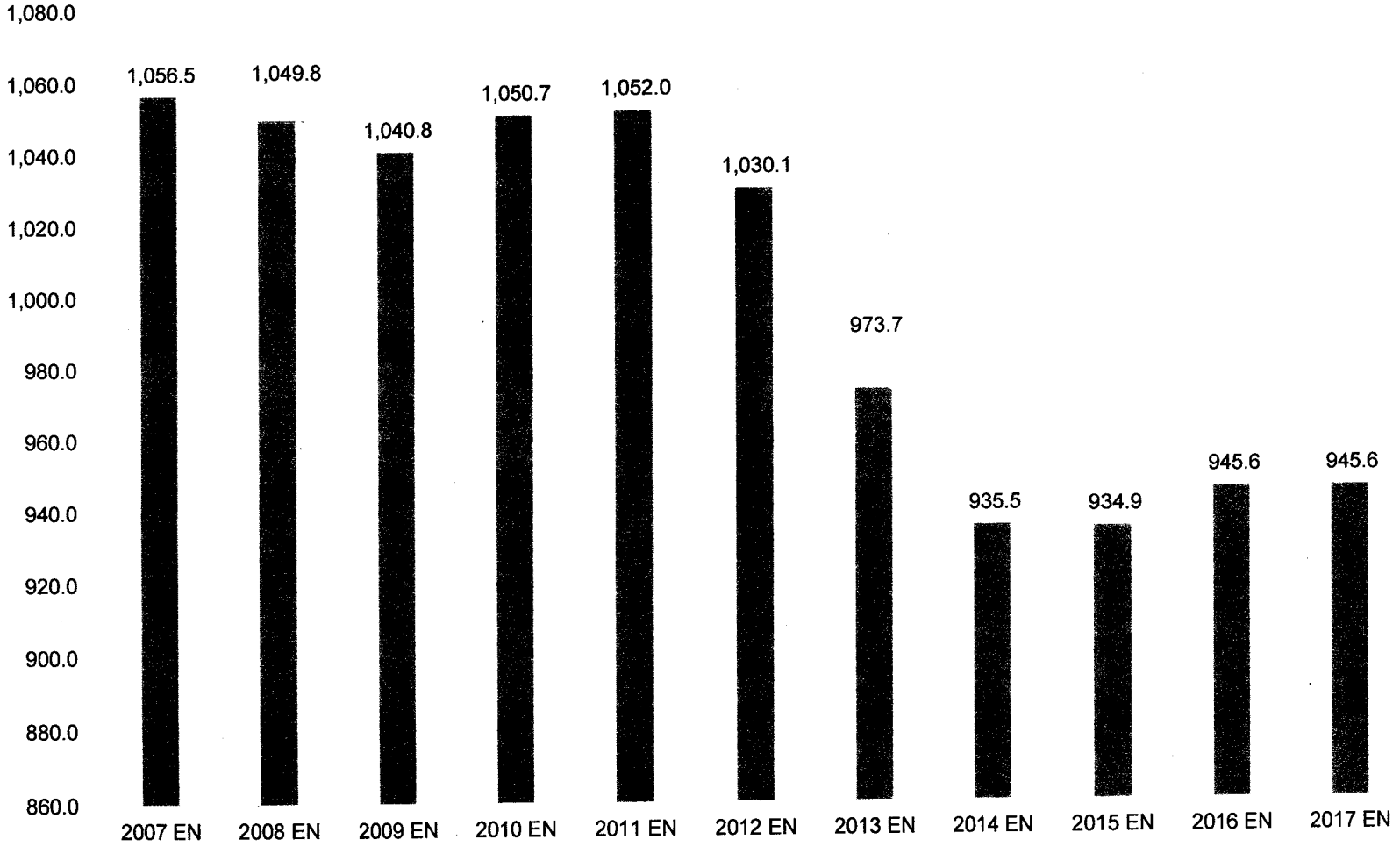


## FY 2017 Headquarters vs. Regional FTE Levels
## 15,408.1 Total FTE




FY 2017 Regional FTE Levels
7,207.8 Total FTE
1200.0
1000.0
800.0
600.0
400.0
200.0
0.0
590.1
783.6
782.5
945.6
1,077.3
755.5
496.6
527.5
717.8
531.3
REGION 1, BOSTON
REGION 2, NEW YORK
REGION 3, PHILADELPHIA
REGION 4, ATLANTA
REGION 5, CHICAGO
REGION 6, DALLAS
REGION 7, KANSAS CITY
REGION 8, DENVER
REGION 9, SAN FRANCISCO
REGION 10, SEATTLE

## EPA Region 4 FTE Levels: FY 2007 to FY 2017



# On-Board Status – as of 7/31/17

| Division/Office | Position Allocation | On-Boards | Vacancies |
|---|---|---|---|
| ORA | 17.0 | 12.0 | 5.0 |
| OEC | 11.0 | 11.0 | 0.0 |
| OEJS | 14.0 | 12.0 | 2.0 |
| OExA | 9.0 | 7.0 | 2.0 |
| OGR | 4.0 | 3.0 | 1.0 |
| APTMD | 141.0 | 138.9 | 2.1 |
| GMPO | 14.3 | 12.0 | 2.3 |
| OPM | 127.4 | 114.0 | 13.4 |
| ORC | 76.2 | 72.8 | 3.4 |
| RCRD | 100.3 | 97.8 | 2.5 |
| SD | 165.9 | 159.3 | 6.6 |
| SESD | 87.0 | 84.0 | 3.0 |
| WPD | 178.5 | 170.3 | 8.2 |
| **TOTAL** | **945.6** | **894.1** | **51.5** |

# VERA/VSIP – Region 4

- VERA - Voluntary Early Retirement Authority
- VSIP – Voluntary Separation Incentive Payment ($25,000 per position)
- 25 Targeted Positions
- 23 Offers
- 19 Employees Accepted – retiring by 9/2/17

# Shutdown

- Funding Hiatus
  - due to lack of appropriations act or continuing resolution (CR)
- May only continue activities that are
  - Exempted
  - Excepted
  - or support Shutdown efforts

# September 4, 2017 - September 10, 2017

September 2017

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October 2017

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| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

## Monday, September 4

**Labor Day**

## Tuesday, September 5

**12:00pm - 1:00pm Hurricane Harvey: PCC Meeting and Conference Call** (DCRoomARNB431/Executive-Conference-Room) - Minoli, Kevin

[redacted]

## Wednesday, September 6

[redacted]

**10:30am - 11:00am Prep RA for noon Irma Call** (RA's Conference Room) - Glenn, Trey

[redacted]

**4:30pm - 5:00pm (Call- In number updated) General with Bob and** [redacted]

## Thursday, September 7

[redacted]

**9:00am - 10:00am RA - Check-IN** (RA's Conference Room) - Glenn, Trey

[redacted] (b)(6)

## Friday, September 8

**12:00am Tallahassee, FL** →

[redacted]

## Saturday, September 9

← **Tallahassee, FL** →

**11:45am - 12:00pm PCC Prep for Noon Call** (404-562-9998;(b)(6) - Jenkins, Brandi

## Sunday, September 10

← **Tallahassee, FL** →

**11:15am - 11:45am FL County Call - stay on mute only listen** (1-888-670-3525;(b)(6)

**5:00pm - 7:00pm Fwd: RICT meeting to discuss Hurricane Irma response. Please be prepared to discuss your role and**

**5:15pm - 5:45pm FL County Call - stay on mute only listen**

Hurricane Irma Policy Coordinating Committee
Agenda
September 6, 2017

| | |
|---|---|
| **Opening Remarks** | Ryan Jackson<br>Barry Breen |
| **Situational Updates** | Region 2<br>Region 4<br>Region 3<br>OPA<br>OLEM |
| **Harvey Update** | Region 6 |
| **Next Steps** | **All** |

# September 11, 2017 - September 17, 2017

September 2017

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October 2017

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| 29 | 30 | 31 | | | | |

## Monday, September 11

← **Tallahassee, FL** →

**9:15am - 10:15am ORA Immediate Office Check-In** (1-866-299-3188,(b)(6) [redacted] - Jenkins, Brandi

**10:30am - 11:30am Discussion on Hurricane Irma response** (conference Call 1866-299-3188, 4(b)(6) [redacted]) - Moore, Tony

**3:00pm - 4:00pm RA Calendar Meeting** (RA's Conference Room) - Glenn, Trey

## Tuesday, September 12

← **Tallahassee, FL** →

**10:30am - 11:30am Hurricane Irma Coordination** (Conference Call: 1-866-299-3188, (b)(6) [redacted] - Moore, Tony

[redacted]

**2:45pm - 3:15pm Canceled: Meeting: Trey Glenn** (Administrator's Office) - Cody, Karen

## Wednesday, September 13

← **Tallahassee, FL** →

**10:30am - 11:00am Mtg. w/ Franklin Hill** (RA's Office) - Glenn, Trey

## Thursday, September 14

← **Tallahassee, FL** →

**11:30am - 12:00pm RICT Policy Coordination Meeting** (11B; Conf Call: 866-299-3188 PIN: (b)(6) [redacted] - Guillard, Jennifer

**1:00pm - 2:00pm Hurricane Irma/Harvey: PCC Meeting and Conference Call** (DCRoomARNB431/Executive-Conference-Room) - EOC Documentation

## Friday, September 15

← **12:00am Tallahassee, FL**

## Saturday, September 16

## Sunday, September 17

**1:00pm - 2:00pm Hurricane Irma/Harvey: PCC Meeting and Conference Call** (DCRoomARNB431/Executive-Conference-Room) - EOC Documentation

Hurricane Harvey/Irma Policy Coordinating Committee

(Deputy EOC Manager) Draft Incident Management Objectives September 11, 2017

Draft – withheld Exemption 5

Hurricane Harvey/Irma Policy Coordinating Committee

(Deputy EOC Manager) Agenda September 12, 2017

Draft – withheld Exemption 5

# What Should Regional Administrators and Deputy Regional Administrators Know about EPA's Role in Disaster Recovery?

## What Are EPA's Objectives for Recovery Operations?

- Build preparedness to mitigate future events – Lessen the impacts of disasters by assisting federal, state and local agencies and communities prior to disasters.
- Promote sustainable and resilient rebuilding - Use EPA's expertise to inform communities, states and federal partners about rebuilding for the long-term viability of regions' people, economies and natural ecosystems. Including:
  - Help communities adapt to climate change and incorporate green infrastructure into their resiliency planning.
  - Collaborate with other Federal agencies to leverage all Federal resources in support of sustainable and resilient recovery.
- Apply EPA's Knowledge – Provide EPA's expertise to other Federal agencies, states and communities in areas of EPA responsibility such as drinking and waste water infrastructure, brownfields, air quality, or oil and hazardous materials clean-ups.
- Streamline Federal Action- Work with our partner agencies to streamline Federal oversight to efficiently fulfill statutory, permitting and/or enforcement requirements in a timely fashion, including if enforcement discretion is warranted.
- Partner with EJ/Disadvantaged Communities – Actively engage vulnerable and overburdened communities so they can meaningfully participate and have their issues addressed during recovery operations and planning.

**What is the Role of Response v. Recovery?** Response and recovery are two **separate but coordinated** phases of disaster relief that may overlap. Response – which EPA carries out under the National Oil and Hazardous Substances Pollution Contingency Plan (managed by EPA) and the National Response Framework (managed by FEMA) – is typically conducted on a weeks to months timeframe for large scale events and addresses the immediate health and safety needs of the affected community. Recovery – EPA's responsibilities are outlined under the federal National Disaster Recovery Framework – a process that can last years, and which focuses on the long-term restoration of places and communities affected by disaster. Recovery operations can involve numerous EPA programs, not only those that were involved in the response phase; many programs involved in response take on additional responsibilities during recovery (e.g., during response, water programs may assess disaster damage, and, during recovery, begin working with states under the State Revolving Fund (SRF) program to rebuild water infrastructure).

### How are Federal Disaster Recovery Operations Organized on a National Level?

When EPA is involved in recovery operations, it operates within the **National Disaster Recovery Framework (NDRF).** Coordinated by FEMA, the NDRF defines how Federal Agencies organize and operate to promote effective recovery and support States, Tribes and other jurisdictions affected by a disaster.

The NDRF is comprised of six Recovery Support Functions **(RSFs)** with a federal agency designated the Coordinating Agency for each one – **1) Community Planning and Capacity Building** (FEMA), 2) **Economic Recovery Support** (DOC), 3) **Health and Social Services** (HHS), **4) Housing** (HUD), **5) Infrastructure Systems** (USACE), **and 6) Natural and Cultural Resources** (DOI). Although EPA is not a Coordinating Agency, it can play a significant part in recovery as an RSF Primary Agency (significant authorities, roles, resources) or Support Agency (specific capabilities or resources that support a primary agency in executing the mission of the RSF) for all six RSFs.

**What Should a Region Consider When the Recovery Process Begins?**

(1) **Will EPA have a role in recovery?** Most disasters will not have a federal recovery effort requiring EPA involvement. In fact, FEMA has activated the NDRF for only a few incidents. When the NDRF is activated, and a sustained effort is needed, EPA managers should assess the appropriate extent of involvement and resources needed to accomplish the Agency's objectives.

(2) **Who should the Region contact for assistance?** The Region should inform the Deputy Administrator's Office immediately of significant recovery operations. The EPA Headquarters (HQ) Office of Homeland Security represents EPA on FEMA's national-level Recovery Support Function Leaders Group, and can assist with interagency coordination. The Region should consult OCFO for financial coordination and NPM programs for program-specific issues.

(3) **How should Regional recovery programs be organized?** Regions may need to involve a wide array of HQ and regional programs and organize multi-disciplinary teams. **Regional Incident Coordination Teams** can provide initial coordination and outreach during the response phase, in coordination with the HQ National Incident Coordination Team, but eventually regions may need to establish a **Regional Disaster Recovery Team**. These regional recovery contacts may then also want to contact each of the 6 RSFs and assign an EPA POC for each of them. (For example, the Water Program typically works with Infrastructure Systems (RSF #5) and the Sustainability Program works with Community Planning/Capacity Building and Housing (RSFs #1 and 4)).

**What EPA Programs May Be Involved in Recovery Operations?** Depending on the nature of the disaster, over 20 EPA existing programs may become involved in disaster recovery operations, including:

| | | |
|---|---|---|
| Clean Water State Revolving Fund | ORD/Homeland Security Research | Brownfields |
| Drinking Water State Revolving Fund | Enforcement and Environmental Justice | NEPA |
| Global Climate Change Adaptation | Smart Growth/Sustainable Communities | Tribal Affairs |
| Agricultural Assistance | Air, including Indoor Air and Fuel Waivers | Energy Star |

These programs and their recovery work may be funded through regular EPA appropriations (according to usual processes), FEMA Mission Assignments, or through supplemental appropriations.

**What is a Sustainability Advisor?** In addition to identifying POCs for the RSFs, EPA may be requested to provide a **Sustainability Advisor** for the recovery operations, through a Mission Assignment. This position advises the FEMA Interagency Recovery Coordination team, RSFs, Federal state, and tribal partners and local officials on sustainable communities, climate change adaptation and low-impact growth, materials and products for recovery planners in the adaptation of sustainable, green, and resilient principles and practices. (See EPA/FEMA Memorandum of Agreement)

## How are Other Federal Programs Involved in Recovery Operations?

**FEMA** provides grants, through the Public Assistance (**PA**) Program for debris removal, emergency protective measures, mitigation, and the repair, replacement, or restoration of disaster-damaged, publicly owned and certain private facilities. FEMA also helps people directly through the Individual Assistance Program **(IA),** provides long term grants through the Hazard Mitigation Grant Program (**HMGP**) and runs the National Flood Insurance Program **(NFIP).**

**HUD's** Community Development Block Grant (**CDBG**) program provides annual grants on a formula basis but also provides flexible grants to help cities, counties, and States recover from Presidentially-declared disasters, especially in low-income areas, subject to availability of supplemental appropriations.

The **Army Corps of Engineers** coordinates federal public works and engineering-related support, as well as providing technical assistance, engineering expertise, and construction management to support recovery projects.

Hurricane Harvey 2017
9/12/2017 – 0700 CDT Update

## EXECUTIVE SUMMARY

- EPA completed review of the Texas Water Development Board's requests for flexibility in using State Revolving Loan Funds to address damage by the hurricane and will respond to the state of Texas today. EPA believes that flexibilities can implemented either through existing authority or by working together to process expedited waivers to current limitations. Where EPA Region 6 concurrence or approvals are necessary, EPA will plan to complete action on these requests by the next business day.

- EPA Environmental Justice Director Arturo Blanco will travel to Port Arthur today and then on to visit the Alabama-Coushatta tribe on Wednesday, September 12, 2017.

- EPA and TCEQ will meet with environmental advocates in Austin today.

- EPA has confirmed that private well testing is available to residents. 21 of the 39 disaster declaration counties offer an active program to provide private well testing for area residents. The remaining 18 counties have access to state programs to provide for private well testing at a nominal fee.

- Community Liaisons are assisting 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.

- The Houston and Port Arthur/Beaumont Branches began recovering and staging orphan containers yesterday, September 11, 2017. 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, unless new work or mission assignments are tasked.

- Discussions at the Joint Field Office are now focusing on debris management operations. FEMA requested that EPA provide a debris management expert at the JFO. EPA will fill that role today. EPA's role in debris operations will become more clear in the coming days for both Texas and Louisiana.

- EPA will complete sampling of the 34 Superfund sites in Texas potentially impacted by the storm by Thursday. Preliminary analytical results should be available soon and will be released to the public. Final QA/QC data will be available in about 10 days.

- On September 12, 2017, EPA will begin sampling of the nine Superfund sites in Louisiana that were potentially impacted by the storm. Sampling will be completed by September 15, 2017 and preliminary analytical results should be available by September 18, 2017.

- EPA continues air monitoring activities around the Valero plant in southeast Houston to determine potential sources of VOCs in the community. Teams monitored the following facilities with the TAGA: Huntsman, Eco Services Operations, Goodyear, Flint Hills Resources-Houston Chemical Plant, TPC Group-Houston Plant. In addition to TAGA monitoring, the team did additional total VOC monitoring along the Eco Services Operations fence line and in the community adjacent to Eco Services Operations. No significant readings of VOCs were observed.

- The U.S. Department of Agriculture published a statement on September 11, 2017, that Certified Organic Farmers with livestock and crops in areas sprayed with "Naled" will not lose their organic certification status.

- ASPECT has completed flight operations for this response and will demobilize in the next two days and be available to support response operations associated with Hurricane Irma.

## PUBLIC AFFAIRS

The Hurricane Harvey Story Map is final and has been posted on response.epa.gov. We are working to provide more visibility on EPA's activities in Corpus Christi.

In a September 11, 2017, Reuters news article, "*US Coast Guard, EPA cleaning up a dozen Texas chemical spills after Harvey*", information provided by the Unified Command shed light on efforts to assess and respond to reported spills of hazardous materials and oil, including at 12 facilities where Unified Command teams have assessed conditions.

EPA's Public Information Officer will report daily to ESF-15 (External Affairs), enabling EPA and TCEQ news releases to reflect hazardous materials/oil assessment and recovery work of Corpus Christi, Houston and Port Arthur/Beaumont Branches, including the recovery of orphan containers.

EPA will update community environmental justice advocates via conference call on September 12, 2017. Additionally, EPA and TCEQ will meet with environmental advocates in Austin today, September 12, 2017.

Community Liaison (CL) teams continue to travel to affected counties to meet with emergency managers and other local officials. They are providing educational materials regarding dealing with the environmental hazards of returning to flooded areas and home. CLs also are collecting feedback on environmental and health challenges of particular concern to the residents.

## DEBRIS RECOVERY

EPA's representative at the JFO indicates that the state is currently assessing its capacity to manage debris collections and disposal. While we do not expect to receive a direct mission assignment for this work in Texas, it is possible that EPA may get tasked to assist with field observation of collection and segregation activities and oversight of landfill operations.

## AIR MONITORING

The TAGA mobile laboratory monitored along the perimeter of the neighborhood adjacent to the Valero Houston Refinery, as well as between facilities and the Manchester neighborhood. The TAGA is expected to finish monitoring in the vicinity of the remaining industry in the Houston area.

## EMERGENCY RESPONSE

| Daily/Cumulative Summary of Hazard Evaluations/Recovery | | | | |
|---|---|---|---|---|
| **Status** | **Opened** | | **Closed** | |
| | **9/11/2017** | **Number of Targets Remaining Open** | **9/11/2017** | **Cumulative** |
| Corpus Christi Branch | 1 | 11 | 1 | 91 |
| Houston Branch | 24 | 224 | 4 | 104 |
| Port Arthur/Beaumont Branch | 5 | 63 | 2 | 9 |
| NRC Reports | 0 | 2 | 0 | 1 |
| **TOTALS** | **30** | **300** | **7** | **205** |

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** | |
| | **9/10/17**** | **Number of Facilities/Spills Remaining Open** | **9/10/17**** | **Cumulative** |
| Corpus Christi Branch | 1 | 8 | 0 | 35 |
| Houston Branch | 3 | 47 | 1 | 41 |
| Port Arthur/Beaumont Branch | 1 | 17 | 1 | 10 |
| NRC Reports | 18 | 147 | 7 | 55 |
| **TOTALS** | **23** | **219** | **9** | **141** |

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.

** No updated numbers available for 9/11/2017

| Daily/Cumulative Summary of VESSELS | | | | |
|---|---|---|---|---|
| **Status** | **Opened** | | **Closed** | |
| | **9/11/2017** | **Number of Vessels Remaining Open** | **9/11/2017** | **Cumulative** |
| Corpus Christi Branch | 24 | 239 | 2 | 151 |
| Houston Branch | 2 | 45 | 1 | 11 |
| Port Arthur/Beaumont Branch | 7 | 42 | 0 | 5 |
| NRC Reports | 3 | 6 | 0 | 6 |
| **TOTALS** | **36** | **332** | **3** | **186** |

**FIELD RESPONSE ACTIVITIES**

| FIELD TEAMS ON 9/11/2017 | | | | |
|---|---|---|---|---|
| **Teams** | **Alpha** | **Bravo** | **Charlie** | **TOTAL** |
| **Hazard Evaluation** | 1 | 2 | 2 | 5 |
| **Oil Discharge Assessment** | 2 | 7 | 1 | 10 |
| **ER/Orphan Container Recovery** | 1 | 6 | 1 | 8 |
| **Oil/Vessel Recovery** | 5 | 0 | 0 | 5 |
| **Staging Areas** | 1 | 1 | 1 | 3 |
| **Air Operations** | 0 | 1 | 1 | 2 |
| **Air Monitoring** | 0 | 3 | 0 | 3 |
| **Water Infrastructure Assessment – Drinking Water** | 0 | 11 | 0 | 11 |
| **Water Infrastructure Assessment – Wastewater** | 0 | 5 | 0 | 5 |
| **TOTAL** | 10 | 36 | 6 | 52 |

| Waste Received at All Staging Pads to Date | | | | | |
|---|---|---|---|---|---|
| | **CONTAINERS** | | | **Cylinders** | **TOTAL** |
| | **Drums [55 gals]** | **Small Containers [<55 gals]** | **Large Containers [>55 gals]** | | |
| 9/10/2017 | 10 | 20 | 0 | 9 | 39 |
| 9/11/2017 | 10 | 24 | 3 | 6 | 43 |
| **TOTAL TO DATE** | 94 | 80 | 11 | 33 | 218 |

CORPUS CHRISTI BRANCH:

Two Oil Discharge Assessment Teams monitored salvage operations associated with the Signet Enterprise and the towing vessel Sandy Point. The Sandy Point was successfully lifted and removed from the beach.

Five Oil Discharge Recovery Teams monitored responsible party removal operations in Rockport, Fulton, Key Allegro, Cove Harbor, and Conn Brown Marinas.

HOUSTON BRANCH:

A Hazard Evaluation Team responded to a report of a chlorine release in the vicinity of Chocolate Bayou. No evidence of a chlorine release was found by the team.

Seven Discharge Assessment Teams assessed or recovered 25 targets within Galena Park, the Woodlands, and Chambers County. Two boat teams reassessed areas off San Bernard and Bastrop to verify there were no additional targets in those areas.

Six Emergency Response/Orphan Container Recovery Teams recovered 40 containers from Colorado, Austin, Waller, Fort Bend, Harris, Wharton, and Montgomery Counties.

The ASPECT flew the remaining Risk Management Program sites in the greater Houston area. Data will be processed and posted today, September 12, 2017. ASPECT has completed flight operations for the Harvey Response.

PORT ARTHUR/BEAUMONT BRANCH:

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

Two Hazard Evaluation Teams conducted patrols of Orange County, the marine fueling pier and Rainbow Marina. Sixteen targets were assessed and no active discharges or significant environmental threats were observed.

The Discharge Assessment Team investigated four targets. Two of the targets will be recovered/ cleaned up, one target was inaccessible due to its location inside a refinery and one was cleaned up/recovered and subsequently closed.

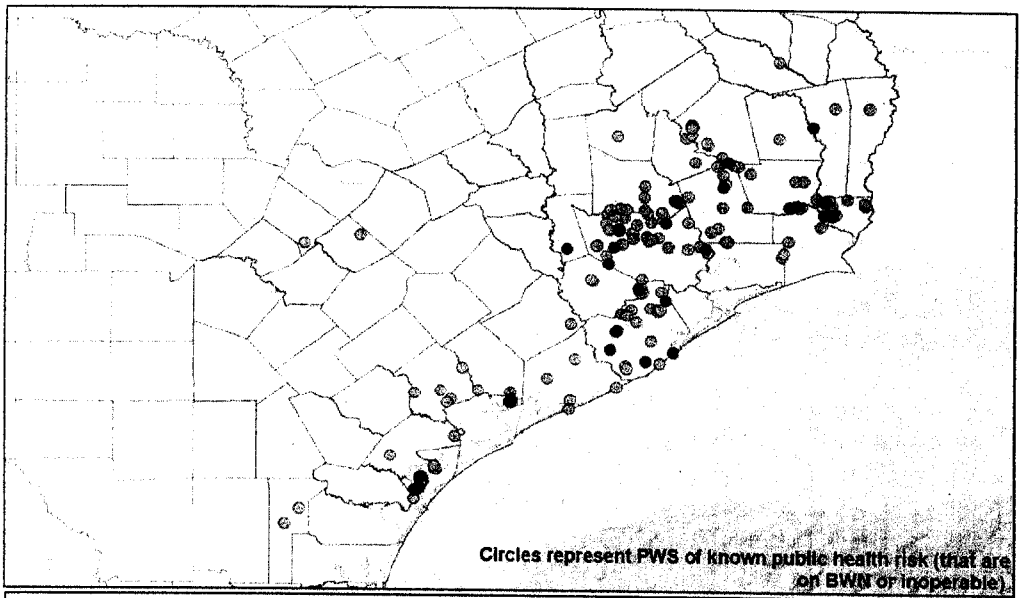
The Orphan Container Recovery Team investigated and recovered 14 targets. During an investigation of a 4,000-gallon diesel tank, a small leak was found. Another team will recover the tank on September, 12, 2017.

The staging area was completed and began receiving orphan containers today.

**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 11, 2017)** | | |
|---|---|---|
| **Assessment Types** | **Daily Assessments** | **Total Assessments** |
| On-Site DW Assessments | 43 | 467 |
| On-Site WW Assessments | 26 | 297 |
| Phone DW Assessments | 20 | 5211 |
| Phone WW Assessments | 0 | 3150 |

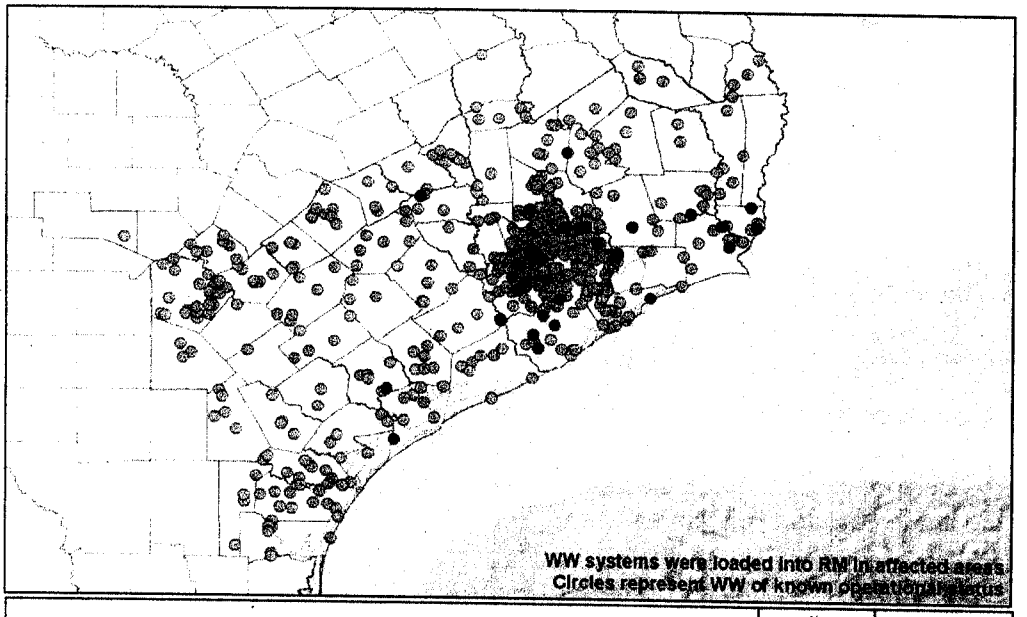



**Legend**

- 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 20170912**




**Legend**

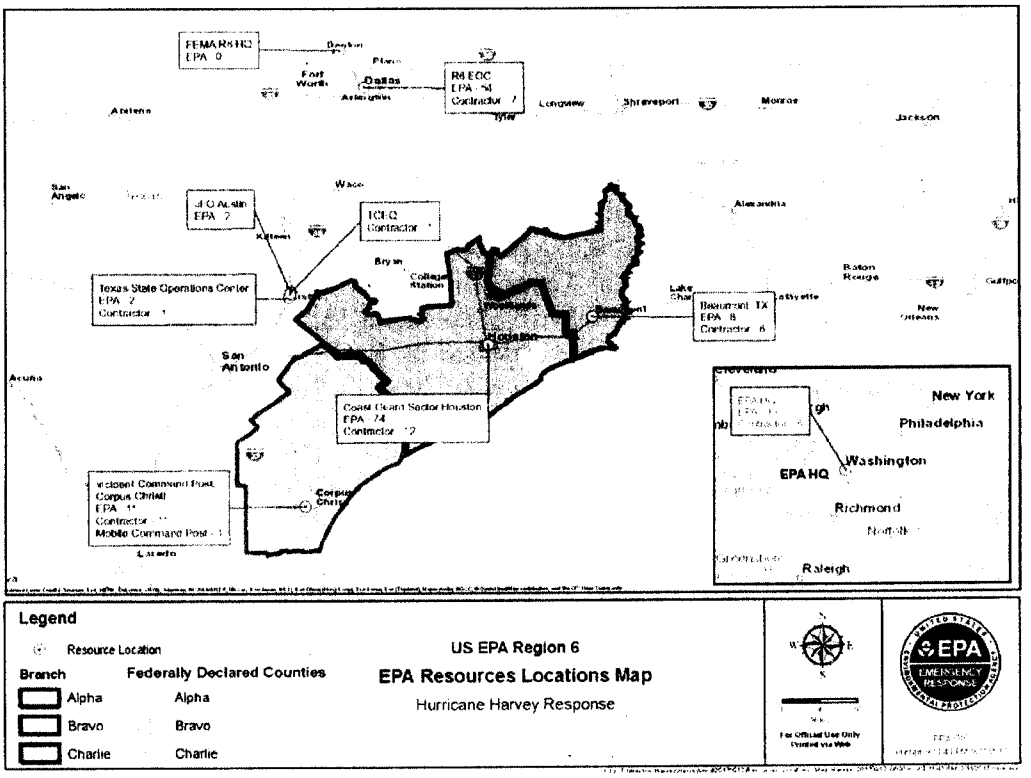
- Not Operational
- Operational
- State Declared Counties

US EPA Region 6
Hurricane Harvey Response

**Wastewater Status Map in Hurricane Harvey Declared Areas**
**0600 CDT 20170912**

# 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 | 54 | 0 | 2 | 2 | 0 | 74 | 12 | 8 | 17 | 169 |
| START | 7 | | | 1 | 1 | 12 | 11 | 6 | | 38 |
| ERRS | | | | | | 19 | 6 | 5 | | 30 |
| Other Contractors | 1 | | | | | | | | 6 | 7 |
| TOTAL | 62 | 0 | 2 | 3 | 1 | 105 | 29 | 19 | 23 | 244 |




# FUNDING

**SitRep**
**September 11, 2017, UPDATED 1300 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 | $30,512.00 | $212,229.00 | $2,032.00 | 104.44 |
| MA 4332DR-TX-EPA-03 | $10,092,000.00 | $8,908,113.00 | $6,146,909.21 | $2,761,203.79 | $320,450.23 | 8.62 |
| Totals: | $10,367,000.00 | $9,150,854.00 | $6,241,621.21 | $2,973,432.79 | | |

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

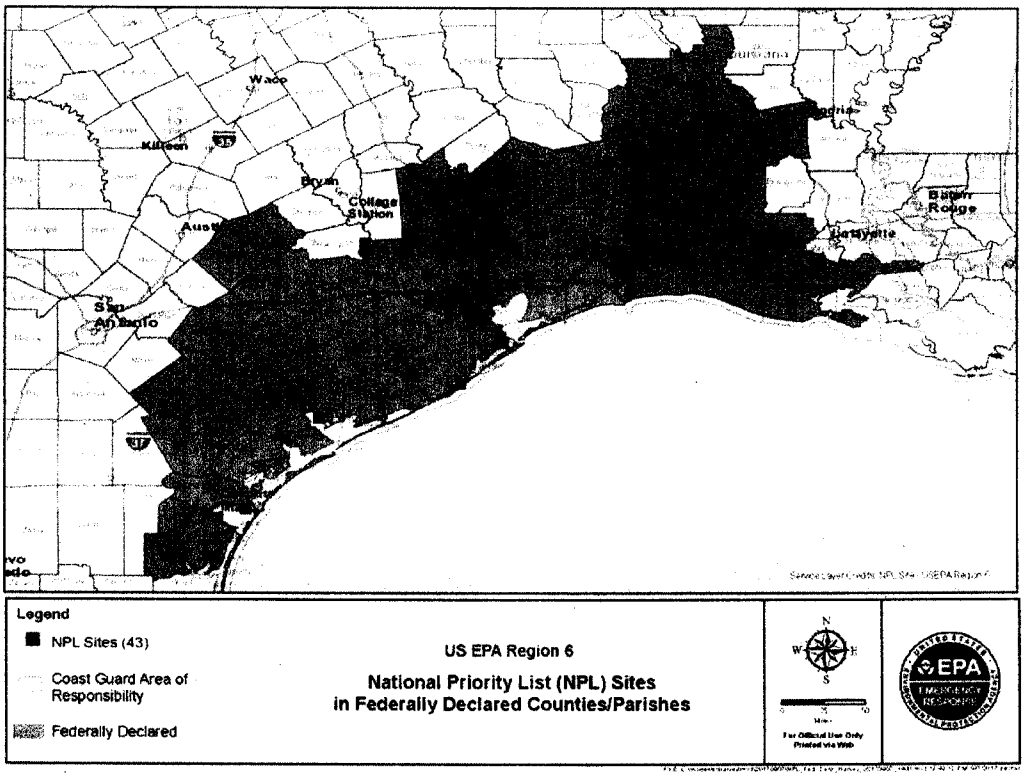
NOTE: This report includes estimated cumulative costs of the HQ EOC charging under MA#03. Awaiting clarification on the start date for charging the Mission Assignment, but at this time all estimated costs to date(9/10/17) are included

**REFINERIES / FUEL WAIVERS**

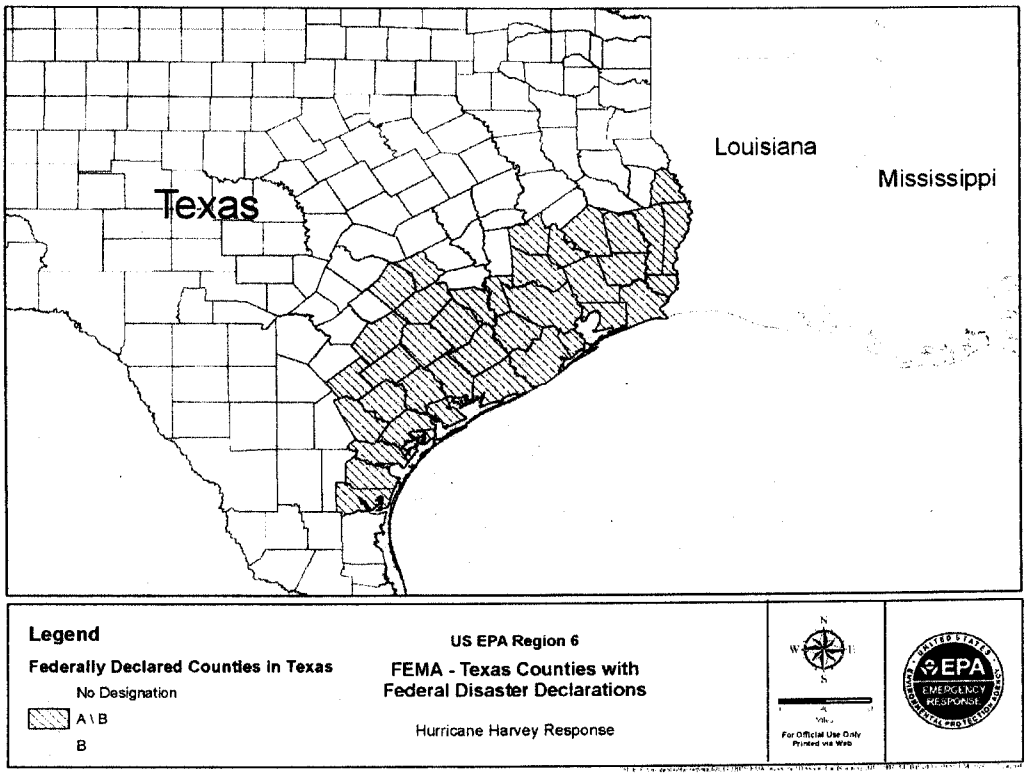
- EPA extended the multi-state fuel waiver to September 26, 2017.
- EPA has granted all open fuel waivers requested to date.
- EPA has issued a No Action Assurance for the Use of Vapor Recovery Systems in Texas Related to Hurricane Harvey (September 1, 2017). EPA will exercise its discretion not to pursue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

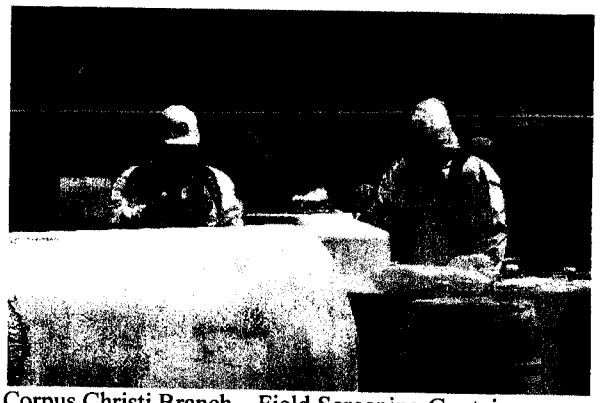
- EPA directed potentially responsible parties or independently started collecting samples at 34 Texas Superfund Sites and nine Louisiana Sites to confirm no releases due to storm impacts. Six EPA field teams, along with potentially responsible parties, completed sampling at 26 sites. Sampling in Texas will be complete by 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 sites located in Louisiana preliminary results 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 potentially responsible party continues to pump down Lift Station #1 to maintain freeboard and continues to coordinate repair/replacement of the damaged/displaced plugs in the piping in the lift station and sand filter. The freeboard level in the lift station is close to being stabilized.
    - San Jacinto Waste Pits Update: Cap repairs continue on the remaining berm sections and samples continue to be taken and sent for analyses. The Dive team assessed areas identified as having missing armor stone and a sample plan will be developed based on this assessment.

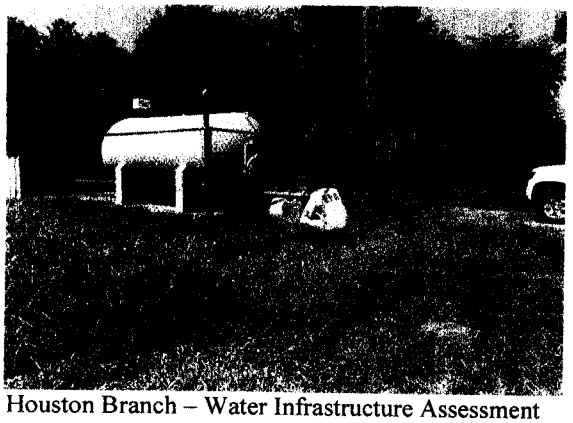



# FEMA – TEXAS COUNTIES WITH DISASTER DECLARATIONS



Corpus Christi Branch – Orphan Container Recovery Team


Corpus Christi Branch – Field Screening Containers


Houston Branch – Water Infrastructure Assessment Team

Corpus Christi Branch – Field Screening of Unknown Container Contents

Corpus Christi Branch – Field Screening Containers

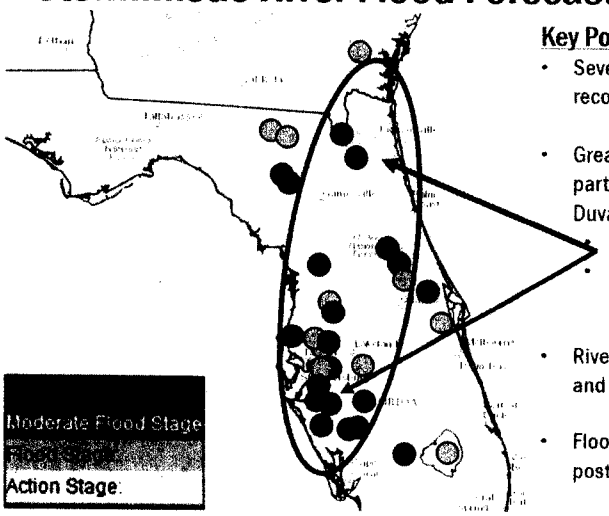
# Senior Leadership Briefing
# Tropical Depression Irma
### Tuesday, September 12, 2017 (5:00 a.m. EDT)
### Updates in Blue

## Current Situation:

At 5:00 a.m. EDT, Tropical Depression Irma was located near Columbus, AL, with maximum sustained winds of 35 mph. The center of Irma is currently over Alabama and then will move into western Tennessee by this evening.

Peak wind gusts (as of 5:00 a.m.) include 142 mph at Naples Airport, 130 mph at Marco Island, 122 mph in Lely, and 120 mph at Big Pine Key. Hurricane conditions are continuing across portions of central and northern portions of the FL Peninsula, with tropical storm and hurricane conditions expected to spread northward today. Irma is expected to produce rainfall amounts of 8 to 20 inches, locally 25 inches, from the Florida Keys to southeast Georgia through Wednesday. There is a high risk for flash flooding across these areas. Moderate to major river flooding is forecast with the greatest risk across Pasco to Sarasota Counties, FL. *(NOAA Update, September 12, 2017, 5:00 a.m. EDT)*

## Deterministic River Flood Forecast




**Key Points:**

- Severity: Moderate-major flooding forecast; localized record flooding possible
- Greatest Risk: Northern and western Florida peninsula, particularly from Pasco to Sarasota Counties, and Duval counties
  - This includes Tampa and Jacksonville.
  - Timing: Rapid rises likely to continue through mid week.
- River flood threat likely to expand into portions of GA and SC middle of the week.
- Flooding will impact roads, homes, infrastructure and post-storm response activities

## When Will Major Flooding Recede?

**Southeast RFC**
River Forecast Center

### River Levels in Florida from Irma

| Area | Waterway | Below Major Recession Date | Additional Info |
|---|---|---|---|
| Elfers | Anclote River | 9/12 | Drop out of flood Saturday morning |
| Zephyrhills | Hillsborough River | 9/12 | Drop out of flood Sunday morning |
| Lithia | Alafia River | 9/14 | Falls to Minor flooding Saturday morning |
| Wimauma | Little Manatee River | 9/13 | Drop out of flood Sunday morning |
| Rye Bridge | Manatee River | 9/12 | Drop out of flood Wednesday afternoon |
| Myakka River State Park | Myakka River | 9/15 | Stays elevated through Sunday |
| Arcadia | Horse Creek | 9/12 | Fall to Minor flooding Friday afternoon |
| Arcadia | Peace River | Beyond 9/15 | Still rising to 17.5 feet crest on Thursday |
| Palmdale | Palmdale Fisheating Creek | 9/14 | Stays elevated through Sunday |
| Lake Harney | St Johns River | Beyond 9/15 | Still rising to 10 feet Crest Thursday afternoon |
| Middleburg | North Fork Black Creek | 9/14 | Drop out of flood Saturday morning |
| Macclenny | St Mary's River | 9/14 | Falls to Minor flooding Sunday morning |

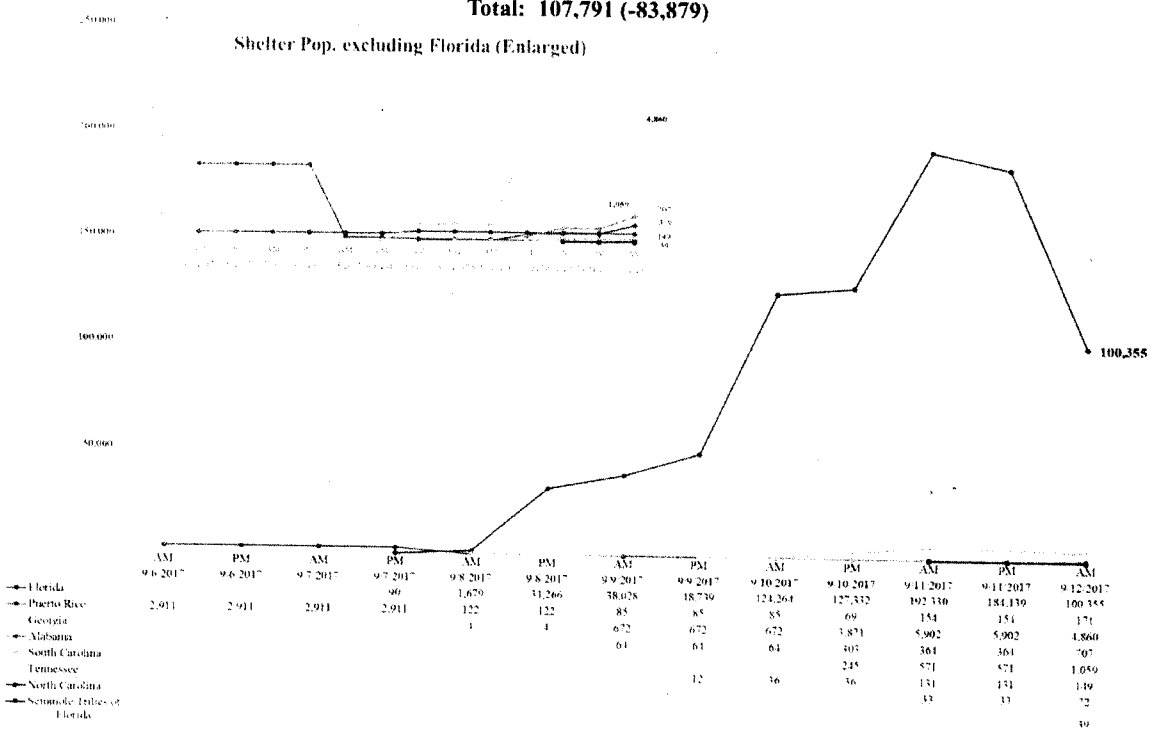
## Impact Summary:

| | Population Impacts | | | | | |
|---|---|---|---|---|---|---|
| | **Confirmed Fatalities** | **Shelters / Population** | **Customer Power Outages** | **Healthcare Facilities** | **Evacuations** | **Other** |
| | 4 | Shelters: 7 (+1)<br>Pop: 376 (+) | St. Thomas - 19,574<br>St. John - 2,893<br>St. Croix - 6,905 | 1 evacuated/ closed | N/A | St. Thomas and St. John curfew 6 p.m. to 12 p.m.<br>St. Croix schools will open 9/12 |
| | 3 | Shelters: 7 (+1)<br>Pop: 171 (+17) | 368,682 (-62,382)<br>(24% of territory) | 1 closed; 6 on generator power | N/A | Schools and government offices remain closed |
| | Media reports 3 (not official) | Shelters: 427 (-153)<br>Pop: 100,355 (-83,784) | 5,083,934 (-1,033,090)<br>(50% of state) | 33 closed | 35 counties mandatory<br>13 counties voluntary | At least 20 cities/counties have overnight curfews between 9/10-13<br>offices in 46 counties will be closed on Tuesday; schools closed in 44 |
| | 0 | Shelters: 5 (+1)<br>Pop: 39 (-133) | No Power at Brighton & Hollywood reservations | Not Reported | No orders | Leaking at Immokalee and Big Cypress shelters |
| | N/A | Shelters: 34<br>Pop: 4,860 (-1,042) | 1,187,518<br>(+320,836) (26% of state) | 6 evacuated (5 full, 1 partial) | All areas east, some areas west of I-95, 1 county | State government offices closed Monday and Tuesday<br>GA has announced some school closures until 9/12 |
| | N/A | Shelters: 24 (+1)<br>Pop: 1,059 (+488) | 220,870<br>(9% of state) | 1 evacuated/closed | Mandatory for barrier islands in 3 counties | State buildings closed in 25 counties and schools closed in 43 counties<br>Assessing vulnerable dams |
| | N/A | Shelters: 5 (0)<br>Pop: 72 (+39) | 63,680<br>(1% of state) | Not Reported | N/A | |
| | 0 | Shelters: 6 (+2)<br>Pop: 149 (+18) | 5,000 | Not Reported | N/A | |
| | N/A | Shelters: 30 (+11)<br>Pop: 707 (343) | 400 | Not Reported | N/A | Multiple school closures.<br>All state offices and buildings are closed Monday |
| ***As of:*** | *4:00 a.m.* | *2:00 a.m.* | *2:30 a.m.* | *4:41 a.m.* | *3:30 a.m.* | *3:30 a.m.* |

*(OCSO Email, RII, ESF-6, ESF-12, ESF-8, RIV, Tribal Affairs Liaison Updates, September 12, 2017)*

**Shelter Population**
**Total: 107,791 (-83,879)**

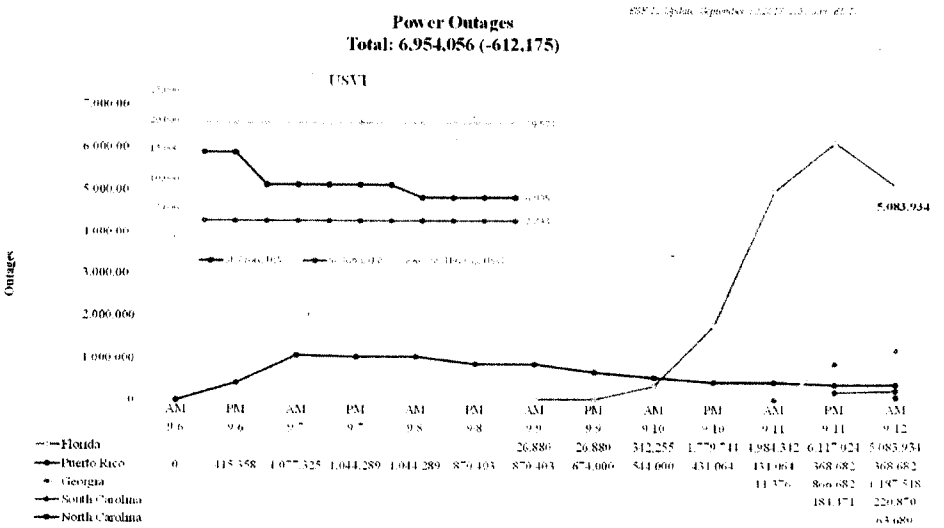
*(ARC, September 12, 2017, 2:00 a.m. EDT)*



## Infrastructure Impacts

| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|
| Open: St. Croix, St. John Emergency only: St. Thomas | St. Croix: 1 closed St. Thomas: 3 open/open with restrictions, 1 closed | St. Croix resuming service; no service in St. Thomas and St. John due to power outages | St. Thomas and St. John major damage on coastal roads; still difficult to fully assess | Normal supply chain operational; 4 gas stations open on generators | Boil water advisories St. Thomas & St. Johns Some water tanks on St Thomas intact |
| Open: San Juan (2), Vieques, Culebra | Two open with restrictions; all others open | Ferry: Relief only in Culebra, full service resumed in Vieques; Rail: Tren Ubano fully operational; Bus: Open dawn to dusk | All major roads and interstates open; priority is repairing damaged traffic signals | Not Reported | 61,980 (-276,015) without water |
| Closed: 4 Emergency only: 7 Open without Air Traffic Control: 1 | All closed except Pensacola | Rail: No service; nearly all public transportation suspended in southern FL | Closed: US-1 to FL Keys, Sunshine Skyway Bridge; flooding on major roads across the state; debris and downed power lines in Orlando, Miami | Fuel shortages in gas stations reported | Not Reported |
| N/A | N/A | N/A | Not Reported | Not Reported | Boil water notice |
| All major airports open | All closed | Rail: minimal service; | Assessments underway; Sidney Lanier Bridge (SR 25) and Talmadge Memorial Bridge (US 17) closed | Not Reported | Not Reported |
| All major airports open | All open | Rail: CSX Rail closed along I-95 corridor | Coordinating with SC and GA to handle re-entry traffic on I-95, I-77, I-26 | Not Reported | Not Reported |
| All major airports open | Charleston open with restrictions | Rail: Closed; public transportation suspended in Charleston and Sumter; no transit services through Lowcountry Regional Transit Authority | Assessments underway; planning for re-entry traffic | Not Reported | Not Reported |
| All major airports open | All open with restrictions | Not Reported | Not Reported | Not Reported | Not Reported |
| ***As of:*** | *3:28 a.m.* | *3:00 a.m.* | *3:28 a.m.* | *3:28 a.m.* | *9/11 4:00 p.m.* | *2:10 a.m.* |

*(ESF-1, USCG, RII, RIV, ESF-12, Tribal Affairs Liaison, DOE Sit Rep Updates, September 12, 2017)*



## Declaration Activity:

| State/Region | Declaration | Declared Counties Individual Assistance | Public Assistance | Cost Share |
|---|---|---|---|---|
| **Region II** | | | | |
| Puerto Rico | 9/10: *DR-4336* | 2 counties | 2 | 75% (Subject to Change) |
| U.S. Virgin Islands | 9/7: *DR-4335* | St. Thomas; St. John | All | 90% (Cat A)<br>100% (Cat B) for 30 days |
| **Region IV** | | | | |
| Alabama | 9/11: *EM-3389* | | All 67 counties and Poarch Band of Creek Indians | 75% |
| Florida | 9/10: *DR-4337* | 16 counties | All (67 counties) | 75%<br>100% (Cat B) for 30 days |
| Seminole Tribe of Florida | 9/8: *EM-3388* | - | Whole Tribe | 75% |
| South Carolina | 9/7: *EM-3386* | - | All 46 counties and Catawba Indian Nation | 75% |
| Georgia | 9/7: *EM-3387* | - | 94 counties | 75% |

*(FEMA, Email, Amendment No. 1 to FEMA-3387-EM for Georgia, September 10, 2017 7:22 p.m.)*

## Federal Force Laydown:

| Department/Agency | Personnel Deployed | Department/Agency | Personnel Deployed |
|---|---|---|---|
| FEMA – Deployed | **2,043 (+1)** | National Weather Service- NOAA | **343 (0)** |
| FEMA – Other Support | **558 (+14)** | National Guard | **19,255 (+5293)** |
| Urban Search & Rescue | **1,352 (+1)** | DOD – Title 10 | **7,395 (+3663)** |
| Health and Human Services | **893 (+20)** | General Services Administration | **20 (0)** |
| Department of Transportation | **25 (0)** | U.S. Army Corps of Engineers | **220 (0)** |
| United States Coast Guard | **510 (0)** | Department of the Interior | **209 (+2)** |
| DHS – NPPD | **53 (-27)** | USDA - U.S. Forest Service | **49 (+22)** |
| Department of Energy | **22 (+13)** | Small Business Administration (SBA) | **0 (0)** |
| US Department of Agriculture | **9 (+2)** | Transportation Security Administration | **253 (0)** |
| Law Enforcement (ESF 13) | **718 (+215)** | Housing and Urban Development* | **0 (0)** |
| Customs and Border Protection | **0 (-372)** | Department of State | **19 (0)** |
| Civil Air Patrol | **24 (0)** | Environmental Protective Agency (EPA) | **266 (0)** |
| Immigration and Customs Enforcement | **73 (0)** | Emergency Management Assistance Compact | **11 (0)** |
| | | **Total** | **34,320 (+8847)** |

***Number of Personnel Unknown/Not Reported***

*(Situational Awareness Info Analysis, September 12, 2017, 3:20 p.m. EDT)*

## FEMA Headquarters:

- National Response Coordination Center activated at Level I (24/7) *(NRCC Update, September 11, 2017, 8:00 a.m. EDT)*
- National Incident Management Assistance Team (IMAT) East-2 at FL Emergency Operations Center (EOC) and National IMAT East-1 is deploying to FL EOC *(Region IV Daily Sit Rep, September 11, 2017, 2:49 p.m. EDT)*
- Personnel mobilization center established at Anniston, AL to mobilize FEMA responders *(FOD update, September 9, 2017, 1:00 a.m. EDT)*
- **Recovery**

| State/Territory | Total Individual Assistance Registrations | % of Projected Total Registrations | % of Total Households in Disaster Area |
|---|---|---|---|
| U.S. Virgin Islands | 880 (+239) | 6.8% | 2.0% |
| Puerto Rico | 770 (+262) | 38.7% | 11.6% |
| Florida | 17, 904 (+10,319) | 2.4% | 0.7% |

*(Pre-Processing and Referral Statistics, September 11, 2017, 11:03 p.m. EDT) (Open Disaster Summary, September 11, 2017, 11:02 p.m. EDT)*

- Surge staffing continues for FEMA's Strategic Workforce Augmentation Team taking calls from three National Processing Service Centers, FEMA pop-up call centers, Headquarters, all FEMA Regions, and from home; 4,425 (+95) call center agents are expected online September 12, 2017 *(Recovery Contact Center Surge Staffing Timeline, September 11, 2017, 11:30 a.m. EDT)*
- 376 Disaster Survivor Assistance (DSA) cadre members are deployed/deployed pending check-in & training in support of Hurricane Irma *(DSA Cadre Management Section Update, September 11, 2017, 7:30 a.m. EDT)*
- 10 joint Individual Assistance Preliminary Damage Assessment Teams are identified and ready to deploy, an additional 13 teams available to deploy *(RIV Sit Rep, September 11, 2017, 7:00 a.m. EDT)*

- **Federal Insurance and Mitigation Administration**
  - Approximately 2 million policies in force across AL, FL, GA, SC, PR, and USVI in Irma's path *(FIMA Update, September 11, 2017, 1:00 p.m. EDT)*
- **Mutual Aid** *(EMAC Sit Rep #37, September 12, 2017, 1:00 a.m. EDT)*

| Region | Jurisdiction | # of Request(s) | # of States Supporting |
|---|---|---|---|
| II | USVI | 2 | 1 |
| IV | FL | 118 (+8) | 32 (+6) |
| IV | GA | 2 | 1 |
| IV | SC | 0 | 3 (+1) |

## FEMA Region II:

- Regional Response Coordination Center (RRCC) at Level I (Full Activation) day shift, Level II (Partial Activation) night shift with ESF 1,3,6, 8,12,13, and 15 *(Region II Sit Rep, September 11, 2017, 8:30 a.m. EDT)*
- FEMA Region II IMAT in St. Croix
- **U.S. Virgin Islands:** EOC at Full Activation, state of emergency declared, and National Guard activated *(Region II Sit Rep, September 11, 2017, 8:30 a.m. EDT)*
- **Puerto Rico:** EOC at Level IV (Full Activation); state of emergency declared, and National Guard activated *(Region II Sit Rep, September 11, 2017, 8:30 a.m. EDT)*

## FEMA Region IV:

- RRCC at Level I (Full Activation); operating on generator power *(Region IV Update, September 11, 2017, 4:00 p.m. EDT)*
- HQ National Tribal Affairs Advisor on site at RIV RRCC *(Region IV Daily Sit Rep, September 11, 2017, 2:49 p.m. EDT)*
- Region IV IMAT-1 at FL EOC; and Region IV IMAT-2 deploying to GA EOC *(Region IV Daily Sit Rep, September 11, 2017, 2:49 p.m. EDT)*
- Region IV Liaison Officers at FL, SC, GA, NC, AL, and Seminole Tribe EOCs (1 each) *(Region IV Daily Sit Rep, September 11, 2017, 2:49 p.m. EDT)*
- **Florida**
  - EOC at Level I (Full Activation) *(Region IV Shift Change Brief, September 11, 2017, 7:00 a.m. EDT)*
  - State of Emergency declared for 67 counties *(FL DEM, September 11, 2017, 8:00 a.m. EDT)*
  - FEMA Initial Operating Facility operational in Tallahassee *(Region IV Update, September 10, 2017, 2:00 p.m. EDT)*
  - Miccosukee Tribe: Two EOCs at Full Activation; power is out, FEMA is putting together a team to support operations and logistics for the tribe *(FEMA email update, September 11, 2017, 2:30 p.m. EDT)*
- **Seminole Tribe of Florida:** EOC at Full Activation (24/7, all ESFs); Immokalee, Brighton, and Big Cypress Reservations on generator power; communications down on Brighton reservations *(Region IV Shift Change Brief, September 11, 2017, 7:00 a.m. EDT)*
- **Alabama:** EOC a Level I (Full Activation)
- **Georgia:** EOC at Level I (Full Activation)
- **North Carolina:** EOC at Level I (Full Activation) *(Region IV Shift Change Brief, September 11, 2017, 7:00 a.m. EDT)*
- **South Carolina:** EOC at OPCON 1 (Full Activation) *(Region IV Shift Change Brief, September 11, 2017, 7:00 a.m. EDT)*

## Interagency Coordination/Response:

- ***ESF-1: Transportation***
  - USVI/PR:
    - EPA is supporting infrastructure recovery by supporting requests for consultation, assessment, and/or mitigation of chronic mold in the control tower at the airport in St. Thomas *(ESF-10 Update, September 11, 2017, 4:14 p.m. EDT)*

- SS Wright will depart Philadelphia on September 12, 2017 en route to St. Thomas to provide berthing and meals for emergency response personnel and to deliver relief supplies *(ESF-1 Update, September 12, 2017, 2:28 a.m. EDT)*
- DHS waived Merchant Marine Act of 1920 ("Jones Act") allowing international vessels to dock at American seaports; acting DHS Secretary approved request effective through September 14 *(ESF-1 Update, September 10, 2017, 12:59 p.m. EDT)*

- FL:
  - Joint USCG, USACE and NOAA port surveys in Tampa, Miami and Port Everglades commenced on September 11, 2017; 40 vessels awaiting port openings to arrive in FL ports *(ESF-1 Update, September 12, 2017, 2:05 a.m. EDT)*
  - Of the 11 airports closed in FL, six to reopen on September 12, 2017 (Tampa, Melbourne Int'l, Ft. Lauderdale, Kissimmee, Gainsville, and Orlando Sanford, and Boca Raton will reestablish Air Traffic Control services); one to reopen on September 13, 2017 (Albert Whitted); three to reopen on September 15, 2017 (Key West Int'l, Naples, Marathon Int'l); one to reopen on September 16 (Page Field at Ft. Myers) *(FAA Update, September 12, 2017, 1:05 a.m. EDT)*
  - Special Notices are in effect for Marathon Int'l (FL) and the San Mateo area until September 20, 2017
  - US-1 to FL Keys is closed; no residents/visitors are permitted into Monroe County until an assessment by FDOT/FHP to roadways and bridges is complete *(ESF-1 Update, September 12, 3:05 a.m. EDT)*
  - U.S. Customs and Border Protection (CBP) providing interagency support to ESF-1: flew an Unmanned Aerial System (UAS) from over FL Keys on September 11, 2017; aerial assessment indicates debris on road but vehicles on highway indicate FL Keys bridges may be usable; will conduct additional UAS flyovers of I-75 and I-95 on September 12 *(ESF-1 Update, September 11, 2017, 11:06 p.m. EDT)*
  - Federal Highway Association (FHWA) approved FDOT's request for $25 Million in FHWA Emergency Relief funds on September 11, 2017 *(ESF-1 Update, September 12, 1:50 a.m. EDT)*
  - Ports: Cruise ships in FL have diverted from standard cruise homeports; further passenger embarkation/disembarkation and upcoming cruises pending post-storm assessments and port openings; FL post-storm port assessments estimated to begin September 11 and 12 as storm and conditions allow *(USCG Update, September 12, 2017, 1:56 a.m. EDT)*
- GA: Assessments of road damage underway as accessibility allows
- Re-entry of evacuees: NC Department of Transportation (NCDOT) is coordinating with SCDOT and GDOT to handle re-entry traffic coming north on I-95, I-77, and I-26; SCDOT will continue to monitor traffic and plan for reentry of SC, FL, and GA evacuees and will provide motorist assistance patrols during reentry *(ESF-1 Update, September 12, 2017, 3:07 a.m. EDT)*

- ***ESF-2: Communications***
  - Federal Communications Commission activated the Disaster Information Reporting System for all counties in FL, PR, and USVI; data being received for PR/VI; FL outage reporting began September 11 *(ESF-2 Update, September 11, 2017, 11:00 a.m. EDT)*
  - Initial damage assessments and restoration activities to communications infrastructure is underway in FL, GA, and AL
  - USVI/PR
    - Initial Maynard Mobile Emergency Response Support (MERS) airlift is complete; another aircraft from Westover Air Force Base to St. Thomas is scheduled to depart September 12, 2017 *(ESF-2 Update, September 12, 2017, 2:21 a.m. EDT)*
    - FEMA accepted an offer from U.S. Secret Service on September 10 for 500 public safety radios; MERS Electronic Maintenance Shop will process the radios and ship to teams engaged in Regions II and IV; the radios are due to arrive at Fredrick MERS September 12 for staging *(ESF-2 Update, September 12, 2017, 1:46 a.m. EDT)*
    - Cell tower status (voluntary reporting, the same towers do not report everyday): 23% outages in St. Croix; 100% outages in St. John; 77% outages in St. Thomas; 19.4% outages in PR *(ESF-2 Update, September 12, 2017, 1:46 a.m. EDT)*
  - FL
    - 27 Public Service Answering Points (PSAPs) affected, 14 of which are down with no re-routes *(ESF-2 Update, September 12, 2017, 1:46 a.m. EDT)*

- 27.4% of cell sites in the disaster area are out of service; counties with 50% or greater of cell sites out include: Collier, Hendry, Highlands, Lee, Miami-Dade, and Monroe *(FCC DIRS SitRep, September 11, 2017, 1:00 p.m. EDT)*
- Coordination is underway for transportation waivers for oversized loads from states throughout Region IV; coordination is underway to allow communications carriers to follow ESF-12 bucket trucks into areas that are being restored *(ESF-2 Update, September 11, 2017, 1:58 p.m. EDT)*
- DHS Government Emergency Telecommunication System(GETS)/Wireless Priority Service to maximize use of wireline priority service is fully functional through October 6, 2017; an extension has been requested for an additional 30 days *(Region IV SitRep, September 11, 2017, 7:00 a.m. EDT)*
- MERS and Mobile Communications Office Vehicle assets assigned to support FEMA IMAT, US&R, ESF-8 NDMS, and Incident Staging Base teams on site in FL, GA, and SC arrived and awaiting assignment based on identified gaps *(ESF-2 Update, September 11, 2017, 1:58 p.m. EDT)*

- ***ESF-3: Public Works and Engineering***
  - USVI
    - Assessments of critical facilities initiated in St. Thomas. Another Critical Public Facilities team is on stand-by and is prepared for deployment *(ESF-3 Update, September 11, 2017, 12:49 p.m. EDT)*
    - USACE has received prioritized assessment requests from FEMA. The majority of temporary power support will be on St. Thomas; shipped generators with an expected arrival date of September 16 *(ESF-3 Update, September 12, 2017, 1:49 a.m. EDT)*
    - Blue Roof Mission: USACE Temporary Roofing Planning and Response Team (PRT) arrived in USVI. The PRT conducted an assessment of high priority critical facilities in St. Thomas *(ESF-3 Update, September 11, 2017, 2:07 p.m. EDT)*
  - PR
    - Five Debris subject matter experts (SMEs) assisting PR with plan for debris management. Debris assessments have been initiated in northeast PR *(ESF-3 Update, September 11, 2017, 2:17 p.m. EDT)*
    - Hydro survey operations ongoing. Survey results will indicate if dredging is required to fully restore federal navigation channels *(ESF-3 Update, September 11, 12:45 p.m. EDT)*
    - Two Temporary Emergency Power Planning and Response Teams are in USVI and PR. Assessments of FEMA assigned generators in PR has been initiated *(ESF-3 Update, September 11, 2017, 12:49 p.m. EDT)*
    - A supplemental Infrastructure Assessment Team arrived on 10 Sep and is engaged with FEMA & EPA to provide technical assistance *(ESF-3 Update, September 11, 2017, 17:56 p.m. EDT)*
  - FL
    - Debris Planning and Response Team (PRT) is supporting FL. The primary focus is to support post-storm mobility for first responders and removal routes from shelter locations to major state highway arteries *(ESF-3 Update, September 11, 2017, 2:17 p.m. EDT)*
    - Blue Roof Mission: USACE Personnel and Advanced Contract Initiative (ACI) contractor attending meeting in Jacksonville to discuss timeline for mobilization and execution. In addition, USACE temporary roofing SMEs coordinating a flyover of South Florida residential areas. *(ESF-3 Update, September 12, 2017, 2:47 a.m. EDT)*
    - USACE Power teams are in Groveland and Tallahassee, FL and are prepared to respond *(ESF-3 Update, September 11, 2017, 12:49 p.m. EDT)*
    - USACE dredges are stationed near impacted region and are prepared to deploy *(ESF-3 Update, September 11, 2017, 12:45 p.m. EDT)*
    - Miccosukee Tribe: Two water pumps delivered on September 11, 2017 by USACE *(ESF-3, September 12, 2017, 3:39 a.m. EDT)*
  - GA: Power team in place to provide temporary power via generators; additional power team on alert *(ESF-3 Update, September 11, 2017, 2:05 p.m. EDT)*
- ***ESF-4: Firefighting***
  - USVI: Assessments of fire departments continue, no shortfalls at this time *(ESF-4 Update, September 11, 2017, 4:40 p.m. EDT)*
  - A Type 3 All Hazards IMT (AHIMT) from PA en route to support 17 2- person saw crews in Lake City, FL
  - ESF-4 supporting ESF-13 with an AHIMT from Colorado to manage a law enforcement base camp at Moody Air Force Base, GA *(ESF-4 Update, September 12, 2017, 2:48 a.m. EDT)*

- The 300 radios requested by the Seminole Tribe in Florida are available for distribution pending cost share discussion *(ESF-4 Update, September 12, 2017, 3:38 a.m. EDT)*

- ***ESF-5: Information and Planning***
  - USVI/PR: Civil Air Patrol: 2 aircraft, 22 personnel, 3 imaging sorties completed over USVI, images uploaded to FEMA site *(CAP Update, September 11, 2017 3:51 p.m.)*
  - FL:
    - Working with USACE and NOAA to conduct surveys of water ways and what reconstitution needs currently exist *(USCG Update, September 11, 2017, 1:43 p.m. EDT)*
    - Senior USCG and elected officials including USCG Atlantic Area Commander, Florida Governor Scott, and USCG District 7 Commander Rear Admiral Brown, Florida Senators Rubio and Nelson, Congressman Curbelo, and Congresswoman Ros-Lehtinen participated in two USCG fixed wing damage assessment overflights on September 11, 2017 *(ESF 15 Update, September 11, 2017, 5:51 p.m. EDT)*
- ***ESF-6: Mass Care, Emergency Assistance, Housing, and Human Services***
  - ESF-6 coordinated with Region IV Donations Management staff to identify warehouse locations, shortfalls, and limiting factors that might impact warehousing capacity for donations management and moving assets efforts. *(ESF-6 Update, September 12, 2017, 01:05 a.m. EDT)*
    - Relayed offers of private sector donations of warehouse space to complement existing warehousing efforts to Region IV
    - Red Cross Safe and Well website has a total of 1552 registrations, an increase of 674 from the 9/11/2017
  - PR: Salvation Army: expecting to house 80 more individuals at The Salvation Army Kroc Center who have been evacuated from a health center in Guayama, PR.
  - USVI: Salvation Army: FEMA Regional Contracting Officer coordinated with a local propane/fuel vendor to have the St. Thomas facility added as part of the daily mission runs. FEMA is working through the territory to coordinate transportation of four generators from Philadelphia, PA to St. Thomas via barge along with other FEMA assets.
  - FL:
    - Temporary Housing Strategy TSA for 4337-Fl has started and auto-dialer calls commenced around 9:00pm. This is for applicants from the initial 9 designated counties at this time *(ESF-6 Update, September 12, 2017, 01:05 a.m. EDT)*
    - ESF-6 projects possible shortfalls in shelter staffing and the ability to sustain long term feeding mission; ESF-6 is negotiating with contract providers to establish mass care support capabilities.
    - Salvation Army: 32 Mobile feeding units (with total 48,000 daily meal capacity) along with supporting equipment are already positioned and ready to deploy once the storm passes, estimated arrival is September 14, 2017; more than 3,000 trained volunteers and personnel to support response efforts;
      - Salvation Army working on a potential airlift to move assets from Jackson, MS to Marathon, FL to support feeding operations; beginning to mobilize resources on September 11
    - Southern Baptist Disaster Relief currently has the capacity to provide 238,000 meals using 15 kitchens.
  - GA: Salvation Army supporting feeding at 19 locations in GA; capacity: 28,500 meals per day; able to maintain this level of feeding as long as required.
  - AL: Salvation Army supporting feeding at two locations (Selma and Dothan) *(ESF-6 Update, September 11, 2017, 2:05 p.m. EDT)*
- ***ESF-7: Logistics Management and Resource Support***
  - USVI/PR:
    - USVI: 210,294 meals and 115,200 liters of water currently pre-positioned *(ESF-7 update, September 11, 2017, 10:49 p.m. EDT)*
    - PR: 161,968 meals and 70 generators are currently on hand *(ESF-7 update, September 11, 2017, 12:30 p.m. EDT)*
    - Maritime Sea Bridge:
      - 1.68M liters of water, 10,000 cots, and 31 generators on Conquistador barge from Pennsauken, NJ with estimated arrival in San Juan, PR September 18

- 903,000 meals, 23 GSA vehicles, and an MCOV being shipped on SS Wright, estimated arrival in St. Thomas on September 19; ship has 325 berthing units and will be used for responder lodging
  - Air Bridges:
    - Passenger air bridge operational for Department of Defense airplanes to move federal responders and vehicles to San Juan, PR
    - Commodity air bridge: a Boeing 767 plane continues to fly meals daily from Houston to San Juan; each trip brings 90,000 meals; 360,000 meals delivered to date; expecting six more trips over the next three days from TX *(ESF-7 update, September 12, 2017, 1:30 a.m. EDT)*
  - Additional commodities are being loaded onto a separate vessel in NJ to support USVI/PR
    - 252,720 meals and 1,570,656 liters of water. Expected to depart NJ September 12 and arrive in PR on or around 9/18 *(ESF-7 update, September 11, 2017, 12:45 p.m. EDT)*
- CONUS: 8,479,850 meals, 12,309,122 liters of water, and 199 generators on hand in the Southeast
  - Seminole Tribe of Florida identifying location for points of distribution (PODs); no need for mass care, food, or Red Cross assistance requested *(Tribal Liaison, September 11, 2017, 9:13 p.m. EDT)*
  - FL: 584,136 meals, 382,542 liters of water, and 112 generators on hand *(ESF-7 update, September 11, 2017, 12:30 p.m. EDT)*
  - AL: 7,171,153 meals, 9,328,544 liters of water, and 0 generators on hand *(ESF-7 update, September 12, 2017, 12:30 a.m. EDT)*
  - NC: 341,473 meals, 1,827,031 liters of water, and 57 generators on hand *(ESF-7 update, September 12, 2017, 12:30 a.m. EDT)*
  - SC: 383,088 meals, 771,005 liters of water, and 0 generators on hand *(ESF-7 update, September 12, 2017, 12:30 a.m. EDT)*
  - GA: 0 meals, 0 liters of water, and 30 generators on hand *(ESF-7 update, September 12, 2017, 12:30 a.m. EDT)*
  - Fuel deliveries to FL are pending subsidence of tropical storm force winds
    - Per the State, escorts are arranged to move commodities from Fort Bragg to FL, with expected arrival on September 12 via ESF-13; vehicle traffic returning to FL may affect/delay arrival times *(ESF-7 update, September 12, 2017, 1:30 a.m. EDT)*
  - Federal buildings closed on September 11: FL 413 (all), GA +148, SC +35, AL +40, USVI + 3, PR +1 *(GSA update, September 11, 2017, 7:00 p.m. EDT)*

- ***ESF-8: Public Health and Medical Services***
  - USVI and PR:
    - 3 Disaster Medical Assistance Teams (DMAT), 1 Incident Response Coordination Team (IRCT) are supporting operations *(ESF-8 Update, September 11, 2017, 11:41 a.m. EDT)*
    - Major medical evacuations from St. Thomas and St. John to St. Croix (STX) and Puerto Rico (PR) were completed and will remain ongoing on an as-needed basis At least 30 patients have been evacuated for medical reasons from STT to San Juan, PR for a cumulative total of approximately 100 *(Incident Status Summary (ICS) 209-FEMA FEMA-4335-DR-VI)*
  - FL:
    - Teams in Orlando: 1 IRCT, 1 Disaster Mortuary Operational Response Assessment Team (DMORT) en route, 1 Mobilization Team (MOB), 3 Rapid Deployment Force Teams (RDF), 7 Disaster Medical Assistance Teams (DMAT), and 4 DMATs en route *(ESF-8 Update, September 12, 2017, 2:55 a.m. EDT)*
    - The initial 100 ambulances assigned to FL being utilized; an additional 200 ambulances, 3,500 paratransit seats, and 25 aircraft (15 rotary wing, 10 fixed wing) are staged in support of FL *(FEMA, September 11, 2017, 4:06 p.m. EDT)*
  - GA: 1 IRCT in Valdosta *(ESF-8 Update, September 10, 2017, 1:00 a.m. EDT)*
  - Seminole Tribe of Florida: Many need medical assistance teams for triage and transport of tribal members to other areas and hospitals, depending on impact severity of impacts on tribal lands *(Tribal Liaison, September 11, 2017, 2:05 p.m. EDT)*
- ***ESF-9: Search and Rescue***
  - USVI/PR
    - Three FEMA Urban Search & Rescue (US&R) task forces and ESF-9 partner agencies continue operations on St. Thomas, St. John, USVI and PR; search operations 95% complete on St. John
    - USCG Sector San Juan is coordinating with cruise ships and interagency to evacuate tourists from St. Thomas, USVI
  - CONUS

- FL: 10 lives saved by USCG *(ESF-9 & USCG Updates, September 12, 2017, 2:00 a.m.)*
- Twelve task forces and three Hazardous Materials Equipment Push Packages staged in FL or GA; four of the eight task assigned to FL have begun operations per direction from the State and Region IV
- USCG forces re-opened Air Station Miami and reconstituting other Air Facilities; 23 inbound flights scheduled for today for post-storm assessment and response; overflights of the Florida Keys report no signs of distress; helicopter-equipped cutters en route to FL Keys to arrive September 12, 2017

- ***ESF-10: Oil and Hazardous Materials Response***
  - USCG has 47 National Strike Force personnel supporting the response to Hurricane Irma in St. Louis, Tallahassee, Savannah, Atlanta, Miami, Mobile, San Juan, and St. Thomas
  - USVI/PR
    - No reports of damage to high-risk facilities in PR and USVI; EPA responders deployed to lead assessments of fixed facilities and potentially contaminated hazardous debris in coordination with the USACE and the Virgin Island Emergency and Environmental Agencies
    - PR: EPA superfund site conditions are being assessed through responsible entities and by conducting ground verification as appropriate; EPA continues to assist the local water and health departments in prioritizing drinking water facilities needs for Federal assistance; two communities identified in need of generators *(USCG Update, September 12, 2017, 2:10 a.m. EDT)*
  - CONUS
    - EPA and USCG providing assistance to the state of Florida as part of in Hazardous Assessment Response Teams to assess the status of oil facilities and prioritize hazardous substance spill reports; initial pollution reports in Florida are being received and resources are being mobilized to conduct post-storm assessments
    - EPA has identified approximately 4,500 Community Drinking Water Systems in FL, AL, GA, and SC that serve approximately a population of 38 million; EPA is supporting USACE in conducting damage assessments *(USCG Update, September 12, 2017, 2:10 a.m. EDT)*
- ***ESF-11: Agriculture and Natural Resources***
  - USVI/PR:
    - U.S. Department of Agriculture and U.S. Department of Health and Human Services are coordinating on policy regarding evacuation of pets and other animals from USVI, PR, and other Caribbean nations and importation to United States *(ESF#11 SitRep.Email, Situation Report, September 10, 3:15 p.m.)*
    - GreaterGood.org/Rescue Bank donated pet food and pet supplies to support commodity distribution and pet sheltering operations; initial supply in Puerto Rico available to ship to USVI
    - St. Thomas Humane Society requested pet assessment teams (immediate priority), pet sheltering teams, and pet food/supplies to meet pet support needs; teams are being mobilized to fulfill request, arrival date unknown *(ESF-11 Update, September 11, 2017, 4:00 p.m. EDT)*
  - CONUS:
    - FL requested 15 individuals for an animal task force; ESF-11 is planning to fulfill request by September 13, 2017 *(ESF-11 Update, September 11, 2017, 2:18 p.m. EDT)*
    - Response by National Animal Rescue and Sheltering Coalition teams staged in and around FL (animal assessment, animal search and rescue, animal transport, and animal sheltering) is pending subsidence of tropical storm conditions; teams staged in GA can assist in FL, as necessary *(ESF-11 Update, September 11, 2017, 9:45 a.m. EDT)*
- ***ESF-12: Energy***
  - USVI/PR: Procurement in process to deploy 30 crews and equipment for pole replacement, installation, and tree trimming for the Rio Grande municipality as part of a Mutual Aid Assistance request; work anticipated to take 3-5 weeks *(ESF-12 Email Update, September 12, 2017, 12:45 a.m. EDT)*
  - CONUS
    - There are terminals delivering fuel in Florida, but there are shortages and a number of stations without fuel; fuel shortages could worsen in Florida if Port Everglades does not reopen soon *(ESF 12 Update, September 11, 2017, 6:00 p.m. EDT)*
    - Florida Power and Light (FPL) has 17,000 personnel from over 30 states on standby to aid power restoration; FPL stood up 22 staging sites to facilitate expedite restoration *(ESF-12 Sit Rep September 11, 2017, 8:30 a.m., EDT)*

    - GA Power has mobilized 3,400 personnel to respond and aid restoration efforts *(ESF-12 Sit Rep, September 11, 2017, 8:30 a.m. EDT)*
  - Fuel Status
    - Service stations in various FL metropolitan areas are without gasoline
    - Retail station outages do not indicate a supply shortage, but are likely due to increased demand and challenges resupplying stations during the storm.
    - Florida is working closely with shippers and truckers in the state to resupply stations (ESF 12 Sitrep #36, September 11, 2017)
  - Turkey Point (FL) Units 3 and 4 are under "hot shutdown". Unit 3 will be assessed for restart pending a preliminary capability assessment by FEMA; no schedule for restart yet for Unit 4 due to non-emergency valve malfunction; both units remain in Mode 3 (hot shutdown) and are stable at normal operating temperature and pressure *(R-IV Sit Rep, September 11, 2017, 6:40 p.m. EDT)*
  - St. Lucie (FL) Unit 1 shutdown due to saltwater contamination issues and planned to restart on September 11th. St. Lucie Unit 2 remains at 100% power; FEMA RIV performed a preliminary capability assessment for St. Lucie Nuclear Power Plant and concluded that all five counties are capable of implementing their radiological emergency response plans and procedures in order to protect the health and safety of the public in the event of an accident
  - Hatch (GA) and Farley (AL) Nuclear Power Plants remain at 100% power with no reported storm impacts *(FEMA THD Update, September 12, 2017, 4:00 a.m. EDT)*
- ***ESF-13: Public Safety and Security***
  - USVI/PR:
    - Coordinating security detail for FEMA Administrator to USVI *(ESF-13 Update, September 11, 2017, 9:45 p.m. EDT)*
    - ESF-13 personnel in San Juan, PR and St. John, USVI report the "usual" amount of petty crime; reports from the field state that 80% of USVI police force has returned to duty
    - Anticipated EMAC request for 100 officers from the NYC police department or NJ state police for USVI *(ESF-13 Update, September 11, 2017, 12:00 p.m. EDT)*
    - Four quick reaction teams (QRTs) deployed to San Juan, PR in support of ESF-8 and ESF-9 operations in PR and USVI *(ESF-13 Update, September 11, 2017, 10:10 a.m. EDT)*
  - CONUS
    - Coordinating potential escort of convoy for FEMA commodities *(ESF-13 Update, September 11, 2017, 9:45 p.m. EDT)*
    - Coordinating with Florida on potential State Deputation *(ESF-13 Update, September 11, 2017, 9:45 p.m. EDT)*
    - Law enforcement staging camp at Moody AFB, GA is operational
    - Seminole Nation is expected to submit a resource request form for approximately 125 federal law enforcement officers to provide assistance
    - ESF-13 Field Support Team deployed a logistics team to Orlando, FL to establish a Forward Operating Base at or near ESF-8 and ESF-9 forward deployed assets
    - 14 QRTs in Region IV assigned to force protection missions for ESF-9 and ESF-8; five additional QRTs will arrive by September 13; 14 additional QRTs on stand-by at their home station *(ESF-13 Update, September 11, 2017, 10:10 a.m. EDT)*
- ***ESF-15: External Affairs***
  - Daily Congressional conference calls and advisories are being provided for operational updates for those Members and staff with affected Congressional Districts *(ESF 15 Update, September 12, 2017, 12:12 a.m. EDT)*
  - USVI
    - Intergovernmental Affairs coordinating with PR and USVI for FEMA Administrator Long's visit on September 12, 2017
    - USVI government providing information to the public via the USVI Department of Tourism website "usviupdate.com"; FEMA is promoting the site in interviews, press conferences and social media *(ESF 15 Update, September 12, 2017, 12:12 a.m. EDT)*
  - FL
    - Tribal Affairs: FEMA Tribal Liaison Officer and team are traveling to both Seminole Tribe and Miccosukee Tribe September 12, 2017 to support operations and coordinate logistics needs
    - Private Sector: Initial reports of small businesses opening faster than big box stores, many of which are closed due to damage or generator issues

- Social media: There is a growing concern on the availability of gas for those who evacuated and looking to return home in a few days; people are seeking information on open gas stations and when it is safe to return home *(ESF 15 Update, September 12, 2017, 12:12 a.m. EDT)*

- ***U.S. Coast Guard***
  - USVI/PR: USCG aircraft and cutter fleet providing maritime security, continuing port assessments, and transporting supplies, equipment, and USCG and interagency teams to St. Johns and St. Thomas for life safety and life sustaining missions
  - CONUS: USCG will assess and develop plan to reconstitute critical maritime communication towers; preliminary damage assessments identified inoperable communications towers in Islamorada, Princeton, Ramrod Key, Vaca Key, Naples, and Shell Point; USCG has a mobile communication vehicle marked for flight to Key West once runways are cleared/operational *(USCG Update, September 12, 2017, 2:07 a.m. EDT)*
- ***U.S. Department of Defense (DoD)***
  - US Northern Command (USNORTHCOM):
    - USVI/PR:
      - USNORTHCOM and USTRANSCOM moving an Army Medical Support Company, two Critical Care Air Transport (CCAT) teams and the En Route Patient Staging System (ERPSS)-10 from St. Croix to St. Thomas to establish temporary medical facilities, mission assignment for sourcing surgical capability is anticipated to enhance the ability to provide temporary medical support services
      - Twenty-sixth (26th) Marine Expeditionary Unit is conducting route clearance operations in St. Thomas and will soon move to St. John *(DOD Update, September 12, 2017, 12:31 a.m. EDT)*
      - The Civil Affairs Information Support Element (CAISE) arrived St. Thomas to distribute emergency messages in support of response operations in USVI *(DOD Update, September 12, 2017, 12:31 a.m. EDT)*
    - FL:
      - USS Abraham Lincoln initiated air operations Monday afternoon. Once the USS Iwo Jima and USS New York reach the southern tip of Florida Tuesday morning, the USS Abraham Lincoln will move up the western coast of Florida to provide a wider array of support *(DOD Update, September 12, 2017, 12:31 a.m. EDT)*
      - SAR resources from Moody AFB, Patrick AFB, Davis Monthan AFB, Nells AFB, and Fort Campbell are prepared to support operations in Florida
      - Coordination is ongoing for the Salvation Army to pursue other means of transport than Strategic Airlift for their mobile kitchens from Mississippi to Key West, FL
  - Defense Logistics Agency (DLA):
    - 31 generators delivered to Lakehurst, NJ and 11 high-end (1-2MW) generators delivered to Groveland, FL in support of Hurricane Irma
      - Twenty-eight of 31 forward shipped by FEMA to VI/PR
      - Additional 40 high-end generators (1.2-1.8 MW) requested for support to FL and GA
    - Increased meal delivery mission assignments to a total of $159M to include MREs and shelf-stable meals
      - Diverted remaining meals dedicated for Harvey to Maxwell AFB, AL in support of Irma
      - Delivering 1.2M commercial meals daily to Ellenwood, GA September 11-20, 2017; deliveries began on time
      - Providing 5M MREs to North Field, SC from September 12 to 15, 2017
    - Delivered 300K gallons of motor gasoline and diesel at Robbin AFB, GA on September 9; receiving requirements and developing "joint solutions" support to issue fuel to first responders and agencies.
    - Received Distribution Order (DO) to move 70,000 gallons of motor gasoline and 160,000 gals of diesel from Fort Hood, TX to Robins AFB, GA *(DoD Update, September 11, 2017, 2:08 p.m. EDT)*
    - Received Mission Assignment for food assistance in Florida up to $100M *(DOD Update, September 12, 2017, 12:31 a.m. EDT)*
- ***National Guard***
  - Received waiver request to allow Active Guard Reserves to remain engaged beyond the usual 72-hour limit *(NGB CEG Briefing, September 11, 2017, 4:00 p.m. EDT)*

- USVI/PR:
  - Supported evacuation of 1,400 US evacuees from USVI *(NGB CEG Briefing, September 11, 2017, 4:00 p.m. EDT)*
  - National Guard personnel supporting in USVI to improve communications capabilities as part of the Joint Incident Site Communication Capability *(NGB verbal update, September 11, 2017, 4:08 p.m. EDT)*
  - An estimated 12,000 citizens evacuated from PR to CONUS in the last 48 hours *(NGB CEG Briefing, September 11, 2017, 4:00 p.m. EDT)*
- CONUS
  - C-26 flights began today to support airlifts for logistics
  - EMAC support will begin for FL September 12, based on mission requirements *(NGB Update, September 11, 2017, 1:57 p.m. EDT)*
  - GA National Guard is coordinating request for more cots for GA shelters *(NGB CEG Briefing, September 11, 2017, 4:00 p.m. EDT)*
  - Providing support to 203 shelters *(NGB CEG Briefing, September 10, 2017, 4:00 p.m. EDT)*

- ***U.S. Department of the Interior (DOI)***
  - USVI/PR
    - National Park Service (NPS) Eastern Incident Management Team (IMT) mobilized to USVI to coordinate debris removal for access to park areas
    - Fish and Wildlife Services (FWS) Southeast Region partnered with the U.S. Forest Service to deliver supplies to FWS personnel in PR and USVI
    - US Geological Survey (USGS) Puerto Rico office continues to run on generator power and is closed to the public; two stream gauges are damaged and three stream gauges repaired, additional discharge measurements, repairing gages, and flagging for additional measurements ongoing
  - FL
    - 31 stream gauges and 10 groundwater stations are not reporting; numerous gages reporting flows above current rating curves or above peak record and will be priority for discharge measurements as weather conditions allow
    - The USGS National Geospatial Program delivered 1,300 maps to the Florida Department of Emergency Management for use in SAR operations; additional maps ordered and will be delivered September 12, 2017
    - The NPS IMT plans to send an insertion team to affected parks in south Florida as early as September 12 for early damage assessments; remainder of the team expected to arrive on September 15, 2017
  - Bureau of Indian Affairs (BIA)
    - Seminole Tribe: BIA is coordinating with Department of Interior's Office of Law Enforcement and Security on Hollywood Reservation request for Law Enforcement support; the Tribe approves use of non-BIA Law Enforcement to supplement the BIA order
      - Major issues reported by the Tribe: two shelters leaking, public safety buildings have roof damage beyond repair, no utility power, no cell phone service, landline capacities limited
  - Miccosukee Tribe of Indians reports no cell phone service, no utility power currently using generator for power, flooding, downed trees, canal levels cresting, severe wind gusts
  - Bureau of Land Management: Jupiter Inlet Lighthouse has no power and restoration is estimated to be 48 hours *(DoI Update, September 11, 2017, 11:21 a.m. EDT)*

- ***U.S. Department of State (DoS)***
  - 80 students and 70 animals evacuated from the University of America in the Caribbean and will arrive at Chicago, O'Hara Airport on September 12, 2017 at 4:30 p.m.
  - The Department of State Hurricane Response Task Force has evacuated US Citizen and foreign nationals from St. Maarten via air and ship with DOD support; additional evacuations expected September 12, 2017 *(DoS Update, September 12, 2017, 1:45 a.m. EDT)*

- ***U.S. Customs and Border Protection (CBP)***
  - USVI/PR:
    - P-3 Airplane with four Flight Crew personnel transported 15 Border Patrol agents to Puerto Rico *(CBP Update, September 11, 2017, 10:59 a.m. EDT)*
    - Conducted 10 transport missions for federal personnel, including four Special Agents from Postal Service to conduct search and rescue (SAR) for three missing Postal employees, who were located

safe on September 11, 2017; CBP assets including two Black Hawk Helicopters, two A-Star Helicopter, and ten Air-Marine Flight Crew Personnel continue to conduct SAR, transport, and reconnaissance missions. *(CBP Update, September 11, 2017, 11:04 a.m. EDT)*

- FL:
  - P-3 Airplane with eight Air-Marine Flight Crew personnel and MQ9 Predator (Unmanned Aircraft System) conducting reconnaissance, damage assessment, and picture/video missions, including providing real-time video feedback to the NRCC
  - 36 Border Patrol Swift-Water Rescue personnel deployed to FL and are actively performing SAR missions
  - Remaining 263 Border Patrol Agents will deploy at 4:00 a.m. EDT on September 12, 2017 *(CBP Update, September 11, 2017, 11:04 a.m. EDT)*

## Commodities Table

- The following commodities are prepositioned in support of the incident

| PR | Ordered To FEMA Staging Site | En Route To FEMA Staging Site | Arrived At FEMA Staging Site | Current On Hand at FEMA Staging Site |
|---|---|---|---|---|
| Meal | 1,300,000 | 870,113 | 161,966 | 161,968 |
| Water | 106,000 | 0 | 0 | 0 |
| Generators | 0 | 35 | 70 | 70 |
| CUSI | 0 | 84 | 0 | 0 |

| USVI | Ordered To FEMA Staging Site | En Route To FEMA Staging Site | Arrived At FEMA Staging Site | Current On Hand at FEMA Staging Site |
|---|---|---|---|---|
| Water | 1,705,418 | 25,200 | 115,200 | 115,200 |
| Meal | 1,687,296 | 4,032 | 210,924 | 210,924 |
| Cot | 300 | 150 | 0 | 0 |
| CUSI | 100 | 5 | 0 | 0 |
| Sheeting | 28 | 28 | 0 | 0 |

| AL | Ordered To FEMA Staging Site | En Route To FEMA Staging Site | Arrived At FEMA Staging Site | Current On Hand at FEMA Staging Site |
|---|---|---|---|---|
| Water | 27,768,599 | 6,352,165 | 11,547,663 | 9,328,544 |
| Meal | 11,453,243 | 308,592 | 11,687,734 | 7,171,153 |
| Tarp | 118,248 | 5,926 | 110,567 | 112,707 |
| Blanket | 53,676 | 0 | 53,676 | 47,801 |
| Hygiene | 50,000 | 0 | 50,000 | 50,000 |
| Sheeting | 42,965 | 2,016 | 14,981 | 15,379 |
| Cot | 20,385 | 0 | 20,984 | 19,496 |
| Other | 500 | 0 | 0 | 0 |
| Generators | 205 | 5 | 218 | 0 |

| FL | Ordered To FEMA Staging Site | En Route To FEMA Staging Site | Arrived At FEMA Staging Site | Current On Hand at FEMA Staging Site |
|---|---|---|---|---|
| Meal | 1,390,288 | 1,024,009 | 584,136 | 584,136 |
| Water | 1,095,552 | 802,028 | 382,542 | 382,542 |
| Fuel | 70,000 | 0 | 0 | 0 |
| CUSI | 686 | 72 | 0 | 0 |
| Gen | 339 | 49 | 112 | 112 |

| GA | Ordered To FEMA Staging Site | En Route To FEMA Staging Site | Arrived At FEMA Staging Site | Current On Hand at FEMA Staging Site |
|---|---|---|---|---|
| Meal | 12,000,000 | 0 | 0 | 0 |
| Fuel | 318,464 | 0 | 0 | 0 |
| Gen | 58 | 0 | 30 | 30 |
| TRANS | 2 | 0 | 0 | 0 |

| NC | Ordered To FEMA Staging Site | En Route To FEMA Staging Site | Arrived At FEMA Staging Site | Current On Hand at FEMA Staging Site |
|---|---|---|---|---|
| Water | 3,000,000 | 55,154 | 3,472,755 | 1,827,031 |
| Meal | 1,676,904 | 17,136 | 1,942,202 | 341,473 |
| Blanket | 40,000 | 8,094 | 36,738 | 13,853 |
| Tarp | 26,410 | 1,448 | 25,452 | 23,590 |
| Other | 500 | 0 | 0 | 1 |
| Gen | 94 | 0 | 83 | 57 |
| THU | 0 | 0 | 0 | 11 |
| Cot | 0 | 0 | 2,389 | 2,677 |
| CUSI | 0 | 0 | 13 | 13 |

| NJ | Ordered To FEMA Staging Site | En Route To FEMA Staging Site | Arrived At FEMA Staging Site | Current On Hand at FEMA Staging Site |
|---|---|---|---|---|
| Meal | 2,386,696 | 328,536 | 1,895,400 | 783,432 |
| Hygiene | 20,000 | 9,496 | 0 | 0 |
| Water | 16,128 | 31,104 | 1,651,296 | 1,570,656 |
| Cot | 10,000 | 978 | 9,684 | 9,684 |
| Other | 200 | 0 | 0 | 0 |
| Gen | 45 | 1 | 1 | 0 |

| SC | Ordered To FEMA Staging Site | En Route To FEMA Staging Site | Arrived At FEMA Staging Site | Current On Hand at FEMA Staging Site |
|---|---|---|---|---|
| Meal | 9,866,316 | 1,482,178 | 383,088 | 383,088 |
| Water | 1,800,000 | 1,064,064 | 771,005 | 771,005 |
| CUSI | 87 | 0 | 0 | 0 |

- The following commodities have been ordered by and shipped to the State or Territory

| FL | Ordered To State / Territory | Shipped To State / Territory |
|---|---|---|
| Meal | 3,290,240 | 2,184,627 |
| Water | 2,367,680 | 1,785,890 |

| GA | Ordered To State / Territory | Shipped To State / Territory |
|---|---|---|
| Water | 957,456 | 912,624 |
| Meal | 602,592 | 628,416 |
| Blanket | 20,000 | 22,885 |
| Tarp | 3,004 | 1,664 |
| Cot | 300 | 12,505 |

| PR | Ordered To State / Territory | Shipped To State / Territory |
|---|---|---|
| Water | 3,600 | 3,600 |
| Cot | 2,150 | 2,252 |

| VI | Ordered To State / Territory | Shipped To State / Territory* |
|---|---|---|
| Meal | 500,000 | 0 |
| Water | 500,000 | 0 |
| Cot | 150 | 0 |
| CUSI | 25 | 0 |

* Some commodities have been transferred to USVI; RSS is in the process of establishing formal accounting of commodities transferred to the territory

*(ESF 7 Update, September 12, 2017, 12:30 a.m. EDT)*

# FEMA Logistics Pre-Positioned Sites - CONUS Commodities as Reported 9/12/2017 – 0300 EDT

Logistics

Puerto Rico / Virgin Islands

**Rafael Hernandez Intl Airport-ISB**

**FSA-San Juan, PR**
Water (liters): 0 (0 TLs)
Meals (ea.): 244,565 (11 TLs)

**PPS-St. John, VI**
Water (ea.): 20,160 (1 TL)
Meals (ea.): 18,000 (1 TL)
PPDS 20ft (ea.): 1

**DC-Caribbean, PR**
Water (liters): 444,770 (31 TLs)
Meals (ea.): 285,600 (13 TLs)
EDS Cots (ea.): 868 (3 TLs)
Blankets (ea.): 5,018 (1 TL)
Generators (ea.): 70
Blue Roof (rolls): 15,344 (25 TLs)
Tarps (ea.): 13,272 (3 TLs)
Infant Kits (ea.): 7
CMS Kits (ea.): 4
DME Kits (ea.): 4
JFO Kits (ea.): 1

**PPS-St. Thomas, VI**
Water (liters): 91,940 (1 TL)
Meals (ea.): 48,000 (2 TLs)
Tarps (ea.): 761
PPDS 20ft (ea.): 3
Blue Roof (rolls): 3,777

**Jose Aponte de la Torre Airport-ISB**

**PPS-St. Croix, VI**
PPDS 20ft (ea.): 4
Water (liters): 48,000 (2 TLs)
Meals (ea.): 96,824 (6 TLs)

CANADA

**PPS-Maynard, MA**
JFO Kits (ea): 4

**ISB - Crowley, Pennsauken NJ**
Water (liters): 1,555,536 (108 TLs)
Meals (ea.): 783,432 (37 TLs)
Cots: 8,892 (13 TLs)

**ISB – Fort Dix, Lakehurst, NJ**
Water (liters): 15,120 (1 TL)
Meals: 0 (0 TLs)
Cots: 792 (1 TLs)

**ISB – Fort A.P. Hill VA**

**PPS-Denver, CO**
JFO Kit: 2

**ISB-Camp Beauregard, LA**
Water (liters): 0 (0 TLs)
Meals (ea.): 708 (0 TLs)
Cots (ea.): 0 (0 TLs)
EDS Cots (ea.): 0 (0 TL)
Tarps (ea.): 1,560 (1TLs)

**ISB - Marine Corp Logistic Base (MCLB) Albany GA**

**PPS-Camp Minden, LA**
Cots (ea.): 16,717 (24 TLs)
Blankets (ea.): 44,144 (10 TLs)

**PPS-Sherwood Forest, LA**
Generators (ea.): 29

**ISB – Fort Bragg, NC**
Water (liters): 1,827,031 (127 TLs)
Meals (ea.): 342,473 (15 TLs)
Cots: 2,677 (4 TLs)
Blankets (ea.): 13,835 (3 TLs)
Generators: 55
Tarps (ea.): 23,590 (9 TLs)

**ISB-Randolph AFB Auxiliary, TX**
Water (liters): 6,749,593 (469 TLs)
Meals (ea.): 1,790,726 (84 TLs)
Cots (ea.): 624 (1 TLs)
Blankets (ea.): 5,875 (1 TLs)
Generators (ea.): 124
Blue Roof Sheeting (rolls): 8,064 (13 TLs)
Tarps (ea.): 3,120 (1 TLs)
Hygiene Kits: 150,800
Infant Kits (ea.): 48
CMS Kits (ea.): 2
DME Kits (ea.): 1

**FSA-Lufkin, TX**

**DC/MHU - Selma, AL**
Water (liters): 2,447,216 (170 TLs)
Meals (ea.): 913,926 (43 TLs)

**FSA - College Station, TX**
Generators (ea.): 4

**FSA – Northfield, SC**
Water (liters): 751,853 (52 TLs)
Meals: 383,099 (18 TLs)

**Chase Field, TX**
Water (liters): 1,409,500 (98 TLs)
Meals (ea.): 432,099 (20 TLs)
Tarps (ea.): 3,480 (1 TLs)
Cots (ea.): 16,182 (23 TLs)
Blankets (ea.): 47,000 (10 TLs)
Tarps (ea.): 16,115 (6 TLs)

**FSA – Estes, Atlanta, AL**

**PPS - Albany, GA**
Blankets (ea.): 7,432 (2 TLs

**FSA – Craig Field, AL**

**PPS - Valdosta, GA**
Blankets (ea.): 929 (1 TL)

**PPS-Thomasville, GA**
JFO Kits (ea): 2

**Randolph AFB**
Water (liters): 7,149,844 (497 TLs)
Meals (ea.): 2,092,982 (98 TLs)
EDS Cots (U/I): 245 (1 TLs)
Hygiene Kits: 0
Infant Kits (ea.): 28
DME Kits (ea.): 2

**FSA - Beaumont, TX**
Water (liters): 719,672 (50 TLs)
Meals (ea.): 745,188 (35 TLs)
Blanket (ea.): 5,875 (1 TLs)

**ISB - Groveland FL**
Water (liters): 382,542 (27 TLs)
Meals: 584,136 (27 TLs)
Generators (ea.): 109

MEXICO

FSA (Federal Staging Area)
PPS (Pre-Positioning Site)
ISB (Incident Support Base)
Distribution Center

CMS - Consumable Medical Supplies
DME - Durable Medical Equipment
EDS - Enhanced Disaster Survivor
PPDS - Pre-Positioned Disaster Supplies

TL = Commodity by 53 ft trailer load

Source: DMD - Supply Chain Integration Branch

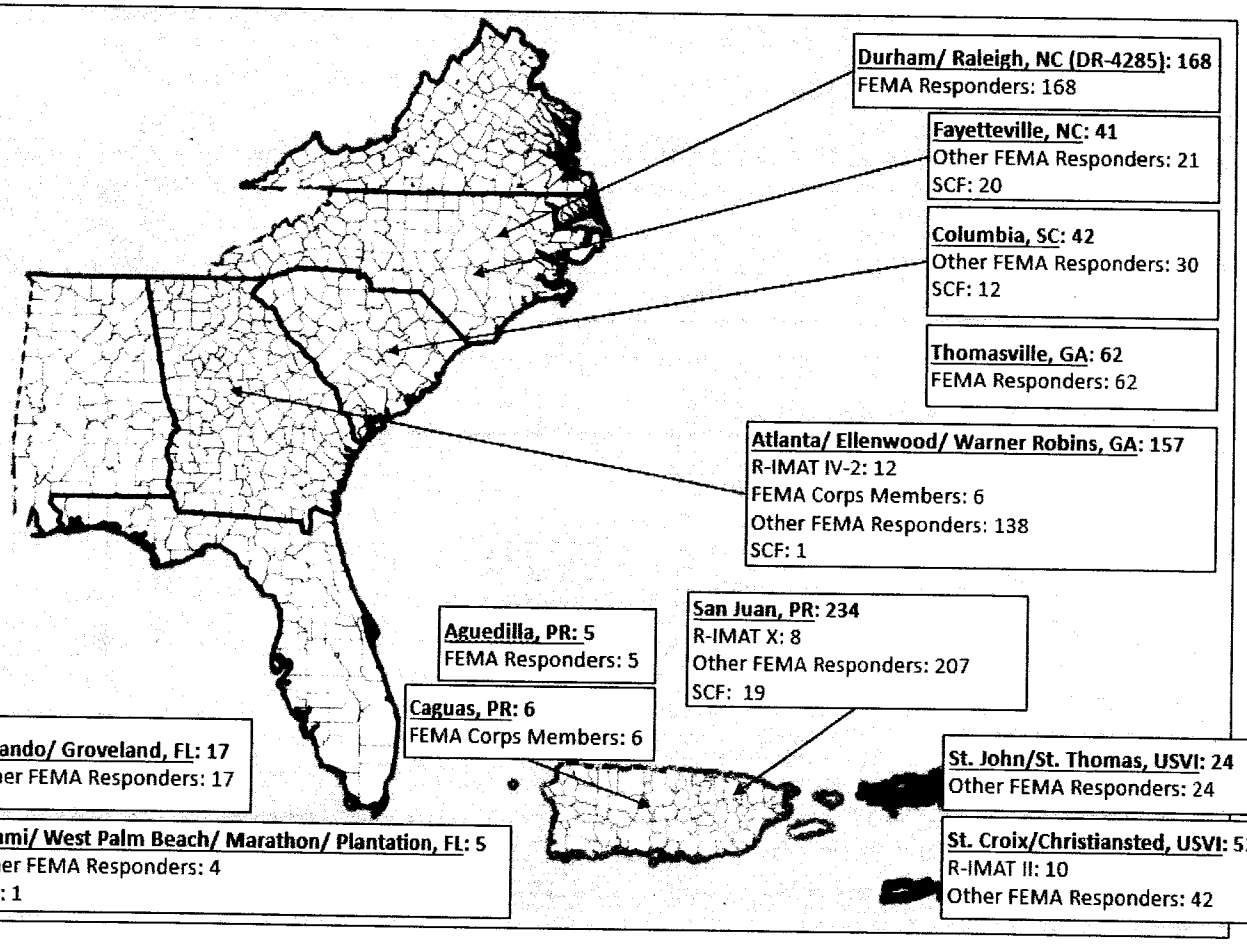
*MSB-OCIO-AEES, Enterprise Geospatial Information Services (EGIS)*

MapID 27e0ae12c860830171649hqprod

# Hurricane Irma – FEMA Responder Laydown (as of Sep 12, 2017 0200)

**Total FEMA Supporting Hurricane Irma Actions**

Responders on the Ground: 2043
FEMA Corps Members available to support: 81
Other FEMA staff supporting: 558
- R1 RRCC: 12
- R2 RRCC: 98
- R4 RRCC: 162
- NRCC: 286



**Anniston, AL: 911**
PMC Staff: 197
Other FEMA Responders: 436
SCF: 278

**Montgomery/ Clanton, AL: 31**
FEMA Corps Members: 6
Other FEMA Responders: 25

**Tallahassee, FL: 276**
N-IMAT E2: 27
N-IMAT E1: 27
R-IMAT I: 12
R-IMAT IV-1: 11
Other FEMA Responders: 117
SCF: 82

**Jacksonville/ St Augustine, FL: 4**
Other FEMA Responders: 4

**Tampa/ Bradenton/ Largo, FL: 4**
Other FEMA Responders: 4

**Naples/ Fort Myers/ LaBelle/ Moore Haven, FL: 4**
Other FEMA Responders: 4

**Orlando/ Groveland, FL: 17**
Other FEMA Responders: 17

**Miami/ West Palm Beach/ Marathon/ Plantation, FL: 5**
Other FEMA Responders: 4
SCF: 1

**Durham/ Raleigh, NC (DR-4285): 168**
FEMA Responders: 168

**Fayetteville, NC: 41**
Other FEMA Responders: 21
SCF: 20

**Columbia, SC: 42**
Other FEMA Responders: 30
SCF: 12

**Thomasville, GA: 62**
FEMA Responders: 62

**Atlanta/ Ellenwood/ Warner Robins, GA: 157**
R-IMAT IV-2: 12
FEMA Corps Members: 6
Other FEMA Responders: 138
SCF: 1

**Aguedilla, PR: 5**
FEMA Responders: 5

**Caguas, PR: 6**
FEMA Corps Members: 6

**San Juan, PR: 234**
R-IMAT X: 8
Other FEMA Responders: 207
SCF: 19

**St. John/St. Thomas, USVI: 24**
Other FEMA Responders: 24

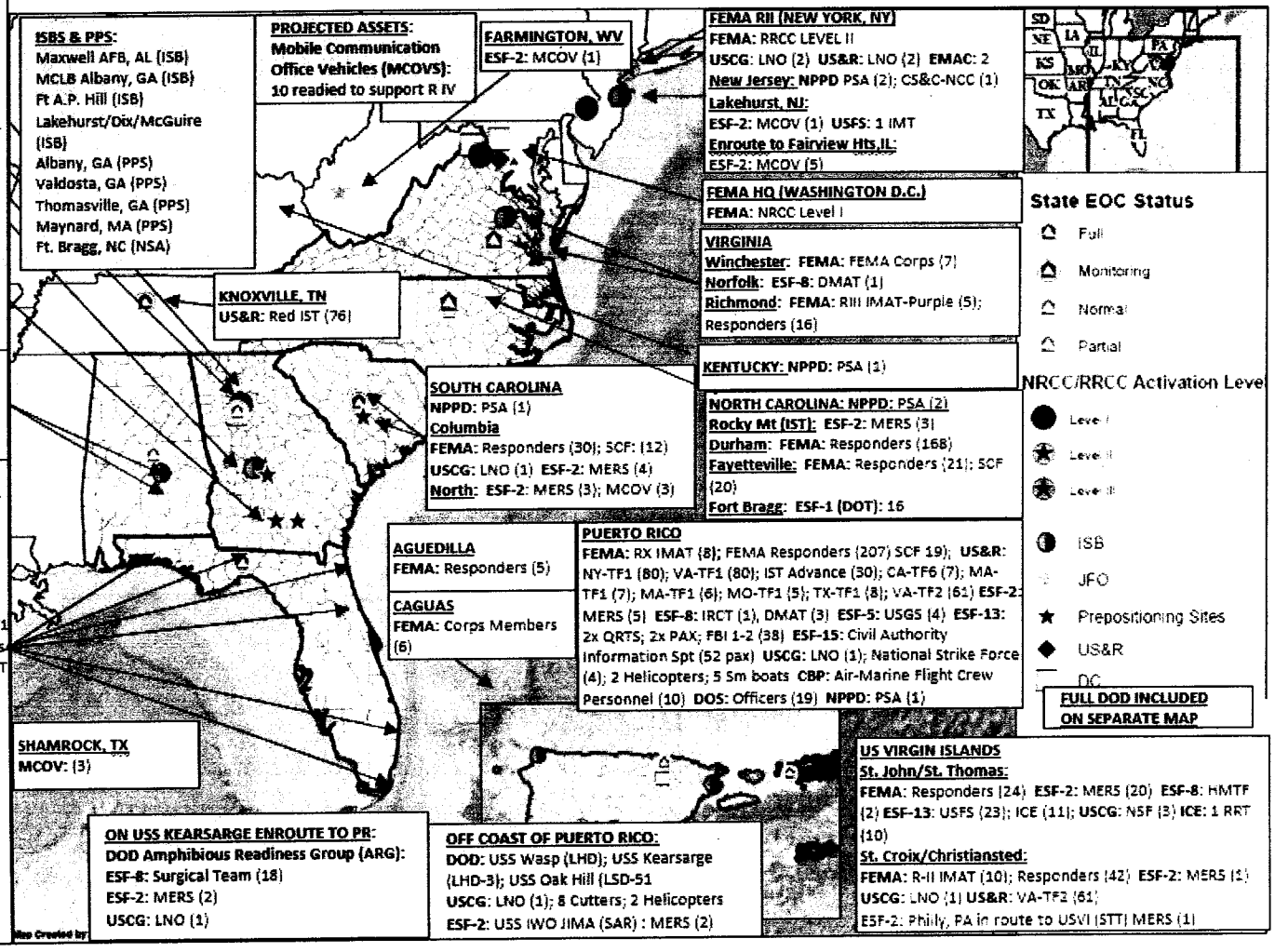
**St. Croix/Christiansted, USVI: 52**
R-IMAT II: 10
Other FEMA Responders: 42

# Hurricane Irma – Federal Force Laydown & Assets (as of Sep 12, 2017 0500)

**GEORGIA** **NPPD:** PSA (9); CS&C-NCC (2)
**FEMA RIV (Atlanta, GA) – RRCC Level I:** **FEMA:** N-IMAT E1 (27); RI-IMAT (12); R-IV IMAT (2) (12 FEMA Corps (6); Responders (138); SCF (1) **ESF-8:** DMAT (3) **ESF-11:** 5 personnel **US&R:** LNO (2) **USCG:** LNO (3 RRCC) **EMAC:** 2 RRCC, 1 EOC **TSA:** VIPR (14)
**Warner Robins:** **US&R:** (Each Team=80) PA-TF1; NV-TF1; WA-TF1; TN-TF1; MD-TF1 (HEPP – 4) **USCG:** 9 WRFP FP
**MCLB Albany:** **US&R:** CO-TF1 (4 - HEPP); CO-TF1 (82); AZ-TF1 (80)
**Moody AFB (Valdosta):** **US&R:** (Each Team=80) CA-TF 1 & 4; IN-TF1 (4 - HEPP) **ESF-8:** IRCT (1) **ESF-13:** ATF 1-3 (95); USMS (25); DOJ-OIG (5); DoED-OIG (10); TIGTA 1 (17); BOP (100); 50 (CBP); FAM 1 (14); DOI 2 (25) **USFS:** 1 IMT; **TSA:** VIPR (14)
**Savannah:** **USCG:** 9 Helicopters
**Thomasville:** **ESF-2:** MCOV (7); MERS (9) **FEMA:** Responders (62)

**ALABAMA**
**TSA: Mobile:** **USCG:** 6 NSF FP; 3 AB-SKF
**Montgomery:** **FEMA:** FEMA Corps (6); Responders (25)
**Anniston:** **FEMA:** PMC Staff (197); Responders (436); SCF (278)

**FLORIDA** **NPPD:** PSA (17); CS&C-NCC (1); **ICE:** 4 RRT (63)
**Tallahassee:** **FEMA:** N-IMAT E1 (27); N-IMAT E2 (27); RI-IMAT (12); RIV-IMAT 1 (11); Responders (117); SCF: (82) **EMAC:** 4 **US&R:** LNO (2) **ESF-2:** MERS (9); MCOV (2) **ESF-11:** 2 personnel **USCG:** 7 State EOC; 13 Shallow water boats
**Jacksonville:** **USCG:** 12 WRFP; 7 Cutters; 18 Sm boats **FEMA:** Responders (4)
**Orlando:** **US&R:** AZ-TF1 (80); CA-TF1 (80); CA-TF4 (80); CO-TF1 (82); CO-TF1 (HEPP – 4); IN-TF1 (HEPP – 4) **FEMA:** Responders (17) **ESF-2:** MERS (9); MCOV (1) **ESF-8:** IRCT (1); SAT (1); DMAT (6); RDF (1); DMORT (1); MOB (1); **ESF-13:** BOP Logs 1 (10)
**Miami/Marathon/Plantation/West Palm Beach:** **FEMA:** Responders (4); SCF (1) **USCG:** IMT; NSF (4); 3 Fixed wing aircraft; 2 Helicopters; 10 Sm boats
**St. Augustine:** **US&R:** Red IST (62); IST Gro Support (7)
**Valparaiso (Eglin AFB):** **US&R:** (Each Team=80) CA-TF 3 & 8; NE-TF1; NJ-TF1 **CBP:** SRT ESF-1 (25)
**Pensacola:** **ESF-2:** MERS (9)
**Tampa/Bradenton/Largo:** **FEMA:** Responders (4)
**Naples/Fort Meyers/LaBelle/Moore Haven:**
**FEMA:** Responders (4)
**Marco Isle:** ESF-2: MERS 7



**Recovery Snapshot**
**Post-Tropical Cyclone Harvey**
**Tuesday, September 12, 2017 (5:00 a.m. EDT)**
**Updates in Blue**

## Housing

- **Individual Assistance**

| Individual Assistance *(as of September 11, 2017, 11:02 p.m. EDT)* | | | | |
|---|---|---|---|---|
| Texas | 707,431 | $313,643,240 | $187,758,591 | $125,884,649 |

- **FEMA Inspections**

| Housing Inspections *(as of September 11, 2017, 11:02 p.m. EDT)* | | | | |
|---|---|---|---|---|
| Texas | 1,892 | 317,241 | 96,018 | 30.3% |

- **Transitional Shelter Assistance (TSA)**

| Transitional Sheltering Assistance *(as of September 11, 2017, 5:24 p.m. EDT)* | | |
|---|---|---|
| Texas | 21,520 | 281,788 |

- **National Flood Insurance Program Claims Estimates**

| NFIP Claims Estimate *(as of September 11, 2017)* | | |
|---|---|---|
| Texas | 83,000 | $156.3M |

- **Housing Programs**

| SBA Home Loans *(as of September 11, 2017)* | | | | | |
|---|---|---|---|---|---|
| State | Applications Received | % Processed | Applications Approved | Loan $ Approved | Average Loan Amount |
| Texas | 14,273 | 65% | 1,046 | $95,326,500 | $91,134 |

- **US Department of Housing and Urban Development (HUD)***

| Hurricane Harvey - Texas | Number of Properties in Impacted Area | Displaced (# of Beds for Healthcare - Hospital) | Displaced (# of Household for Public & Indian Housing - Multifamily Housing) | Returned or Permanently Housed (# of Households/Beds) |
|---|---|---|---|---|
| **Multifamily Housing** | 454 | 0 | 2,146 | 0 |
| **Public and Indian Housing** | 42 | 0 | 812 | 0 |
| **Healthcare and Hospitals** | 40 | 994 | 0 | 492 |
| **Total** | 536 | 994 | 2,958 | 492 |

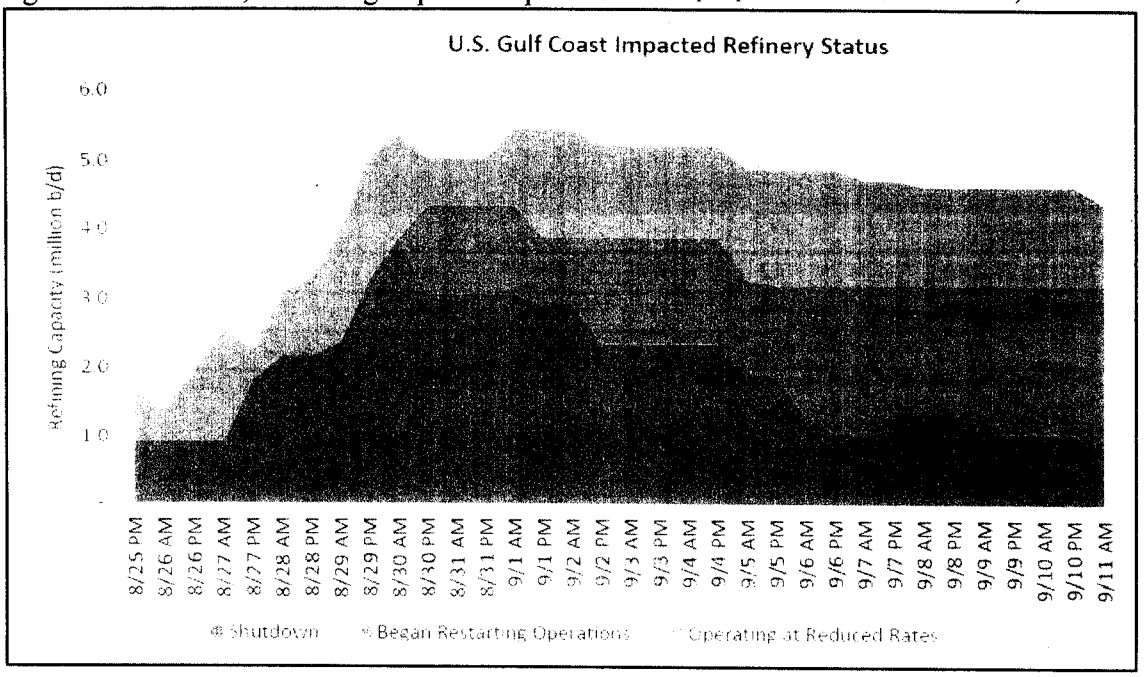
* (No change from 9/8/2017, HUD reports that new data will be presented twice per week, on Tuesdays and Fridays, starting Tuesday, September 12, 2017).

## Infrastructure Systems *(FEMA Recovery Update, September 10, 2017, 3:30 pm EDT)*

- **Water and Wastewater**
  - Texas Commission on Environmental Quality (TCEQ) and EPA have completed surveys of 4,852 drinking water facilities and 2,908 wastewater facilities in the impacted area found 37 Severe Damage, 30 Medium Damage, 248 Minor Damage
- **Aviation**
  - All major airports are at normal operations
  - Texas Gulf Coast Regional Airport (LBX) has reopened with no restrictions

- Sixty-three FAA employees continue to report impacts from the flooding; eleven employees are living in temporary quarters

- **Highway**
  - FHWA-TX Division engineers (9) are going to Houston (5), Yoakum (2) and Corpus Christi (2) the week of September 11, 2017 to begin completing damage assessments jointly with TxDOT staff
- **Maritime**
  - USTS Kennedy is underway from FL to Houston, TX; expected to arrive on September 14, 2017
  - USTS Empire State in Ft. Schuyler, NY; departing on September 11, 2017 for Beaumont, TX; estimated to arrive on September 17, 2017
  - USTS General Rudder at Galveston, TX; FEMA responders on board
  - Beaumont Reserve Fleet (BRF) is conducting recovery operations
- **Pipeline/HAZMAT**
  - US Department of Transportation Pipeline and Hazardous Materials Safety Administration communicating with Shell Pipeline regarding their potential release in the Trinity River due to Hurricane Harvey. Shell conducted pressure testing on their line on September 10, 2017, but the results were inconclusive. Shell is currently evaluating their next steps, but has Oil Spill Removal Organizations on standby to respond if necessary
- **Rail**
  - All southeast Texas industrial leads have returned to service except two on the Union Pacific (UP) Railroad. The two UP bridges sustained significant damages; no return-to-service date has been established
  - Amtrak route between San Antonio and New Orleans expected to resume on September 15
- **Oil and Gas**
  - Four refineries in the Gulf Coast region were shut down, according to public reports. These refineries have a combined refining capacity of 734,300 b/d, equal to 7.6% of total Gulf Coast (PADD 3) refining capacity and 4.0% of total U.S. refining capacity. One refinery began restarting since the last report.
  - Seven refineries are in the process of restarting after being shut down. Production should be assumed to be minimal until restart is completed. These refineries have a combined capacity 2,479,899 b/d, equal to 25.6% of total Gulf Coast (PADD 3) refining capacity and 13.4% of total U.S. refining capacity. One refinery began restarting since the last report. At least four refineries in the Gulf Coast region were operating at reduced rates, according to public reports. *(DoE Sit Rep, September 11, 2017, 8:30 a.m. EDT)*



## Economic Recovery

- **Small Business Administration**

| SBA Business Loans *(as of 09 11 2017)* | | | | |
|---|---|---|---|---|
| | | | | |
| Texas | 1,073 | 87 | $7,644,400 | $87,867 |

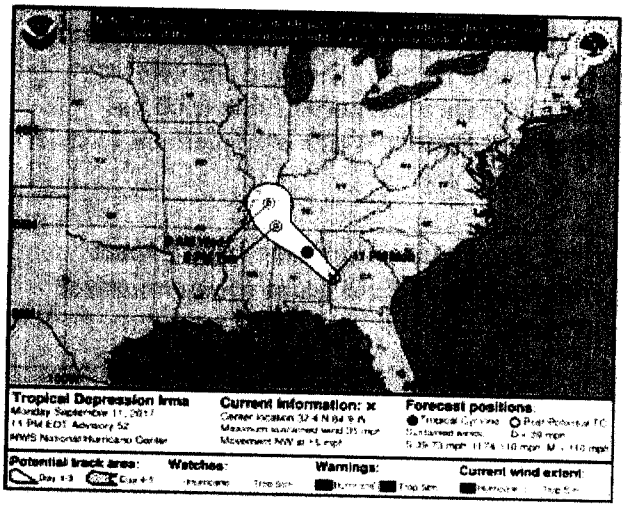
- **USDA Risk Management Agency**
  - Due to the destruction of communication lines and the limited ability to travel in the impacted areas, many USDA RMA policyholders are unable to communicate with their agents to report losses within the Common Crop Insurance Policy, Basic Provisions (17-BR) 72 hour requirement
  - RMA has authorized Approved Insurance Providers to consider individual circumstances in accepting delayed notices of loss; initial reportable numbers may be available on September 12

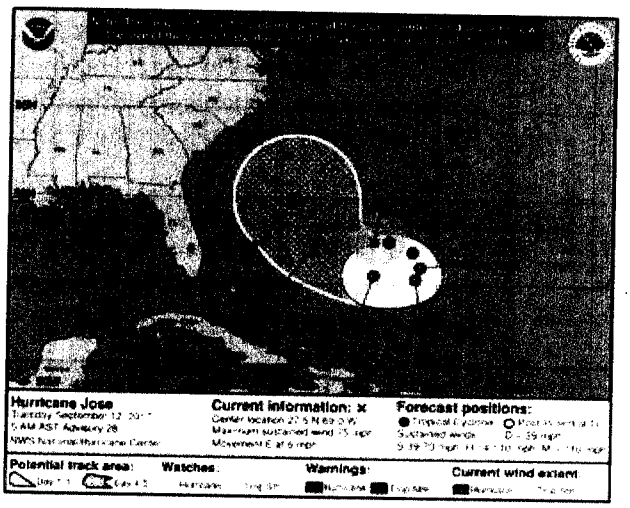
*(Recovery Update, September 10, 2017, 3:30 p.m. EDT)*

## Responder Lodging

- USTS Empire State (650 beds) was delayed due to current weather conditions, and is now anticipated to arrive in Beaumont, TX around September 18; SS Kennedy (600 beds) anticipated to arrive in Houston, TX September 18

# Hurricane Irma Response
# EPA Region 4
## SITUATION REPORT #09
1700 - 0900 EST, September 12, 2017




**SEPTEMBER 12, 0900 UPDATES**

- EPA Preparation and Response Activities
  - The Florida SEOC ESF-10 Desk has identified 185 priority facilities within 23 counties. The list is composed of a combination of facility types (e.g., FRP and RMP).
  - The EPA Region 4, Sam Nunn Atlanta Federal Center (AFC) remains closed; however, the Regional Emergency Operations Center (REOC) remains operational and staffed.
  - Region 4 Field Assessment teams, composed of On-Scene Coordinators (OSC) and START contractors, will mobilize to Florida today. Teams will rally in Orlando, Florida and await assignments from the Operations Section Chief.
  - The Region 4 Superfund Remedial (SFD) program will deploy Rapid Assessment teams, composed of Remedial Project Managers (RPMs) and field staff from the R4 Science and Ecological Support Division (SESD), to Florida to conduct rapid assessments at all National Priority List (NPL) sites within the State. Teams are mobilizing today.
  - The Water Protection Division (WPD) continues to coordinate with the FDEP and the U.S. Army Corps of Engineers (USACE) relative to Water and Drinking Water issues. A Water Team will join USACE at the Florida SEOC in Tallahassee, Florida today to support preliminary water and wastewater system assessments.
  - Initial reports from Georgia water and wastewater systems indicate that six community-water systems are without power or on back-up generators. Three Publically Owned Treatment Works (POTW) are reported as being without power or partially operating on back-up generators. Requests for back-up power generators for water and wastewater treatment facilities are coming to the State of Georgia ESF-3 desk.
  - Figure 1 (provided at the end of this report) depicts current storm surge data and priority facilities located in north Florida, south Georgia, and southern Alabama that may be impacted.

- State and Tribal Updates
  - As of 0800 hours, there are approximately 5,021,465 power outages in Florida and 1,269,080 outages in Georgia.
  - Georgia Emergency Management Agency (GEMA) is reporting 8,871 people in shelters.
  - The Florida State Emergency Response Team (SERT) has not provided an update regarding people in shelters. Yesterday, they reported 203,061 people in shelters.
  - The Tennessee SEOC was activated to State of Emergency on September 11 as Irma approaches Tennessee. The SEOC will remain activated with 24-hour operations.
  - The Seminole Tribe, of Florida, is conducting assessments of critical infrastructure; no issues reported.
  - The Miccosukee, of Florida, continues to remain without power. They are actively conducting assessments of critical infrastructure; no issues are reported. The tribe has received water pumps from the USACE and Southwest Florida Water Management District.

- **NATIONAL RESPONSE CENTER (NRC)**
  - Table 1 below provides a summary of NRC reports received in Hurricane Irma impact areas. Incidents that may require action by the EPA Region 4 field teams are summarized in the Region 4 States section of the Situation Report.

**Table 1**
**NRC Report Tracking**

| Location | Hazardous Materials | | Oil | | Other | |
|---|---|---|---|---|---|---|
| | Open | Closed | Open | Closed | Open | Closed |
| Florida | 0 | 2 | 0 | 14 | 0 | 2 |
| Georgia | - | - | 0 | 1 | - | - |
| Alabama | - | - | - | - | - | - |

Open means response status unknown or currently responding
Closed means response addressed by owner-operator or Federal, State, or local agency; no EPA assistance requested.

  - **Significant NRC Reports**
    **Mosaic Fertilizer Phosphoric Acid Spill in Bartow, Polk County, Florida** – The facility report that heavy rains caused a release of process water containing 2% phosphoric acid from a lined impoundment. The release did not impact water and did not leave the facility. Facility personnel are pumping the release material back into the lined impoundment. Facility personnel advised that they are working with FDEP's Phosphate Group and providing regular updates.

- **CURRENT HURRICANE IRMA STATUS**
  - Hurricane Irma has been downgraded to a Tropical Depression. The storm center is approximately 40 miles northeast of Auburn, Alabama with sustained winds near 35 miles per hour (mph). The storm is moving northwest at 15 mph.
  - The storm is anticipated to continue on its current track over through central and northwest Alabama as a tropical depression.

- **CURRENT HURRICANE JOSE STATUS**
  - Hurricane Jose is located about 435 miles north-northeast of Grand Turk Island, the capital island of the Turks and Caicos. The storm has sustained winds of 75 mph and is moving to the east at 6 miles per hour (mph).
  - Current National Hurricane Center (NHC) models indicate the storm will complete a slow anticyclonic loop over the next 72 hours.

## REOC STATUS AND ACTIVATIES

### PLANNING AND PREPARATIONS

The EPA Region 4 REOC maintains a Level 3 activation. The following positions have been activated in the REOC and a table is provided below:

- REOC Manager
- Public Information Officer (PIO)
- Logistics Section Chief
- Planning Section Chief
- Situation Unit Leader with START support
- Resource Unit Leader
- Documentation Unit Leader
- Environmental Unit Leader
- Safety Officer
- Finance Section Chief
- GIS Support (START)

**Table 2**
**Current Region 4 Staffing**

| Personnel | EPA R4 Atlanta | FEMA Atlanta | Florida SEOC | Broward County | Palm Beach County |
|---|---|---|---|---|---|
| **EPA Region 4** | 50 | 1 | 2 | 1 | 1 |
| **START** | 2 | 0 | 0 | 0 | 0 |

Staffing provided in this Table represents all EPA and contractor staff associated with the Hurricane Irma response.

### FEMA RRCC

- The EPA Region 4 is currently operating under a Federal Operations Support (FOS) MA for $35,000 to support staffing the ESF-10 desk at the RRCC and the Florida State Emergency Operation Center (SEOC).
- ESF-10 MAs have been issued to provide Hazard Assessment Response teams. Targeted facilities will be identified by, and assessments directed through, the ESF-10 desk at the Florida SEOC.
    - The request is being divided between EPA and the U.S. Coast Guard (USCG) with EPA receiving $525,000 and USCG receiving $150,000. The period of performance is from September 10 to 25, 2017.

### HEALTH & SAFETY

- The Regional and Superfund Division Officers made contingency arrangements to assist with vaccinations and medical monitoring in the event the storm impacts the Atlanta area and the REOC gets shut down.
- Safety Officers drafted and distributed Safety Message #1 to the EPA personnel currently deployed in Florida. The Safety Message is cross posted on the Irma SharePoint and the response.epa.gov websites.
- The Superfund Division Safety Officer developed and provided safety objectives to REOC Planning Support Section to be included in the Incident Action Plan.

- The Safety Officer prepared and uploaded safety briefings covering fatigued and drowsy driving prevention, drum sampling and hazardous categorization (HAZCAT) safety, heat stress prevention, HHW and collection site safety and field work computer ergonomics to the Irma SharePoint and response.epa.gov websites.
- The overall Health and Safety Plan was reviewed and approved today. It will be posted on the Irma SharePoint and the response.epa.gov sites.

**NATIONAL PRIORITY SITES**

- NPL Rapid Assessment Teams will deploy to five geographic regions in Florida today, as identified by the REOC.

**FINANCE**

- The EPA Region 4 received a Direct Federal Assistance MA for $525,000 to perform facility assessment in Florida after the storm makes landfall. This MA after the indirect adjustment totals $458,587.
- The USCG received a $150,000 MA to support the EPA Region 4 ESF-10 activities.
- The REOC Finance Section is in the process of uploading appropriate account codes to the PeoplePlus System.
- All previous MAs are being switched to the disaster (DR) account; therefore, the emergency (EM) or surge account will no longer be valid. FEMA directed the EPA not to bill to those original funding accounts.

**Table 3**
**FEMA Mission Assignment Status**

| Mission Assignment Number | Type of Mission Assignment | Period of Performance | Cost Share | Funding | Cost to Date |
|---|---|---|---|---|---|
| FL-17083101-EPA-01 | Federal Operations Support | September 4 to 14, 2017 | 0% | $35,000 | $8,580 |
| 3385EM-FL-EPA-01 | Direct Federal Assistance | September 10 to 25, 2017 | 25% | $525,000 | NA |
| 3385EM-FL-COE-SAD-10 | Federal Operations Support | September 8 to 29, 2017 | 0% | $150,000 | NA |

**REGION 4 PREPARDNESS**

- The EPA Region 4 Mobile Command Post (MCP) will deploy to Tallahassee to support Florida SEOC operations and field operations, as needed, on Wednesday, September 13, 2017.
- The EPA Assessment Team personnel will mobilize to Florida today.
- The Region 4 SFD group will deploy teams to Florida to conduct rapid assessment at all National Priority List (NPL) sites within the State. Teams are mobilizing today.
- The WPD will deploy teams to Tallahassee, Florida today, to support the USACE water sector mission. WPD continues to coordinate with USACE.
- The WPD continues to coordinate with Georgia, Alabama, and Tennessee regarding data sharing.

**REGION 4 STATES**

**FLORIDA**

- Florida is currently operating at their highest level of activation - Level 1, with the State Emergency Operations Center (SEOC) staffed by Division of Emergency Management personnel and all Emergency Support Functions.
- The Federal Emergency Management Agency (FEMA) announced on September 10, 2017, that federal disaster assistance has been made available to the state of Florida to supplement recovery efforts retroactive to September 4, 2017.
    - The declaration includes assistance for public emergency protective measures, including debris missions, at 100% of the total eligible costs for all 67 counties.
    - Individual assistance is available to residents of Charlotte, Collier, Hillsborough, Lee, Manatee, Miami-Dade, Monroe, Pinellas, and Sarasota counties.
- Florida ESF-12 personnel plan to assess Facility Response Plan (FRP) regulated power generating facilities.
- Florida ESF-10 personnel continue to assist State, Tribal, and Federal partners in preparing for post landfall response and mitigation actions. Primary focus has been in three areas:
    - Ensuring that impacted drinking water and wastewater facilities are returned to service as quickly as possible. The EPA is supporting this activity with Florida Department of Environmental Protection (FDEP) and the USACE.
    - Developing and implementing debris management strategies and operations. EPA is working with FDEP, Florida Department of Transportation (FDOT), and the USACE to support their needs.
    - The EPA coordinated with the FDEP, Florida Department of Transportation (DOT), FEMA, and the USACE concerning the development and implementation of a Debris Management Plan. Key issues discussed relative to EPA were the management of Hazardous Wastes, Household Hazardous Wastes (HHW), Asbestos, Air Curtain Incinerators, Tribal Concerns, and Environmental Justice areas.
- The EPA continued to coordinate with the FDEP and the USACE relative to Water and Drinking Water issues. Additionally, the USACE has indicated they may request Region 4 assistance with sampling activities associated with bringing the Water/Drinking Water facilities back on line.
- The table below provides a summary of priority facilities in Florida:

**Table 4**
**Priority Facility Sites in Florida**

| Drinking Water | WWTP | NPL | RMP | FRP |
|---|---|---|---|---|
| 1,642 | 387 | 92 | 263 | 121 |

Notes:
WWTP – Wastewater Treatment Plant
NPL – National Priority List sites
FRP – Facility Response Plan facilities
RMP – Risk Management Plan facilities

## GEORGIA

- The Georgia SEOC is currently operating at a Level 1 (full activation and fully staffed) activation. No request for EPA representatives have been made at this time.
- On September 10, 2017, the Governor extended a State of Emergency for the remaining 65 counties and now the State of Emergency covers all 159 counties.
- There are significant fuel outages in Georgia. Though fuel continues to come into the state via pipeline and the Colonial Oil terminal in Savannah has enough fuel, delivery logistics will remain a challenge.
- The ports in Savannah, Georgia, remain closed.

## SOUTH CAROLINA

- On September 7, 2017, an emergency declaration issued by FEMA authorized emergency protective measures (Category B), including direct federal assistance, under the Public Assistance program at 75 percent federal funding. This includes all 46 South Carolina counties and the Catawba Indian Nation.

## NORTH CAROLINA

- The North Carolina SEOC is currently operating at Level 4 activation. They are monitoring tropical weather forecasts.

## ALABAMA

- The Alabama Emergency Management Agency (EMA) is currently operating the SEOC at Level 1 (full operation) activation.
- Four Operations Centers have also been activated along the State's eastern border. Five EMA Divisions along the eastern and southeastern borders of the State are on stand-by to begin operations, as needed.
- The Alabama Department of Environmental Management (ADEM) reported to the Alabama SEOC. ADEM is anticipated to staff their SEOC throughout the duration of Level 1 activation.

## MISSISSIPPI

- The Mississippi SEOC is currently operating at Level 3 (modified) activation. They are monitoring Irma's path and EPA is maintaining communication with the State to determine if EPA assistance is needed.

## TENNESSEE

- The Tennessee SEOC is currently operating at an elevated activation and is staffed with partners from State of Tennessee departments. SEOC staff are monitoring Irma's movement and standing ready to assist local jurisdictions with any life-saving measures or need requests.
- Tennessee has not declared a state of emergency at this time.

## REGION 4 FEDERALLY RECOGNIZED TRIBES IN POTENTIAL STORM PATH

Region 4 continues to coordinate with the Bureau of Indian Affairs.

### Seminole Tribe of Florida

- Tribal leaders have requested an Emergency Declaration from the President of the United States. The request includes enforcement assistance, emergency telecommunications capabilities, and assistance with acquisition of emergency commodities. The request is currently being evaluated by FEMA.
- The Seminole Tribe in Florida has lost power at Immokalee, Big Cypress, Brighton, and Hollywood Reservations. A water main break occurred at Hollywood; a boil notice is in effect and water being distributed.
- The Seminole Tribe reports that 77 Tribal members are in shelters. Their EOCs are at level 1 activation. FEMA has authorized funding for debris removal and emergency protective measures, including direct federal assistance at 25% Tribal cost-share.

### Miccosukee Tribe of Indians of Florida

- The Miccosukee Tribe is without power and cell service. They are currently utilizing generators and have two satellite phones. Communications are disrupted on the Reservation and AT&T is working with the Tribe to restore service.
- Reports indicate that diesel supplies in the Reservation are being exhausted.

**Catawba Indian Nation (South Carolina)**

- No report on afternoon call.

**Eastern Band of Cherokee Indians (North Carolina)**

- No report on afternoon call.

**Poarch band of Creek Indians (Alabama)**

- No report on afternoon call.

## AIR, PESTICIDE & TOXICS MANAGEMENT DIVISION

- Florida continues their shut down of ambient air monitoring sites located near the path of Hurricane Irma.

## SCIENCE AND ECOSYSTEM SUPPORT DIVISION

- The EPA Region 4 SESD Mobile Laboratory remains prepared to conduct the following analyses for Drinking Water: total coliform, E. coli, fecal coliform, and enterococcus.
- The EPA Region 4 Science and Ecosystem Support Division continues make preparations to support response efforts.
    - A backup laboratory is ready to accept 10-15 samples per week for pesticide analysis.
    - Up to 14 personnel are immediately available to deploy to Florida to assist, as needed.
    - Mobile Lab for micro analysis (bacteria) is immediately available

## WATER PROTECTION DIVISION

- The EPA Region 4 WPD received funding totaling $75,000 under an ESF-3 Mission Assignment (MA) sub-task to support the USACE drinking water and wastewater facility assessments.
    - Three technical experts have been identified to support USACE ESF-3 desk and teams will mobilize to Tallahassee, Florida today.
- The WPD compiled an inventory of community drinking water systems (CWS) and publicly owned wastewater treatment plants (POTW) that may be used during post storm damage assessment (Tables 5 and 6).

| Table 5<br>Total Number of Community Drinking Water Systems (CWS) and Total Population Served within Region 4 States and Tribal Lands | | |
|---|---|---|
| **State or Tribe** | **Number of CWS** | **Population Served** |
| Alabama | 514 | 5,607,481 |
| Florida | 1631 | 19,917,363 |
| Georgia | 1749 | 8,917820 |
| South Carolina | 583 | 3,795,571 |
| North Carolina | 1999 | 8,250,007 |
| Tennessee | 472 | 6,921,665 |
| Catawba (SC) | 2 | 715 |
| Cherokee (NC) | 4 | 10,099 |
| Miccosukee (FL) | 1 | 500 |
| Poarch (AL) | 1 | 750 |
| Seminole (FL) | 4 | 7,610 |

| Table 6<br>Total Number of Publically Owned Wastewater Treatment Plants (POTWs) | | |
|---|---|---|
| **State or Tribe** | **POTW** | **Other WWTP of Concern** |
| Alabama | 374 | To be determined. |
| Florida | 2,410* | To be determined. |
| Georgia | 572 | To be determined. |
| South Carolina | 172 | To be determined. |
| North Carolina | 396 | To be determined. |
| Tennessee | 372 | To be determined. |
| Catawba (SC) | 0 | |
| Cherokee (NC) | 1 | |
| Miccosukee (FL) | 0 | |
| Poarch** (AL) | 1 | |
| Seminole (FL) | 4 | |

* Total number of facilities in Florida's StormTracker application, which includes POTWs, non-permitted WWTPs, and industrial facilities of concern. The number will be refined as information becomes available.
** Lagoon system is on tribal lands. Discharge is to State waters (State issued permit)

- WPD continues building the necessary GIS data layers for use in mapping and communicating the status of drinking water wastewater systems in FL, GA, AL, SC, NC, and TN.
- WPD communicated with ADEM drinking water program to verify that ADEM has a system established to do initial assessments of drinking water systems. Arrangements have been made for ADEM to send their drinking water assessment/status tracking spreadsheet to the EPA Region 4. A follow-up call was scheduled for Monday, September 11, 2017, with ADEM. The findings of this call have not been reported at this time.

## REGION 4 OFFICE OF REGIONAL COUNSEL (ORC)

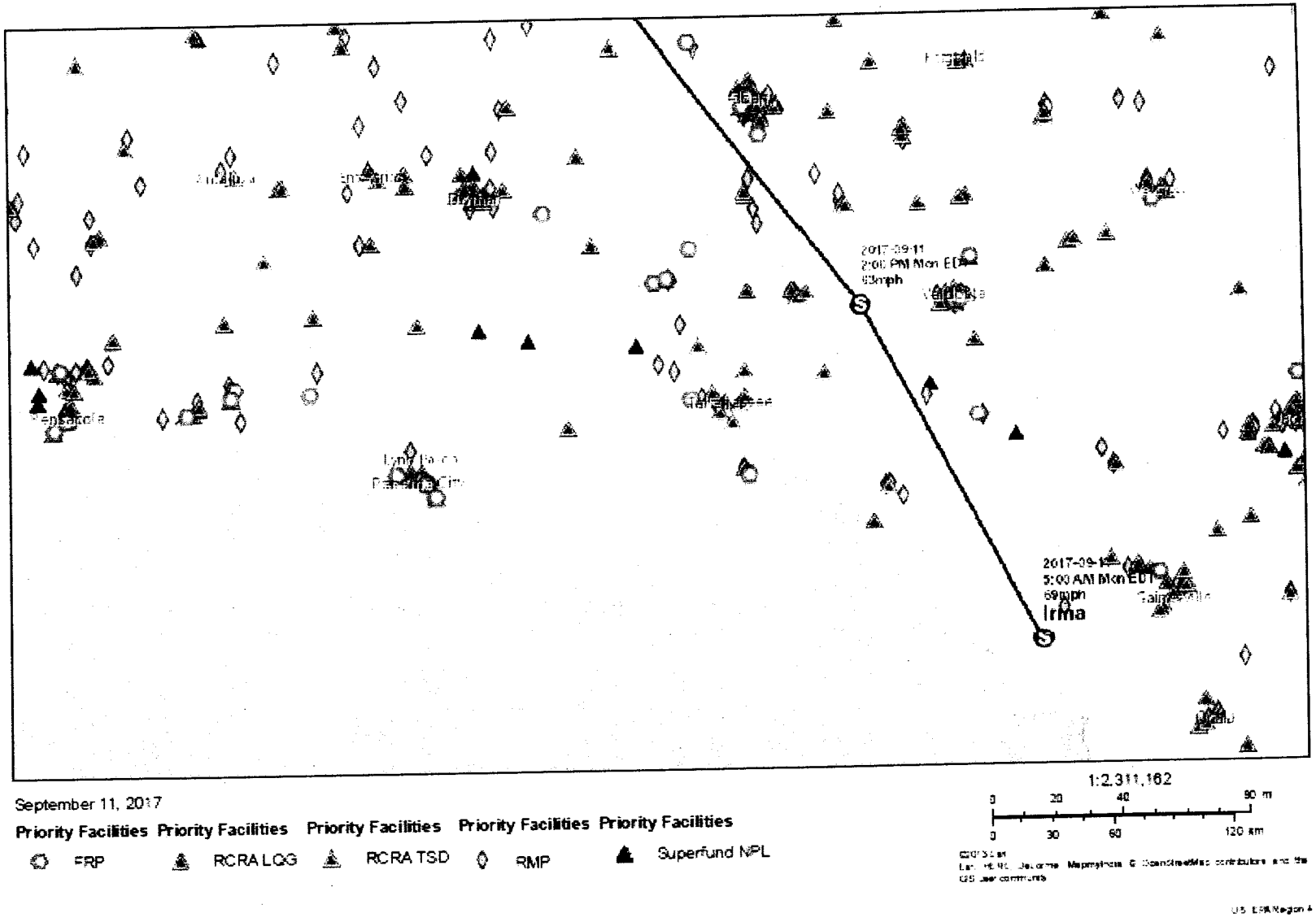
- The ORC provided generic property access agreement language specifically for response activities under the Stafford Act.
- ORC continues to research existing legal opinions relative to private property access during a Stafford Act response.

## OFFICE OF EXTERNAL AFFAIRS (OPA)

- Coordinated with the EPA Region 4 REOC to provide a regional update for inclusion into OPA daily press release.

## Figure 1

## Priority Facilities in South Florida



# Hurricane Irma 2017
# 9/12/2017 – 1030 EDT Update

## EXECUTIVE SUMMARY

- In PR EPA continues to assist the local water and health departments in prioritizing drinking water facilities needs for Federal assistance. Currently, two communities have been identified in need of generators.

- Major declaration FEMA-4335-DR for all three (3) USVI Islands) 09/07/17. FEMA amended the major disaster declaration to authorize a 90% Federal cost share for debris removal, including DFA (direct federal assistance); and a 100% Federal cost share for emergency protective measures, including DFA, for 30 days from the start of the incident period, and then a 90% Federal cost share thereafter

- In Puerto Rico and the U.S. Virgin Islands four OSC's conducting environmental assessments. Two assessment teams will focus on assessing potentially contaminated debris in conjunction with USACE. Two assessment teams assessing oil and chemical fixed facilities.

- Twelve CID/NCERT agents deploying 9/13 to St, Croix, USVI to coordinate with FEMA ESF #13 and support the security needs of EPA personnel.

- On 9/9 PR Solid Waste Management Authority (SWMA) submitted two requests before the Puerto Rico Agency for the Management of Emergencies and the Administration of Disasters (AEMEAD):

    - for PR SWMA's costs for supporting recovery response related to the management of vegetative wastes, scrap and construction debris, and others managed by municipalities, the PR Department of Transportation and Public Works, PREPA, and other local agencies; and

    - requesting assistance from federal agencies (such as EPA) in the management of household hazardous waste.

- AEMEAD has to approve and submit these requests to FEMA, on behalf of the entire Government of Puerto Rico.

- Through their request, PR SWMA will enter into contracts with composting companies in Puerto Rico that will chip the vegetative materials at regional staging areas in Caguas, Arecibo, Toa Baja, Mayaguez, and Humacao. New regional staging areas will be created upon demand.

- There are concerns with the landfills of Culebra and Vieques, which have limited capacity. PR will need assistance to manage the vegetative materials in Culebra and Vieques, and this could be a request of support to the USACE's Debris Team.

- PR SWMA is concerned with gasoline or oil tanks that could be discarded by municipalities in the staging areas and how EPA could provide support and input on their management.

## PUERTO RICO / U.S. VIRGIN ISLANDS CONDITIONS

**US Virgin Islands** (USVI):

- VITEMA remains activated. State of Emergency declared; National Guard activated.

- USVI public schools remain closed.

- Juan Luis Hospital in St. Croix, USVI is operational. Schneider Medical Center St. Thomas has catastrophic roof damage.

- All of St. Thomas (19,581 customers) and St. John (2,893 customers) are without power. St. Thomas energized facilities: Airport, Hospital, Charlotte Amalie High School (CAHS), Lockhart Elementary School, Pump Station, and Yacht Haven Grande. Four retail gas stations on STT with generator power are dispensing gas. St. Croix: 25% of customers have no power.

- St. Croix: Henry E. Rohlsen Airport and runway open and operational. St. Thomas: Cyril E King Airport accepting Military aircrafts only, expected online 9/12 for commercial use.

- Status of Major/Primary Roads: St. John - Major damage on coastal roads, Coral Bay Road Route 107 severe, further assessments ongoing. St. Thomas – downed power lines and debris making it difficult to fully assess. St. Croix - damage minimal

- St. Thomas, St. Thomas & St. John 911 systems operational for cell and landline

**Puerto Rico** (PR):

- Puerto Rico Emergency Management Agency (PREMA) remains activated. State of Emergency remains in effect; National Guard activated.

- Schools and government offices are closed.

- DHS waived the Merchant Marine Act of 1920 ("Jones Act") allowing international vessels to dock at American seaports. Acting DHS Secretary approved the request effective September 8.

- All hospitals are operational.
- 374,044 customers without electrical service (25.45% of population).
- All airports are open.
- 911 service restored for cell phone & landline.

**PUBLIC AFFAIRS**

The PIO is Elias Rodriguez, who can be reached at 212-637-3664. All press inquiries are directed to him, and coordinated through OPA.

PAD continues to maintain a public facing EPA Response web site at: www.epa.gov/hurricane-irma.

PAD will continue to update the existing webpage. It is possible that we may migrate the information from this web site to a main EPA (Drupal) site, but we are awaiting further discussions with HQ OPA. In the meantime, we will do what we can to post for and support Region 4 content along with our own content. This will get complicated once we start producing data, so we are working on a longer-term plan.

Community Involvement: Two CICs are deployed – one on Monday to Puerto Rico and one leaving todayfor the USVI. In addition, two people from the response corps are being deployed today and will be joining out CICs to help do CIC work.
Public Inquiries:

CEPD assisted PAD get the proper numbers for general public inquiries.

Non-emergency (non 9-1-1) calls from the general public will be directed to two numbers in PR and USVI. This information will be posted to our website.

For complaints, tips, or information requests, please contact:

- Puerto Rico Emergency Management and Disaster Administration Agency (AEMEAD): 787-724-0124
- Virgin Islands Territorial Emergency Management Agency (VITEMA): 340-774-2244

We will track calls coming in to the EPA either through our 800 number (answered in Edison) or through CEPD, PAD or ORA. We have a tracking sheet, which will be distributed today.

Media Inquiries: A news release was issued on 9/10/17. We expect to issue at least one news release a day as we move into the future. PAD will be speaking to OPA about a long term strategy, including discussing whether we continue to issue one release for the entire

hurricane response or we divide the Irma response releases into Caribbean and Southeast US releases. Reporters are directed to email their inquiries to press@epa.gov.

**Region 2 – Hurricane Irma Management Objectives**

- Protect the health and safety of EPA employees pre-deploying and/or responding to the storm aftermath.
- Integrate EPA response assets with federal, state and local response structures
- Minimize social, political, and economic adverse impacts
- Keep the public, stakeholders and the media informed of response activities
- Protect communities from incident hazards.
- Keep communities informed of incident hazards and clean up progress
- Establish communication and briefing schedule with R2 senior executives and EPA Headquarters. Support a consistent communications approach agency-wide, enabling EPA to act and speak in unison during these incidents
- Provide situation reports and other information on schedule provided by RIC
- Secure all NPL and removal sites. Regulated facilities and Superfund and oil sites will be surveyed prior to storm fall if a land impact is expected
- Identify vulnerabilities at regulated facilities
- Address any immediate hazardous substance releases or oil spills resulting from the storm's impact
- Assist state and local agencies in ensuring safety of drinking water systems.
- Monitor air quality when/if necessary in response to conditions on the ground.
- Provide guidance for length of work day and deployments as it pertains to this specific event
- Coordinate logistics with deployed personnel to provide transportation options, lodging, security, ground transportation on site;
- Coordinate national resources to assist the Region;
- Identify clearly defined roles for both Regions and Headquarters;
- The response will use the Region's incident specific Data Management Plan (DMP);
- In collecting, sharing, and analyzing environmental data, EPA will give primacy to data with potential human health consequences;
- EPA will work to ensure that its decision-makers have access to the data and expertise they need to make decisions based on sound science;
- Identify early in the response the long term recovery issues the Agency may be requested to support and determine the resource needs to support and sustain those requests to completion.

**DEBRIS RECOVERY**

U.S. Army Corps of Engineers and EPA debris team deployed in the USVI. EPA conducted debris assessments 9/11.

EPA coordinating with ACOE, FEMA, and the USCG to develop debris plans with Puerto Rico and USVI. Debris Assessment Teams are deployed in both Puerto Rico and the USVI.

**AIR MONITORING**

No air monitoring activities.

## EMERGENCY RESPONSE

| Daily/Cumulative Summary of Hazard Evaluations/Recovery | | | | |
|---|---|---|---|---|
| **Status** | **Opened** | | **Closed** | |
| | **9/10/2017** | **Cumulative** | **9/10/2017** | **Cumulative** |
| Puerto Rico | 5 | 7 | 5 | 7 |
| U.S. Virgin Islands | 0 | 0 | 0 | 0 |
| Note: Open means that 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 | | | | |
|---|---|---|---|---|
| **Status** | **Opened** | | **Closed** | |
| | **9/10/2017** | **Cumulative** | **9/10/2017** | **Cumulative** |
| Puerto Rico | 0 | 0 | 0 | 0 |
| U.S. Virgin Islands | 0 | 0 | 0 | 0 |

## SUPERFUND NPL, SUPERFUND REMOVAL, AND OIL REMOVAL SITES

EPA assessment teams will continue to assess Superfund and oil sites in Puerto Rico and will begin assessment work today in the U.S Virgin Islands. The Region continues to reach out to all the responsible entities, whether they be our contractors for fund-lead projects or PRPs, for NPL sites, active removal actions and oil response actions, with regard to assessing impacts to the site. Assessment teams will verify site status.

| SUPERFUND SITES (NPL, Removal and Oil) | | | | | | |
|---|---|---|---|---|---|---|
| Puerto Rico | | | | | | |
| Site | Type | Phase 1 | Phase 2 | | Phase 3 | All Phases Completed |
| | | Post-Storm Assessment | Site Inspection Needed | Inspe cted | Additional Response Action | |
| Atlantic Fleet Weapons | NPL | 09/08/17 | No | N/A | No | 09/08/17 |
| Juncos Landfill | NPL | 09/07/17 | No | N/A | No | 09/07/17 |
| Upjohn Facility | NPL | 09/07/17 | No | N/A | No | 09/07/17 |
| Arecibo Battery Recycling Corp. | Removal & NPL* | 09/05/17 | No | N/A | No | 09/05/17 |
| Corozal Battery | Removal & NPL* | 09/05/17 | No | N/A | No | 09/05/17 |
| Cabo Rojo Groundwater | NPL | 09/11/17 | No | N/A | No | 09/11/17 |
| Cidra Groundwater | NPL | 09/11/17 | No | N/A | No | 09/11/17 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Dorado Groundwater | NPL | 09/11/17 | No | N/A | No | 09/11/17 |
| Fibers Public Supply Wells | NPL | 09/11/17 | No | N/A | No | 09/11/17 |
| Hormigas Groundwater | NPL | 09/11/17 | No | N/A | No | 09/11/17 |
| Maunabo Urbano Public Wells | NPL | 09/11/17 | No | N/A | No | 09/11/17 |
| Papelera Puertoriquena, Inc. | NPL | 09/11/17 | No | N/A | No | 09/11/17 |
| Pesticide Warehouse 1 | NPL | 09/11/17 | No | N/A | No | 09/11/17 |
| Pesticide Warehouse III | NPL | 09/11/17 | No | N/A | No | 09/11/17 |
| San German Groundwater | NPL | 09/11/17 | No | N/A | No | 09/11/17 |
| Scorpio Recycling | NPL | 09/11/17 | No | N/A | No | 09/11/17 |
| Vega Alta Public Supply Wells | NPL | 09/11/17 | No | N/A | No | 09/11/17 |
| Vega Baja Solid Waste Disposal | NPL | 09/11/17 | No | N/A | No | 09/11/17 |
| Guayanilla Bay Oil Spill | Oil Response | Not assessed | | | | |
| Puma Caribe (CAPECO) | Oil Response | 09/11/17 | No | N/A | No | 09/11/17 |
| **U.S. VIRGIN ISLANDS** | | | | | | |
| TUTU Well Field | NPL | 09/08/17 | No | N/A | No | 09/08/17 |
| Crum Bay Oil Spill at WAPA Facility | Oil Response | 09/08/17 | No | N/A | No | 09/08/17 |
| Cruz Bay Oil Tank | Oil Response | 09/11/17 | Yes | | | |

* These are Sites that have both, a Removal and Remedial program action. Only one assessment will be conducted per Site.

## FIELD RESPONSE ACTIVITIES

No major oil spills or threats of releases of hazardous substances have been reported to date. There is widespread damage to boats in marinas and likely widespread smaller oil spills. We are coordinating with Coast Guard to identify any needs for assistance

## PUERTO RICO

- In Puerto Rico post-storm assessments continue. Assessment Teams conducting field assessments in Puerto Rico supported by EPA START/RST contractors. Teams are focusing on hazardous substance and oil releases and spills, fixed chemical and oil facilities and drinking water and wastewater facilities.

- On 9/11, Preliminary Damage Assessment Teams assessed two (2) FRP/SPCC facilities and one (1) RMP facility.

- No significant impact from Hurricane Irma was reported by facility contacts or observed by the teams. Some facilities have compromised security mostly due to downed fencing.

- Safety Officer and Community Involvement Coordinator landed safely and have joined the teams.

## U.S. VIRGIN ISLANDS

- EPA went to VITEMA EOC on STX. Met with USCG, VITEMA, DPNR and VIWMA personnel.

- VIWMA has not yet identified any debris staging areas on STT/STJ as of 9/11. Cleared debris just pushed off the road at this point. Assessed STX debris collection at Estate Body Slob. Trucks of vegetative debris are rolling in. Platform in place to view truck contents prior to dumping.

- DPNR is staffing EOC on STT and STX. No known issues yet. DPNR trying to get a DPNR vehicle and driver available to transport EPA around STT on a day trip for assessment activities.

- EPA toured Frederiksted and the west end road. Vegetative debris piles are present awaiting pickup.

- Rolloff containers were seen throughout the island staged for residential waste.

- Military flights available from UPS terminal on east end of STX airport. Fixed wing and rotary wing airframes available. Responders sign in, and catch the next available seat.

- STT/STJ curfew from 1800 hrs to 0600 hrs.

- Facility Assessments performed at VI Asphalt and Limetree Terminal. No immediate threats observed at either facility. No spills or issues of concern observed or identified.

The table below displays the teams that have been deployed based on the assessment results in Puerto Rico or the USVI.

| **Quantity and Types of Teams Deployed 9/10/2017** | | |
|---|---|---|
| **Team Type** | **Puerto Rico** | **U.S. Virgin Islands** |
| Assessment Team – All Missions | 2 | 4 |
| Water Assessment | 0 | 0 |
| Hazard Evaluation | 2 | 0 |
| Oil Discharge Assessment | 0 | 0 |
| Container Recovery | 0 | 0 |
| Oil Recovery | 0 | 0 |
| ER/Recovery | 0 | 0 |
| Air Operations | 0 | 0 |

| | | |
|---|---|---|
| Contaminated Debris | 0 | 1 |
| Operation Centers (REOC), PREOC, VITEMA, PR IOF, VI IOF | 3 | 2 |

**PUERTO RICO**

| | CONTAINERS | | | TOTAL |
|---|---|---|---|---|
| | **Drums (55 Gals)** | **Large Containers (<55 gals)** | **Large Containers (>55 gals)** | |
| **9/10/2017** | 0 | 0 | 0 | 0 |
| **Total to Date** | 0 | 0 | 0 | 0 |

**U.S. VIRGIN ISLANDS**

| | CONTAINERS | | | TOTAL |
|---|---|---|---|---|
| | **Drums (55 Gals)** | **Large Containers (<55 gals)** | **Large Containers (>55 gals)** | |
| **9/10/2017** | 0 | 0 | 0 | 0 |
| **Total to Date** | 0 | 0 | 0 | 0 |

**AGENCY COORDINATION**

USCG assessing private vessels destroyed by Irma. Fuel oil in the water. They are awaiting cleared roads and the ability to support cleanup personnel before anything can be done. Space to haul out these vessels will be difficult to find.

EPA, USCG, NPFC, and NOAA coordination call scheduled for 9/12 to address ongoing assessments and begin planning joint operations for both PR and USVI.

EPA coordinating with the USCG to use joint staging areas in both PR and USVI for debris and oil and hazardous substance disposal.

We are sharing operational information with the Caribbean Regional Response Team (CRRT) federal, Commonwealth, and U.S. Territory agencies.

## SPILL/RELEASE RESPONSE

| Hotline Calls as of September 10, 2017 | |
|---|---|
| **Number of Irma Related Calls Received During Reporting Period 1300-0100** | 0 |
| **Total Number of Irma Related Calls to Date** | 0 |
| *** EPA is assessing each call to determine appropriate response and forwarding reports to field personnel to conduct further assessments and response as needed.** | |

## DRINKING WATER / WASTEWATER

**Puerto Rico Drinking Water Status:** As of 8 AM on 9/12/17, **3.58%** of the population is without drinking water services. This does not include the non-PRASA systems which account for 4% of the PR population. PR remains under a boil water notice, and we are confirming the scope. PRDOH is back to functionality and is going to start the coordination of inspections to check operational status of the drinking water systems. CEPD/CWD Water Support Group in the REOC is coordinating with PRDOH, FEMA, and the USACE in order to avoid duplication of effort.

**PRASA:** All PRASA waste water treatment plants are in service. However, 15 of the nearly 800 sanitary pump stations are overflowing sewage due to problems caused by the hurricane. CEPD is coordinating visits to the pump stations, the Dorado WWTP, and the Culebra WWTP as soon as conditions allow.

**PREPA:** 75% of population with power.

**PREPA:** All PREPA waste water treatment plants are in service.

**Non-PRASA Drinking Water Status: Highlighted systems need assistance**. Systems that do not answer the phone will be visited by CEPD starting Wednesday. Information has been shared with PRDHOH and our staff located in the PREOC.

| PWS ID No. | System Name | Population | Source | Region | Comments | Status as of |
|---|---|---|---|---|---|---|
| | | | | | | |
| PR0116041 | Sistema de Agua Dual Barraza | 800 | GW | Metro | Phone number not in operation (9/8) (9/11) No response | 9/11/2017 |
| PR0132021 | Lomas Verdes | 130 | GW | Metro | Wrong phone number | 9/11/2017 |

| PWS ID No. | System Name | Population | Source | Region | Comments | Status as of |
|---|---|---|---|---|---|---|
| | (Watch Tower) | | | | | |
| PR132071 | El Dia | 1100 | GW | Metro | Mr. Bedoya does not work in the PWS anymore. Left message on Mayra Rivera's voice mail. | 9/11/2017 |
| PR0207002 | Campamento Penal Sabana Hoyos | 400 | GW | Norte | Wrong number<br>Busy Signal | 9/11/2017 |
| PR0207042 | Arrozal- Los Muertos | 350 | GW | Norte | No answer | 9/11/2017 |
| PR0207052 | Observatorio de Arecibo | 100 | GW | Norte | Mr. Wilson reported a functional system. | 9/11/2017 |
| PR0207062 | MSD International GmbHPR Branch | 342 | GW | Norte | Number not in service | 9/11/2017 |
| PR0209012 | Pfizer Pharmaceuticals | 1400 | GW | Norte | Operator not in service. Extension provided is incorrect. | 9/11/2017 |
| PR0209032 | Abbott Pharmaceuticals PR LTD | 1997 | GW | Norte | Mr. Juan E. Crespo (Utilities Coach) reported a functional system. | 9/11/2017 |
| PR0209092 | MSD International GMBH | 710 | GW | Norte | Mr. Juan E. Crespo (Utilities Coach) reported a functional system. | 9/11/2017 |
| PR0209122 | Abbott Pharmaceuticals PR LTD | 710 | GW | Norte | Mr. Juan E. Crespo (Utilities Coach) reported a functional system. | 9/11/2017 |
| PR0220042 | Pozo Azul Corp. | 305 | GW | Norte | Not in Service | 9/11/2017 |
| PR0242012 | Lucas Lugo | 40 | GW | Norte | Busy Signal | 9/11/2017 |
| PR0242052 | Asoc. Pro Bienestar Magueyes | 140 | GW | Norte | Busy Signal | 9/11/2017 |
| PR0242062 | Vega Acevedo | 396 | GW | Norte | Busy Signal<br>Busy Signal | 9/11/2017 |
| PR0242122 | Com. Las Cuarenta | 212 | GW | Norte | Busy Signal | 9/11/2017 |
| PR0247022 | Patheon Puerto Rico | 300 | GW | Norte | Paola Feliú (Utilities Supervisor) reported that they have been connected to PRASA since 1 month ago. According to Paola, a failure in the electricity produced a damage to the Non PRASA pump. | 9/11/2017 |

| PWS ID No. | System Name | Population | Source | Region | Comments | Status as of |
|---|---|---|---|---|---|---|
| PR0247032 | Warner Chilcott PR LLC | 300 | GW | Norte | Left message | 9/11/2017 |
| PR0247042 | Caribe Agrichemicals | 380 | GW | Norte | Busy signal | 9/11/2017 |
| PR0247092 | Monasterio Madre De Dios | 32 | GW | Norte | NO Electricity. System has a generator in place, but there are having problems with the generator. Repairs may be done on Monday. | 9/8/2017 |
| PR0272032 | Finca William Lugo | 60 | GW | Norte | Temporary Disconnected<br>Temporary Disconnected | 9/11/2017 |
| PR0272282 | Finca Carbonell | 240 | GW | Norte | No phone number provided. | 9/11/2017 |
| PR0274012 | Pfizer Pharmaceuticals Limited | 1500 | GW | Norte | Left a message to Jose Aleman & Alexandra Perez. Everything worked appropriately during the emergency with a generator. They received Power yesterday. | 9/11/2017 |
| PR0274022 | Euro Caribe Packing Company (Mato Santos) | 275 | GW | Norte | Left message with receptionist, Magda. | 9/11/2017 |
| PR0302013 | Comunidad Gabino Negron | 740 | GW | Oeste | Busy Signal<br>Busy Signal | 9/11/2017 |
| PR0302023 | Jaguey Chiquito | 856 | GW | Oeste | Contacted Luis Suarez. No electricity as of 9/9/2017. System has a generator that is operating intermittently. Mr Suarez requested EPA to contact him again this afternoon as we had some communication issues. CEPD spoke with Mr. Carrero, still no electricity. Working the system with a small generator. Due to what the generator can do they provide water to part of the community one day, and the next to the rest. | 9/11/2017 |
| PR0302033 | Quebrada Larga | 488 | GW | Oeste | Wrong phone number<br>Busy Signal – left message | 9/11/2017 |

| PWS ID No. | System Name | Population | Source | Region | Comments | Status as of |
|---|---|---|---|---|---|---|
| PR0302043 | La Ceiba | 400 | GW | Oeste | No response<br>Left message | 9/11/2017 |
| PR0302053 | Com. Aislada en Desarrollo | 440 | GW | Oeste | Busy Signal<br>Busy Signal | 9/11/2017 |
| PR0302063 | Com. Cerro Gordo Sec. El Parque | 304 | GW | Oeste | Busy Signal | 9/11/2017 |
| PR0302073 | Escuela Atalaya | 270 | GW | Oeste | No response | 9/11/2017 |
| PR0302083 | Proyecto Aguas | 412 | GW | Oeste | Busy Signal | 9/11/2017 |
| PR0303013 | Jardin del Atlantico | 165 | GW | Oeste | Power and water services restored. | 9/11/2017 |
| PR0303023 | Acued. Correccional Guerrero | 1100 | GW | Oeste | Busy Signal | 9/112017 |
| PR0306023 | Corcobada | 360 | GW | Oeste | Phone number not in service | 9/11/2017 |
| PR0306053 | Acueducto Rural Bo. Hatillo Anasco | 300 | GW | Oeste | Not in Service<br>Not in Service<br>Busy Signal | 9/11/2017 |
| PR0306083 | Humatas Deep Water | 170 | GW | Oeste | Power and water services restored on 9/8/2017. | 9/9/2017 |
| PR0306093 | Acued. Rural Daguey Ajies Arriba | 840 | GW | Oeste | Power restored on 9/8/2017. Community utilized water by gravity from their storage tank. | 9/9/2017 |
| PR0351023 | Sonador II | 800 | GW | Oeste | Power restored 09/09/2017. System utilized a generator. | 9/9/2017 |
| PR0364083 | Hospital de la Concepcion | 900 | GW | Oeste | System with generator. No power or water issues. | 9/9/2017 |
| PR0367013 | Acueducto Rural Guacio | 189 | GW | Oeste | Power and water services restored. | 9/11/2017 |
| PR0367053 | Acueducto Rural Guadalupe Mart | 81 | GW | Oeste | No response | 9/11/2017 |
| PR0401014 | Las Cruces | 130 | GW | Sur | Wrong phone number | 9/11/2017 |
| PR0401024 | Guilarte Helechales | 219 | GW | Sur | Busy Signal<br>No Response<br>No Response | 9/11/2017 |
| PR0401034 | Pellejas | 260 | GW | Sur | Talked to Ms. Elena Oquendo. Community with no power and no | 9/11/2017 |

| PWS ID No. | System Name | Population | Source | Region | Comments | Status as of |
|---|---|---|---|---|---|---|
| | Adjuntas | | | | water. Utilizing rain water for basic needs. | |
| PR0401064 | Comunidad Palomo | 120 | GW | Sur | Busy Signal | 9/11/2017 |
| PR0401074 | Sector Los Hernandez<br><br>Adjuntas | 240 | GW | Sur | Talked to Mrs. Rivera 787-317-5281. Community has no water, no power. Need generator.<br><br>No response on 9/11. | 9/09/2017<br><br>9/11/2017 |
| PR0401144 | Limani | 150 | GW | Sur | 787-829-0933. Community has no power, but has a generator.<br><br>No response. | 9/9/2017<br><br>9/11/2017 |
| PR0401234 | Garzas Juncos | 460 | GW | Sur | 787-218-4702. Community has no power, but has a generator.<br><br>No response. | 9/9/2017<br><br>9/11/2017 |
| PR0401284 | Juan Gonzalez | 500 | GW | Sur | Busy Signal<br><br>Busy Signal | 9/9/2017<br><br>9/11/2017 |
| PR0422014 | Asociacion Residente San Diego<br><br>Coamo | 368 | GW | Sur | No response<br><br>Power and water services restored. | 9/9/2017<br><br>9/11/2017 |
| PR0422084 | Coamo Arriba | 340 | GW | Sur | No response<br><br>No response | 9/9/2017<br><br>9/11/2017 |
| PR0422094 | Comunidad Monteria | 360 | GW | Sur | No response<br><br>No response | 9/9/2017<br><br>9/11/2017 |
| PR0455054 | Fca. Geraldo Pagan | 680 | GW | Sur | No response<br><br>No response | 9/9/2017<br><br>9/11/2017 |
| PR0455114 | Comunidad Sabana | 720 | GW | Sur | Temporary Disconnected<br><br>Temporary Disconnected | 9/9/2017<br><br>9/11/2017 |
| PR0455134 | Pellejas Galleras | 25 | GW | Sur | Busy Signal<br><br>Apparent disconnection | 9/9/2017<br><br>9/11/2017 |
| PR0455164 | Pellejas II | 500 | GW | Sur | No power, no water service. Need generator.<br>Not in service.<br>No response. | 9/9/2017<br>9/11/2017<br>9/11/2017 |
| PR0455214 | El Perico II | 88 | GW | Sur | No response | 9/9/2017 |

| PWS ID No. | System Name | Population | Source | Region | Comments | Status as of |
|---|---|---|---|---|---|---|
| | | | | | No response. | 9/11/2017 |
| PR0455234 | Damian Arriba | 320 | GW | | 787-867-1878<br>Mrs. Rivera. No power, no water services. System has a generator, but use it intermittently as they don't have problems obtaining gas.<br>No water and power services. | 9/9/2017<br><br>9/11/2017 |
| PR0666056 | La Cuchilla | 400 | GW | | New President is Efrain De Jesus Rivas. Community has no water, no electricity. EPA provided information on location of PRASA oasis.<br>No response. | 9/11/2017 |
| | | | | | | |

**USVI Drinking Water Status:** No new updates

**USVI Wastewater**: The 8 municipal wastewater treatment plants are in service. DPNR is contacting facilities and will provide updates. No significant damage or operational issues have been reported regarding major facilities on St. Croix. Still collecting information regarding St. Thomas and St. John. No information on sanitary pump stations. CEPD will request the OSCs deployed in St. Thomas to assess the wastewater treatment plants and pump stations. CEPD has a call scheduled with DPNR personal this afternoon to strategize assessments and get further updates.

## REGULATED FACILITIES

The Regulated Facility Team (RFT) continues to receive email and telephone responses to EPA's post-Irma facility damage, oil spill, and chemical release assessment efforts. As facility personnel obtain access to their facilities they continue to report no spills, no chemical releases, and no upset conditions. High risk facilities in Puerto Rico and the US Virgin Islands, such as Puma, Limetree Bay, PRASA, and WAPA have reported no significant damage to their oil and/or chemical operations. The RFT has contacted the VI DPNR and provided a brief update on the status of major oil and chemical facilities that have responded to the post-impact damage assessment/oil spill/chemical release mass email and phone calls. The RFT is prepared to provide technical assistance to field assessment teams currently being deployed.

### Puerto Rico

| Facility Type | Sites Identified | Pre-Storm Assessment | Post Storm Assessment | Post Storm Field Assessment | Follow-up Action Required |
|---|---|---|---|---|---|
| RMP | 1 | 1* | 1^ | 1 | 0 |
| FRP | 6 | 6* | 6^ | 6 | 0 |
| SPCC (non-FRP) | 57# | 57#* | 5^ | 5 | 0 |
| Total | 64# | 64# | 12^ | 12 | 0 |

^ Based on Post-Hurricane oil spill/chemical release/damage assessment email and phone calls. No facilities have reported oil spills, chemical releases, or upset/damage conditions that could lead to oil spill or chemical release.

# There is no SPCC submission requirement. This number reflects the number of known non-FRP SPCC facilities that are believed to be active based on inspection history.


| Facility Type | Sites Identified | Pre-Storm Assessment | Post Storm Assessment | Post Storm Field Assessment | Follow-up Action Required |
|---|---|---|---|---|---|
| RMP | 1 | 1* | 1^ | 1 | 0 |
| FRP | 6 | 6* | 6^ | 6 | 0 |
| SPCC (non-FRP) | 57# | 57#* | 5^ | 5 | 0 |
| Total | 64# | 64# | 12^ | 12 | 0 |


* Pre-Hurricane email requested facilities to self-identify any pre-existing compromised conditions (construction at process areas, tank maintenance, etc.). No facilities reported pre-existing compromised conditions.

^ Based on Post-Hurricane oil spill/chemical release/damage assessment email and phone calls. No facilities have reported oil spills, chemical releases, or upset/damage conditions that could lead to oil spill or chemical release.

# There is no SPCC submission requirement. This number reflects the number of known non-FRP SPCC facilities that are believed to be active.

## EPA RESOURCES

| Personnel | EPA Edison, NJ NYC San Juan, PR | FEMA RRCC Colts Neck, NJ | Puerto Rico Deployments | USVI Deployments | Totals |
|---|---|---|---|---|---|
| **EPA** | 56 | 1 | 6 | 5 | 68 |
| **START/ RST** | 9 | 0 | 2 | 4 | 15 |
| **ERRS** | 4 | 0 | 0 | 0 | 4 |

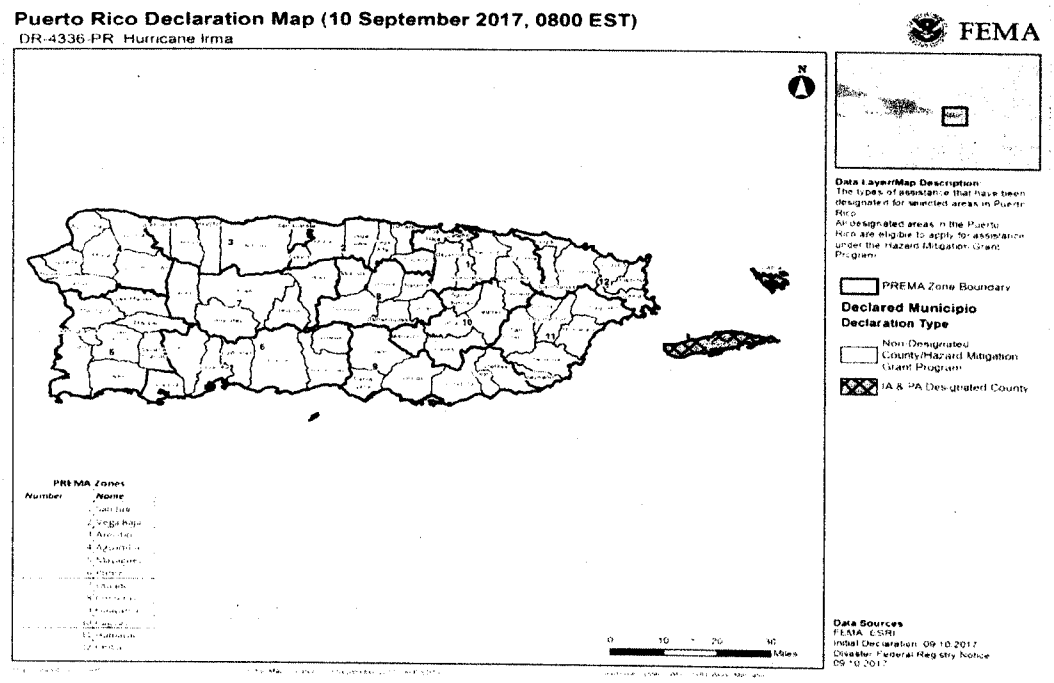
| | | | | | |
|---|---|---|---|---|---|
| **Other Contractors** | 0 | 0 | 0 | 0 | 0 |
| **Totals** | 69 | 1 | 6 | 7 | 87 |

## DECLARATIONS

### Puerto Rico.

Emergency Declaration FEMA-3384-EM effective September 5. Assistance is for all 78 municipalities in the Commonwealth of PR. The Governor of Puerto Rico requested a disaster declaration 9/8.

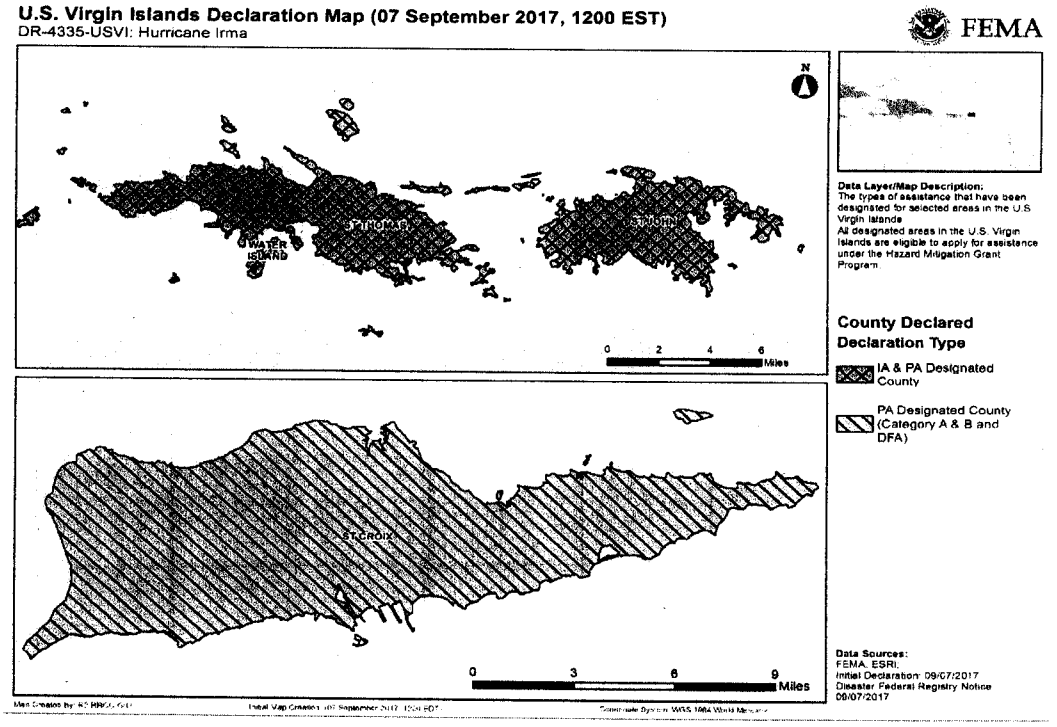
Disaster Declaration effective September 9. Declared areas only include Culebra and Vieques.




### U.S. Virgin Islands.

Disaster Declaration FEMA-4335-DR effective September 7, 2017. St. Thomas and St. John approved for Individual Assistance, all islands eligible for Public Assistance and the Hazard Mitigation Grant Program.

Emergency Declaration FEMA-3383-EM effective September 5. Assistance is for all islands in the Territory of the USVI.




# FUNDING

| Mission Assignment Number | Purpose | Start Date | End Date | Total Amount | Indirect Costs | Amt. Available (after indirect rate) | Daily Burn Rate | Used | Balance |
|---|---|---|---|---|---|---|---|---|---|
| VI-17090102-EPA-01 | Activate EPA to FEMA R2 RRC in Colts Neck, NJ to support FEMA response ops | 9/2/2017 | 9/11/2017 | $10,000 | $1,046 | $8,954 | $1,080 | $8,954 | $0 |
| 4335DR-VI-EPA-01 | Activate EPA to FEMA R2 RRC in Colts Neck, NJ to support FEMA response ops | 9/7/2017 | 10/7/2017 | $100,000 | $10,466 | $89,534 | $1,080 | $2,160 | $87,374 |
| 3383EM-VI-EPA-01 | Activate EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA and NRA Teams and other coordination venues to support FEMA response ops in VI | 9/7/2017 | 9/16/2017 | $75,000 | $7,850 | $67,150 | $76,800 | $302,400 | **($235,250)** |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 4335DR-VI-EPA-02 | To perform **assessment** of oil and hazardous materials releases, contaminated debris and other environmental events following landfall in **VI** | 9/7/2017 | 9/30/2017 | $508,000 | $53,170 | $454,830 | $13,200 | $52,800 | $402,030 |
| [redacted] | | | | | | | | | |
| PR-17090102-EPA-01 | Activate EPA to FEMA R2 RRC and other locations as necessary for PR. For REOC pre-landfall costs. | 9/1/2017 | 9/11/2017 | $20,000 | $2,093 | $17,907 | $ - | $17,907 | $0 |
| 3384EM-PR-EPA-01 | Activate EPA to FEMA R2 RRCC, EPA REOC, State EOC, JFO, PDA, and RNA Teams and other coordination venues to support FEMA response ops in PR | 9/6/2017 | 9/16/2017 | $75,000 | $7,850 | $67,150 | $9,600 | $48,000 | $19,150 |
| 3384EM-PR-EPA-03 | To perform **assessment** of oil and hazardous materials releases, contaminated debris and other environmental events following landfall in **PR** | 9/9/2017 | 9/30/2017 | $508,000 | $53,170 | $454,830 | $10,800 | $32,400 | $422,430 |

## FUEL WAIVERS

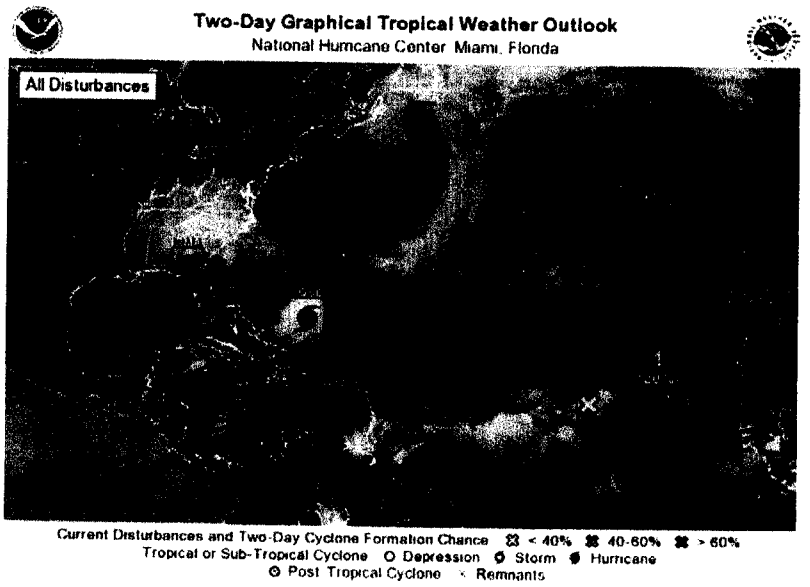
Fuel waivers are not needed for PR or USVI.

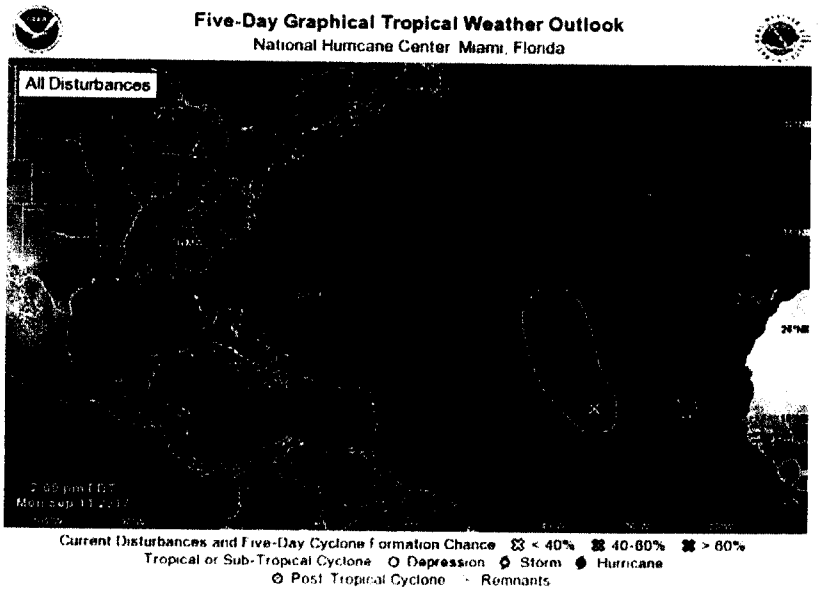
## LONG RANGE PLANNING

- **National Disaster Recovery Framework (NDRF) Activities**. FEMA has begun long range recovery planning and is in contact with the EPA Office of the Administrator's (OA) disaster recovery coordinator. The Acting Regional Administrator is Region 2's Federal Disaster Recovery Coordinator with CASD providing support. CASD is in communication with the OA and is working with CEPD and the other divisions to identify Region 2 contacts for the six Recovery Support Function (RSF) areas: 1.)

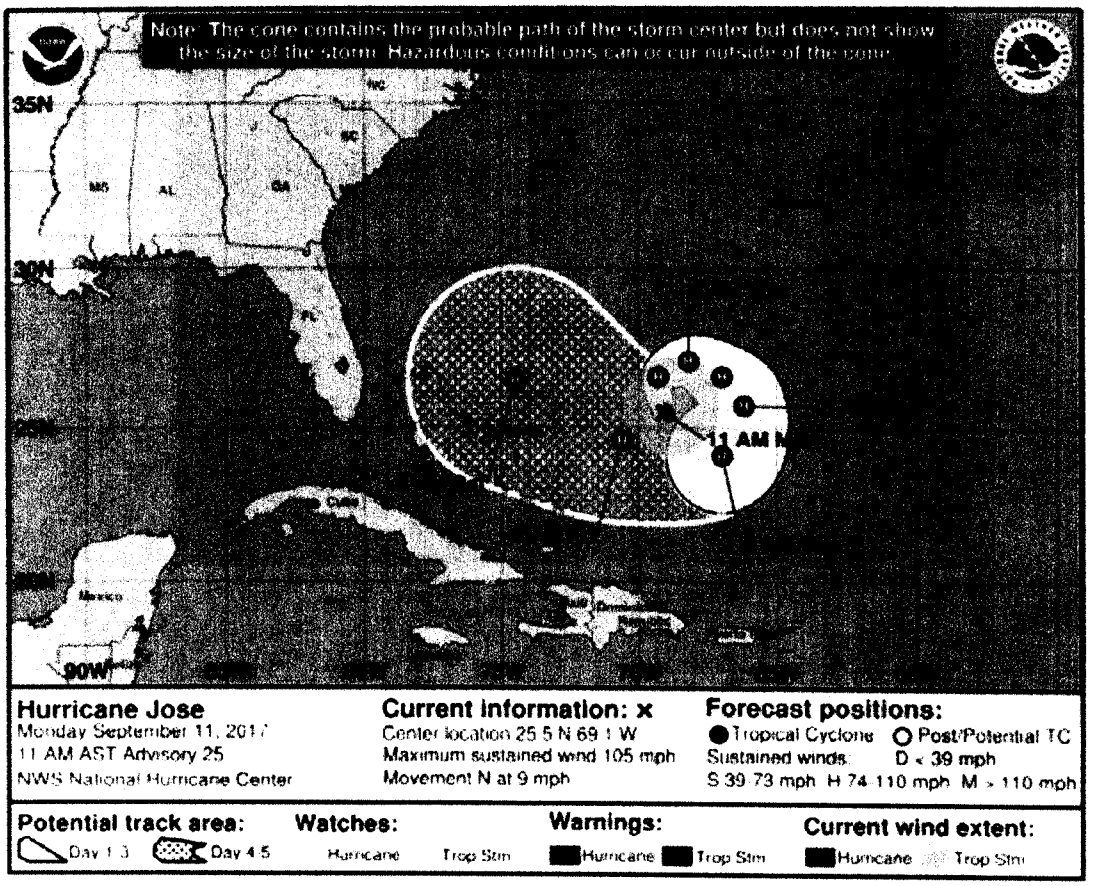
Community Planning and Capacity Building, 2.) Economic Recovery, 3.) Health and Social Services, 4.) Housing Recovery, 5.) Infrastructure Systems, and 6.) Natural and Cultural Resources. This work will assist the Agency to identify potential recovery challenges and plan for resiliency. EPA Region 2 disaster response and recovery personnel are coordinating and will share our Irma data collection and results of our assessment efforts.

- **Additional Threats**. No additional storm threats to impact the U.S. Caribbean.



- **Hurricane Jose**. At 9/11 11:00AM AST, the center of Hurricane Jose was moving toward the north at 9 mph. A NE turn is expected tonight, followed by a slower motion toward the SE Tuesday and Tuesday night. Maximum sustained winds are near 105 mph with higher gusts. Some weakening is forecast during the next 48 hours. Hurricane-force winds extend outward up to 25 miles from the center and tropical-storm-force winds extend outward up to 140 miles.



# September 18, 2017 - September 24, 2017

September 2017

| SuMo | TuWe | Th | Fr | Sa |
|---|---|---|---|---|
| | | | 1 | 2 |
| 3 4 | 5 6 | 7 | 8 | 9 |
| 10 11 | 12 13 | 14 | 15 | 16 |
| 17 18 | 19 20 | 21 | 22 | 23 |
| 24 25 | 26 27 | 28 | 29 | 30 |

October 2017

| SuMo | TuWe | Th | Fr | Sa |
|---|---|---|---|---|
| 1 2 | 3 4 | 5 | 6 | 7 |
| 8 9 | 10 11 | 12 | 13 | 14 |
| 15 16 | 17 18 | 19 | 20 | 21 |
| 22 23 | 24 25 | 26 | 27 | 28 |
| 29 30 | 31 | | | |

## Monday, September 18

**12:00am TAMPA, FL** →

[redacted] (b)(6)

[redacted] **1:30pm - 5:30pm Mission Measures - ORD, OCFO, OARM, OGC (+R4,7,10)** (DCRoomWest1426/OPEI; VTC/phone will be available) - Kenny, Shannon

## Tuesday, September 19

← **TAMPA, FL** →

## Wednesday, September 20

← **12:00am TAMPA, FL**

[redacted]

(b)(6) personal

[redacted] **2:00pm - 3:00pm 1 on 1 w/ Ken Laplerre** (RA's Office) - Glenn, Trey

[redacted]

[redacted] **4:00pm - 4:30pm Meeting w/ Trey Glenn and OExA Director** (RA's [redacted]

## Thursday, September 21

**TREY TELEWORK**

[redacted] **7:00am - 1:00pm Training**

[redacted] **1:00pm - 2:00pm Hurricane Irma/Harvey: PCC Meeting and Conference Call** (Dial-In: 866-299-3188; Participant Code: (b)(6) - EOC Documentation

**1:00pm - 2:00pm Hurricane Irma/Harvey: PCC Meeting and Conference Call** (Dial-In: 866-299-3188;Participant Code: (b)(6) - EOC Documentation

[redacted] **2:00pm - 3:00pm Trey and Anne - 1 on 1** (RA's Office) - Glenn, Trey

[redacted] **3:00pm - 6:30pm Training**

## Friday, September 22

## Saturday, September 23

## Sunday, September 24

[redacted]

Hurricane Harvey/Irma Policy Coordinating Committee

(Deputy EOC Manager) Draft Incident Management Objectives September 21, 2017

Draft – withheld Exemption 5

**Hurricane Irma Response**
**EPA Region 4**
SITUATION REPORT #24
0900 – EST, September 20, 2017 to 0900 – EST, September 21, 2017

## ASSESSMENT STATUS SUMMARY

Effective at 2330 on September 20, the FEMA Region IV Regional Response Coordination Center (RRCC) transitioned from Level II (full activation) to normal operations. All members of the RRCC were released, including those staffed under ESF-10.

Yesterday, the Orphan Container Assessment Recovery Group cleared all 134 assigned grids within west central Florida. Assessment teams identified no storm-related orphan containers within the grid system. Intelligence from the Florida State Emergency Operations Center (EOC) indicates that similar assessment activities in eastern Florida are unnecessary. All assessment teams with the exception of the Everglades Recovery Group, will be demobilized today and tomorrow. The Everglade Recovery Group will assist Collier County by managing large, orphan containers at their county collection center. The Mobile Command Post will be redeployed from St. Petersburg to Miami to prepare for unified assessment and response activities with the U.S. Coast Guard (USCG) in the Florida Keys.

On-Scene Coordinator (OSC) Ben Franco will mobilize on September 22, to represent the EPA as a Unified Commander at the joint EPA/USCG Command Post in Miami. OSC Matt Huyser will join the Unified Command on Sunday, September 24, as the EPA Planning Section Chief. EPA field teams composed of OSCs and Superfund Technical Assessment and Response Team (START) members will be deployed once logistics and operations are finalized. The anticipated path forward is for EPA to lead land-based assessment and response actions. The USCG will lead coastal assessment and response activities, primarily vessel recovery.

The U.S. Army Corps of Engineers (USACE) has requested additional EPA support to contact Florida water utilities. Water Team members in the EPA Region 4 office began contacting wastewater facilities classified as status "unknown" on September 18. The Florida Department of Environmental Protection (FDEP) is contacting public water systems with an "unknown" status. The Region 4 Facility Assessment Support Team (FAST), completed 562 call-down assessments as of September 20. USACE and representatives from the Water Protection Division (WPD) traveled to Everglades City on September 21 to assess water and wastewater facilities.

## I. REGION 4 STATES

All Region 4 State EOCs, with the exception of Florida, are back to normal operations.

### a. FLORIDA

#### i. Key Questions

**What has Florida asked us to do?**

Florida has assigned the EPA ESF-10 mission assignments to conduct assessments of targeted facilities and orphan containers.

**How are we leaning forward?**

The EPA Region 4 has completed field-assessments of National Priority List (NPL) sites within the State and contacted all Facility Response Plan (FRP) facilities through a combination of call-down and field assessments. The Region has reached out to all 274 Risk Management Plan

(RMP) facilities within Florida and is working with FDEP to contact the two remaining facilities that have, to date, been unresponsive.

### ii. Florida - Overall Status

All Emergency Support Functions are active. The EPA Region 4 continues to staff the ESF-10 and ESF-3 desks in the SEOC. State-specific information can be found on the Florida Division of Emergency Management webpage: http://www.floridadisaster.org/index.asp.

**Table 1**
**Summary of Hurricane Impacts Throughout Florida**

| Category | Florida Status |
|---|---|
| **SEOC Status** | Level 1 (Full activation and fully staffed). |
| **Evacuations** | Reported approximately 1,653 in shelters. |
| **Power outages** | Approximately 39,831 without power. |
| **Boil Water Advisory** | A Boil Water Notice is still in effect across multiple water systems. |

**ESF-3 (Infrastructure)**
ESF-3 has been tasked to provide technical assistance to the USACE for water infrastructure assessment; that mission is ongoing.

**ESF-10 (Oil and Hazardous Substance)**

The state-wide facility assessment mission has been completed. The orphan container mission in west Florida has also been completed. EPA orphan container recovery operations are ongoing in Collier County. Assessment and response operations in the Florida Keys will begin during the week of September 24.

**Table 2**
**Florida - Summary of Priority Facility Sites**

| | **Drinking Water** | **WWTP** Wastewater Treatment Plant | **NPL** National Priority List | **RMP** Risk Management Plan | **FRP** Facility Response Plan |
|---|---|---|---|---|---|
| **Total** | 1,641 | 386 | 93 | 274 | 122 |
| **Assessment Complete** | See Water Protection Division Report | | 93 | 272 | 122 |
| **Assessment Pending** | | | 0 | 2 | 0 |

## b. GEORGIA

Georgia reports that its State EOC has returned to normal operations. The Camden, Chatham, Glynn, Liberty, and McIntosh County EOCs remain activated; however, no EPA assistance has been requested.

Tables 3 and 4 provide summary status of facilities and impacts within the state.

| Table 3<br>Georgia - Summary of Priority Facility Sites | | | | | |
|---|---|---|---|---|---|
| | **Drinking Water** | **WWTP** Wastewater Treatment Plant | **NPL** National Priority List | **RMP** Risk Management Plan | **FRP** Facility Response Plan |
| Total | See Water Protection Division Report | | 22 | 275 | 85 |
| Assessment Complete | | | 22 | 275 (Per State) | 83 |
| Pending Assessment | | | 0 | 0 | 2 |

| Table 4<br>Summary of Hurricane Impacts Throughout Georgia | |
|---|---|
| **Category** | **Georgia Status** |
| **SEOC Status** | Level 2 - Elevated Activation. The EPA Region 4 HAS NOT been requested to staff the SEOC. |
| **Evacuations** | Evacuation order lifted for all six coastal counties. |
| **Power outages** | Approximately 634 people without power. |
| **Boil Water Advisory** | No updated provided; last correspondence indicated limited boil water advisories for 75 systems. |

Derived from Georgia Emergency Management Agency/Homeland Security, State Operations Center Daily Situational Report.

### c. ALABAMA

No state updates during this operational period. Tables 5 and 6 provide summary status of facilities and impacts within the state.

| Table 5<br>Alabama - Summary of Priority Facility Sites | | | | | |
|---|---|---|---|---|---|
| | **Drinking Water** | **WWTP** Wastewater Treatment Plant | **NPL** National Priority List | **RMP** Risk Management Plan | **FRP** Facility Response Plan |
| Total | See Water Protection Division Report | | 17 | 195 | 65 |
| Assessment Complete | | | 17 | 195 (Per State) | 50 |
| Pending Assessment | | | 0 | 0 | 15 |

| Table 6<br>Summary of Hurricane Impacts Throughout Alabama | |
|---|---|
| **Category** | **Alabama Status** |
| **SEOC Status** | The Alabama Emergency Management Agency (EMA) returned to normal daily operations as of September 14. The EPA Region 4 HAS NOT been requested to staff the SEOC. |
| **Evacuations** | No evacuations issued |
| **Power outages** | No information reported |
| **Boil Water Advisory** | No information reported |

### d. SOUTH CAROLINA

No state updates during this operational period. Tables 7 and 8 provide summary status of facilities and impacts within the state.

| Table 7<br>South Carolina - Summary of Priority Facility Sites | | | | | |
|---|---|---|---|---|---|
| | **Drinking Water** | **WWTP** Wastewater Treatment Plant | **NPL** National Priority List | **RMP** Risk Management Plan | **FRP** Facility Response Plan |
| Total | See Water Protection Division Report | | 36 | 171 | 38 |
| Assessment Complete | | | 36 | 171 (Per State) | 38 |
| Pending Assessment | | | 0 | 0 | 0 |

| Table 8<br>Summary of Hurricane Impacts Throughout South Carolina | |
|---|---|
| **Category** | **South Carolina Status** |
| **SEOC Status** | The South Carolina EOC is at normal operations. |
| **Evacuations** | No State evacuation orders in effect. Order issued for by Governor on 09/09/17 for barrier islands, rescinded on 09/12/17. |
| **Power outages** | No information reported |
| **Boil Water Advisory** | No information reported |

## II. FEDERALLY RECOGNIZED TRIBES

No significant updates were provided by the Region 4 Tribes during the reporting period.

## III. EPA REGION 4 PROGRAM REPORT-OUT

### a. SUPERFUND

#### i. National Response Center (NRC) Reports

Table 9 provides a summary of the NRC reports received to date from Hurricane Irma impacted areas.

**Table 9**
**NRC Report Tracking**

| Location | Hazardous Materials | | Oil | | Other | |
|---|---|---|---|---|---|---|
| | Open | Closed | Open | Closed | Open | Closed |
| Florida | 0 | 12 | 0 | 148 | 0 | 14 |
| Georgia | 0 | 0 | 0 | 1 | 0 | 0 |
| Alabama | 0 | 0 | 0 | 0 | 0 | 0 |
| South Carolina | 0 | 0 | 0 | 0 | 0 | 0 |

Open means response status unknown or currently responding.
Closed means response addressed by owner-operator or Federal, State, or local agency; no EPA assistance requested.

#### ii. Personnel Deployment Status

The EPA Region 4 Regional Emergency Operations Center (REOC) remains at Level 3 activation. Staffing provided in Table 10 represents all EPA and contractor staff associated with the Hurricane Irma response. See the Incident Management Field Operations Organizational Chart for the overall command structure at the end of the SitRep (Figure 2).

**Table 10**
**Region 4 Staffing (09/20/17 – 0900)**
**Deployment Location**

| | EPA R4 Atlanta[1] | FEMA Atlanta[2] | Florida SEOC[3] | Florida Field Operations[4] |
|---|---|---|---|---|
| EPA R3 | 1 | 0 | 0 | 0 |
| EPA R4 | 20 | 0 | 4 | 7 |
| EPA R5 | 0 | 0 | 0 | 3 |
| EPA HQ | 0 | 0 | 0 | 0 |
| START | 2 | 0 | 0 | 8 |
| ERRS | 0 | 0 | 0 | 0 |

1. EPA staff and contractors working directly in the REOC or actively supporting Region 4 REOC operations from a remote location (e.g., normal workstation).
2. FEMA liaison staffing ESF-10 Desk at the FEMA RRCC in Atlanta, Georgia.
3. EPA R4 On-Scene Coordinator liaison staffing ESF-10 Desk and three EPA R4 SESD staffing ESF-3 Desk at the Florida Emergency Operations Center in Tallahassee, Florida.
4. EPA Staff and Contractors staffing field assessment teams in various locations in Florida.

### iii. FEMA RRCC

A summary of mission assignments is provided in Table 11.

**Table 11**
**FEMA Mission Assignment Status**

| Mission Assignment Number | Type of Mission Assignment | Period of Performance | State Cost Share | Funding | Cost to Date |
|---|---|---|---|---|---|
| 4337DR-FL-EPA-05 | Federal Operations Support | September 4 to October 15, 2017 | 0% | $90,000 | $28,405 |
| 4337DR-FL-EPA-03 | Direct Federal Assistance | September 10 to October 3, 2017 | 0% | $525,000 | $458,556 |
| 4337DR-FL-EPA-04 | Disaster | September 4 to October 3, 2017 | 0% | $9,000,000 | $1,139,084 |

**(Note: Increase or decrease in cost to date is attributed to payroll and travel adjustments)**

### iv. RESPONSE ACTIVITIES

Table 12 provides a summary of completed assessment and response activities in Florida.

**Table 12**
**EPA Field Debris Assessment Grid Status**

| County, FEMA Branch, Division | Grid Cleared-No Further Action | Grid Assessed-Contains Target | Grid Assessment In Progress | Grid Unassessed | TOTAL |
|---|---|---|---|---|---|
| Charlotte County (FEMA Branch IV, Division G) | 27 | 0 | 0 | 0 | 27 |
| Collier County (FEMA Branch IV, Division E) | 21 | 0 | 0 | 0 | 21 |
| Lee County (FEMA IV, Division F) | 43 | 0 | 0 | 0 | 43 |
| Pasco County (FEMA Branch III, Division O) | 16 | 0 | 0 | 0 | 16 |
| Pinellas County (FEMA Branch III, Division M) | 27 | 0 | 0 | 0 | 27 |
| TOTAL | 134 | 0 | 0 | 0 | 134 |

Reduction in targets based on collection activities or review and determination that target for recovery was not hurricane related.

## b. AIR, PESTICIDE & TOXICS MANAGEMENT DIVISION (APTMD)

### i. RMP Facility Status

No updates were provided during this reporting period.

### ii. Asbestos

State of Florida DEP's Emergency Final Order (OGC No. 17-0989, Page 8, Item 4) waives the 10-day requirement for prior notification for emergency demolition or emergency clean-up of asbestos containing material resulting from Hurricane Irma.

### iii. Summary of Fuel Waivers and No Action Assurance Letters Issued to Date

Table 13 summarizes Fuel Waivers and No Action Assurance (NAA) letters for fuels for **mobile-sources** (e.g., cars/trucks), and NAA letters for **stationary-sources** of pollution (e.g., power plants).

**Table 13**
**Chronology of Waivers and NAAs to Date**

| Requesting State | What they requested (Date of request) | Waiver or NAA | EPA Response | Does this supersede a prior waiver or NAA? |
|---|---|---|---|---|
| **MOBILE SOURCE FUELS – EPA ISSUED FUEL WAIVERS AND NAAs** | | | | |
| GA | Reid Vapor Pressure (RVP) and ethanol requirements for gasoline. Requested on August 28, 2017 | Waiver | Waiver issued on August 29 | No |
| Covers all R4 States (though not all formally submitted a request) | Low volatility conventional gasoline and Reformulated Gasoline (RFG). Requested on various dates (or not requested at all). | Waiver | Waiver issued on August 30 | No |
| Covers all R4 States (though not all formally submitted a request) | Low volatility conventional gasoline and Reformulated Gasoline (RFG). Requested on various dates (or not requested at all). | Waiver | Waiver issued on August 31 | Yes |
| FL | Red dyed 15 ppm non-road diesel locomotive and marine fuel. Requested on September 5, 2017 | Waiver | Waiver issued on September 6 | No |
| Covers all R4 States (though not all formally submitted a request) | Low volatility "summertime" gasoline requirements and RFG. Requested on various dates (or not requested at all). | Waiver | Waiver issued on September 7 | Yes |
| FL | Use of Duke Power's diesel reserves (non-ULSD) in vehicles and equipment for response to power outages (9/13/17) | NAA | NAA issued on September 13 | NA |
| **STATIONARY SOURCES – EPA ISSUED NAAs** | | | | |
| FL | Operation of simple-cycle combustion turbines in Monroe County, FL, without adhering to NOX control requirements (9/08/17) | NAA | NAA for violations of NSPS Subpart GG NOX emission standard and permit requirements for simple-cycle combustion turbines in Monroe County, FL (9/08/17) See HERE | No |
| FL | Fuel Loading Operations for fuel shortages (9/08/17) | NAA | Statewide NAA for vapor recovery requirements for fuel shortages (9/08/17) See HERE | No |
| FL | Truck Loading Operations for fuel shortages (9/08/17) | NAA | Statewide NAA for Truck Loading Operations for fuel shortages (9/08/17) See HERE | No |
| FL | Roof Landings for fuel shortages (9/08/17) | NAA | Statewide NAA for Roof Landings at fuel storage tanks for fuel shortages (9/08/17) See HERE | No |

| Table 13<br>Chronology of Waivers and NAAs to Date | | | | |
|---|---|---|---|---|
| **Requesting State** | **What they requested (Date of request)** | **Waiver or NAA** | **EPA Response** | **Does this supersede a prior waiver or NAA?** |
| FL | Relief from various permit conditions and permit requirements at TECO power plants (9/09/17) | NAA | Relief from various permit conditions and permit requirements at three TECO power plants (9/10/17) See HERE | No |
| FL | Relief from various permit conditions and permit requirements at Florida power plants state-wide (9/10/17) | NAA | Statewide relief from various permit conditions and permit requirements at Florida power plants (9/10/17) See HERE | Yes (Supersedes TECO) |

**iv. Air Monitoring Network**

Region 4 States are reinstating their routine criteria and toxics air monitoring networks. A summary of the status of the networks is as follows:

1. **Florida**

   - Fully operational and collecting air monitoring data at 45 sites.
   - Air monitoring systems are operational and awaiting final quality control and calibrations checks at 27 sites.
   - Air monitoring is offline at 26 sites due to power outage.

2. **Georgia**

   No monitoring sites or equipment were damaged. Several sites lost power and were unable to collect data for a few days. All sites are now back online and operational with the exception of the Fort Mountain site, which is without power.

3. **Alabama**

   No significant storm damage to the network and all monitors are operational.

4. **South Carolina**

   APTMD removed equipment at ten sites in preparation for the storm. The equipment has been returned to their sites and APTMD anticipates to have all ten sites operational and collecting data by the end of the week.

5. **North Carolina**

   All but two sites are back online and collecting data. APTMD anticipates having the remaining two sites operational by the end of the week.

**c. RESOURCE CONSERVATION AND RECOVERY ACT (RCRA)**

No updates were provided during this reporting period.

**d. SCIENCE AND ECOSYSTEM SUPPORT DIVISION (SESD)**

The laboratory remains operational. No updates were provided during this reporting period.

## e. WATER PROTECTION DIVISION

### i. FLORIDA

**Water Team Deployment**

USACE and WPD continue to assist FDEP in assessing the status of drinking water and wastewater facilities. The Region 4 FAST completed 562 wastewater status assessments as of September 20.

The Everglades City WWTP became non-operational on September 13, and partially returned to service with generator power on September 19. The system start-up was hindered by weakened integrity issues. It is unclear if the leaks were only in the wastewater system. A team comprised of USACE and WPD will travel to Everglades City on September 21 to assess the water and wastewater facilities.

**Boil Water Notices (BWN)[1]**

Boil water notices and advisories are published on the Florida Department of Health's website (http://www.floridahealth.gov/environmental-health/drinking-water/boil-water-notices.html). Currently, the website lists 437 BWN issued since September 11, of which 132 have been rescinded, resulting in 305 active BWN.

Tables 14 and 15 summarize community water system status and Publically Owned Treatment Works (POTW) within Florida as per the last state report.

**Table 14**
Total Number of Community Drinking Water Systems (CWS) and Total Population Served in Florida

| | Large CWS (Over 3,300) | | Small CWS (under 3,300) | |
|---|---|---|---|---|
| | # Systems | Population Served | # Systems | Population Served |
| Operational: | 382 | 18,647,361 | 1163 | 666,290 |
| Partially Operational: | 14 | 641,103 | 26 | 26,482 |
| Non Operational: | 0 | 0 | 7 | 1,226 |
| Unknown: | 0 | 0 | 49 | 16,705 |
| Totals: | 396 | 19,288,464 | 1,245 | 710,703 |
| Boil Water Notices | 305 (437 issued – 132 rescinded) | | | |

**Comments:** Data is compiled from the State of Florida's StormTracker system. The inventory of public water systems in StormTracker consists of all 1,630 Community Water Systems (CWS) and 11 non-community public water systems regulated by the State. These facilities were identified by Florida as the most critical for operational status determinations following major disasters. For convenience, all 1,641 facilities are reported as "CWS" in this table.

***Operational:*** *Facility producing drinking water for greater than 90% of customers under normal operating conditions*

***Partially Operational:*** *Facility producing drinking water under adverse conditions and/or supplying less than 90% of customers*

***Non Operational:*** *Facility not producing or supplying drinking water*

***Unknown:*** *Status of facility unknown at this time*

***Operational:*** *Facility producing drinking water for greater than 90% of customers under normal operating conditions*

[1] While a BWN may be issued for an entire system, many are issued for only part of a distribution system (blocks, subdivisions, specific number of houses, etc.) making estimates of the population effected by a BWN inaccurate or unavailable. As such, reporting of populations affected is misleading therefore not reported at this time.

| Table 15<br>Total Number of<br>POTWs within Florida | | | |
|---|---|---|---|
| | NPDES Permitted Facilities | | State Permits (Non-NPDES) |
| | POTW | Non-POTW (Industrial) | |
| Operational: | 142 | 237 | 1402 |
| Partially Operational: | 3 | 3 | 54 |
| Non Operational: | 0 | 1 | 124 |
| Unknown: | 0 | 2 | 438 |
| Totals: | 145 | 243 | 2,018 |

Comments: Data is compiled from the State of Florida's StormTracker system. The NPDES universe tracked in StormTracker represents a subset of the total inventory of NPDES permitted systems that are identified by the State of Florida as the most critical for operational status determinations following major disasters.

This report shows that 98% of the POTWs are Operational, an increase since last report of 95%.
This report shows that 97% of the Non-POTW NPDES Permitted Facilities tracked in StormTracker are Operational, an increase since last report of 78%.

*Operational: Facility & associated collection system is properly conveying, and effectively providing wastewater treatment, in accordance with applicable permit conditions and regulations. (Operating on full or backup generator power.)*

*Partially Operational: Facility and/or associated collection system is properly conveying and providing wastewater treatment at a compromised capacity, i.e. one or more treatment train components are non-operational, one or more lift stations are non-operational, etc.*

*Non Operational: Facility and/or associated collection system is not providing wastewater treatment in accordance with applicable permit conditions and regulations*

*Unknown: Status of facility unknown at this time*

### ii. GEORGIA

Table 16 summarizes community water system status within Georgia as per the last state report.

| Table 16<br>Total Number of Community Drinking Water Systems (CWS) and Total Population Served in Georgia | | |
|---|---|---|
| | # Systems | Population Served |
| Operational: | 186 | 7,203,619 |
| Operational w/ Conditions: | 8 | 53,917 |
| Non Operational: | 3 | 40,322 |
| Unknown: | ** | ** |
| Totals: | 1,749 | 8,917,820 |
| | | |
| Boil Water Notices | 75 | |

**Comments:** Data is compiled from data collected by Georgia EPD drinking water staff, EPD regional offices and the ESF-3 Water Desk at the Georgia SOC. The inventory of public water systems in *Georgia* consists of all 1,749 Community Water Systems (CWS).
** EPD has provided status updates of all community water systems with surface water sources. All community water systems using ground water are being contacted by EPD District Offices and associated resource requests are forwarded to the SOC ESF-3 desk.
All community water systems using surface water as a source have been assessed.

***Operational:*** *Facility producing drinking water for greater than 90% of customers under normal operating conditions*

***Operational with Conditions:*** *Facility producing drinking water under consumer advisory, e.g., boil water advisories issued by water systems.*

***Non Operational:*** *Facility not producing or supplying drinking water*

***Unknown:*** *Status of facility unknown at this time*

iii. **ALABAMA**

No significant updates were provided during this reporting period.

iv. **NORTH CAROLINA**

No significant updates were provided during this reporting period.

v. **SOUTH CAROLINA**

No significant updates were provided during this reporting period.

vi. **TENNESSEE**

No significant updates were provided during this reporting period.

vii. **FEDERALLY RECOGNIZED TRIBES**

No significant updates were provided during this reporting period.

f. **OFFICE OF EXTERNAL AFFAIRS (OExA)**

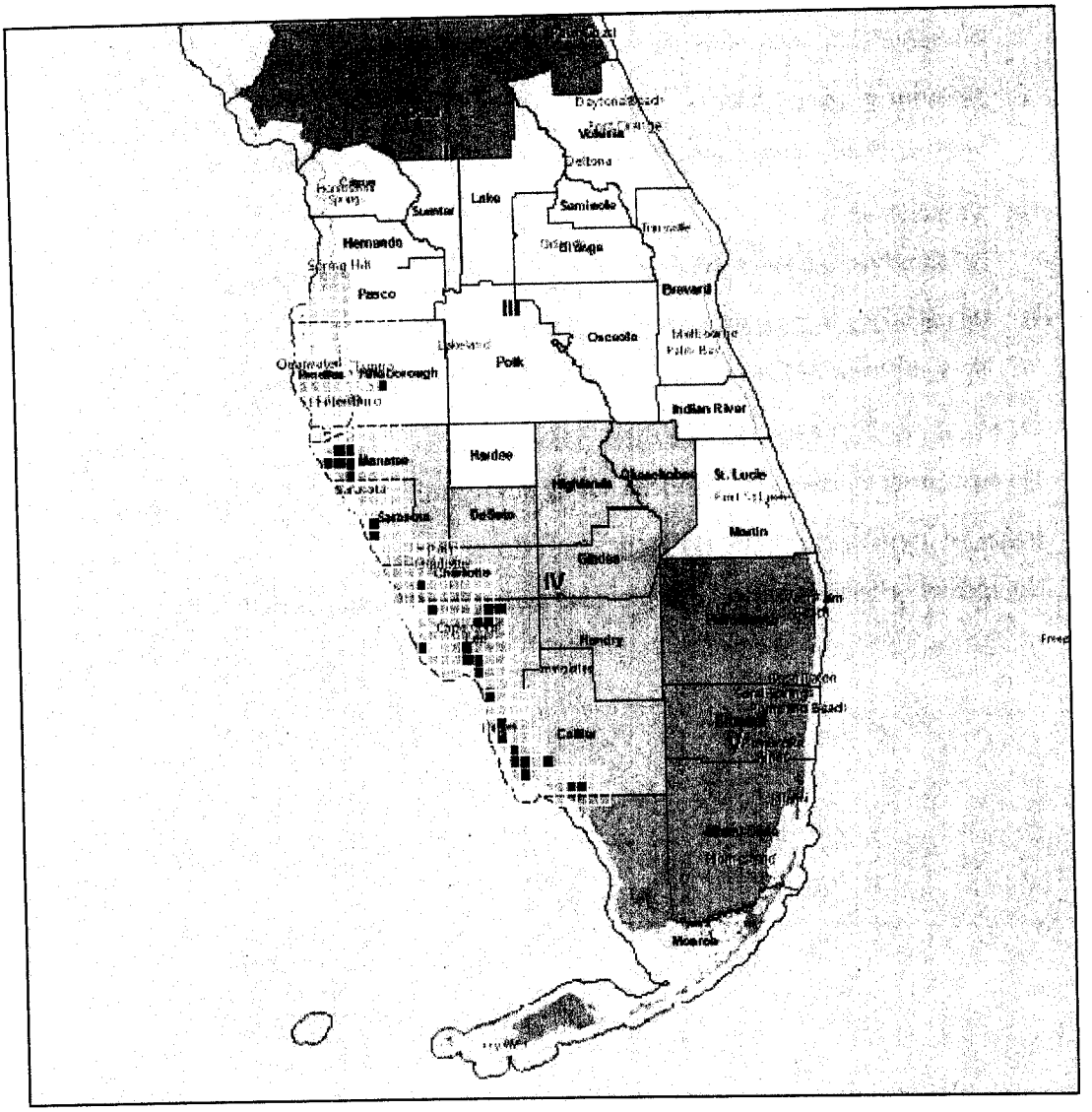
No significant updates were provided during this reporting period.

g. **PUBLIC INFORMATION OFFICE**

No updates or open inquiries were provided during this reporting period.

Figure 1

Target Assessment Grid Results




September 20, 2017

1:2,311,162

0 25 50 100 mi

0 40 80 160 km

**EPA/USCG Target Assessment Grid**

- Unassessed
- Assessment in Progress
- Assessed (Contains Orphaned Container Target)
- Assessed (Contains Sunken Vessel Target)
- Assessed (Contains Orphaned Container and Sunken Vessel Target)
- Cleared (No Further Action)
- County Facility Summaries

**FEMA Branches**

- I
- II
- III
- IV

Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

Figure 2

R4 Hurricane Irma ICS207
Incident Management: Field Operations

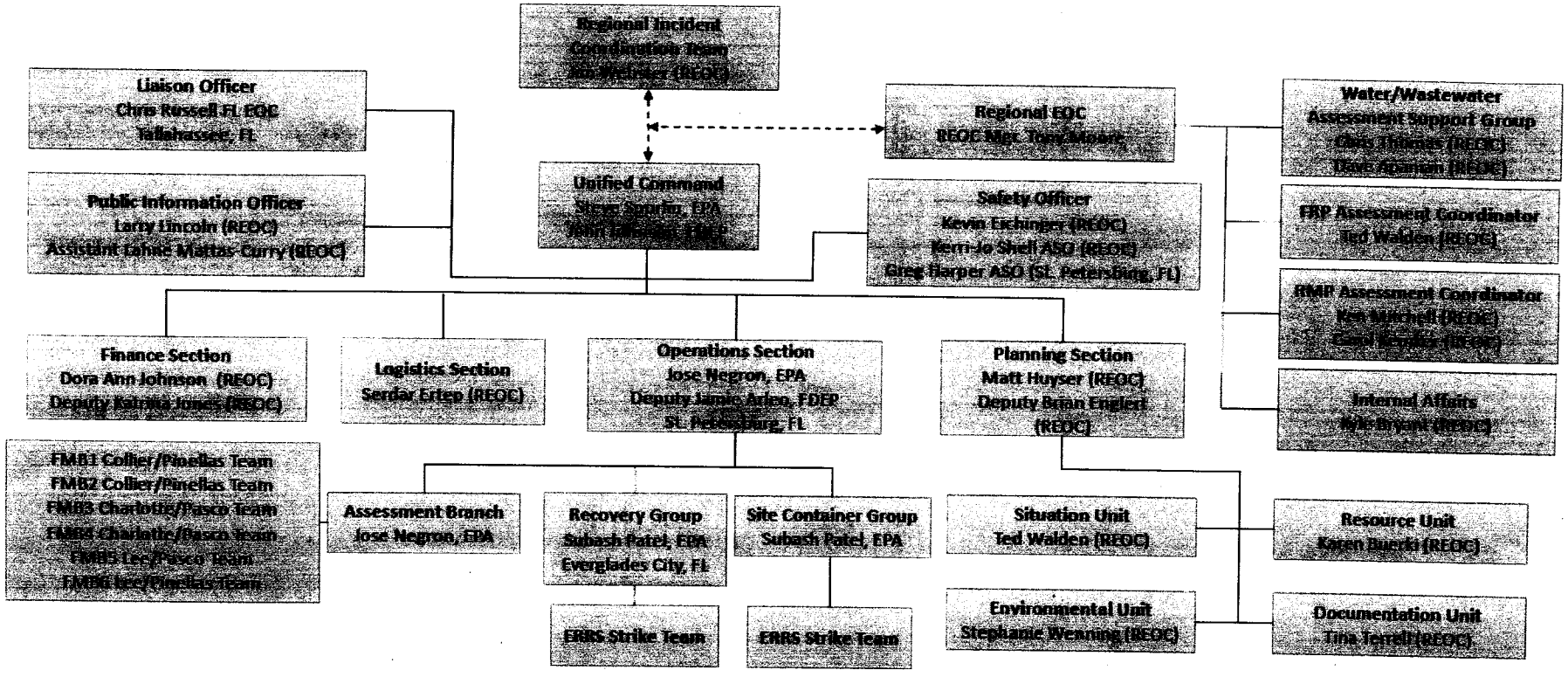
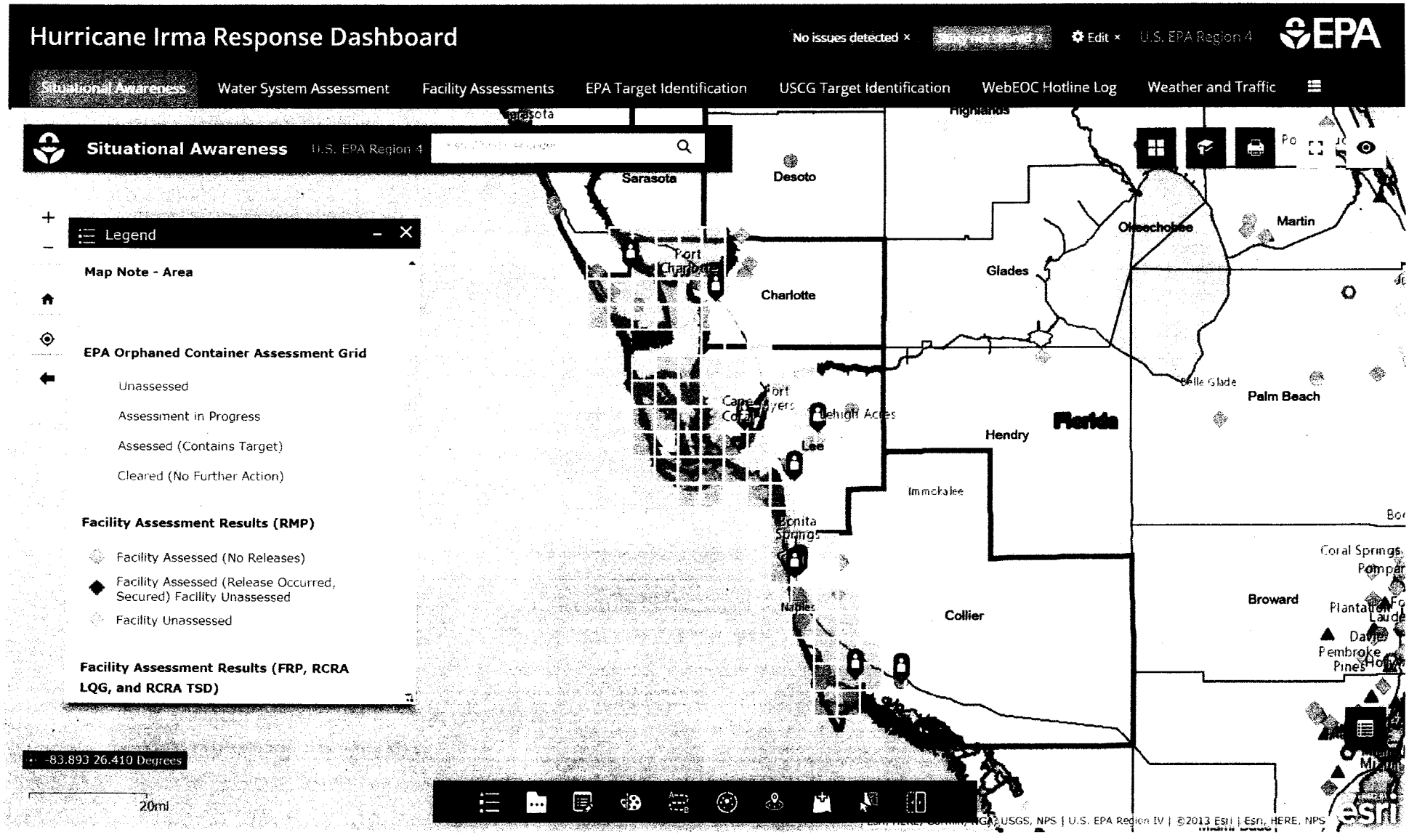


Figure 3
Screenshot of Orphan Container Assessment Dashboard



Hurricane Harvey/Irma/Maria Policy Coordinating Committee
(Deputy EOC Manager)

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**Agenda**
September 21, 2017

**Opening Remarks** Ryan Jackson
Barry Breen

**Situational Updates**

**For each situational update would you please address the following topic areas in addition to Regional/Program specific highlights:**

- **What are you being asked to do/support from our Federal, State and Local partners?**
- **Are there actions you are considering leaning forward on to address a need or expedite our response activities?**
- **Are there program policy, legal, or resource issues impacting your operations?**
- **Discussion of recovery efforts**

Region 2
Region 4
Region 3
Region 5
Region 7
OPA
OLEM

**Harvey Update** Region 6

**General Discussion**

**Next Meeting**

Hurricane Harvey 2017
9/21/2017 – 0700 CDT Update

## EXECUTIVE SUMMARY

- House of Representatives Speaker, Paul Ryan, is expected to visit the Houston Branch today, September 21, 2017. Dana Tulis, U.S. Coast Guard (USCG) Director of Incident Management and Preparedness Policy visited the Houston Branch yesterday.

- Today is the last day for response activities with no state cost-share. Cost-share increases to 10% at midnight tonight.

- EPA field activities will continue for the proper disposal of over 950 containers of miscellaneous materials, spill response, debris staging and landfill observation teams and community assistance program to share federal and state guidance to individuals that are dealing with potential hazards in damage or lost homes.

- State of Texas requested EPA oversight of asphalt emulsion spill from L.D. Construction Company in Jefferson County. The Responsible Party response to date is inadequate. Four homes have been impacted. EPA is also investigating a unknown sheen at the RV Trailer Resort in Pt. Arthur, Texas.

- Corpus Christi and Port Arthur/Beaumont Branches have transitioned all future assessment and recovery operations to the Texas Commission on Environmental Quality (TCEQ) Regional Offices and are sampling and dismantling the staging pads. EPA and the TCEQ are preparing transition memos for each Branch.

- The Houston Branch of Unified Command continues to stage, characterize, and consolidate orphan containers for proper disposal. The Port Arthur/Beaumont Branch has transferred all recovered containers and waste to the Houston Branch. The Houston Branch is projected to complete waste characterization by September 24, 2017, and all activities within 25 days.

- The TAGA teams completed monitoring near targeted facilities in all Branches yesterday. Both teams will demobilize today, September 21, 2017.

- EPA completed sampling of all 34 Texas Superfund sites potentially impacted by the storm plus 9 Louisiana Sites by September 15, 2017. EPA has released 35 of the 43 post-hurricane

Superfund site summaries based on preliminary data on the www.epa.gov/hurricane-harvey website.

- Community Liaison teams continue to provide information regarding returning to flooded areas and handling of house-hold waste in the counties of Dewitt, Gonzales, Goliad, Jefferson, Harris, Lee, Colorado, Fayette, Liberty, Galveston, Jasper, Newton, Calhoun, Victoria, Jackson, Lavaca, Polk, Hardin, Bastrop, Brazoria, and Karnes. The plan is for these teams to continue activities until October 23, 2017. The teams are listening to concerns from the community, associated with the recovery effort, and transferring this information back to County officials and the Joint Field Office (JFO), to the appropriate ESF contacts, where appropriate.

- The TCEQ has requested the Federal Emergency Management Agency (FEMA) to increase EPA's ESF-10 Mission Assignment an additional $3.3 million. Once fully approved, this will bring the total funding for assessment and response to $15.49 million.

## DEBRIS RECOVERY

Joint EPA and TCEQ field observation teams continue to observe debris staging and landfill operations within the hurricane impacted counties in Texas to ensure best practices and program requirements are being met. EPA observers visited 29 sites, with TCEQ, on September 20, 2017. The plan is for debris observation teams to continue for another 30 days. FEMA reported that 154 debris sites have been approved. Currently, FEMA estimates debris to total 17.5 million cubic yards. A federal Debris Management Taskforce has been established at the JFO in Austin and EPA is a member of the Taskforce. All observers noted that TCEQ is following their debris/landfill observation process, and TCEQ is having the sites address any issues to their satisfaction.

## AIR MONITORING

The TAGA teams completed monitoring ahead of schedule at the list of targeted facilities on September 20, 2017. The OSC, air technical support teams, and the two TAGAs will also demobilize today.

On September 20, 2017, TAGA Team 1 conducted air monitoring areas surrounding Valero Three Rivers Refinery in Three Rivers, Texas. No monitored readings exceeded the TCEQ Air Monitoring Comparison Values short-term screening levels.

Also yesterday, TAGA Team 2 conducted air monitoring in areas surrounding ExxonMobil Beaumont Colonial Storage, BASF Beaumont, Sunoco Hebert Terminal, Motiva Beaumont Terminal, Clark Port Arthur Pipeline Company, Beaumont Marine West Terminal, INVISTA Orange, Chevron Phillips Chemical - Polyethylene Plant, and Firestone Orange. No monitored readings exceeded the TCEQ Air Monitoring Comparison Values short-term screening levels.

On September 19, 2017, the TAGA Team 2 generator went down due to a broken fan belt. The mechanical issue did not affect the sensors or data. The crew repaired the generator. An initial calibration was done in the morning of September 19, 2017, but the end-of-day calibration used

for post processing could not be completed due to a lack of power. As a precaution, TAGA Team 2 re-monitored areas surrounding ExxonMobil Beaumont Refinery, ExxonMobil Beaumont Chemical Plant, Neches Terminal and Neches Terminal/Neches West, and ExxonMobil Beaumont Polyethylene on September 20, 2017. No monitored readings exceeded the TCEQ Air Monitoring Comparison Values short-term screening levels.

## FIELD RESPONSE ACTIVITIES

All targets have been assessed and recovered or closed. A total of 648 targets have been evaluated since the beginning of the response. The Hazard Evaluation/Recovery table will be discontinued in subsequent updates.

| Field Teams on 9/20/2017 | | | | |
|---|---|---|---|---|
| **Teams** | **Alpha** | **Bravo** | **Charlie** | **Total** |
| Hazard Evaluation | 0 | 1 | 2 | 3 |
| Hazard Evaluation Debris | 2 | 8 | 0 | 10 |
| Oil Discharge Assessment | 0 | 2 | 0 | 2 |
| ER/Orphan Container Recovery | 0 | 6 | 1 | 7 |
| Oil/Vessel Discharge Recovery | 6 | 0 | 0 | 6 |
| Staging Areas | 0 | 1 | 1 | 2 |
| Air Operations | 0 | 1 | 0 | 1 |
| Air Monitoring | 1 | 0 | 0 | 1 |
| Vessel Removal | 0 | 0 | 1 | 1 |
| **Totals** | **9** | **19** | **5** | **33** |

| Daily/Cumulative Summary of Hazard Evaluations/Recovery | | | | |
|---|---|---|---|---|
| **Status** | **Opened** | | **Closed** | |
| | **9/20/2017** | **Number of Targets Remaining Open** | **9/20/2017** | **Cumulative** |
| Corpus Christi Branch | 0 | 0 | 5 | 106 |
| Houston Branch | 0 | 0 | 3 | 402 |
| Port Arthur/Beaumont Branch | 0 | 0 | 0 | 135 |
| NRC Reports | 0 | 0 | 0 | 5 |
| **TOTALS** | **0** | **0** | **8** | **648** |

Note: All Open Targets have been evaluated and recovered or closed. This table will be discontinued in future updates. 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** | |
| | **9/20/17** | **Number of Facilities/Spills Remaining Open** | **9/20/17** | **Cumulative** |
| Corpus Christi Branch | 0 | 0 | 0 | 33 |
| Houston Branch | 0 | 0 | 0 | 77 |
| Port Arthur/Beaumont Branch | 0 | 3 | 0 | 23 |
| NRC Reports | 0 | 8 | 3 | 121 |
| **TOTALS** | **0** | **11** | **3** | **254** |
| 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. | | | | |

| Waste Received at All Staging Pads to Date | | | | | |
|---|---|---|---|---|---|
| | **CONTAINERS** | | | **Cylinders** | **TOTAL** |
| | **Drums [55 gals]** | **Small Containers [<55 gals]** | **Large Containers [>55 gals]** | | |
| **9/20/2017** | 4 | 0 | 6 | 0 | 10 |
| **TOTAL TO DATE** | **427** | **397** | **43** | **120** | **987** |

| Items/Materials Processed for Disposal | | | | | | |
|---|---|---|---|---|---|---|
| | **Drums [55gal]** | **Small Containers [< 55gal]** | **Large Containers [> 55gal]** | **Cylinders** | **Solid Waste/Roll Off Box** | **Total Scrap Metal Recycled (lbs)** |
| Total received at all Staging Pads as of 9/20/17 | 427 | 397 | 43 | 120 | 3 | 2,453 |
| **Processed for Disposal** | | | | | | |
| Total processed for disposal as of 9/20/17 | 173 | 241 | 19 | 52 | 1 | |
| Remaining to be Processed for Disposal | 254 | 156 | 24 | 68 | 2 | |
| **Percent Remaining** | **59%** | **39%** | **56%** | **57%** | **67%** | |

CORPUS CHRISTI BRANCH:

Oil/Vessel Discharge Recovery Teams closed four targets and opened one in Rockport and Key Allegro.

HOUSTON BRANCH:

The Water Task Force recovered four totes within the vicinity of the San Jacinto Reserve and Houston Ship Channel. The Hazard Evaluation Group assessed a target in Huffman but could not locate the container.

All containers from the Port Arthur/Beaumont staging area have been received. Approximately 30 containers were sampled and approximately 20 containers were field screened for hazardous categories. Operations ceased for the day at 16:50 hours due to severe weather.

PORT ARTHUR/BEAUMONT BRANCH:

All targets at Charlie Branch have been cleared. However, the following oil spill responses were conducted at the request of TCEQ:

- LD Construction Spill, Lumberton, Texas: TCEQ requested EPA assistance with oversight of a Responsible Party (RP) led cleanup of an oil spill that resulted from flooding caused by Hurricane Harvey. On September 20, 2017, TCEQ requested assistance because the RP has not yet responded adequately. The amount of thick oil used for asphalt application that was spilled is unknown. The TCEQ has visited the site three times since being notified on September 6, 2017. EPA contacted the facility manager to verbally issue a Notice of Federal Interest and will issue a hardcopy today, September 21, 2017. EPA will further evaluate the RP response to determine what further actions are necessary.

- Port Arthur Pipeline Spill, Port Arthur, Texas: On September 19, 2017, TCEQ received a report of a waterline break with an apparent oil sheen at the Port Arthur RV Resort. The report alleged that the break occurred on August 31, 2017. On September 20, 2017, TCEQ drinking water responders arrived on the scene and determined the release was not from the city water supply. TCEQ requested assistance and the Texas Railroad Commission (RRC) responded to the scene with EPA. EPA and RRC discovered the material flowing into a retention pond and possibly Taylor Bayou. RRC identified two pipelines that run under the property but no responsible party has been identified. Representatives from Motiva Refinery responded to conduct air monitoring and assessment; they determined it was not one of their pipelines. USCG contractors responded to place boom and sorbent pads until further assessment and appropriate response can be conducted today, September 21, 2017.

## FUNDING

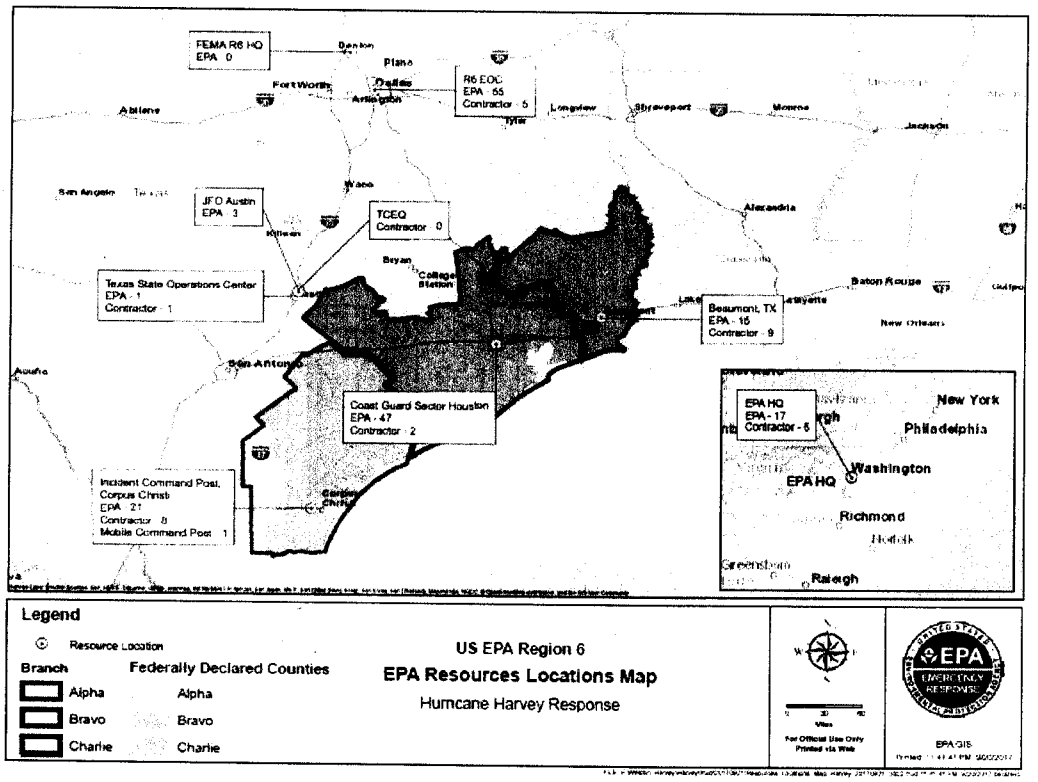
### September 20, 2017, UPDATED 1300 hours

| Funding Sources | Funding Ceiling | Funding Ceiling Less Indirect | Obligated to Date | Estimated Spent to Date | Unobligated Dollars Remaining | Estimated Unspent Dollars Remaining | 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 | $62,592.00 | $62,592.00 | $180,149.00 | $180,149.00 | $4,064.00 | 44.33 |
| MA 4332DR-TX-EPA-03 | $12,192,000.00 | $10,761,763.00 | $8,453,740.41 | $6,123,346.16 | $2,467,640.59 | $4,924,656.34 | $257,120.26 | see below |
| Totals: | $12,467,000.00 | $11,004,504.00 | $8,516,332.41 | $6,250,138.16 | $2,647,789.59 | $5,040,805.34 | | |
| Days remaining based on authorized direct ceiling minus total payroll, travel, and contracts EXPENDED | | | | | | | | 19.15 |
| Days Remaining based on authorized ceiling minus total payroll, travel, and contract OBLIGATIONS | | | | | | | | 10.3 |

NOTE: This report includes estimated cumulative costs of the HQ EOC charging under MA#03 (09/16/17)

## 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 | 3 | 1 | 0 | 47 | 22 | 15 | 17 | 160 |
| START | 6 | | | 1 | 0 | 2 | 8 | 9 | | 26 |
| ERRS | | | | | | 20 | 2 | 15 | | 37 |
| Other Contractors | | | | | | | | | 6 | 6 |
| TOTAL | 61 | 0 | 3 | 2 | 0 | 69 | 32 | 39 | 23 | 229 |




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

- EPA either directed potentially responsible parties (PRPs), or independently, began collecting samples at 34 Texas Superfund Sites and 9 Louisiana Sites to confirm no releases due to storm impacts. Six EPA field teams, along with PRPs, have completed sampling at all 43 sites. The sampling is part of a longer term assessment that will be used to transition sites back to normal cleanup operations.

- Review of preliminary data packages continues and will be reported as they are completed. Final data packages are expected within two weeks.

- All 43 Federal Superfund NPL Sites in the hurricane affected area have been assessed. Of these, 42 sites have been cleared. The San Jacinto Waste Pits requires additional follow up.

- San Jacinto Waste Pits Update: The Responsible Party submitted, and EPA approved the cap repair work plan on September 15, 2017. The RP began maintenance work on September 16, 2017.

**Photo Log**

**Houston Branch**
**Orphan Container Sampling**

# Hurricane Irma/Hurricane Maria 2017
# 9/21/2017 – 1030 EDT Update

## EXECUTIVE SUMMARY

- USVI – There are reports of widespread damage on St. Croix as a result of Hurricane Maria. EPA OSC on STX reports intermittent email and phone service. Very severe tree and power pole damage. The cargo section of the airport destroyed. Roads barely passable. Some are not. OSC performed an assessment of Limetree Bay terminals. They have no catastrophic damage. They did lose about a barrel of oil from the API into the west lagoon and they conducted a cleanup on 9/20. The tanks and lines held although they are some dents and dings. The terminal has no requests for assistance at this time. Initial assessments are ongoing.

- PR – The storm made landfall at Yabucoa in Puerto Rico's southeast shortly after 6 a.m. 9/20 with winds as strong as 155 m.p.h. It had crossed the United States Virgin Islands as a Category 5 storm, then weakened to a Category 4 storm as it passed over PR. The eye of the hurricane left Puerto Rico at noon between the coast of the municipalities of Barceloneta and Arecibo. Power is out throughout the island. Initial assessments are ongoing. The Governor said: "Our island is destroyed."

- On 9/20, The President has signed a Disaster Declaration FEMA-4340-DR for the Territory of the U.S. Virgin Islands for Hurricane Maria.

- FEMA is designating Hurricane Maria operations a Level 1 incident. On 9/20 at 8am, FEMA transitioned incident support duties from the Regional Response Coordination Staff (RRCS) to the National Response Coordination Staff (NRCS). To support this transition, R2 incident support responsibilities shifted from the Regional Response Coordination Center (RRCC) to National Response Coordination Center (NRCC).

- EPA Region 2 sent RRCC ESF #10 staff to EPA HQ on 9/19 to assist the EPA ESF #10 desk in the FEMA NRCC in Washington D.C.

- EPA USVI/PR response personnel are re-positioned on the U.S. mainland. The exceptions are: an EPA Rep is in St. Croix at the FEMA Bunker with the IOF staff and FEMA IMAT leadership. EPA CEPD personnel and responders sheltered in place in the USVI and PR. The Region is communicating with CEPD leadership and the OSCs on St. Croix, USVI and PR.

- Satellite communications have been strategically placed with personnel remaining in the U.S. Caribbean. We have developed a communications plan and communications schedule with the employees left in PR and USVI. We are continuing to conduct

communication checks and status/ground condition updates with personnel in the USVI and PR.

- **EPA's Re-Deployment to PR/USVI**. FEMA flights will be available from Atlanta back to PR/USVI after Maria passes (estimated Friday-Monday). EPA will have personnel on the following two opportunities.
    - Six seats reserved for two teams of three responders who will go and assess priority drinking water and waste water facilities in the USVI. Priorities will include those servicing hospitals and sensitive populations. This group would leave 24 hours after the storm passes. Flight expected to leave on 9/22.
    - Twenty seats are reserved for EPA responders to return to the USVI. Flight expected to leave on 9/23 or 48 hours after storm passing.
- All flight times and where they arrive (USVI or PR) will depend on the condition of airports post-Maria. Lodging has also been requested through FEMA once responders arrive in the USVI or PR.
- Other Significant Concurrent Events.
    - 72nd United Nations General Assembly is in session from 9/12-25/2017.
    - We continue to monitor the track of Hurricane Jose, which is expected to remain well offshore as it moves north along the eastern US coastline.
    - We continue to monitor the northern track of Hurricane Maria for potential impacts/interaction with Hurricane Jose on the East Coast.

## PUERTO RICO / U.S. VIRGIN ISLANDS CONDITIONS

**US Virgin Islands** (USVI):

- No deaths reported at this time.
- State of Emergency declared; National Guard activated.
- Power Outages: Unknown
- Public schools remain closed
- Curfew remains in effect from 6pm to 6am until 9/23
- St. Thomas and St. Croix Airports closed until 9/21.

- Public transit not operational in St. Thomas and St. John
- Ferry service between St. Thomas and St. John suspended
- Existing damage to roads in St. Croix and St. John from Irma; Assessments and debris removal to resume weather permitting

**Puerto Rico** (PR):

- No deaths reported at this time
- State of Emergency remains in effect; National Guard activated.
- Airports: 6 are closed and 4 are opened. San Juan Airport closed
- Ferry service, heavy rail, and bus transit suspended until further notice
- Power Outages: There are reports of 100% outage. Two of PREPA's major transmission lines -one of 230,000 volts and other of 115,000 volts- are down
- Curfew in effect from 6pm to 6am.
- Hurricane Maria broke two National Weather Service radars on the island.
- Several major highways and streets blocked by fallen trees and light posts and poles.
- PRASA's office building was severely impacted (major damages).
- 80% of the Juanamatos EJ community in Cataño completely destroyed.
- The following municipalities already reported major floods and destruction: Loíza, Canóvanas, Río Grande and Toa Baja.

## PUBLIC AFFAIRS

The PIO is Elias Rodriguez, who can be reached at 212-637-3664. The Assistant PIO through September 21 is Emily Bender. She can be reached at 617-918-1037. All press inquiries are being managed through the Office of Public Affairs.

The Office of Public Affairs issued a news release "EPA Hurricane Maria Preparation, Irma Recovery Update for September 20, 2017". We continue to provide all Region 2 staff with relevant Irma / Maria news clips and EPA news releases. Beginning September 21, the Office of Public Affairs will issue separate Harvey, Irma and Maria response news releases. Region 2 PAD will draft the Maria response news release for OPA.

The response web site at www.epa.gov/hurricane-irma is now being managed primarily Region 4. The response web site www.epa.gov/hurricane-maria is now live, with content being created and posted by the HQ EOC and Region 2 PIO and others in the REOC. We continue to coordinate with ERT and Region 4 on an Irma story map.

Community Involvement: The PIO and PAD management have identified PIOs, Community Involvement Coordinators and community relations support for the REOC, Caribbean EOC(s) and USVI and Puerto Rico assessment and cleanup teams. Resource requests for these personnel are being processed and will be ready when we get the green light for deployment.

**Region 2 – Hurricane Irma Management Objectives**

- Protect the health and safety of EPA employees during re-deployment to VI and PR in the aftermath of Hurricane Maria.
- Implement a re-position plan to address communications schedules, employee location information, rallying points, and a cellular and satellite communication plan.
- Coordinate with FEMA on the re-position and remobilization of EPA responders.
- Implement a re-mobilization plan.
- Minimize social, political, and economic adverse impacts.
- Maintain communication and briefing schedule with R2 senior executives and EPA Headquarters. Support a consistent communications approach agency-wide, enabling EPA to act and speak in unison during these incidents.
- Provide situation reports and other information on schedule provided by RIC.
- Provide guidance for length of work day and deployments as it pertains to this specific event.
- Coordinate logistics with deployed personnel to provide transportation options, lodging, security, ground transportation on site.
- Identify clearly defined roles for both Regions and Headquarters.
- Identify long-term recovery objectives the Agency may be requested to support, and determine resources needed to support/sustain those requests to accomplish the objectives.

Once re-deployed teams are on the ground in PR and the USVI:

- Secure all NPL and removal sites. Regulated facilities and Superfund and oil sites will be surveyed prior to storm fall if a land impact is expected
- Identify vulnerabilities at regulated facilities
- Address any immediate hazardous substance releases or oil spills resulting from the storm's impact
- Assist state and local agencies in ensuring safety of drinking water systems.
- Monitor air quality when/if necessary in response to conditions on the ground.
- Provide guidance for length of work day and deployments as it pertains to this specific event
- Coordinate logistics with deployed personnel to provide transportation options, lodging, security, ground transportation on site;
- Coordinate national resources to assist the Region;
- Identify clearly defined roles for both Regions and Headquarters;

- The response will use the Region's incident specific Data Management Plan (DMP);
- In collecting, sharing, and analyzing environmental data, EPA will give primacy to data with potential human health consequences;
- EPA will work to ensure that its decision-makers have access to the data and expertise they need to make decisions based on sound science.

## DEBRIS RECOVERY

No activities to report.

## AIR MONITORING

No air monitoring activities.

## EMERGENCY RESPONSE

| Daily/Cumulative Summary of Hazard Evaluations/Recovery | | | | |
|---|---|---|---|---|
| Status | Opened | | Closed | |
| | 9/20/2017 | Cumulative | 9/20/2017 | Cumulative |
| Puerto Rico | 0 | 0 | 0 | 0 |
| U.S. Virgin Islands | **0** | 2 | 0 | **2** |

Note: Open means that the target is yet to be recovered. Closed means the target was recovered, left in place, or access was denied to collect the item. The facilities on the USVI are associated with the request for mold assessment of the STT airport tower and the current oil spill at Total.

| Daily/Cumulative Summary of Spills/Discharges | | | | |
|---|---|---|---|---|
| Status | Opened | | Closed | |
| | 9/20/2017 | Cumulative | 9/20/2017 | Cumulative |
| Puerto Rico | **0** | 3 | **0** | 3 |
| U.S. Virgin Islands | 0 | 1 | 0 | 1 |

## SUPERFUND NPL, SUPERFUND REMOVAL, AND OIL REMOVAL SITES

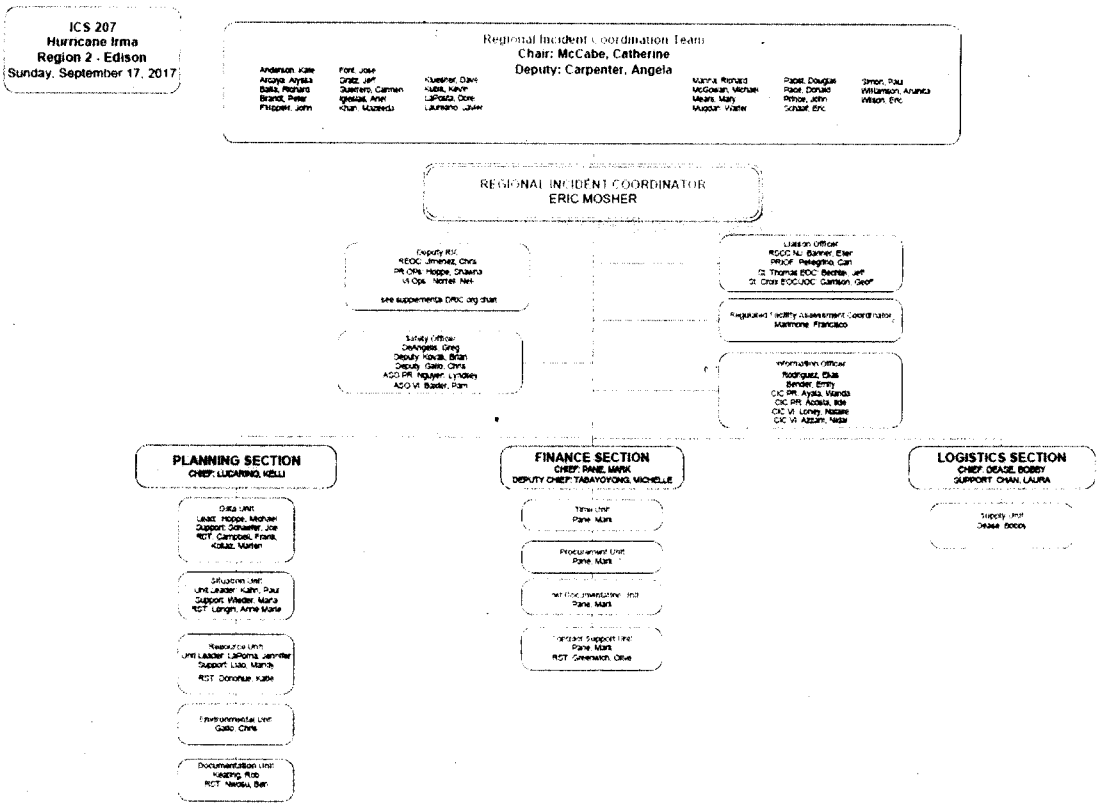
Preparations are underway to re-assess Superfund and oil sites in PR and the USVI as part of the Region's re-deployment plan. Re-assessment planning/implementation is on-going.

| SUPERFUND SITES (NPL, Removal and Oil) PUERTO RICO | | | | | | |
|---|---|---|---|---|---|---|
| Site | Type | Phase 1 | Phase 2 | | Phase 3 | All Phases Completed |
| | | Post-Storm Assessment | Site Inspe :tion Needed | Inspected | Additional Response Action | |
| Atlantic Fleet Weapons | NPL | | | | | |
| Juncos Landfill | NPL | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Upjohn Facility | NPL | | | | | |
| Arecibo Battery Recycling Corp. | Removal & NPL* | | | | | |
| Corozal Battery | Removal & NPL* | | | | | |
| Cabo Rojo Groundwater | NPL | | | | | |
| Cidra Groundwater | NPL | | | | | |
| Dorado Groundwater | NPL | | | | | |
| Fibers Public Supply Wells | NPL | | | | | |
| Hormigas Groundwater | NPL | | | | | |
| Maunabo Urbano Public Wells | NPL | | | | | |
| Papelera Puertoriquena, Inc. | NPL | | | | | |
| Pesticide Warehouse 1 | NPL | | | | | |
| Pesticide Warehouse III | NPL | | | | | |
| San German Groundwater | NPL | | | | | |
| Scorpio Recycling | NPL | | | | | |
| Vega Alta Public Supply Wells | NPL | | | | | |
| Vega Baja Solid Waste Disposal | NPL | | | | | |
| Guayanilla Bay Oil Spill | Oil Response | | | | | |
| Puma Caribe (CAPECO) | Oil Response | | | | | |
| **U.S. VIRGIN ISLANDS** | | | | | | |
| TUTU Well Field | NPL | | | | | |
| Krum Bay Oil Spill at WAPA Facility | Oil Response | | | | | |
| Cruz Bay Oil Tank | Oil Response | | | | | |

* These are Sites that have both, a Removal and Remedial program action. Only one assessment will be conducted per Site.

## REGION 2 RESPONSE ORGANIZATION (ICS 207)




## FIELD RESPONSE ACTIVITIES

## PUERTO RICO

- Teams are preparing to re-deploy to Puerto Rico in accordance with our EPA Region 2 Mobilization and Resource Plan.

- Hazardous Material Assessment Team and Critical Water Assessment Team scheduled to be airlifted to PR 9/22

## U.S. VIRGIN ISLANDS

- Teams are preparing to re-deploy to the USVI in accordance with our EPA Region 2 Mobilization and Resource Plan.

- St. Croix: Numerous gas stations destroyed, leading to potential environmental concerns; physical assessment by EPA required to assess possible impacts. EPA reporting concerns of spilled diesel fuel trucks, heavily damaged cruise ship, and damage at propane depot pier

## REGION 2 REGIONAL EMERGENCY OPERATIONS CENTER (REOC)

- Assisted PR Department of Natural and Environmental Resources (DNER) preparing draft RRF to request EPA direct assistance to address the hazmat and oil mission once Hurricane Maria passes. EPA will assist DNER with the processing of the RRF.

- Re-deployment/mobilization plan is being implemented for EPA response personnel and resources.

- FEMA flights are available from Atlanta to PR/VI (estimated Friday-Monday). For the near-term, EPA will deploy personnel as follows:

    - Six seats reserved for two teams of three responders who will go and assess priority drinking water and waste water facilities in the USVI. Priorities will include those servicing hospitals and sensitive populations. This group would leave 24 hours after the storm passes. Flight expected to leave on 9/22,

    - Twenty seats are reserved for EPA responders to return to the USVI. Flight expected to leave on 9/23 or 48 hours after storm passing.

- All flights and where they arrive (USVI or PR) will depend on the condition of airports post-Maria. Lodging has also been requested through FEMA once responders arrive in the USVI or PR.

The table below displays the teams that have been deployed based on the assessment results in Puerto Rico or the USVI.

| **Quantity and Types of Teams Deployed 9/20/2017** | | |
|---|---|---|
| **Team Type** | **Puerto Rico** | **U.S. Virgin Islands** |
| Assessment Team – All Missions | 0 | 0 |
| Water Assessment | 0 | 0 |
| Hazard Evaluation | 0 | 0 |
| Oil Discharge Assessment | 0 | 0 |
| Container Recovery | 0 | 0 |
| Oil Recovery | 0 | 0 |
| ER/Recovery | 0 | 0 |
| Air Operations | 0 | 0 |
| Contaminated Debris | 0 | 0 |
| Operation Centers (REOC), PREOC, VITEMA, PR IOF, VI IOF | 1 (PR IOF) | 1 (STX VITEMA/FEMA Bunker) |

- 

**PUERTO RICO**

| | **CONTAINERS** | |
|---|---|---|

| | | | | TOTAL |
|---|---|---|---|---|
| | Drums (55 Gals) | Large Containers (<55 gals) | Large Containers (>55 gals) | |
| 9/20/2017 | 0 | 0 | 0 | 0 |
| Total to Date | 0 | 0 | 0 | 0 |

**U.S. VIRGIN ISLANDS**

| | CONTAINERS | | | TOTAL |
|---|---|---|---|---|
| | Drums (55 Gals) | Large Containers (<55 gals) | Large Containers (>55 gals) | |
| 9/20/2017 | 0 | 0 | 0 | 0 |
| Total to Date | 0 | 0 | 0 | 0 |

## AGENCY COORDINATION

FEMA designated Hurricane Maria operations a Level 1 Incident. On 9/20 at 8AM, FEMA transitioned incident support responsibilities from the Regional Response Coordination Staff (RRCS) to the National Response Coordination Staff (NRCS). The NRCS will now direct and support the deployed National Incident Management Assistance Team (IMAT) and the Unified Coordination Group (UCO). This process will help to facilitate the movement of regional personnel into their assigned incident management positions as quickly as possible to meet incident needs following a Level 1 incident.

To support this transition, incident support responsibilities shifted from the Regional Response Coordination Center (RRCC) to the National Response Coordination Center (NRCC). The RRCC stood down on 9/20. Region 2 sent one rep to staff the RRCC ESF-10 desk in the FEMA NRCC in Washington D.C.

EPA has an OSC in the VITEMA/FEMA EOC bunker in St. Croix.

Two vessels, both named Paragon, are adrift near USVI; three tug vessels remain in the area monitoring the status

PR: Buckeye Partners requesting clearance from Port Authority to fly a strike team into PR to conduct damage evaluations of Yabucoa Buckeye Global Marine Terminal hazardous materials facility; facility stores up to 4.6 million barrels of petroleum and 25% of the gasoline and diesel for the island

When air traffic resumes post-storm, USCG will re-deploy eight National Strike Force (NSF) personnel and 18-foot shallow water boat from Clearwater, FL, and eight additional NSF personnel from PR to St. Thomas and St. Croix to resume ESF-10 activities

## SPILL/RELEASE RESPONSE

| Hotline Calls as of September 20, 2017 | |
|---|---|
| **Number of Irma Related Calls Received During Reporting Period 1300-0100** | 0 |
| **Total Number of Irma Related Calls to Date** | 5 |
| *** EPA is assessing each call through the NRC to determine appropriate response and forwarding reports to field personnel to conduct further assessments and response as** | |

## DRINKING WATER / WASTEWATER

No new Information to report

## REGULATED FACILITIES

The Regulated Facility Team (RFT) has temporarily suspended monitoring regulated facilities. All RMP, SPCC, and FRP facilities have responded to the post-Irma questionnaire, and as such the RFT will focus on regulated facilities impacted by Hurricane Maria.

In preparation for Hurricane Maria, the RFT sent a pre-storm assessment email on 9/18 to 197 RMP, FRP, and SPCC facilities in PR and the USVI. This pre-storm email: 1) reminded facilities to implement storm preparation procedures, 2) provided technical information regarding spill and release reporting, and 3) asked potentially compromised facilities to identify themselves for facility-specific compliance assistance.

The Regulated Facility Assessment Coordinator (RFAC) has discussed pre-storm and post-storm assessment activities with other Region 2 inspection programs, including UST, Federal Facilities, RCRA, and NPDES.

The RFT is prepared to conduct facility assessment work in the USVI and PR in the aftermath of Hurricane Maria.

## PUERTO RICO

| Facility Type | Sites Identified | Pre-Storm Remote Assessment | Post Storm Remote Assessment | Post Storm Field Assessment | Follow-up Action Required |
|---|---|---|---|---|---|
| **RMP** | 56 | 56* | 0 | 0 | 0 |
| **FRP** | 22 | 22* | 0 | 0 | 0 |
| **SPCC (non-FRP)[#]** | 232[#] | 232[#]* | 0 | 0 | 0 |

| | | | | | |
|---|---|---|---|---|---|
| **Total** | 310# | 310# | 0 | 0 | 0 |

## U.S. VIRGIN ISLANDS

| Facility Type | Sites Identified | Pre-Storm Assessment | Post Storm Assessment | Post Storm Field Assessment | Follow-up Action Required |
|---|---|---|---|---|---|
| **RMP** | 1 | 1* | 0 | 0 | 0 |
| **FRP** | 6 | 6* | 0 | 0 | 0 |
| **SPCC (non-FRP)µ** | 57# | 57#* | 0 | 0 | 3 |
| **Total** | 64# | 64# | 0 | 0 | 3 |

## EPA RESOURCES

The following chart shows deployments that were repositioned *prior to* Hurricane Maria. As of 9/19 all EPA and contractor responders in the Caribbean have been repositioned to the Mainland US, except for one OSC remaining in the St. Croix, USVI FEMA bunker, one EPA employee who resides in St. Thomas, USVI and is sheltering in place, two OSCs who reside on Puerto Rico and are sheltering in-place, and one CIC who is visiting family on PR.

| Personnel | EPA Edison, NJ NYC San Juan, PR^ | FEMA RRCC Colts Neck, NJ | Puerto Rico Deployments* | USVI Deployments* | Totals |
|---|---|---|---|---|---|
| **EPA** | 58 | 1 | 4 | 2 | 65 |
| **START/ RST** | 8 | 0 | 2 | 0 | 8 |
| **ERRS** | 6 | 0 | 0 | 0 | 6 |
| **Other Contractors** | 0 | 0 | 0 | 0 | 0 |
| **Totals** | 72 | 2 | 5 | 2 | 79 |

*One person on STT and one person on STX.
^Number includes personnel in the REOC, RICT, and CEPD personnel that are working the response.

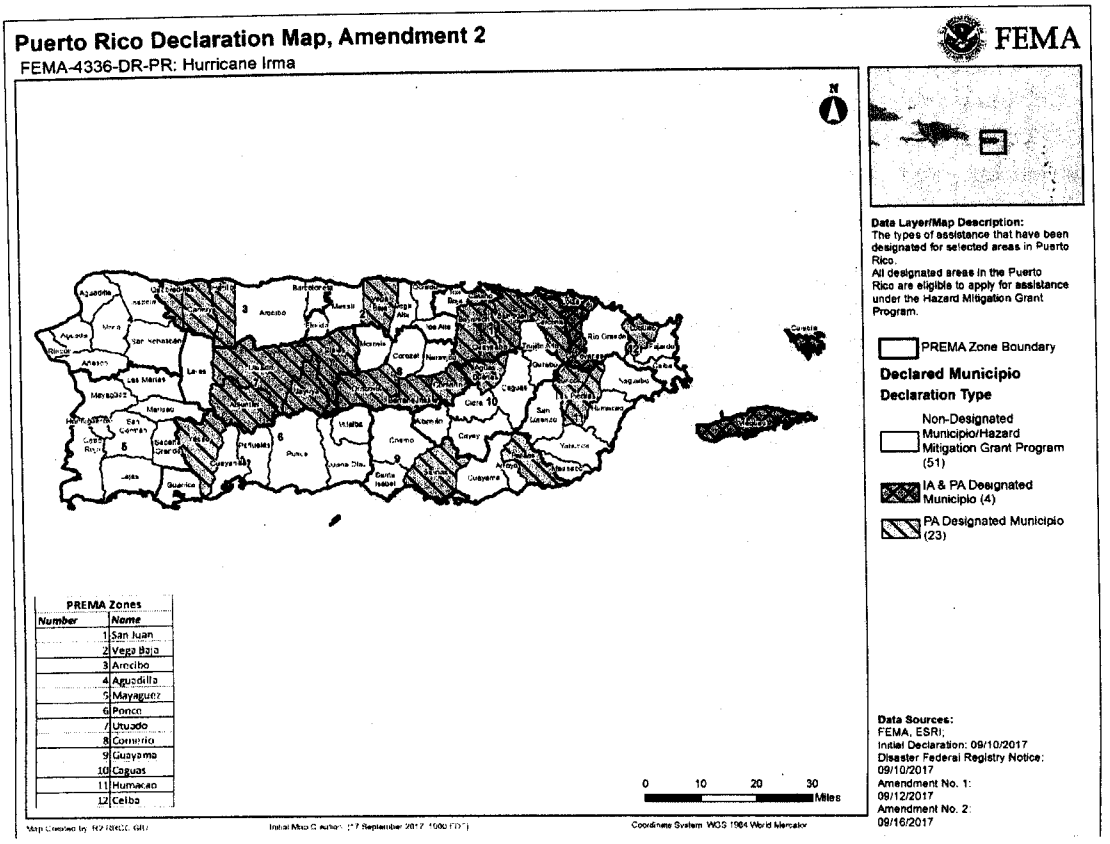
## DECLARATIONS FOR HURRICANE IRMA

### Puerto Rico.

Emergency Declaration FEMA-3384-EM effective September 5. Assistance is for all 78 municipalities in the Commonwealth of PR. The Governor of Puerto Rico requested a disaster declaration 9/8.

Disaster Declaration FEMA-4336-DR effective September 9. Declared areas only include Culebra and Vieques. On 9/13 ten additional municipalities in Puerto Rico were added to the major declaration, and are now eligible for work under any DFA MA's that we receive. The municipalities are: Adjuntas, Canovanas, Carolina, Guaynabo, Juncos, Loiza, Luquillo, Orocovis, Patillas, and Utuado.

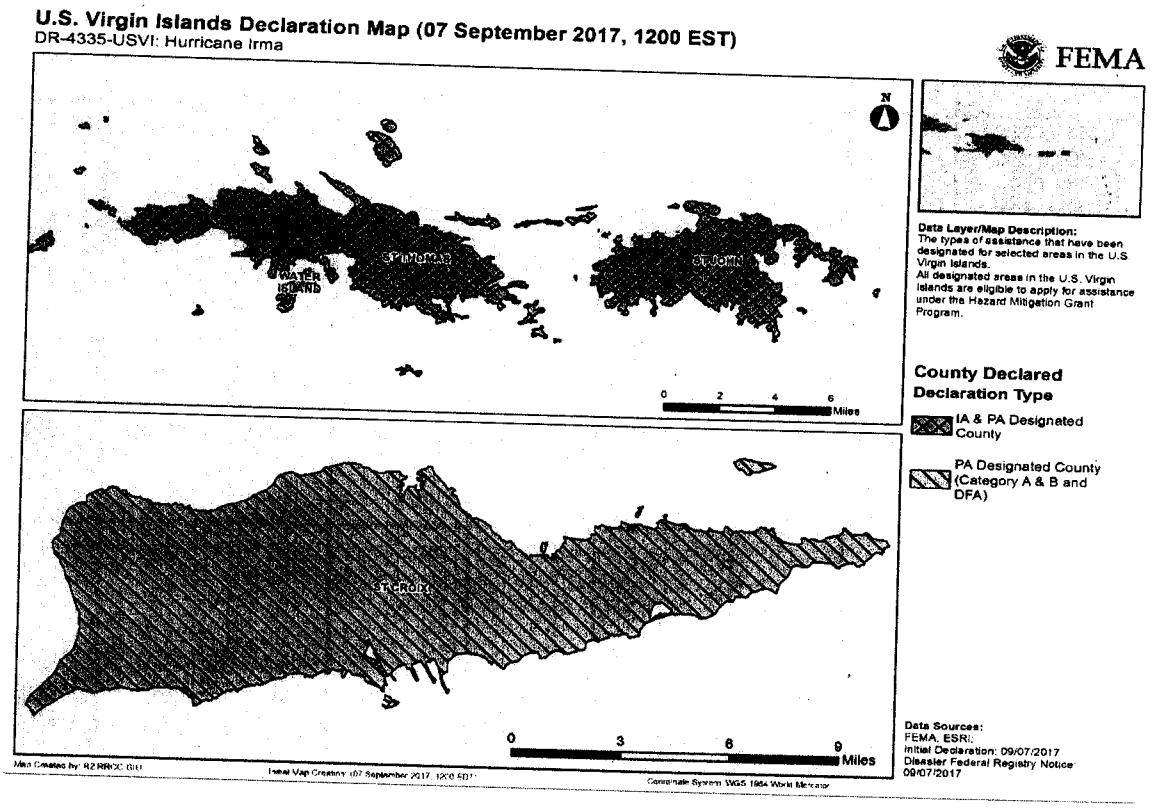
On 9/15, fifteen additional municipalities were added to the major declaration and are now eligible for Public Assistance. The municipalities are: Aguas Buenas, Barranquitas, Bayamón, Camuy, Cataño, Ciales, Comerío, Hatillo, Jayuya, Las Piedras, Quebradillas, Salinas, San Juan, Vega Baja, and Yauco.




**U.S. Virgin Islands.**

Disaster Declaration FEMA-4335-DR effective September 7, 2017. St. Thomas and St. John approved for Individual Assistance, all islands eligible for Public Assistance and the Hazard Mitigation Grant Program.

Emergency Declaration FEMA-3383-EM effective September 5. Assistance is for all islands in the Territory of the USVI.




## DECLARATIONS FOR HURRICANE MARIA

### Puerto Rico.

Emergency Declaration. The President has signed Emergency Declaration FEMA-3391-EM for Puerto Rico.

### U.S. Virgin Islands.

Emergency Declaration. The President has signed Emergency Declaration FEMA-3390-EM for the Territory of the U.S. Virgin Islands for Hurricane Maria.

On 9/20, The President has signed a Disaster Declaration FEMA-4340-DR for the Territory of the U.S. Virgin Islands for Hurricane Maria.

## FUNDING FOR IRMA AND INITIAL FUNDING FOR MARIA

| Mission Assignment Number | Purpose | Start Date | End Date | Total Amount | Indirect Costs | Amt. Available | Daily Burn Rate | Used | Balance |
|---|---|---|---|---|---|---|---|---|---|
| VI-17090102-EPA-01 | EPA to FEMA R2 RRCC (Colts Neck, NJ) | 9/2/17 | 9/11/17 | $10,000 | $1,046 | $8,954 | $0 | $8,954 | $0 |
| 4335DR-VI-EPA-01 | EPA to FEMA R2 RRCC (Colts Neck, NJ) and | 9/7/17 | 10/7/17 | $100,000 | $10,466 | $89,534 | $1,200 | $23,196 | $66,338 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | FEMA NRCC (Washington, DC) | | | | | | | | |
| 3383EM-VI-EPA-01 | EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA & NRA Teams and other coordination venues | 9/7/17 | 9/16/17 | $75,000 | $7,850 | $67,150 | $0 | $67,200 | $0 |
| 4335DR-VI-EPA-02 | Assess oil & hazmat releases, contaminated debris & other environmental events in VI | 9/7/17 | 9/30/17 | $508,000 | $53,170 | $454,830 | $35,000 | $345,600 | $109,230 |
| 4335DR-VI-EPA-04 | Removal, cleanup and disposal of oil & hazmat; collect and dispose of HHW; monitor immediate threats to public H&S and the environment in the VI | 9/13/17 | 10/13/17 | $10,000,000 | $1,046,646 | $8,953,354 | $0 | $0 | $8,953,354 |
| 4335DR-VI-EPA-06 | EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA & NRA Teams and other coordination venues | 9/2/17 | 10/13/17 | $2,000,000 | $209,329 | $1,790,671 | $19,200 | $416,000 | $1,374,671 |
| PR-17090102-EPA-01 | EPA to FEMA R2 RRC and other coordination venues as necessary | 9/1/17 | 9/11/17 | $20,000 | $2,093 | $17,907 | - | $17,907 | $0 |
| 3384EM-PR-EPA-01 | EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA and NRA Teams and other coordination venues | 9/6/17 | 9/16/17 | $75,000 | $7,850 | $67,150 | $12,000 | $64,800 | $2,350 |
| 3384EM-PR-EPA-03 | Assess oil & hazmat releases, contaminated debris & other environmental events in PR | 9/9/17 | 9/30/17 | $508,000 | $53,170 | $454,830 | $12,000 | $139,200 | $315,630 |
| 4336DR-PR-EPA-01 | EPA to FEMA RRCC. Funding for EPA | 9/10/17 | 10/10/17 | $100,000 | $10,466 | $89,534 | $12,000 | $58,800 | $30,734 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | command centers is authorized. | | | | | | | | |
| | | | | | Grand Total | $11,993,914 | N/A | $1,141,657 | $10,852,307 |

**Note regarding MA 4335DR-VI-EPA-06: $50,000 was allocated to the USEPA HQ EOC, from MA 4335DR-VI-EPA-06, to supplement costs incurred during the Hurricane Irma response.**

## FUEL WAIVERS

Fuel waivers are not needed for PR or USVI.

## LONG RANGE PLANNING

- **National Disaster Recovery Framework (NDRF) Activities.** FEMA has begun long range recovery planning and is in contact with the EPA Office of the Administrator's (OA) disaster recovery coordinator. The Acting Regional Administrator is Region 2's Federal Disaster Recovery Coordinator with CASD providing support. CASD is in communication with the OA and is working with CEPD and the other divisions to identify Region 2 contacts for the six Recovery Support Function (RSF) areas: 1.) Community Planning and Capacity Building, 2.) Economic Recovery, 3.) Health and Social Services, 4.) Housing Recovery, 5.) Infrastructure Systems, and 6.) Natural and Cultural Resources. This work will assist the Agency to identify potential recovery challenges and plan for resiliency. EPA Region 2 disaster response and recovery personnel are coordinating and will share our Irma data collection and results of our assessment efforts.

- **Hurricane Maria.** On 9/21 at 0500 hrs, the large eye of Hurricane Maria was located about 70 miles north of Punta Cana, Dominican Republic. Maria is moving toward the NW near 9 mph and this general motion is expected through tonight. A turn toward the N-NW is forecast on Friday. On the forecast track, the eye of Hurricane Maria will continue to pass offshore of the NE coast of the Dominican Republic today. Maria should then move near the Turks and Caicos Islands and the SE Bahamas tonight and Friday. Maximum sustained winds are near 115 mph with higher gusts. Maria is a category 3 hurricane on the Saffir-Simpson Hurricane Wind Scale. Some strengthening is possible during the next day or so. Hurricane-force winds extend outward up to 60 miles from the center and tropical-storm-force winds extend outward up to 150 miles. Punta Cana in the eastern Dominican Republic recently reported a wind gust to 56 mph.

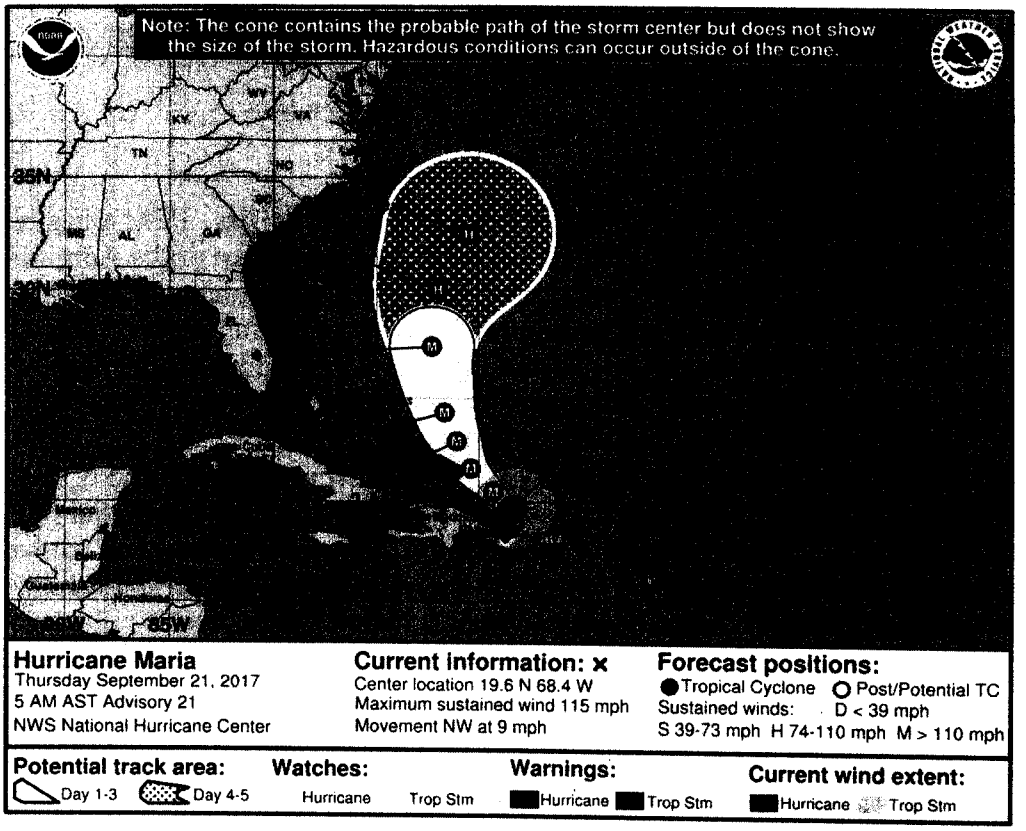
  WIND: Strong gusty winds are still occurring over portions of Puerto Rico, but should continue to gradually subside this morning.

  STORM SURGE: Water levels in Puerto Rico should continue receding during the next few hours.

  RAINFALL: Maria is expected to produce the following rainfall accumulations through Saturday: Puerto Rico...additional 4 to 8 inches, isolated maximum storm total amounts 35 inches. U.S. and British Virgin Islands...additional 2 to 4 inches. Rainfall

on these islands will continue to cause life-threatening flash floods and mudslides.

SURF: Swells generated by Maria are still affecting the Leeward Islands, Puerto Rico, and the Virgin Islands. These swells are likely to cause life-threatening surf and rip current conditions.



# Senior Leadership Briefing and Recovery Snapshots
# Hurricane Maria, Tropical Storm Jose, and Post-Tropical Cyclones Irma and Harvey

**Thursday, September 21, 2017 (5:00 a.m. EDT)**

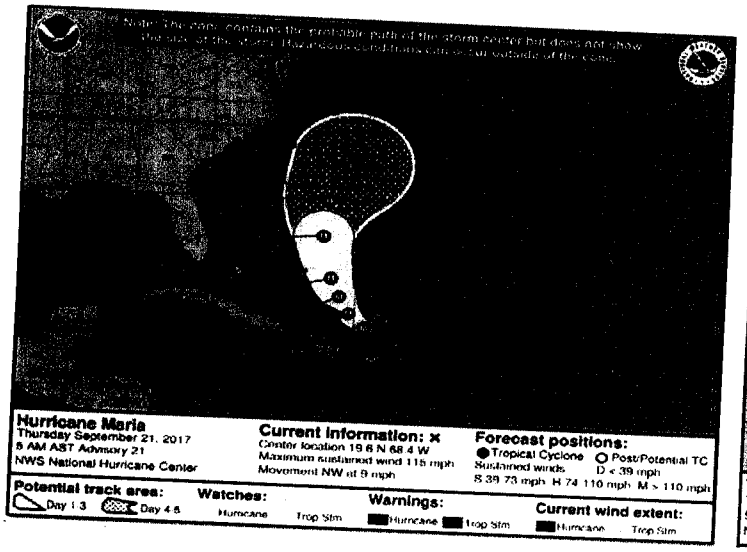
**Updates in Blue**

## Current Situation:

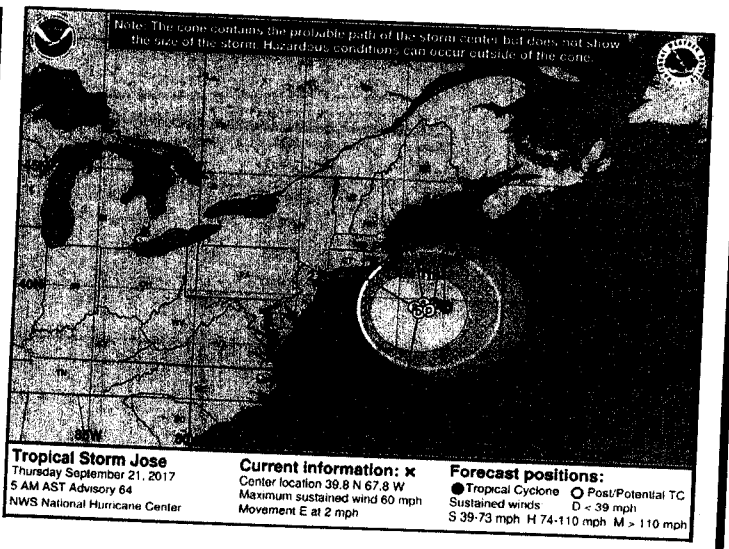
**Hurricane Maria:** At 5:00 AM ET, the large eye of Hurricane Maria was located near latitude 19.6 North, longitude 68.4 West. Maria is moving toward the northwest near 9 mph, and this general motion with a decrease in forward speed is expected through tonight. A turn toward the north-northwest is forecast on Friday. On the forecast track, the core of Hurricane Maria will continue to move away from Puerto Rico during the next several hours, On the forecast track, the eye of Hurricane Maria will continue to pass offshore of the northeastern coast of the Dominican Republic today. Maria should then move near the Turks and Caicos Islands and the southeastern Bahamas tonight and Friday. Maximum sustained winds are near 115 mph with higher gusts. Maria is a category 3 hurricane and some strengthening is possible over the next couple of days. Strong gusty winds are still occurring over portions of Puerto Rico, but should continue to gradually subside this morning. Tropical storm or hurricane conditions are continuing across portions of the warning areas in the Dominican Republic. Hurricane conditions are expected to begin in portions of the Turks and Caicos Islands and the southeastern Bahamas tonight, with tropical storm conditions beginning in these areas later today. Additional rainfall in Puerto Rico is expected to range from 4 to 8 inches and rainfall is expected to continue to cause life-threatening flash floods and mudslides.

**Tropical Storm Jose:** At 5:00 AM ET, the center of Tropical Storm Jose was located near latitude 39.8 North, longitude 67.8 West. Jose is moving toward the east at 2 mph and this general motion with a decrease in forward speed is expected through Thursday. A slow westward motion should begin Thursday night. On the forecast track, the center of Jose is expected to meander off the coast of southeast New England during the next several days. Maximum sustained winds are near 60 mph with higher gusts. Jose is expected to become post-tropical by Friday. Swells generated by Jose are affecting Bermuda and much of the U.S. east coast and will likely cause dangerous surf and rip current conditions during the next several days. Jose is expected to produce the following additional rainfall accumulations through Friday: Martha's Vineyard and Cape Cod...additional 1 to 2 inches. Nantucket...additional 2 to 4 inches. *(NOAA Update. September 21. 2017. 5:00 a.m. EDT)*

**Hurricane Maria:**




**Tropical Storm Jose:**



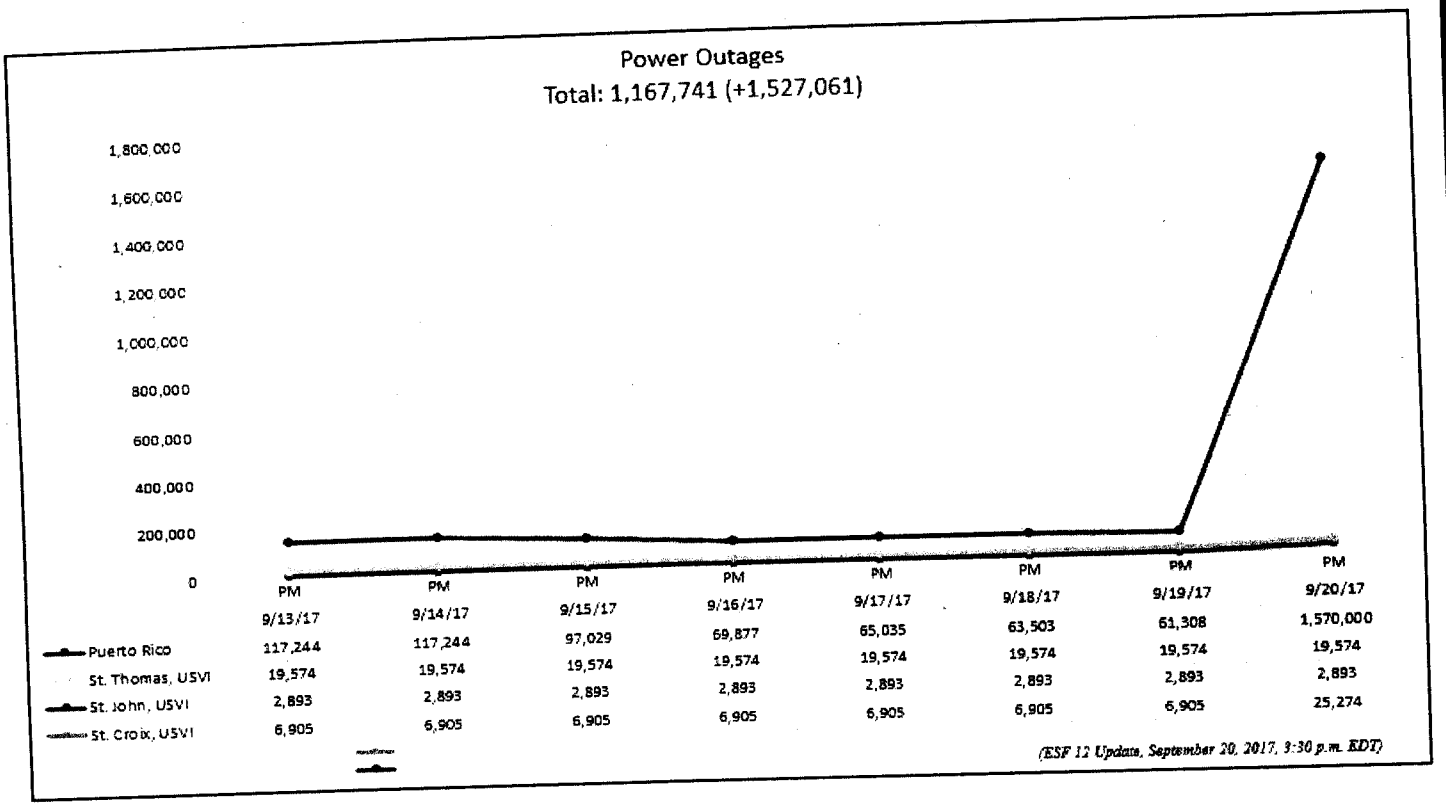
# Senior Leadership Briefing
# Hurricane Maria
## Thursday, September 21, 2017 (5:00 a.m. EDT)
## Updates in Blue

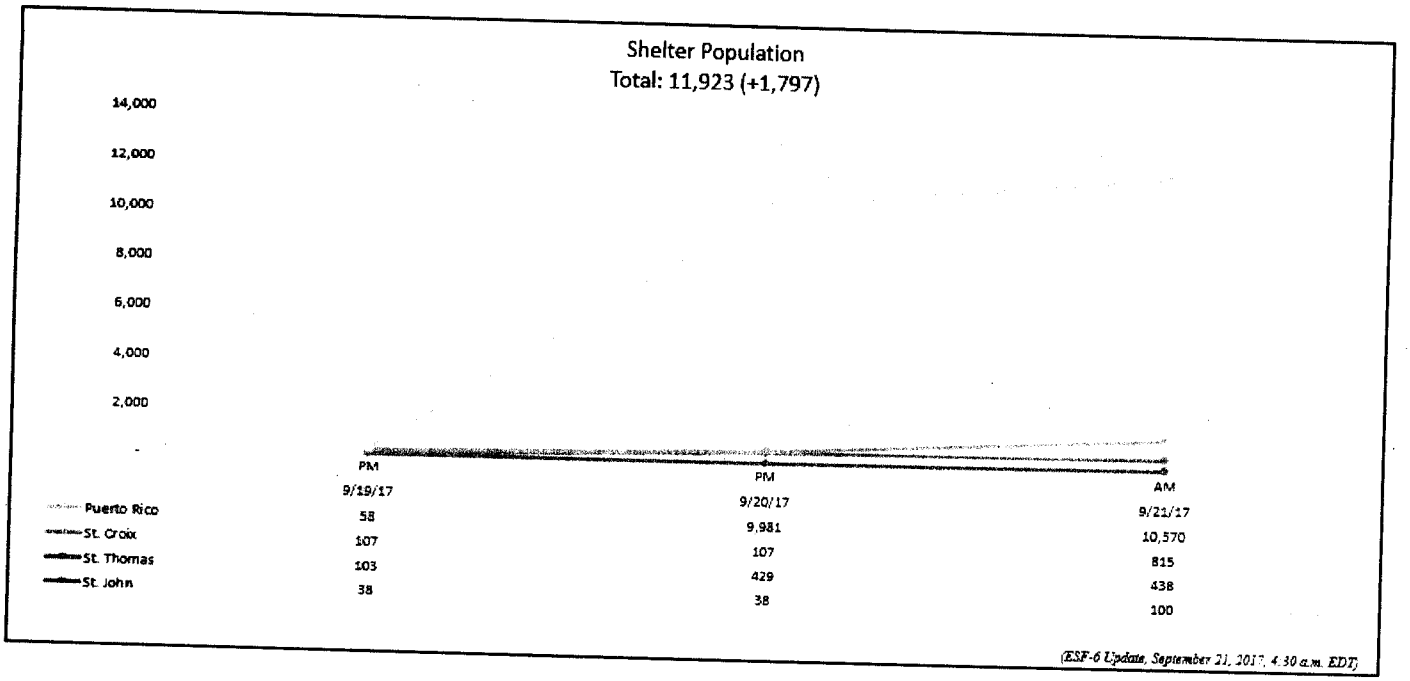
## Impact Summary:

| Territory | Population Impacts | | | | | |
|---|---|---|---|---|---|---|
| | Confirmed Fatalities | Shelters / Population | Customer Power Outages | Hospitals | Evacuations | Other |
| USVI | 0 | Shelters: 8<br>Pop: 1,353<br>(+1,208) | St. Thomas: 19,574<br>St. John: 2,893<br>St. Croix: 6,905 | Hospitals: TBD Post-Maria impact<br><br>Dialysis centers: TBD Post-Maria impact | No mandatory orders | Public schools remain closed<br><br>Curfew remains in effect |
| PR | 0 | Shelters: 174 (+2)<br>Pop: 10,570<br>(+589)* | 1,570,000<br>(+1,508,692) | Hospitals: TBD Post-Maria impact<br><br>Dialysis centers: TBD Post-Maria impact | Mandatory evacuation for four municipalities | Curfew in place from 6:00 p.m. – 6:00 a.m. until September 23 |
| *As of:* | *September 17 11:00 a.m. EDT* | *September 21 4:46 a.m. EDT* | *September 20 3:06 p.m. EDT* | *September 20 10:49 EDT* | *September 20 2:12 p.m. EDT* | *September 20 11:06 p.m. EDT* |

*(ESF-8, September 21, 2017, 4:46 a.m. EDT; ESF-12, September 20, 2017, 12:39 p.m. EDT)*

**PR reporting is current as of mid-day 09/20/2017. Due to limited communications, there may be delays in regular shelter reporting*






*(ESF-6 Update, September 21, 2017, 4:30 a.m. EDT)*

| Territory | Infrastructure Impacts | | | | | |
|---|---|---|---|---|---|---|
| USVI | Closed<br><br>St. Thomas and St. Croix closed until September 21 | Closed | Public transit not operational in St. Thomas and St. John<br><br>Ferry service between St. Thomas and St. John suspended | Existing damage in St. Croix and St. John from Irma; Assessments and debris removal to resume weather permitting | The islands do not contain any pipelines | Current status unknown: Six of eight municipal wastewater treatment plants were in service as of September 19;<br><br>Four of 15 sanitary pump stations in St. Thomas and St. John were not in service as of September 19 |
| PR | 6 closed; 4 unconfirmed status<br><br>San Juan Airport closed | Closed | Ferry service, heavy rail, and bus transit suspended until further notice | Status update not yet available | All pipeline operations on the island have been temporarily suspended | Current status unknown: Drinking and wastewater treatment plants at normal operations as of September 19 |
| *As of:* | *September 21 12:09 a.m. EDT* | *September 20 12:35 p.m. EDT* | *September 20 11:37 a.m. EDT* | *September 19 4:00 p.m. EDT* | *September 20 11:31 a.m. EDT* | *September 19 11:49 a.m. EDT* |

*(ESF - 1 Update, September 20, 2017 12:35 p.m. EDT)*

## Declaration Activity:

| Territory | Declaration | Declared Counties Individual Assistance | Public Assistance | Cost Share |
|---|---|---|---|---|
| USVI | 9/20: *DR-4340* | St. Croix | All | 75% |
| | 9/7: *DR-4335* | St. Thomas and St. John | All (Categories A-G) | 90% (Cat A); 100% (Cat B) for 30 days, 90% thereafter; 75% (Cat C-G) |
| PR | 9/18: *EM-3391* | | All (Categories A and B) | 75% |
| | 9/10: *DR-4336* | 4 municipalities | 27 (0) municipalities | 75% |

*(FEMA Declaration Unit, September 20, 2017 and Office of Chief Counsel, September 21, 2017, 5:53 a.m. EDT)*

## Force Laydown:

| Department/Agency | St. Thomas | St. Croix | St. John | PR | CONUS* | Totals |
|---|---|---|---|---|---|---|
| ESF-1/ Department of Transportation | 2 | 0 | 0 | 0 | 0 | 2 |
| ESF 3/ Army Corps of Engineers | 39 | 40 | 0 | 96 | 20 | 195 |
| ESF 4/ Forest Service | 0 | 0 | 0 | 0 | 0 | 0 |
| ESF-6/ American Red Cross | 46 | 9 | 4 | 10 | 4 | 73 |
| ESF-6/ Small Business Administration** | 0 | 0 | 0 | 15 | 0 | 15 |
| ESF-8/ Health and Human Services | 0 | 0 | 0 | 129 | 0 | 129 |
| ESF-9/ Search and Rescue | 0 | 1 | 0 | 275 | 0 | 276 |
| ESF-10/ Environmental Protection Agency** | 0 | 1 | 0 | 0 | 19 | 20 |
| ESF-11/ Department of Agriculture | 0 | 0 | 0 | 2 | 0 | 2 |
| ESF-12/ Department of Energy | 1 | 1 | 0 | 8 | 0 | 10 |
| ESF-13/ Law Enforcement** | 0 | 0 | 0 | 81 | 0 | 81 |
| DOD Title 10**** | 1 | 32 | 0 | 64 | 0 | 97 |
| National Guard Bureau | 946 | *** | *** | 457 | 2 | 1,405 |
| United States Coast Guard | 0 | 0 | 0 | 431 | 0 | 431 |
| DHS – NPPD | 6 | 6 | 0 | 20 | 0 | 32 |
| Transportation Security Administration** | 0 | 0 | 0 | 0 | 21 | 21 |
| Customs and Border Protection** | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMA Caribbean Area Division | 0 | 0 | 0 | 44 | 0 | 44 |
| FEMA Deployed | 13 | 43 | 2 | 301 | 86 | 445 |
| National Weather Service- NOAA | 0 | 0 | 0 | 26 | 0 | 26 |
| General Services Administration | 0 | 0 | 0 | 4 | 0 | 4 |
| Department of the Interior | 0 | 15 | 31 | 140 | 0 | 186 |
| Other Federal Agencies | 0 | 0 | 0 | 0 | 6 | 6 |
| Other Personnel Re-Located | 0 | 0 | 0 | 0 | 33 | 33 |
| TOTALS | 1,054 | 148 | 37 | 2,103 | 191 | [illegible] |

**Repositioned CONUS prior to storm, awaiting transport back to PR/USVI*
***Numbers not confirmed night shift September 20-21*
****NGB personnel supporting efforts throughout USVI*
***** 3501 DOD personnel at sea supporting Maria*
*Note: Changes in blue reflect updated accountability, not actual changes in personnel locations*
*(Situational Awareness Info Analysis, September 22, 2017, 4:00 a.m. EDT)*

## FEMA Headquarters:

- National Response Coordination Center (NRCC) assumed incident support responsibilities from Region II and transitioned to night shift operations from Level II to Level I September 20 *(Daily Operations Briefing,, September 20, 2017, 8:30 a.m. EDT)*
- National Incident Management Assistance Team (IMAT) East-2 at FEMA Region II Caribbean Area Division, San Juan, PR *(Field Ops Update, September 19, 2017, 2:30 p.m. EDT)*

- **Recovery**
  - Strategic Workforce Augmentation Team (SWAT) taking calls at three NPSCs, FEMA pop-up call centers, Headquarters, all FEMA Regions, and from home; 5,509 call center agents available to receive calls *(Recovery Contact Center Surge Staffing Timeline, September 20, 2017, 8:00 p.m. EDT)*
  - 48 Disaster Survivor Assistance (DSA) cadre members, five FEMA Corps members, and 12 DHS Surge personnel deployed/deployed pending check-in and training in support of Hurricane Maria-affected states and territories *(DSA Cadre Management Section Update, September 20, 2017, 8:00 p.m. EDT)*

- **Mutual Aid**

| Region | Jurisdiction | # of Request(s) | # of States Supporting |
|---|---|---|---|
| II | USVI | 22 (+1) | 11 (0) |

*(EMAC Sit Rep #56, September 20, 2017, 8:00 p.m. EDT)*

## FEMA Region I

- Regional Response Coordination Center (RRCC) at Level II (Partial Activation) for Tropical Storm Jose *(Region 1 SitRep, September 20, 2017, 2:14 p.m. EDT)*

## FEMA Region II

- Region II RRCC staff deployed to FEMA Headquarters to support NRCC operations; 19 arrived September 20, additional personnel will arrive September 21 *(Region II SASC, September 20, 2017, 2:12 p.m. EDT)*
- FEMA Region II IMAT in St. Croix, USVI; FEMA Region X IMAT in St. Thomas, USVI *(FOD Update, September 18, 2017, 3:55 p.m. EDT)*
- Region II Caribbean Area Division staff working from PR Distribution Center cannot exit due to debris on roads; two other personnel working from PR Emergency Management Agency EOC *(Region II SASC, September 20, 2017, 2:12 p.m. EDT)*
- **U.S. Virgin Islands:** EOC at Full Activation, state of emergency and territory-wide curfew remain in effect, Federal Coordinating Officer (FCO) William Vogel on site in St. Croix *(RII Rolling Brief, September 19, 2017, 11:00 a.m. EDT)*
- **Puerto Rico:** EOC at Full Activation but with limited operations as of 8:00 a.m. EDT September 20 due to water damage, state of emergency remains in effect, FCO is Alejandro De La Campa *(RII Update, September 20, 2017, 12:30 p.m. EDT)*

## Interagency Coordination/Response:

- ***ESF-1: Transportation***
  - One Airfield Assessment Team (AAT) scheduled to deploy to St. Thomas September 21
  - Three LNO teams deploying to USVI and PR September 22 ; one team to arrive in St. Croix, one team to arrive in St. Thomas, and one team to arrive in PR *(PSS Resource Phasing Plan, September 21, 2017, 3:33 a.m. EDT)*
  - Mobile air traffic control tower previously relocated from St. Thomas to Charleston, SC scheduled for airlift back to St. Thomas on September 22 *(PSS Resource Phasing Plan, September 21, 2017, 3:33 a.m. EDT)*
  - Frederiksted Port (STX) is significantly damaged in at least three points, requiring extensive and timely repairs *(USVI Initial Incident Briefing, September 20, 2017, 8:00 p.m. EDT)*
  - USACE and NOAA survey crews traveling via USCG Cutter to San Juan September 21; will utilize internal and contract capabilities to survey ports; Port Priorities: San Juan, Arecibo, Mayaguez, Ponce, Charlotte Amalie, Christiansted *(ESF-3 Update, September 21, 2017, 1:28 a.m. EDT)*
- ***ESF-2: Communications***
  - Initial unconfirmed reports indicate commercial communications suffered significant damage, minimal wireless coverage *(ESF-2 Update, September 20, 2017, 10:46 p.m. EDT)*
  - FEMA staff located on St. Croix created a watch desk to facilitate communications
  - Terrestrial services on St. Croix nearly non-existent across the island; public service communications systems and 9-1-1 system out of service *(USVI Initial Incident Briefing, September 20, 2017, 8:00 p.m. EDT)*
  - Identified additional Mobile Emergency Response Support (MERS) assets in TX and FL to deploy to PR; 16 MERS personnel scheduled for airlift to St. Thomas on September 22 *(PSS Resource Phasing Plan, September 21, 2017, 3:33 a.m. EDT)*

- Activated commercial communications Disaster Information Reporting System for USVI and PR; first report will be published September 21; reporting voluntary for commercial communications carriers *(ESF-2 Update, September 20, 2017, 10:46 p.m. EDT)*

- ***ESF-3: Public Works and Engineering***
  - Temporary Roofing Mission ("Blue-Roofs"): Received Mission Assignment for USVI; preparing resources for deployment *(ESF-3 Update, September 20, 2017, 11:53 a.m. EDT)*
  - Two ESF-3 Command vehicles scheduled to be airlifted on September 22; one vehicle to USVI and one vehicle to PR *(PSS Resource Phasing Plan, September 21, 2017, 3:33 a.m. EDT)*
- ***ESF-4: Firefighting***
  - National Incident Management Organization Incident Management Team (ten personnel) scheduled for airlift to St. Thomas September 20, 2017 *(PSS Resource Phasing Plan, September 21, 2017, 3:33 a.m. EDT)*
  - ESF-4 teams supporting western wildfire operations concluding operations and preparing to support Hurricane Maria response efforts *(ESF-4 Update, September 20, 2017, 12:45 p.m. EDT)*
- ***ESF-5: Information and Planning***
  - Civil Air Patrol (CAP) headquarters reporting high frequency contact with two stations in PR, both stations confirming they are on emergency power
  - CAP planning to send eight crewmembers on a C-17 to PR on September 21 or 22 *(CAP Update, September 20, 2017, 7:56 p.m. EDT)*
  - National Oceanic and Atmospheric Administration (NOAA) National Geodetic Survey aircraft staged in Lakeland, FL awaiting confirmation of open airfields and fuel services in PR *(NOAA Update, September 20, 2017, 1:37 p.m. EDT)*
- ***ESF-6: Mass Care, Emergency Assistance, Housing, and Human Services***
  - Planning for resource requests needed to stand up a multi-agency warehouse
  - Red Cross coordinating lift operations for resources and workers
  - Requested USDA Animal and Plant Health Inspection Service (APHIS) pet subject matter expertise personnel in PR
  - Monitoring contract execution; contract provides 7,000 food boxes (112,000 meals) per week for four weeks *(ESF-6 Update, September 21, 2017, 1:34 a.m. EDT)*
  - Continuing to work on future planning efforts; planning assumption is feeding and sheltering two million people for three months in PR and 80 percent of USVI population
  - Developed donations management plan for USVI
  - Voluntary Agency Liaisons working with Catholic Charities and Department of Health and Human Services (HHS) to provide wrap-around services for dialysis patients evacuated from PR
  - Salvation Army activated Team Emergency Radio Network; monitoring weather, reporting damage assessments, and processing emergency requests in PR and USVI
  - Southern Baptist Disaster Relief scheduled the shipment of mobile feeding kitchen from Montgomery, AL to USVI September 22; feeding capacity is 5,000 meals per day *(ESF-6 Update, September 20, 2017, 2:22 p.m. EDT)*
- ***ESF-7: Logistics Management and Resource Support***
  - Planning establishment of two Air Bridges airlifting 1,400,000 meals to San Juan, PR; Louisville, KY Air Bridge to start September 22, Miami, FL Air Bridge to start September 26
  - Vessels loaded with commodities en route to St. Thomas awaiting port opening and clearance:
    - SS Wright carrying 1.3M meals and 250,000 gallons of bulk water
    - Conquistador carrying 1.2M liters of water, 31 generators, and 6,060 cots
  - Sourcing high priority commodity requirements for USVI to include meals, water, cots, blankets, hygiene kits, infant and toddler kits and generators *(ESF-7 Update, September 21, 2017, 2:18 a.m. EDT)*
  - Responder Berthing Vessels: Three contracts awarded for responder lodging at various locations throughout USVI; coordinating with USCG and FEMA on tentative arrival of September 23 *(Initial Incident Briefing, September 20, 2017, 8:00 p.m. EDT)*
  - Additional vessels being prepared in FL for post-storm support:
    - Jacksonville Crowley: First barge departed September 19, estimated to arrive in Caribbean by September 26
    - Everglades Crowley: First barge departed September 20, estimated to arrive in Caribbean by September 25; loading second barge to depart September 21 *(ESF-7 Update, September 20, 2017, 12:49 p.m. EDT)*

- Ordered additional 3M military meals ready to eat in preparation for Hurricane Maria response; sending to Jacksonville, FL beginning September 22 for onward movement to PR; planned delivery rate 500,000 per day over a six to eight day period *(ESF-7 Update, September 20, 2017, 11:58 a.m. EDT)*
- All General Services Administration (GSA) owned or leased building in USVI and PR closed *(GSA Update, September 21, 2017, 12:23 a.m. EDT)*

- ***ESF-8: Public Health and Medical Services***
  - Public Health Emergency declared for PR and USVI *(ESF-8 Update, September 20, 2017, 10:46 p.m. EDT)*
  - St. Croix:
    - Juan Luis Hospital: Sustained damage to roof, compromising three of five operating rooms; possible need to evacuate 53 patients if roof is not fixed
    - Caribbean Kidney Center: One patient in need of medevac unless generator is fixed; mission assignment being worked with DoD to move 116 patients CONUS to receive dialysis *(ESF-8 Update, September 20, 2017, 11:52 p.m. EDT)*
  - Initiating post-landfall reentry plans to continue medical operations in USVI
  - Four Disaster Medical Assistance Teams, two Health and Medical Task Forces, one Disaster Mortuary Operational Response Team (DMORT) Assessment Team, and two Joint Patient Assessment Tracking Systems (JPATs) scheduled to be airlifted to PR on September 22 *(PSS Resource Phasing Plan, September 21, 2017, 3:33 a.m. EDT)*
- ***ESF-9: Search and Rescue***
  - Initial assessments in USVI suggest major US&R operation needs unlikely; continuing to monitor for potential needs *(Initial Incident Briefing, September 20, 2017, 8:00 p.m. EDT)*
  - United States Coast Guard (USCG) receiving Maria-related Search and Rescue requests but current weather conditions limit availability of response assets; will continue to closely monitor requests for assistance and respond as weather permits *(USCG Update, September 20, 2017, 11:34 a.m. EDT)*
  - One Urban Search and Rescue (US&R) Incident Support Team (IST), two Type-1 Task Forces (TFs), two Type-4 TFs, and three Canine Search Teams staged in San Juan, PR
    - C-130 shuttling 35 US&R personnel from PR to St. Croix September 21, returning them to PR in the evening *(Region II email, September 21, 2017, 3:00 a.m. EDT)*
  - Eight enhanced Type-4 TFs scheduled to be airlifted September 22 to PR *(PSS Resource Phasing Plan, September 21, 2017, 3:33 a.m. EDT)*
  - Alert orders issued for four additional Type-1 TFs *(ESF-9 Update, September 20, 2017, 12:35 p.m. EDT)*
- ***ESF-10: Oil and Hazardous Material Response***
  - Hazardous Material Assessment Team and Critical Water Assessment Team scheduled to be airlifted to PR September 22 *(PSS Resource Phasing Plan, September 21, 2017, 3:33 a.m. EDT)*
  - Two vessels, both named Paragon, are adrift near USVI; three tug vessels remain in the area monitoring the status *(USCG email, September 20, 2017, 10:58 p.m. EDT)*
  - St. Croix:
    - Numerous gas stations destroyed, leading to potential environmental concerns; physical assessment by EPA required to assess possible impacts *(Initial Incident Briefing, September 20, 2017, 8:00 p.m. EDT)*
    - EPA reporting concerns of spilled diesel fuel trucks, heavily damaged cruise ship, and damage at propane depot pier *(NRCC Spot Report, September 20, 2017, 9:47 p.m. EDT)*
  - PR: Buckeye Partners requesting clearance from Port Authority to fly a strike team into PR to conduct damage evaluations of Yabucoa Buckeye Global Marine Terminal hazardous materials facility; facility stores up to 4.6 million barrels of petroleum and 25% of the gasoline and diesel for the island *(NRCC email, September 20, 2017, 11:58 p.m. EDT)*
  - When air traffic resumes post-storm, USCG will re-deploy eight National Strike Force (NSF) personnel and 18-foot shallow water boat from Clearwater, FL, and eight additional NSF personnel from PR to St. Thomas and St. Croix to resume ESF-10 activities *(ESF-10 Update, September 20, 2017, 2:10 p.m. EDT)*
- ***ESF-12: Energy***
  - Initial estimates indicate 65% of the electrical infrastructure in Frederiksted has been destroyed *(USVI Initial Incident Briefing, September 20, 2017, 8:00 p.m. EDT)*

- USVI restoration crews demobilized until weather permits; power plants will generate electricity through storm as long as distribution system functional
- Team of eight DOE Western Area Power Administration repairmen remaining in PR, deploying to USVI when permissible *(ESF-12 Update, September 20, 2017, 11:59 a.m. EDT)*

- ***ESF-13: Public Safety and Security***
  - Three QRTs (76 Federal Law Enforcement Officers) and support staff staged in San Juan, PR
    - Four additional QRTs staging in the U.S. with expected deployment to PR September 22 via contract air *(ESF-13 Update, September 20, 2017, 8:09 p.m. EDT)*
  - ESF-13 responder camp in Orlando, FL will continue Hurricane Irma recovery operations through September 23; preparing to subsequently demobilize and redeploy teams to support Hurricane Maria response efforts *(ESF-13 Update, September 20, 2017, 11:04 a.m. EDT)*
- ***ESF-15: External Affairs***
  - Civil Authority Information Support Element (CAISE) personnel (54 individuals) arriving in St. Thomas September 22; 26 personnel further deploying to St. Croix, 26 personnel remaining on St. Thomas to support messaging on St. Thomas and St. John *(Region II Incident Briefing-15 Update, September 20, 2017, 2:41 p.m. EDT)*
  - Increased reporting from individuals unable to contact friends and family members due to widespread outages in power and cellular services throughout PR and USVI *(ESF-15 Update, September 20, 2017, 12:03 a.m. EDT)*
  - Multiple private sector organizations offering to provide assistance in USVI and PR; FEMA Private Sector Office sharing list of offers with Voluntary Agency Liaisons *(ESF-15 Update, September 20, 2017, 2:41 p.m. EDT)*
- ***U.S. Department of Defense (DOD)***
  - U.S. Northern Command (USNORTHCOM):
    - Initial Naval Forces expected to return to USVI for response activities 9:00 a.m. EDT September 21; remainder of fleet arrive September 22
    - USS Kearsarge and USS Oak Hill returning to affected area; will begin airborne-only Search and Rescue operations early September 21 and resume full operations early September 22
    - Anticipating Mission Assignment to deploy medical/surgical treatment facility and 180 healthcare providers in USVI *(DOD Update, September 20, 2017, 2:21 p.m. EDT)*
  - Defense Logistics Agency (DLA): New Mission Assignments received requesting generator support for temporary power operations in USVI and PR *(DOD Update, September 21, 2017, 12:59 a.m. EDT)*
- ***National Guard Bureau (NGB)***
  - 546 National Guardsmen mobilized for PR, 935 for USVI
  - PR serving as a staging area for continued operations in USVI; passenger and commodities movement suspended until weather permits *(NGB Update, September 20, 2017, 2:19 p.m. EDT)*
- ***U.S. Coast Guard (USCG)***
  - Requesting DOD airlift of USCG responder support camp facility to PR
  - USCG Cutter forces returning to affected areas to support Search and Rescue and port surveys
    - USCG aircraft transporting NOAA and USACE port survey teams and equipment to Guantanamo Bay September 20; USCG Cutter will transport teams and equipment to facilitate port openings in PR September 21 *(USCG Update, September 20, 2017, 2:00 p.m. EDT)*
- ***U.S. Department of the Interior (DOI)***
  - All national parks in Caribbean closed *(DOI Update, September 21, 2017, 12:14 a.m. EDT)*
  - Request for food and water (8 pallets food, 8 pallets water) requested for National Park Service (NPS) responders in St. John; request processed by FEMA and ready for pickup in San Juan September 21 *(DOI Update, September 21, 2017, 12:14 a.m. EDT)*

## Commodities Tables

- The following commodities have been ordered by and shipped to the USVI and PR:

### U.S. Virgin Islands and Puerto Rico Combined

| Product Class | Total Items Shipped to Territory |
|---|---|
| Commodities Used in Sheltering Items and Services (CUSI) | 15 |
| Cots | 3,357 |
| Generators | 4 |
| Hygiene | 1 |
| Meals | 1,617,241 |
| Sheeting | 15,192 |
| Tarps | 13,272 |
| Water | 698,570 |

### U.S. Virgin Islands

| USVI | Ordered Qty | Shipped to Territory Qty |
|---|---|---|
| CUSI | 58 | 15 |
| Cots | 450 | 300 |
| Generators | 29 | 0 |
| Hygiene | 0 | 1 |
| Meals | 2,152,924 | 1,617,241 |
| Sheeting | 135,056 | 15,192 |
| Tarps | 0 | 13,272 |
| Water | 321,500 | 694,970 |

### Puerto Rico

| PR | Ordered Qty | Shipped to Territory Qty |
|---|---|---|
| Cots | 2,150 | 3,057 |
| Generators | 4 | 4 |
| Water | 3,600 | 3,600 |

*(ESF-7 Update, September 21, 2017 1:00 a.m. EDT)*

## OCONUS FEMA Commodities Laydown (as of September 21, 02:00 a.m. EDT)

★ FSA (Federal Staging Area)

● ISB (Incident Support Base)

■ DC (Distribution Center)

Resources on hand as of:
September 21, 2017 02:00 a.m.

***FSA – San Juan, PR***
**Water (liters):** 64,208
**Infant/Toddler Kits:** 260
**Tarps:** 11,799
**CMS:** 20

***Offshore Resupply:***
**SS Wright:**
**Meals:** 1,300,000
**Water (bulk):** 250,000 gallons

**Conquistador (barge):**
**Water (liters):** 900,000
**Generators:** 3
**Cots:** 10,000

***Rafael Hernandez Intl Airport-ISB***

***DC-Caribbean, PR***
**Meals:** 274,848
**Generators:** 25
**Infant/Toddler Kits:** 7
**Cots:** 528
**Blankets:** 6,018
**CMS:** 3
**DME:** 3
**JFO Kits:** 3

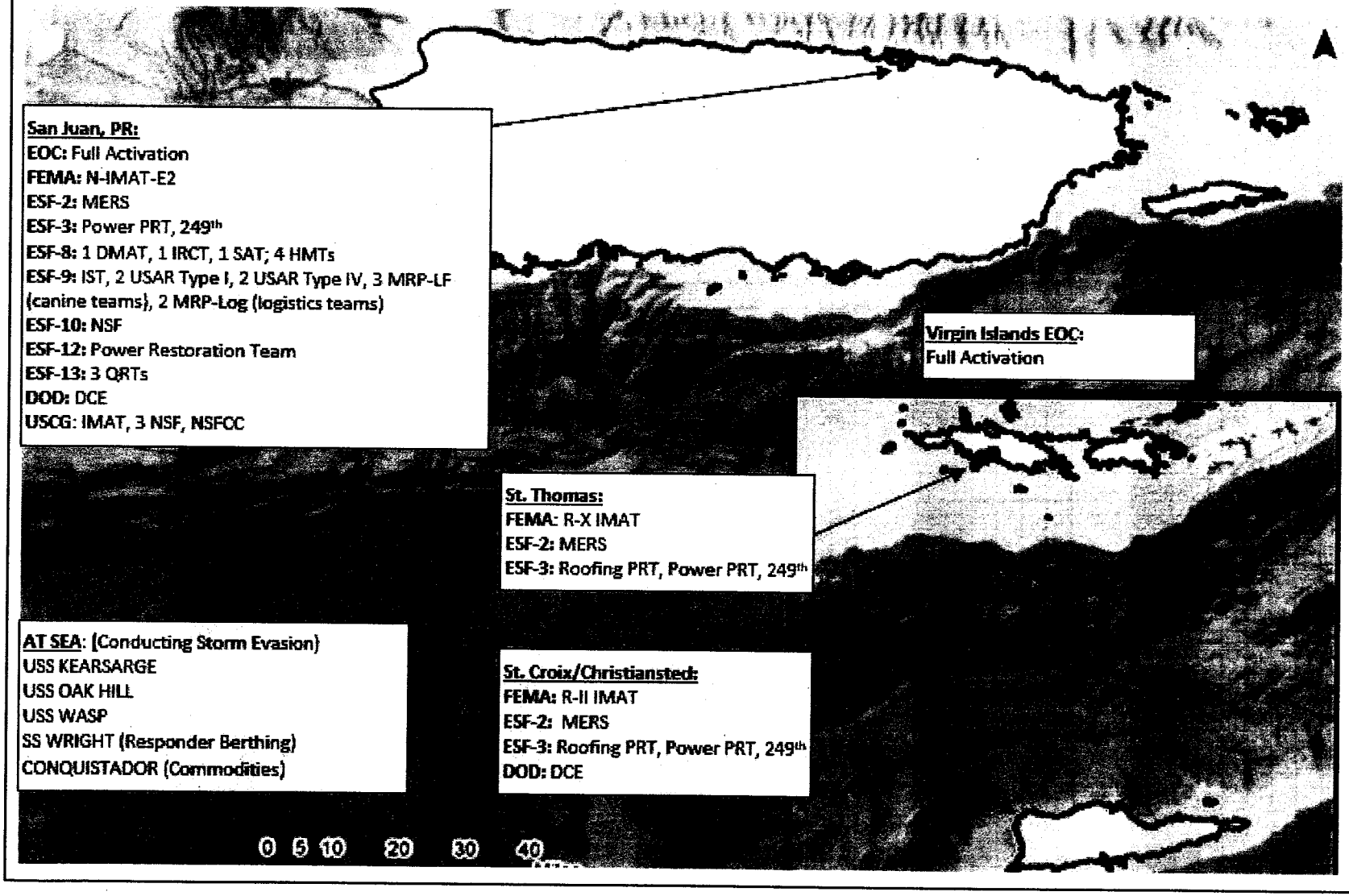
***Jose Aponte de la Torre Airport-ISB***

***FSA-St. Thomas, VI***
**Water (liters):** 51,010
**Meals:** 4,032
**Generators:** 27
**Infant/Toddler Kits:** 18
**Sheeting:** 84
**Hygiene:** 1

***FSA-St. Croix, VI***
**Water (liters):** 24,300

# Maria Force Laydown

**As of September 21, 2017 5:00 a.m. EDT**



# Recovery Snapshot
# Post-Tropical Cyclone Irma
**Thursday, September 21, 2017 (5:00 a.m. EDT)**
**Updates in Blue**

## Declarations

| State/Region | Declaration | Declared Counties | | |
|---|---|---|---|---|
| | | Individual Assistance | Public Assistance | Cost Share |
| **Region IV** | | | | |
| **Georgia** | 9/15: *DR-4338* | 5 counties | All | 75% |
| **Alabama** | 9/11: *EM-3389* | | All 67 counties and Poarch Band of Creek Indians | 75% |
| **Florida** | 9/10: *DR-4337* | 48 counties | All 67 counties | 75%<br>100% (Cat B) for 30 days |
| **Seminole Tribe of Florida** | 9/8: *EM-3388* | - | Whole Tribe | 75% |
| **South Carolina** | 9/7: *EM-3386* | - | All 46 counties and Catawba Indian Nation | 75% |

*(FEMA Declarations Unit, September 18, 2017 3:33 p.m. EDT)*

## Interagency Coordination/Recovery:

- ***Recovery Support Function (RSF): Housing Recovery***
  - **Individual Assistance**

| Individual Assistance (as of 09/20/2017, 11:41 p.m. EDT) | | | | |
|---|---|---|---|---|
| **State** | **Total Registrations** | **Total Individuals and Households Program Approved** | **Housing Assistance Approved** | **Other Needs Assistance Approved** |
| **Georgia** | 7,192 | $ 68,961 | $66,570 | $ 2,391 |
| **Florida** | 1,032,699 | $ 332,571,544 | $ 200,624,824 | $ 131,946,720 |
| **Puerto Rico** | 3,320 | $256,192 | $ 125,328 | $130,863 |
| **U.S. Virgin Islands** | 4,585 | $4,592 | $4,592 | Not yet reported |

  - **FEMA Inspections**

| Housing Inspections (as of 09/20/2017, 11:41 p.m. EDT) | | | | |
|---|---|---|---|---|
| **State** | **Inspectors with Work** | **Inspections Issued** | **Inspections Complete** | **% Complete** |
| **Georgia** | 8 | 643 | 125 | 19.4% |
| **Florida** | 847 | 241,792 | 16,126 | 6.6% |
| **Puerto Rico** | 26 | 1,220 | 467 | 38.2% |
| **U.S. Virgin Islands** | Not yet reported | 3,444 | 4 | 0.11% |

  - **National Flood Insurance Program Claims Estimates**

| NFIP Claims Estimate (as of 09/20/2017, 2:22 p.m. EDT) | |
|---|---|
| **State** | **Claims Submitted** |
| **Florida** | Over 16,000 |
| **Georgia** | Over 1,500 |
| **South Carolina** | Over 1,700 |
| **U.S. Virgin Islands** | 32 |
| **Puerto Rico** | 4 |
| **Alabama** | 1 |

* Over $5.7M in advance payments issued to insured survivors of Hurricane Irma as of September 20

- **Temporary Housing**
  - Transitional Shelter Assistance (TSA)

| Transitional Sheltering Assistance (as of 09/20/2017, 11:24 p.m. EDT) | | |
|---|---|---|
| **State** | **Households Checked In to Hotel** | **Eligible** |
| **Florida** | 5,641 | 358,420 |

- **US Department of Housing and Urban Development (HUD) (as of 9/19/2017)**

| Hurricane Irma - Florida | Number of Properties in Impacted Area | Displaced (# of Beds for Healthcare - Hospital) | Displaced (# of Household for Public & Indian Housing - Multifamily Housing) | Returned or Permanently Housed (# of Households/Beds) |
|---|---|---|---|---|
| Multifamily Housing | 0 | 0 | 0 | 0 |
| Public and Indian Housing | 0 | 0 | 0 | 0 |
| Healthcare and Hospitals | 104 | 804 | 0 | 100 |
| Total | 104 | 804 | 0 | 100 |

| Hurricane Irma - Georgia | Number of Properties in Impacted Area | Displaced (# of Beds for Healthcare - Hospital) | Displaced (# of Household for Public & Indian Housing - Multifamily Housing) | Returned or Permanently Housed (# of Households/Beds) |
|---|---|---|---|---|
| Multifamily Housing | 0 | 0 | 0 | 0 |
| Public and Indian Housing | 0 | 0 | 0 | 0 |
| Healthcare and Hospitals | 3 | 50 | 0 | 0 |
| Total | 3 | 50 | 0 | 0 |

| Hurricane Irma – South Carolina | Number of Properties in Impacted Area | Displaced (# of Beds for Healthcare - Hospital) | Displaced (# of Household for Public & Indian Housing - Multifamily Housing) | Returned or Permanently Housed (# of Households/Beds) |
|---|---|---|---|---|
| Multifamily Housing | 0 | 0 | 0 | 0 |
| Public and Indian Housing | 0 | 0 | 0 | 0 |
| Healthcare and Hospitals | 5 | 88 | 0 | 0 |
| Total | 5 | 88 | 0 | 0 |

# Recovery Snapshot
## Post-Tropical Cyclone Harvey
### Thursday, September 21, 2017 (5:00 a.m. EDT)
### Updates in Blue

## Declarations

| State/Region<br>Region VI | Declaration | Declared Counties<br>Individual Assistance | Public Assistance | Cost Share |
|---|---|---|---|---|
| **Texas** | 8/25: *DR-4332* | 39 counties | 46 (+4) counties | 90% (Cat A); 100% (Cat B) for 30 days, 90% thereafter; |

*(DR-4332 Amendment #9, September 19, 2017)*

## Interagency Coordination/Recovery:

- ***RSF: Housing Recovery***
  - **Individual Assistance (IA)**

| Individual Assistance (as of 09/20/2017, 1:02 p.m. EDT) | | | | |
|---|---|---|---|---|
| **State** | **Total Registrations** | **Total Individuals and Households Program Approved** | **Housing Assistance Approved** | **Other Needs Assistance Approved** |
| **Texas** | 782,962 | $ 567,232,419 | $ 395,865,045 | $ 171,367,373 |

  - **FEMA Inspections**

| Housing Inspections (as of 09/20/2017, 1:02 p.m. EDT) | | | | |
|---|---|---|---|---|
| **State** | **Inspectors with Work** | **Inspections Issued** | **Inspections Complete** | **% Complete** |
| **Texas** | 2,050 | 501,169 | 187,433 | 37.3% |

  - **National Flood Insurance Program Claims Estimates**

| NFIP Claims Estimate (as of 09/20/2017, 2:35 p.m. EDT) | | |
|---|---|---|
| **State** | **Claims Submitted** | **Advanced Payments to Insured Survivors** |
| **Texas** | Over 87,000 | Over $551,000,000 |
| **Louisiana** | Over 470 | Over $867,000 |

  - **Small Business Administration (SBA) Home Loans**

| SBA Home Loans (as of 09/20/2017, 1:48 a.m. EDT) | | | | | |
|---|---|---|---|---|---|
| **State** | **Applications Received** | **% Processed** | **Applications Approved** | **Loan $ Approved** | **Average Loan Amount** |
| **Texas** | 37,877 | 59% | 3,678 | $ 310,508,700 | $84,423 |

  - **Temporary Housing**
    - Transitional Shelter Assistance (TSA)

| Transitional Sheltering Assistance (as of 09/20/2017, 3:09 p.m. EDT) | | |
|---|---|---|
| **State** | **Households Checked In to Hotel** | **Eligible** |
| **Texas** | 23,916 | 313,378 |

  - **U.S. Department of Housing and Urban Development (HUD) as of 9/19/2017**

| Hurricane Harvey - Texas | Number of Properties in Impacted Area | Displaced (# of Beds for Healthcare - Hospital) | Displaced (# of Household for Public & Indian Housing - Multifamily Housing) | Returned or Permanently Housed (# of Households/Beds) |
|---|---|---|---|---|
| Multifamily Housing | 454 | 0 | 3,063 | 844 |
| Public and Indian Housing | 42 | 0 | 358 | 0 |
| Healthcare and Hospitals | 40 | 997 | 0 | 676 |

| | | | | |
|---|---|---|---|---|
| Total | 536 | 997 | 3,421 | 1,520 |

- ***RSF: Economic Recovery***
  - **SBA Business Loans**

| SBA Business Loans (as of 9/20/2017 ) | | | | | |
|---|---|---|---|---|---|
| **State** | **Applications Received** | **% Processed** | **Applications Approved** | **Loan $ Approved** | **Average Loan Amount** |
| **Texas** | 2,431 | 62% | 289 | $26,545,200 | $91,852 |

  - **USDA Disaster Supplemental Nutrition Assistance Program (D-SNAP) (as of 9/17/17)**

| New Apps Taken | New Approved | | | Households Denied | Supplements Approved | | | Total New + Ongoing Benefits |
|---|---|---|---|---|---|---|---|---|
| | Households | Persons | Total Benefits | | Households | Persons | Total Benefits | |
| 15,108 | 9,300 | 23,407 | $ 6,670,904.00 | 643 | 0 | 0 | 0 | $6,670,904 |

# Hurricane Irma/Hurricane Maria 2017
# 9/21/2017 – 1030 EDT Update

## EXECUTIVE SUMMARY

- USVI – There are reports of widespread damage on St. Croix as a result of Hurricane Maria. EPA OSC on STX reports intermittent email and phone service. Very severe tree and power pole damage. The cargo section of the airport destroyed. Roads barely passable. Some are not. OSC performed an assessment of Limetree Bay terminals. They have no catastrophic damage. They did lose about a barrel of oil from the API into the west lagoon and they conducted a cleanup on 9/20. The tanks and lines held although they are some dents and dings. The terminal has no requests for assistance at this time. Initial assessments are ongoing.

- PR – The storm made landfall at Yabucoa in Puerto Rico's southeast shortly after 6 a.m. 9/20 with winds as strong as 155 m.p.h. It had crossed the United States Virgin Islands as a Category 5 storm, then weakened to a Category 4 storm as it passed over PR. The eye of the hurricane left Puerto Rico at noon between the coast of the municipalities of Barceloneta and Arecibo. Power is out throughout the island. Initial assessments are ongoing. The Governor said: "Our island is destroyed."

- On 9/20, The President has signed a Disaster Declaration FEMA-4340-DR for the Territory of the U.S. Virgin Islands for Hurricane Maria.

- FEMA is designating Hurricane Maria operations a Level 1 incident. On 9/20 at 8am, FEMA transitioned incident support duties from the Regional Response Coordination Staff (RRCS) to the National Response Coordination Staff (NRCS). To support this transition, R2 incident support responsibilities shifted from the Regional Response Coordination Center (RRCC) to National Response Coordination Center (NRCC).

- EPA Region 2 sent RRCC ESF #10 staff to EPA HQ on 9/19 to assist the EPA ESF #10 desk in the FEMA NRCC in Washington D.C.

- EPA USVI/PR response personnel are re-positioned on the U.S. mainland. The exceptions are: an EPA Rep is in St. Croix at the FEMA Bunker with the IOF staff and FEMA IMAT leadership. EPA CEPD personnel and responders sheltered in place in the USVI and PR. The Region is communicating with CEPD leadership and the OSCs on St. Croix, USVI and PR.

- Satellite communications have been strategically placed with personnel remaining in the U.S. Caribbean. We have developed a communications plan and communications schedule with the employees left in PR and USVI. We are continuing to conduct

communication checks and status/ground condition updates with personnel in the USVI and PR.

- **EPA's Re-Deployment to PR/USVI**. FEMA flights will be available from Atlanta back to PR/USVI after Maria passes (estimated Friday-Monday). EPA will have personnel on the following two opportunities.
    - Six seats reserved for two teams of three responders who will go and assess priority drinking water and waste water facilities in the USVI. Priorities will include those servicing hospitals and sensitive populations. This group would leave 24 hours after the storm passes. Flight expected to leave on 9/22.
    - Twenty seats are reserved for EPA responders to return to the USVI. Flight expected to leave on 9/23 or 48 hours after storm passing.
- All flight times and where they arrive (USVI or PR) will depend on the condition of airports post-Maria. Lodging has also been requested through FEMA once responders arrive in the USVI or PR.
- Other Significant Concurrent Events.
    - 72nd United Nations General Assembly is in session from 9/12-25/2017.
    - We continue to monitor the track of Hurricane Jose, which is expected to remain well offshore as it moves north along the eastern US coastline.
    - We continue to monitor the northern track of Hurricane Maria for potential impacts/interaction with Hurricane Jose on the East Coast.

## PUERTO RICO / U.S. VIRGIN ISLANDS CONDITIONS

**US Virgin Islands** (USVI):

- No deaths reported at this time.
- State of Emergency declared; National Guard activated.
- Power Outages: Unknown
- Public schools remain closed
- Curfew remains in effect from 6pm to 6am until 9/23
- St. Thomas and St. Croix Airports closed until 9/21.

- Public transit not operational in St. Thomas and St. John
- Ferry service between St. Thomas and St. John suspended
- Existing damage to roads in St. Croix and St. John from Irma; Assessments and debris removal to resume weather permitting

**Puerto Rico** (PR):

- No deaths reported at this time
- State of Emergency remains in effect; National Guard activated.
- Airports: 6 are closed and 4 are opened. San Juan Airport closed
- Ferry service, heavy rail, and bus transit suspended until further notice
- Power Outages: There are reports of 100% outage. Two of PREPA's major transmission lines -one of 230,000 volts and other of 115,000 volts- are down
- Curfew in effect from 6pm to 6am.
- Hurricane Maria broke two National Weather Service radars on the island.
- Several major highways and streets blocked by fallen trees and light posts and poles.
- PRASA's office building was severely impacted (major damages).
- 80% of the Juanamatos EJ community in Cataño completely destroyed.
- The following municipalities already reported major floods and destruction: Loíza, Canóvanas, Río Grande and Toa Baja.

## PUBLIC AFFAIRS

The PIO is Elias Rodriguez, who can be reached at 212-637-3664. The Assistant PIO through September 21 is Emily Bender. She can be reached at 617-918-1037. All press inquiries are being managed through the Office of Public Affairs.

The Office of Public Affairs issued a news release "EPA Hurricane Maria Preparation, Irma Recovery Update for September 20, 2017". We continue to provide all Region 2 staff with relevant Irma / Maria news clips and EPA news releases. Beginning September 21, the Office of Public Affairs will issue separate Harvey, Irma and Maria response news releases. Region 2 PAD will draft the Maria response news release for OPA.

The response web site at www.epa.gov/hurricane-irma is now being managed primarily Region 4. The response web site www.epa.gov/hurricane-maria is now live, with content being created and posted by the HQ EOC and Region 2 PIO and others in the REOC. We continue to coordinate with ERT and Region 4 on an Irma story map.

Community Involvement: The PIO and PAD management have identified PIOs, Community Involvement Coordinators and community relations support for the REOC, Caribbean EOC(s) and USVI and Puerto Rico assessment and cleanup teams. Resource requests for these personnel are being processed and will be ready when we get the green light for deployment.

**Region 2 – Hurricane Irma Management Objectives**

- Protect the health and safety of EPA employees during re-deployment to VI and PR in the aftermath of Hurricane Maria.
- Implement a re-position plan to address communications schedules, employee location information, rallying points, and a cellular and satellite communication plan.
- Coordinate with FEMA on the re-position and remobilization of EPA responders.
- Implement a re-mobilization plan.
- Minimize social, political, and economic adverse impacts.
- Maintain communication and briefing schedule with R2 senior executives and EPA Headquarters. Support a consistent communications approach agency-wide, enabling EPA to act and speak in unison during these incidents.
- Provide situation reports and other information on schedule provided by RIC.
- Provide guidance for length of work day and deployments as it pertains to this specific event.
- Coordinate logistics with deployed personnel to provide transportation options, lodging, security, ground transportation on site.
- Identify clearly defined roles for both Regions and Headquarters.
- Identify long-term recovery objectives the Agency may be requested to support, and determine resources needed to support/sustain those requests to accomplish the objectives.

Once re-deployed teams are on the ground in PR and the USVI:

- Secure all NPL and removal sites. Regulated facilities and Superfund and oil sites will be surveyed prior to storm fall if a land impact is expected
- Identify vulnerabilities at regulated facilities
- Address any immediate hazardous substance releases or oil spills resulting from the storm's impact
- Assist state and local agencies in ensuring safety of drinking water systems.
- Monitor air quality when/if necessary in response to conditions on the ground.
- Provide guidance for length of work day and deployments as it pertains to this specific event
- Coordinate logistics with deployed personnel to provide transportation options, lodging, security, ground transportation on site;
- Coordinate national resources to assist the Region;
- Identify clearly defined roles for both Regions and Headquarters;

- The response will use the Region's incident specific Data Management Plan (DMP);
- In collecting, sharing, and analyzing environmental data, EPA will give primacy to data with potential human health consequences;
- EPA will work to ensure that its decision-makers have access to the data and expertise they need to make decisions based on sound science.

## DEBRIS RECOVERY

No activities to report.

## AIR MONITORING

No air monitoring activities.

## EMERGENCY RESPONSE

| Daily/Cumulative Summary of Hazard Evaluations/Recovery | | | | |
|---|---|---|---|---|
| Status | Opened | | Closed | |
| | 9/20/2017 | Cumulative | 9/20/2017 | Cumulative |
| Puerto Rico | 0 | 0 | 0 | 0 |
| U.S. Virgin Islands | **0** | 2 | 0 | **2** |

Note: Open means that the target is yet to be recovered. Closed means the target was recovered, left in place, or access was denied to collect the item. The facilities on the USVI are associated with the request for mold assessment of the STT airport tower and the current oil spill at Total.

| Daily/Cumulative Summary of Spills/Discharges | | | | |
|---|---|---|---|---|
| Status | Opened | | Closed | |
| | 9/20/2017 | Cumulative | 9/20/2017 | Cumulative |
| Puerto Rico | **0** | 3 | **0** | 3 |
| U.S. Virgin Islands | 0 | 1 | 0 | 1 |

## SUPERFUND NPL, SUPERFUND REMOVAL, AND OIL REMOVAL SITES

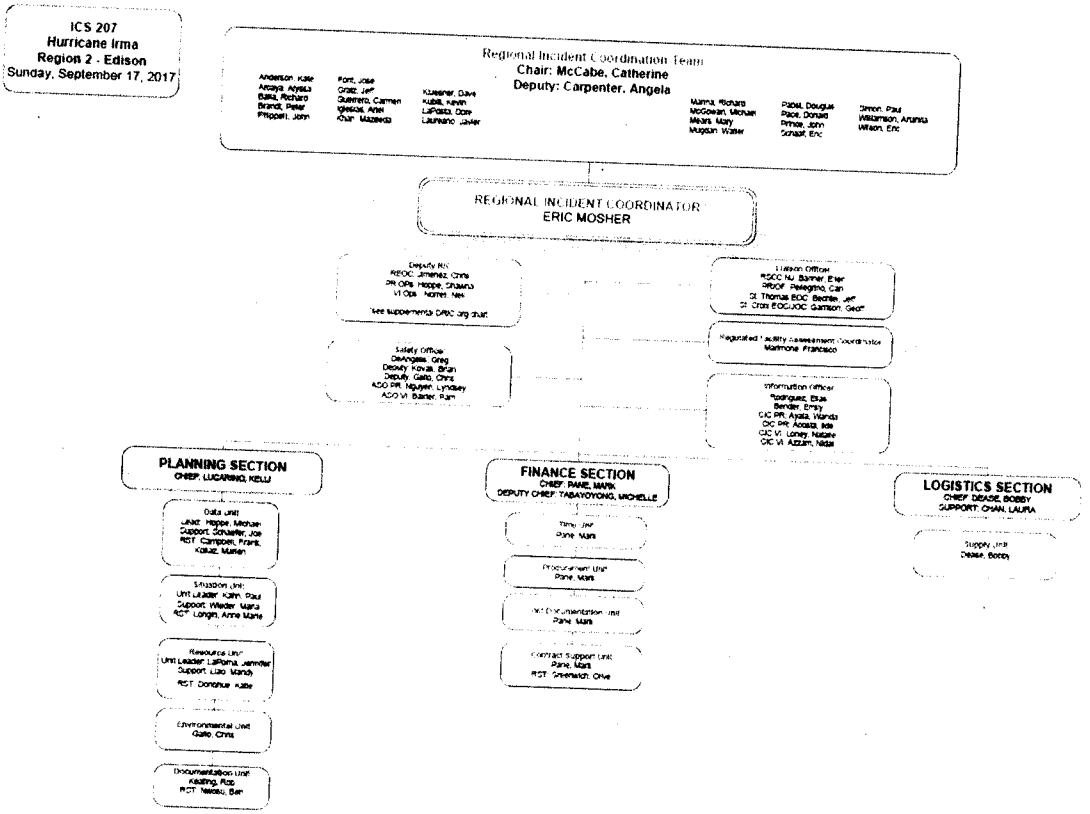
Preparations are underway to re-assess Superfund and oil sites in PR and the USVI as part of the Region's re-deployment plan. Re-assessment planning/implementation is on-going.

| SUPERFUND SITES (NPL, Removal and Oil) PUERTO RICO | | | | | | |
|---|---|---|---|---|---|---|
| Site | Type | Phase 1 | Phase 2 | | Phase 3 | All Phases Completed |
| | | Post-Storm Assessment | Site Inspection Needed | Inspected | Additional Response Action | |
| Atlantic Fleet Weapons | NPL | | | | | |
| Juncos Landfill | NPL | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Upjohn Facility | NPL | | | | | |
| Arecibo Battery Recycling Corp. | Removal & NPL* | | | | | |
| Corozal Battery | Removal & NPL* | | | | | |
| Cabo Rojo Groundwater | NPL | | | | | |
| Cidra Groundwater | NPL | | | | | |
| Dorado Groundwater | NPL | | | | | |
| Fibers Public Supply Wells | NPL | | | | | |
| Hormigas Groundwater | NPL | | | | | |
| Maunabo Urbano Public Wells | NPL | | | | | |
| Papelera Puertoriquena, Inc. | NPL | | | | | |
| Pesticide Warehouse 1 | NPL | | | | | |
| Pesticide Warehouse III | NPL | | | | | |
| San German Groundwater | NPL | | | | | |
| Scorpio Recycling | NPL | | | | | |
| Vega Alta Public Supply Wells | NPL | | | | | |
| Vega Baja Solid Waste Disposal | NPL | | | | | |
| Guayanilla Bay Oil Spill | Oil Response | | | | | |
| Puma Caribe (CAPECO) | Oil Response | | | | | |
| **U.S. VIRGIN ISLANDS** | | | | | | |
| TUTU Well Field | NPL | | | | | |
| Krum Bay Oil Spill at WAPA Facility | Oil Response | | | | | |
| Cruz Bay Oil Tank | Oil Response | | | | | |

* These are Sites that have both, a Removal and Remedial program action. Only one assessment will be conducted per Site.

## REGION 2 RESPONSE ORGANIZATION (ICS 207)




## FIELD RESPONSE ACTIVITIES

## PUERTO RICO

- Teams are preparing to re-deploy to Puerto Rico in accordance with our EPA Region 2 Mobilization and Resource Plan.
- Hazardous Material Assessment Team and Critical Water Assessment Team scheduled to be airlifted to PR 9/22

## U.S. VIRGIN ISLANDS

- Teams are preparing to re-deploy to the USVI in accordance with our EPA Region 2 Mobilization and Resource Plan.
- St. Croix: Numerous gas stations destroyed, leading to potential environmental concerns; physical assessment by EPA required to assess possible impacts. EPA reporting concerns of spilled diesel fuel trucks, heavily damaged cruise ship, and damage at propane depot pier

## REGION 2 REGIONAL EMERGENCY OPERATIONS CENTER (REOC)

- Assisted PR Department of Natural and Environmental Resources (DNER) preparing draft RRF to request EPA direct assistance to address the hazmat and oil mission once Hurricane Maria passes. EPA will assist DNER with the processing of the RRF.

- Re-deployment/mobilization plan is being implemented for EPA response personnel and resources.

- FEMA flights are available from Atlanta to PR/VI (estimated Friday-Monday). For the near-term, EPA will deploy personnel as follows:

    - Six seats reserved for two teams of three responders who will go and assess priority drinking water and waste water facilities in the USVI. Priorities will include those servicing hospitals and sensitive populations. This group would leave 24 hours after the storm passes. Flight expected to leave on 9/22,

    - Twenty seats are reserved for EPA responders to return to the USVI. Flight expected to leave on 9/23 or 48 hours after storm passing.

- All flights and where they arrive (USVI or PR) will depend on the condition of airports post-Maria. Lodging has also been requested through FEMA once responders arrive in the USVI or PR.

The table below displays the teams that have been deployed based on the assessment results in Puerto Rico or the USVI.

| **Quantity and Types of Teams Deployed 9/20/2017** | | |
|---|---|---|
| **Team Type** | **Puerto Rico** | **U.S. Virgin Islands** |
| Assessment Team – All Missions | 0 | 0 |
| Water Assessment | 0 | 0 |
| Hazard Evaluation | 0 | 0 |
| Oil Discharge Assessment | 0 | 0 |
| Container Recovery | 0 | 0 |
| Oil Recovery | 0 | 0 |
| ER/Recovery | 0 | 0 |
| Air Operations | 0 | 0 |
| Contaminated Debris | 0 | 0 |
| Operation Centers (REOC), PREOC, VITEMA, PR IOF, VI IOF | 1 (PR IOF) | 1 (STX VITEMA/FEMA Bunker) |

- 

**PUERTO RICO**

| | **CONTAINERS** | |
|---|---|---|

| | | | | TOTAL |
|---|---|---|---|---|
| | Drums (55 Gals) | Large Containers (<55 gals) | Large Containers (>55 gals) | |
| **9/20/2017** | 0 | 0 | 0 | 0 |
| **Total to Date** | 0 | 0 | 0 | 0 |

**U.S. VIRGIN ISLANDS**

| | CONTAINERS | | | TOTAL |
|---|---|---|---|---|
| | Drums (55 Gals) | Large Containers (<55 gals) | Large Containers (>55 gals) | |
| **9/20/2017** | 0 | 0 | 0 | 0 |
| **Total to Date** | 0 | 0 | 0 | 0 |

**AGENCY COORDINATION**

FEMA designated Hurricane Maria operations a Level 1 Incident. On 9/20 at 8AM, FEMA transitioned incident support responsibilities from the Regional Response Coordination Staff (RRCS) to the National Response Coordination Staff (NRCS). The NRCS will now direct and support the deployed National Incident Management Assistance Team (IMAT) and the Unified Coordination Group (UCO). This process will help to facilitate the movement of regional personnel into their assigned incident management positions as quickly as possible to meet incident needs following a Level 1 incident.

To support this transition, incident support responsibilities shifted from the Regional Response Coordination Center (RRCC) to the National Response Coordination Center (NRCC). The RRCC stood down on 9/20. Region 2 sent one rep to staff the RRCC ESF-10 desk in the FEMA NRCC in Washington D.C.

EPA has an OSC in the VITEMA/FEMA EOC bunker in St. Croix.

Two vessels, both named Paragon, are adrift near USVI; three tug vessels remain in the area monitoring the status

PR: Buckeye Partners requesting clearance from Port Authority to fly a strike team into PR to conduct damage evaluations of Yabucoa Buckeye Global Marine Terminal hazardous materials facility; facility stores up to 4.6 million barrels of petroleum and 25% of the gasoline and diesel for the island

When air traffic resumes post-storm, USCG will re-deploy eight National Strike Force (NSF) personnel and 18-foot shallow water boat from Clearwater, FL, and eight additional NSF personnel from PR to St. Thomas and St. Croix to resume ESF-10 activities

## SPILL/RELEASE RESPONSE

| Hotline Calls as of September 20, 2017 | |
|---|---|
| **Number of Irma Related Calls Received During Reporting Period 1300-0100** | 0 |
| **Total Number of Irma Related Calls to Date** | 5 |
| *** EPA is assessing each call through the NRC to determine appropriate response and forwarding reports to field personnel to conduct further assessments and response as** | |

## DRINKING WATER / WASTEWATER

No new Information to report

## REGULATED FACILITIES

The Regulated Facility Team (RFT) has temporarily suspended monitoring regulated facilities. All RMP, SPCC, and FRP facilities have responded to the post-Irma questionnaire, and as such the RFT will focus on regulated facilities impacted by Hurricane Maria.

In preparation for Hurricane Maria, the RFT sent a pre-storm assessment email on 9/18 to 197 RMP, FRP, and SPCC facilities in PR and the USVI. This pre-storm email: 1) reminded facilities to implement storm preparation procedures, 2) provided technical information regarding spill and release reporting, and 3) asked potentially compromised facilities to identify themselves for facility-specific compliance assistance.

The Regulated Facility Assessment Coordinator (RFAC) has discussed pre-storm and post-storm assessment activities with other Region 2 inspection programs, including UST, Federal Facilities, RCRA, and NPDES.

The RFT is prepared to conduct facility assessment work in the USVI and PR in the aftermath of Hurricane Maria.

## PUERTO RICO

| Facility Type | Sites Identified | Pre-Storm Remote Assessment | Post Storm Remote Assessment | Post Storm Field Assessment | Follow-up Action Required |
|---|---|---|---|---|---|
| **RMP** | 56 | 56* | 0 | 0 | 0 |
| **FRP** | 22 | 22* | 0 | 0 | 0 |
| **SPCC (non-FRP)[µ]** | 232[#] | 232[#]* | 0 | 0 | 0 |

| | | | | | |
|---|---|---|---|---|---|
| **Total** | 310# | 310# | 0 | 0 | 0 |

## U.S. VIRGIN ISLANDS

| Facility Type | Sites Identified | Pre-Storm Assessment | Post Storm Assessment | Post Storm Field Assessment | Follow-up Action Required |
|---|---|---|---|---|---|
| **RMP** | 1 | 1* | 0 | 0 | 0 |
| **FRP** | 6 | 6* | 0 | 0 | 0 |
| **SPCC (non-FRP)µ** | 57# | 57#* | 0 | 0 | 3 |
| **Total** | 64# | 64# | 0 | 0 | 3 |

## EPA RESOURCES

The following chart shows deployments that were repositioned *prior to* Hurricane Maria. As of 9/19 all EPA and contractor responders in the Caribbean have been repositioned to the Mainland US, except for one OSC remaining in the St. Croix, USVI FEMA bunker, one EPA employee who resides in St. Thomas, USVI and is sheltering in place, two OSCs who reside on Puerto Rico and are sheltering in-place, and one CIC who is visiting family on PR.

| Personnel | EPA Edison, NJ NYC San Juan, PR^ | FEMA RRCC Colts Neck, NJ | Puerto Rico Deployments* | USVI Deployments* | Totals |
|---|---|---|---|---|---|
| **EPA** | 58 | 1 | 4 | 2 | 65 |
| **START/ RST** | 8 | 0 | 2 | 0 | 8 |
| **ERRS** | 6 | 0 | 0 | 0 | 6 |
| **Other Contractors** | 0 | 0 | 0 | 0 | 0 |
| **Totals** | 72 | 2 | 5 | 2 | 79 |

*One person on STT and one person on STX.
^Number includes personnel in the REOC, RICT, and CEPD personnel that are working the response.

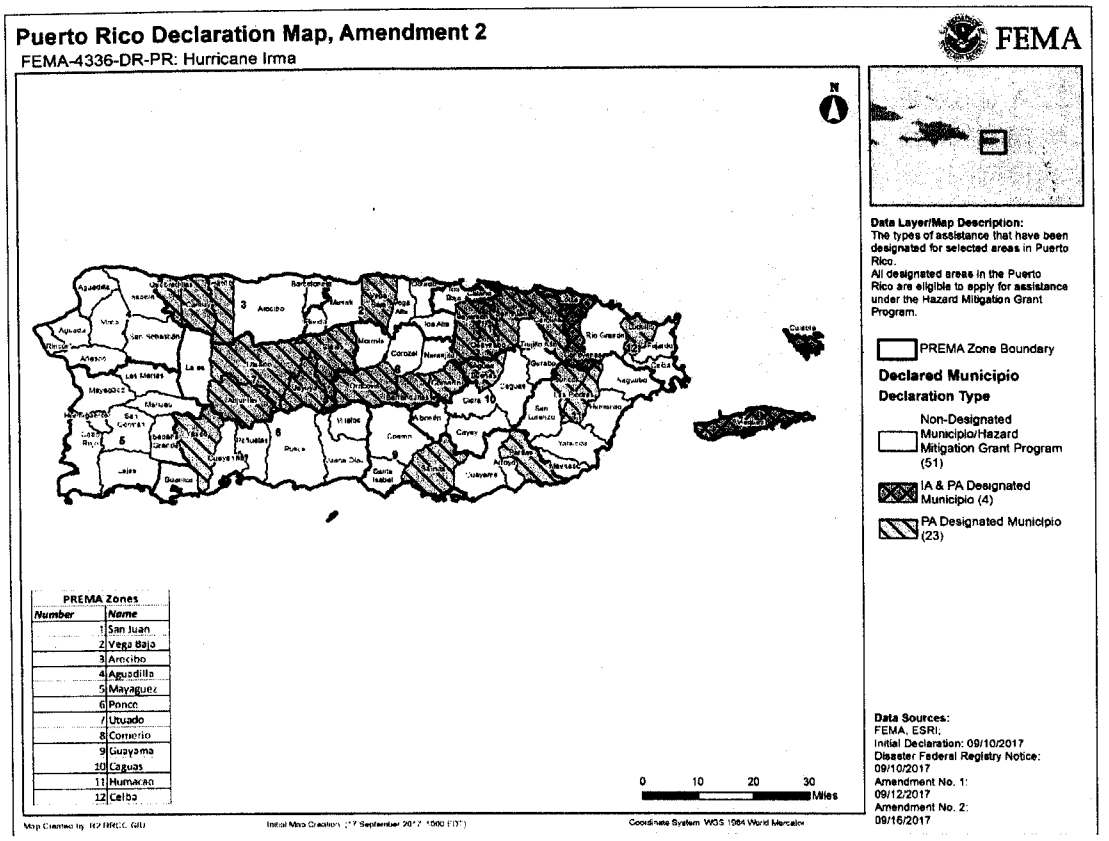
## DECLARATIONS FOR HURRICANE IRMA

### Puerto Rico.

Emergency Declaration FEMA-3384-EM effective September 5. Assistance is for all 78 municipalities in the Commonwealth of PR. The Governor of Puerto Rico requested a disaster declaration 9/8.

Disaster Declaration FEMA-4336-DR effective September 9. Declared areas only include Culebra and Vieques. On 9/13 ten additional municipalities in Puerto Rico were added to the major declaration, and are now eligible for work under any DFA MA's that we receive. The municipalities are: Adjuntas, Canovanas, Carolina, Guaynabo, Juncos, Loiza, Luquillo, Orocovis, Patillas, and Utuado.

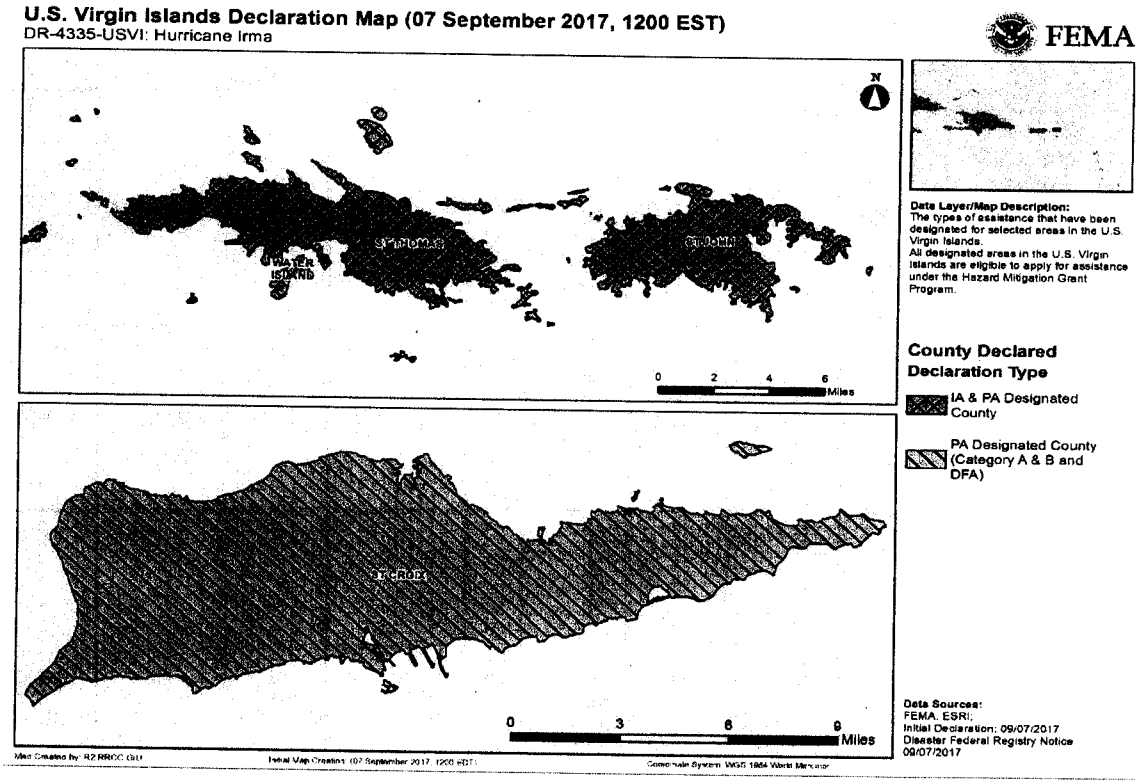
On 9/15, fifteen additional municipalities were added to the major declaration and are now eligible for Public Assistance. The municipalities are: Aguas Buenas, Barranquitas, Bayamón, Camuy, Cataño, Ciales, Comerío, Hatillo, Jayuya, Las Piedras, Quebradillas, Salinas, San Juan, Vega Baja, and Yauco.




**U.S. Virgin Islands.**

Disaster Declaration FEMA-4335-DR effective September 7, 2017. St. Thomas and St. John approved for Individual Assistance, all islands eligible for Public Assistance and the Hazard Mitigation Grant Program.

Emergency Declaration FEMA-3383-EM effective September 5. Assistance is for all islands in the Territory of the USVI.




## DECLARATIONS FOR HURRICANE MARIA

### Puerto Rico.

Emergency Declaration. The President has signed Emergency Declaration FEMA-3391-EM for Puerto Rico.

### U.S. Virgin Islands.

Emergency Declaration. The President has signed Emergency Declaration FEMA-3390-EM for the Territory of the U.S. Virgin Islands for Hurricane Maria.

On 9/20, The President has signed a Disaster Declaration FEMA-4340-DR for the Territory of the U.S. Virgin Islands for Hurricane Maria.

## FUNDING FOR IRMA AND INITIAL FUNDING FOR MARIA

| Mission Assignment Number | Purpose | Start Date | End Date | Total Amount | Indirect Costs | Amt. Available | Daily Burn Rate | Used | Balance |
|---|---|---|---|---|---|---|---|---|---|
| VI-17090102-EPA-01 | EPA to FEMA R2 RRCC (Colts Neck, NJ) | 9/2/17 | 9/11/17 | $10,000 | $1,046 | $8,954 | $0 | $8,954 | $0 |
| 4335DR-VI-EPA-01 | EPA to FEMA R2 RRCC (Colts Neck, NJ) and | 9/7/17 | 10/7/17 | $100,000 | $10,466 | $89,534 | $1,200 | $23,196 | $66,338 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | FEMA NRCC (Washington, DC) | | | | | | | | |
| 3383EM-VI-EPA-01 | EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA & NRA Teams and other coordination venues | 9/7/17 | 9/16/17 | $75,000 | $7,850 | $67,150 | $0 | $67,200 | $0 |
| 4335DR-VI-EPA-02 | Assess oil & hazmat releases, contaminated debris & other environmental events in VI | 9/7/17 | 9/30/17 | $508,000 | $53,170 | $454,830 | $35,000 | $345,600 | $109,230 |
| 4335DR-VI-EPA-04 | Removal, cleanup and disposal of oil & hazmat; collect and dispose of HHW; monitor immediate threats to public H&S and the environment in the VI | 9/13/17 | 10/13/17 | $10,000,000 | $1,046,646 | $8,953,354 | $0 | $0 | $8,953,354 |
| 4335DR-VI-EPA-06 | EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA & NRA Teams and other coordination venues | 9/2/17 | 10/13/17 | $2,000,000 | $209,329 | $1,790,671 | $19,200 | $416,000 | $1,374,671 |
| PR-17090102-EPA-01 | EPA to FEMA R2 RRC and other coordination venues as necessary | 9/1/17 | 9/11/17 | $20,000 | $2,093 | $17,907 | - | $17,907 | $0 |
| 3384EM-PR-EPA-01 | EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA and NRA Teams and other coordination venues | 9/6/17 | 9/16/17 | $75,000 | $7,850 | $67,150 | $12,000 | $64,800 | $2,350 |
| 3384EM-PR-EPA-03 | Assess oil & hazmat releases, contaminated debris & other environmental events in PR | 9/9/17 | 9/30/17 | $508,000 | $53,170 | $454,830 | $12,000 | $139,200 | $315,630 |
| 4336DR-PR-EPA-01 | EPA to FEMA RRCC. Funding for EPA | 9/10/17 | 10/10/17 | $100,000 | $10,466 | $89,534 | $12,000 | $58,800 | $30,734 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | command centers is authorized. | | | | | | | | |
| | | | | | Grand Total | $11,993,914 | N/A | $1,141,657 | $10,852,307 |

Note regarding MA 4335DR-VI-EPA-06: $50,000 was allocated to the USEPA HQ EOC, from MA 4335DR-VI-EPA-06, to supplement costs incurred during the Hurricane Irma response.

## FUEL WAIVERS

Fuel waivers are not needed for PR or USVI.

## LONG RANGE PLANNING

- **National Disaster Recovery Framework (NDRF) Activities.** FEMA has begun long range recovery planning and is in contact with the EPA Office of the Administrator's (OA) disaster recovery coordinator. The Acting Regional Administrator is Region 2's Federal Disaster Recovery Coordinator with CASD providing support. CASD is in communication with the OA and is working with CEPD and the other divisions to identify Region 2 contacts for the six Recovery Support Function (RSF) areas: 1.) Community Planning and Capacity Building, 2.) Economic Recovery, 3.) Health and Social Services, 4.) Housing Recovery, 5.) Infrastructure Systems, and 6.) Natural and Cultural Resources. This work will assist the Agency to identify potential recovery challenges and plan for resiliency. EPA Region 2 disaster response and recovery personnel are coordinating and will share our Irma data collection and results of our assessment efforts.

- **Hurricane Maria.** On 9/21 at 0500 hrs, the large eye of Hurricane Maria was located about 70 miles north of Punta Cana, Dominican Republic. Maria is moving toward the NW near 9 mph and this general motion is expected through tonight. A turn toward the N-NW is forecast on Friday. On the forecast track, the eye of Hurricane Maria will continue to pass offshore of the NE coast of the Dominican Republic today. Maria should then move near the Turks and Caicos Islands and the SE Bahamas tonight and Friday. Maximum sustained winds are near 115 mph with higher gusts. Maria is a category 3 hurricane on the Saffir-Simpson Hurricane Wind Scale. Some strengthening is possible during the next day or so. Hurricane-force winds extend outward up to 60 miles from the center and tropical-storm-force winds extend outward up to 150 miles. Punta Cana in the eastern Dominican Republic recently reported a wind gust to 56 mph.

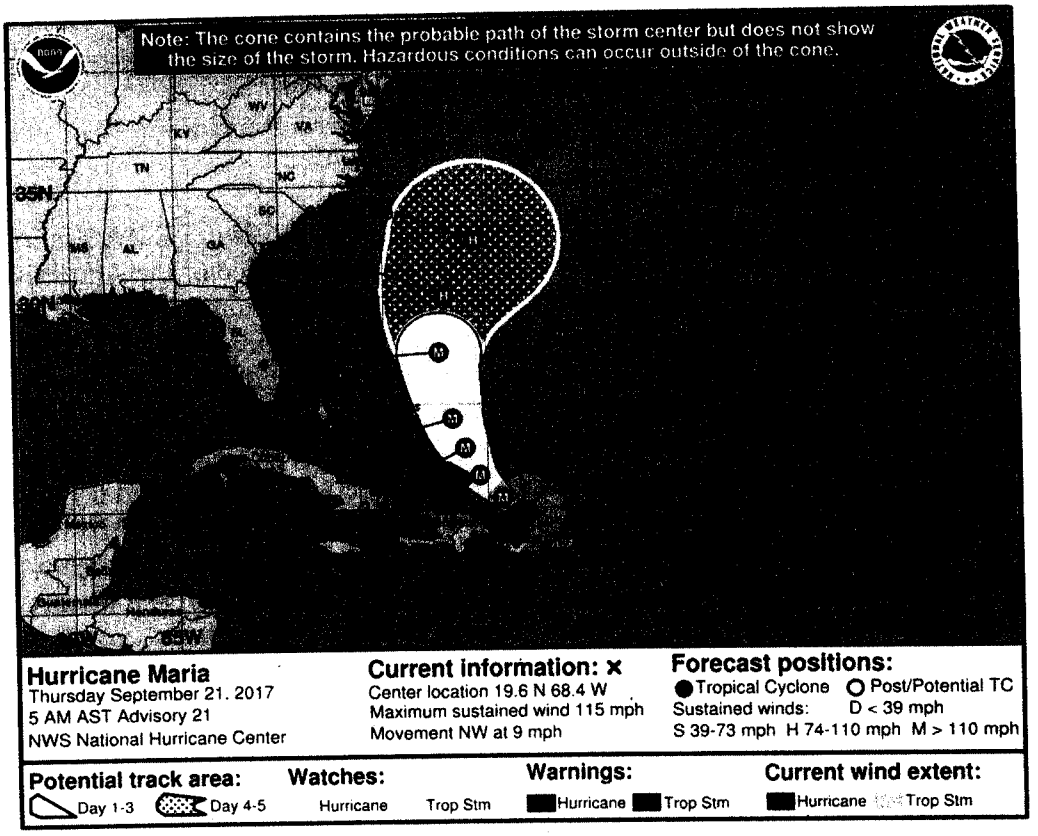
  WIND: Strong gusty winds are still occurring over portions of Puerto Rico, but should continue to gradually subside this morning.

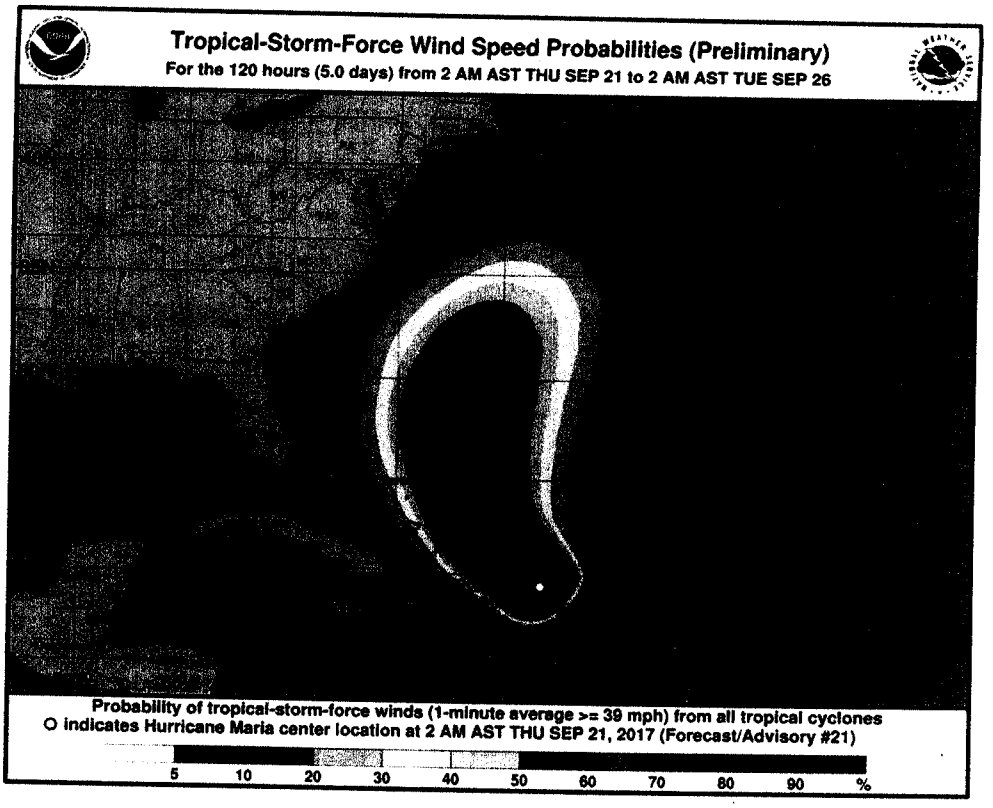
  STORM SURGE: Water levels in Puerto Rico should continue receding during the next few hours.

  RAINFALL: Maria is expected to produce the following rainfall accumulations through Saturday: Puerto Rico...additional 4 to 8 inches, isolated maximum storm total amounts 35 inches. U.S. and British Virgin Islands...additional 2 to 4 inches. Rainfall

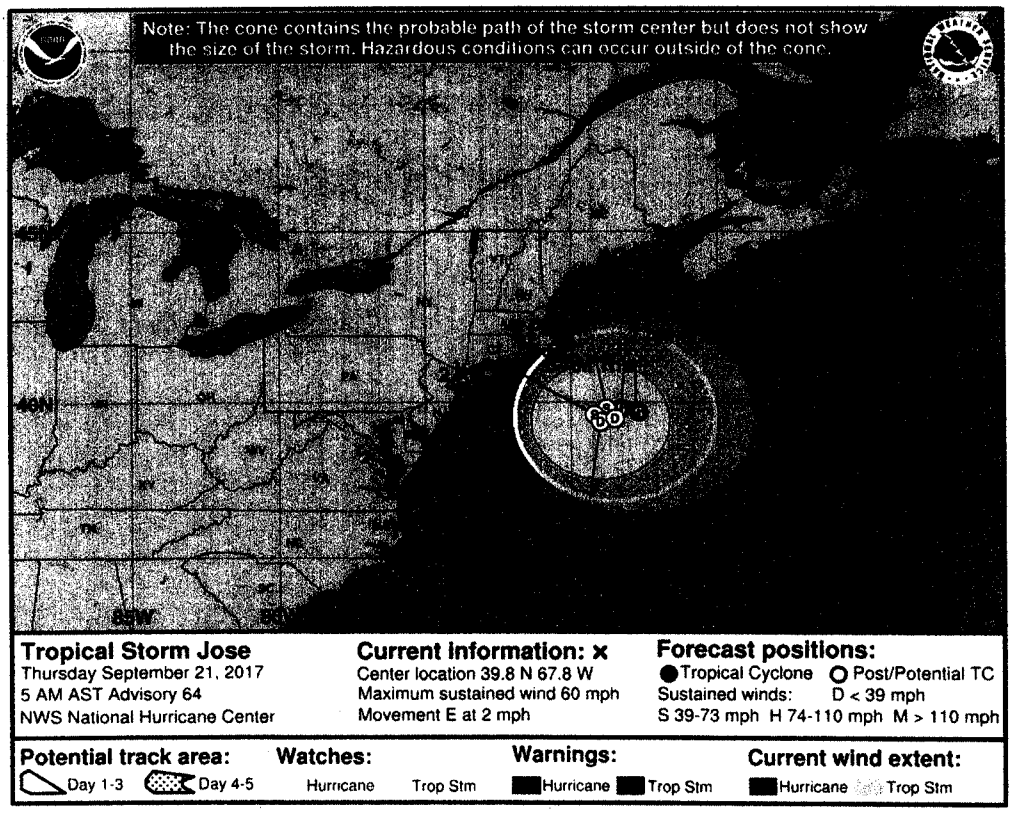
on these islands will continue to cause life-threatening flash floods and mudslides.

SURF: Swells generated by Maria are still affecting the Leeward Islands, Puerto Rico, and the Virgin Islands. These swells are likely to cause life-threatening surf and rip current conditions.





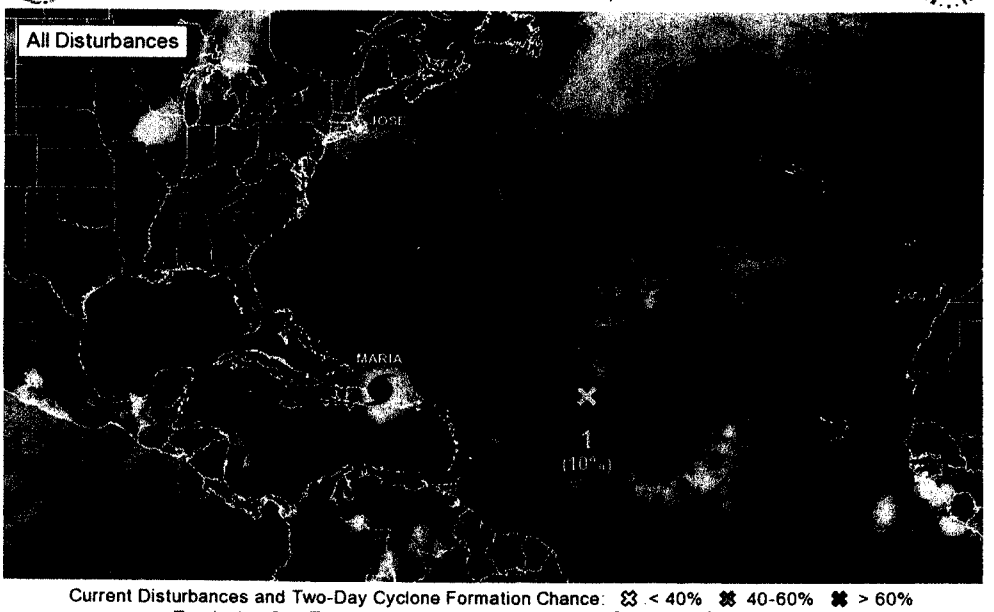

- **Tropical Storm Jose.** On 9/21 at 0500 hrs, the center of TS Jose was located about 150 miles SE of Nantucket, MA. Jose is moving toward the east near 2 mph. Jose is expected to meander off the coast of SE New England for the next several days Maximum sustained winds are near 60 mph with higher gusts. Gradual weakening is forecast during the next 48 hours. Jose is forecast to become post-tropical by Friday. Tropical-storm-force winds extend outward up to 230 miles from the center. A gust to 48 mph was recently reported at the Nantucket Airport.




- **Additional Threats to U.S. Caribbean.**
  - No additional threats expected
- **Future Weather Outlook.**

## Two-Day Graphical Tropical Weather Outlook

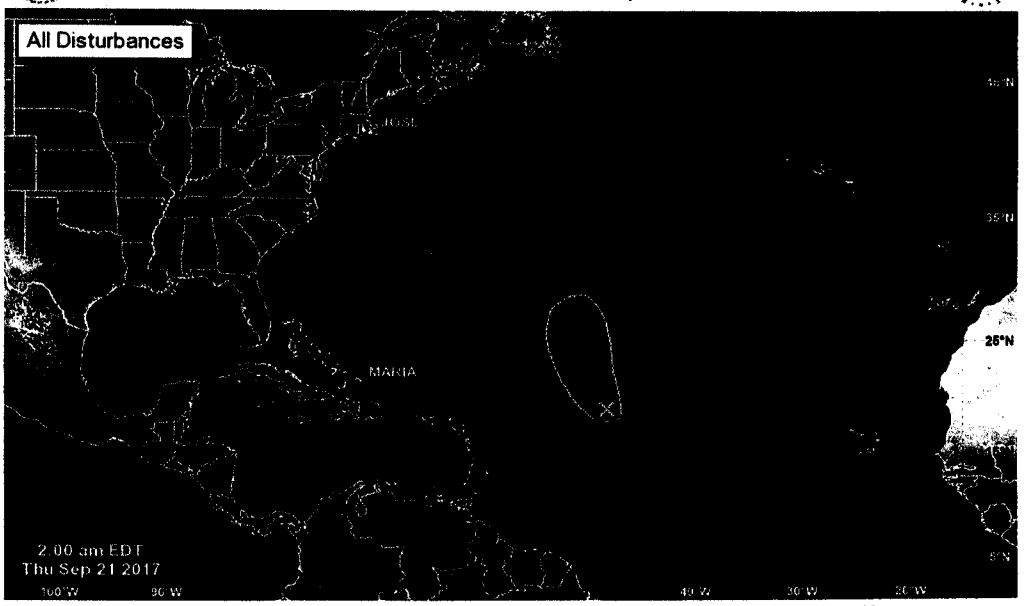
National Hurricane Center Miami, Florida




Current Disturbances and Two-Day Cyclone Formation Chance: < 40% 40-60% > 60%
Tropical or Sub-Tropical Cyclone: O Depression Storm Hurricane
Post-Tropical Cyclone × Remnants

## Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida




Current Disturbances and Five-Day Cyclone Formation Chance: < 40% 40-60% > 60%
Tropical or Sub-Tropical Cyclone: O Depression Storm Hurricane
Post-Tropical Cyclone × Remnants

# September 25, 2017 - October 1, 2017

September 2017

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

October 2017

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

## Monday, September 25

[redacted]

**12:30pm - 1:30pm Keynote Address - Kenneth Wager**

**1:00pm - 2:00pm Hurricanes Maria/Irma/Harvey: PCC Meeting and Conference Call** (Dial-In: 866-299-3188; Participant Code: (b)(6) [redacted] - EOC_Deputy_Manager

**2:30pm - 4:30pm SC Energy Stakeholder Roundtable** (Francis Marion Hotel - Middleton Room - Lower Lobby of Hotel)

**4:45pm - 5:45pm Conference Call w/ Bill Johnson - TVA** (Trey will call Mr. Johnson at 865-632-2366) - Glenn, Trey

## Tuesday, September 26

**12:00am Washington, DC** →

[redacted]

## Wednesday, September 27

← **12:00am Washington, DC**

[redacted]

**10:30am - 11:00am Meet and Greet with Mr. Trey Glenn, Regional Administrator, Region 4** (3513 WJC North) - Dravis, Samantha

[redacted]

**12:00pm - 12:30pm Meeting w/Liz Bowman and Trey Glenn** (3413 North) - Glenn, Trey

**1:00pm - 2:00pm Hurricanes Maria/Irma/Harvey: PCC Meeting**

**1:30pm - 2:00pm Meeting with Trey Glenn -- Regional**

**3:00pm - 4:00pm Meeting**

## Thursday, September 28

**7:00am - 8:00am Meeting**

[redacted]

(b)(6)

[redacted]

**2:00pm - 3:00pm All Manager's Meeting** (Conference Room 9 D&E 1-866-299-3188 - Code (b)(6) [redacted] - Glenn, Trey

[redacted]

## Friday, September 29

[redacted]

**1:00pm - 2:00pm Hurricanes Maria/Irma/Harvey: PCC Meeting and Conference Call** (Dial-In: 866-299-3188;Participant Code: (b)(6) [redacted] - EOC_Deputy_Manager

## Saturday, September 30

## Sunday, October 1

Hurricane Harvey/Irma Policy Coordinating Committee

(Deputy EOC Manager) Agenda September 27, 2017

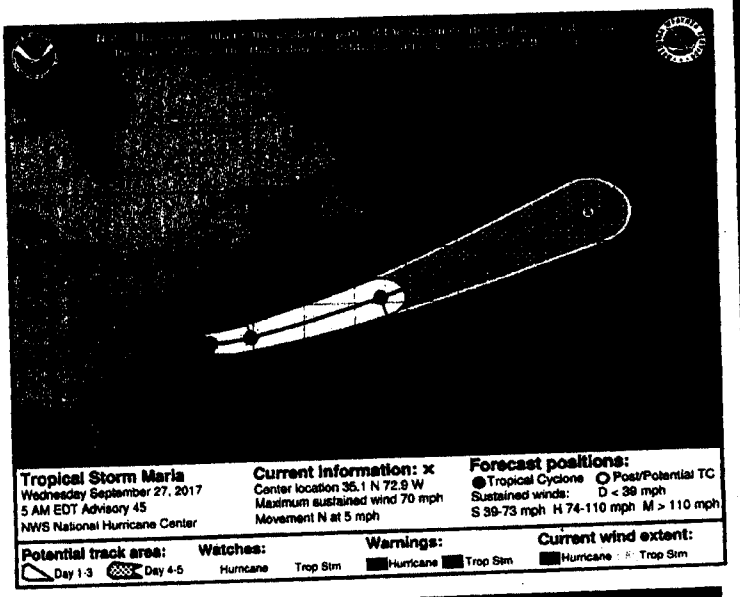
Draft – withheld Exemption 5

# Senior Leadership Briefing and Recovery Snapshots
# Tropical Storm Maria and Post-Tropical Cyclones Irma and Harvey
**Wednesday, September 27, 2017 (5:00 a.m. EDT)**
**Updates in Blue**

## Current Situation:

At 5:00 AM EDT, Tropical Storm Maria was 145 miles east of Cape Hatteras, NC. Maximum sustained winds were 70 mph; this broad system is moving north at 5 mph and, as she weakens in the next 36 hours will move rapidly away from east coast by the end of week. Tropical-storm-force winds extend outward up to 230 miles. Tropical storm force winds have been impacting eastern North Carolina and will affect eastern Virginia and the Delmarva today. A Tropical Storm Warning is still in effect from Bogue Inlet to the North Carolina/Virginia border, including the Albemarle and Pamlico Sounds. A Storm Surge Warning is in effect for Ocracoke Inlet to Cape Hatteras (2 to 4 feet at the time of high astronomical tides (12-2 am/pm Tue-Wed). Rainfall is expected to be less than 1 inch over eastern North Carolina.

Flash flood warnings remain in effect through late tonight for Isabela and Quebradillas (northwest Puerto Rico) as well as Cabo Rojo, Mayaquez, San German and Hormiqueros (southwest Puerto Rico). Heavy rainfall is anticipated Friday and Saturday for Puerto Rico and the US Virgin Islands which will aggravate already swollen rivers and low-lying areas. *(NOAA Update, September 26, 2017, 5:00 a.m. EDT)*




## Impact Summary:

| | Population Impacts | | | | | |
|---|---|---|---|---|---|---|
| | Confirmed Fatalities | Shelters/ Population* | Estimated Power Outages | Hospitals | Evacuations and Curfews | Other |
| | 16 confirmed by the PR Director of Public Safety | Shelters: 161 (-11)<br>Pop: 10,164 (-1089) | 1.57 million (100%) (estimate) | 59 of 69 hospitals operational with unknown status | Curfew in effect from 7pm to 5am until further notice; with exceptions for responders, officials, and emergencies | Public schools closed |
| | Media reports one fatality | USVI Shelters: 7<br>Pop: 618 (-3)<br><br>St. John<br>Shelters: 2<br>Pop: 29<br>St. Thomas<br>Shelters: 2<br>Pop: 264<br>St. Croix<br>Shelters: 3<br>Pop: 325 | St. Thomas: 19,574 (99%)<br>St. John: 2,893 (100%)<br>St. Croix: 25,274 (90%) | Gov Juan F. Luis (St. Croix) is structurally sound but has damage<br><br>Schneider Hospital (St. Thomas) is re-energized, with mobile hospital | St. Thomas and St. John: curfew is 5pm-7am<br>St. Croix: curfew is 5pm-11am | Public schools remain closed |
| ***As of:*** | *September 26 11:03 p.m.* | *September 27 4:20 a.m.* | *September 26 6:00 p.m.* | *September 27 1:48 a.m.* | *September 26 11:03 p.m.* | *September 23 8:30 a.m.* |

*(PREMA, ESF-6, ESF-12, ESF-8, USVI SitRep)*

** Due to limited communications, there may be delays in regular shelter reporting*

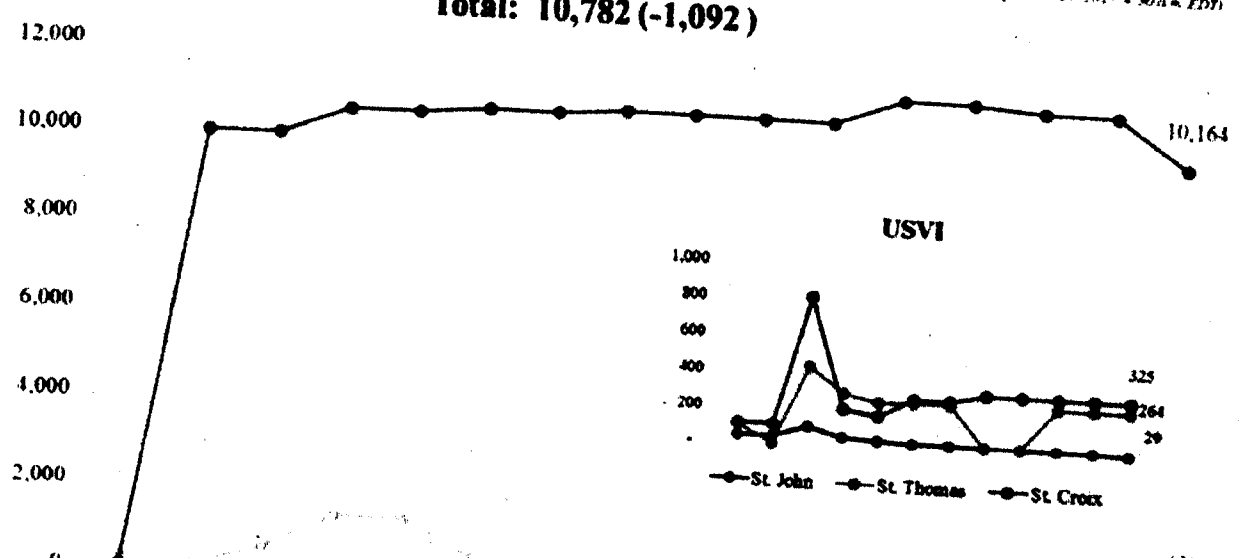
## Infrastructure Impacts

| | | | | | | |
|---|---|---|---|---|---|---|
| | San Juan: Open to commercial (0700-1700) with flow management procedures in place Aguadilla (BNQ), Ponce (PSE), and Roosevelt Roads (RVR) are operational for military air and hurricane relief only | Open: San Juan, Guayanilla, Salinas, and Tallaboa. Open with restrictions: Arecibo, Fajardo, Vieques, Culebra, and Guayama. All other ports closed | 3 major routes cleared<br><br>Initial reports of at least 18 bridges damaged; 6 on national highways<br><br>Sections of 11 roads closed | Petroleum Terminals and Liquefied Natural Gas (LNG) Terminals in PR are closed | 44% of population in PR without drinking water service; Boil Water Notice is in effect for PR until further notice | 90.9% (-.3%) of cell sites are out of service. 2,429 (-41) of 2,671 cell sites are out of service. 385 (-2) on backup power |
| | St. Thomas: Military air and hurricane relief; contingency ramp established<br><br>St. Croix: Military air and hurricane relief; contingency ramp established | St. Thomas<br>Open with restrictions: Charlotte Amalie, East Gregerie Channel, West Gregerie Channel (Crown Bay), Red Hook Bay<br><br>St. John<br>Open with restrictions: Cruz Bay<br><br>St. Croix<br>Open with restrictions: Krause Lagoon; Limetree Bay. Open with restrictions Frederiksted<br><br>All other ports closed | Numerous routes partially closed on St. Thomas, St. John, and St. Croix, with single lane alternating traffic due to debris.<br>St. Croix: Sinkholes are beginning to open | Petroleum Terminals and Liquefied Natural Gas (LNG) Terminals in USVI are closed | St. Thomas: Potable water service restored to all communities in east end of island and two districts. Water sampling analysis ongoing<br><br>St. John: Potable water service is available throughout the island; two days emergency water supply available. Water sampling analysis ongoing<br><br>St. Croix: Seven Seas water production plant is operational; one day emergency water supply available. Water sampling analysis ongoing | USVI: 63.3% (+1.1%) of cell sites are out of service<br><br>St. Croix has 78.6%, St. John has 66.7%; and St. Thomas has 47.3 % of cell sites out of service |
| *As of:* | *September 26 8:30 p.m.* | *September 27 12:55 a.m.* | *September 26 8:34 p.m.* | *September 26 8:30 a.m.* | *September 26 5:26 p.m.* | *September 27 12:42 a.m.* |

*(ESF-1, USCG, ESF-12, ESF-10, ESF-2 Updates)*

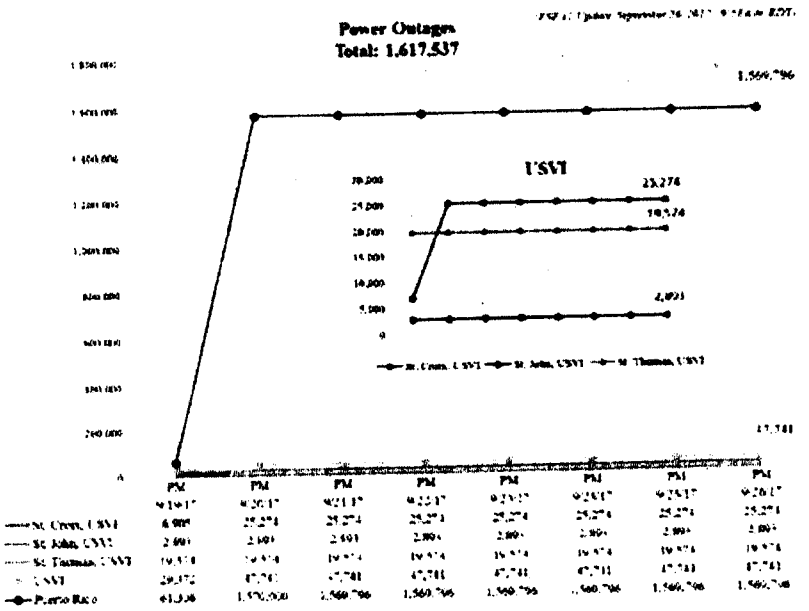
## Shelter Population
## Total: 10,782 (-1,092)

*(ESF-6 Update September 27, 2017 at 10:00 a.m. EDT)*




| | PM 9/19/17 | AM 9/20/17 | PM 9/20/17 | AM 9/21/17 | PM 9/21/17 | AM 9/22/17 | PM 9/22/17 | AM 9/23/17 | PM 9/23/17 | AM 9/24/17 | PM 9/24/17 | AM 9/25/17 | PM 9/25/17 | AM 9/26/17 | PM 9/26/17 | AM 9/27/17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| USVI | 248 | 185 | 574 | 1,353 | 1,353 | 558 | 558 | 471 | 471 | 575 | 575 | 391 | 391 | 621 | 621 | 618 |
| Puerto Rico | 48 | 9,981 | 9,981 | 10,570 | 10,570 | 10,692 | 10,692 | 10,792 | 10,792 | 10,792 | 10,792 | 11,359 | 11,359 | 11,253 | 11,253 | 10,164 |

**Due to limited communications, there are delays in regular shelter reporting. Updates will be provided as they become available*




## Declaration Activity:

| Territory | Declaration | Declared Counties: Individual Assistance | Public Assistance | Cost Share |
|---|---|---|---|---|
| | 9/20: *DR-4339* | 54 municipalities | All | 100% for debris removal and emergency protective measures for 180 days from declaration date |
| | 9/10: *DR-4336* | 4 municipalities | 27 municipalities | 75% |
| | 9/20: *DR-4340* | St. Croix, St. John, St. Thomas | All | 75% |
| | 9/7: *DR-4335* | St. Thomas, St. John | All (Categories A-G) | 100% for debris removal and emergency protective measures for 180 days from declaration date |

*(FEMA Declarations Unit, September 26, 2017, 5:52 p.m. EDT)*

## Force Laydown:

| Department Agency | Puerto Rico | U.S. Virgin Islands: St. Croix | St. John | St. Thomas | Totals |
|---|---|---|---|---|---|
| | 76 | 32 | 4 | 39 | 151 |
| | 94 | 50 | 3 | 25 | 172 |
| | 34 | * | * | * | 34 |
| | 54 | * | * | * | 54 |
| | 0 | 0 | 0 | 0 | 0 |
| | 2,839 | * | * | * | 2,839 |
| | 0 | 3 | 0 | 10 | 13 |
| | 160 | 15 | 31 | 0 | 206 |
| | 2 | 3 | 0 | 23 | 28 |
| | 25 | 5 | 0 | 4 | 34 |
| | 6 | 1 | 0 | 0 | 7 |
| | 241 | 0 | 0 | 0 | 241 |
| | 285 | 79 | 3 | 35 | 402 |
| | 261 | 0 | 0 | 0 | 261 |
| | 193 | 0 | 0 | 0 | 193 |
| | 6 | 0 | 0 | 0 | 6 |
| | 438 | * | * | * | 438 |
| | 1,394 | 1,074 | ** | ** | 2,468 |
| | 30 | 0 | 0 | 0 | 30 |
| | 15 | * | * | * | 15 |
| | 71 | 6 | 0 | 12 | 89 |
| | 1,181 | * | * | * | 1,181 |
| **TOTALS** | **7,405** | **1,268** | **41** | **148** | **8,862** |

**Personnel supporting throughout PR and USVI*
***Personnel supporting throughout USVI*
*(Situational Awareness Info Analysis, September 27, 2017, 3:30 a.m. EDT)*

## FEMA Headquarters:

- National Response Coordination Center (NRCC) at Level I (Full Activation) with 24/7 operations
- National Incident Management Assistance Team (IMAT) East-2 at the San Juan Convention Center
- Crisis Action Planning teams for Responder Lodging, Liquid Fuels, and Power Restoration operating 24/7 *(NRCC Update, September 26, 2017, 8:30 a.m. EDT)*
- **Recovery**
  - Strategic Workforce Augmentation Team taking calls at three National Processing Service Centers, FEMA pop-up call centers, Headquarters, all FEMA Regions, and from home; 5,227 call center agents available to receive calls. *(Recovery Contact Center Surge Staffing Timeline, September 25, 2017, 10:18 a.m. EDT)*
  - Total Individuals and Households Program Registrations for PR: 13,041 and USVI: 2,578 *(Open Disaster IA Summary, September 26, 2017, 7:02 p.m. EDT; Pre-Processing and Referral Statistics, September 26, 2017, 7:27 p.m. EDT)*
- **Mutual Aid**

| Region | Jurisdiction | # of Request(s) | # of States Supporting |
|---|---|---|---|
| II | PR | 39 (+9) | 5 (+1) |
| II | USVI | 28 (0) | 10 (0) |

*(EMAC Sit Rep #68, September 26, 2017, 7:00 p.m. EDT)*

## FEMA Region II

- Region II RRCC not activated; some RRCC staff supporting NRCC operations
- FEMA Region II IMAT in St. Croix, USVI; Region X IMAT on TS Kennedy en route to PR, estimated to arrive September 27 *(FOD Update, September 26, 2017, 1:11 a.m. EDT)*
- **Puerto Rico:**
  - EOC at Full Activation with limited operations, EOC on generator power and cell service is restored; PR Initial Operating Facility (IOF) established at the Convention Center in San Juan
  - Federal Coordinating Officer (FCO) is Alejandro De La Campa *(FOD Update, September 26, 2017, 5:00 p.m. EDT)*
- **U.S. Virgin Islands:**
  - Virgin Islands Territorial Emergency Management Agency (VITEMA) EOCs on each island at Full Activation *(RII DSAR Report, September 26, 2017, 3:00 p.m. EDT)*
    - St. Thomas EOC: USVI IOF is at VITEMA EOC on St. Thomas. Cell service is operational near EOC but not available in other areas *(RII DSAR Report, September 26, 2017, 3:00 p.m. EDT)*
    - St. Croix EOC: EOC is on generator power, internet connectivity is limited *(RII Update, September 26, 2017, 9:55 a.m. EDT)*
  - FCO is William Vogel *(RII Update, September 26, 2017, 9:55 a.m. EDT)*

## Interagency Coordination/Response:

- ***ESF-1: Transportation***
  - PR
    - Airports:
      - San Juan International Airport (SJU) operating limited domestic flights; Aguadilla (BNQ), Ponce (PSE), and Roosevelt Roads (RVR) operational for military air and hurricane relief only; Isla Grande (SIG) having difficulty managing traffic flow due to inconsistent frequencies *(PR SitRep 209 #4, September 26, 2017, 8:30 p.m. EDT)*
      - Generators serving San Juan Combined Center/Radar Approach Control failed, causing delays in SJU arrival and departure flights since September 23 *(ESF-1 Update, September 26, 2017, 1:05 a.m. EDT)*
      - Temporary Air Traffic Flow Management Procedures initiated for flights landing at Roosevelt Roads; times are required for all fixed-wing DOD and FEMA contract relief aircraft arriving into RVR and parking on contingency ramp *(ESF-1 Update, September 27, 2017, 12:05 a.m. EDT)*
    - Roads:
      - PR Department of Transportation and Public Works (DTOP) identifying closed and damaged bridges; initial assessment reports at least 18 bridges damaged; at least 6 are National Highway System *(ESF-1 Update, September 26, 2017, 9:10 p.m. EDT)*
      - DTOP reports 1,406 incidents – downed power lines, downed trees, etc. *(ESF-1 Update, September 26, 2017, 9:10 p.m. EDT)*
      - Road closures in effect for sections of PR-1, PR-2, PR-10, PR-23, PR-25, PR-52, PR-145, PR-156, PR-167, PR-177, PR-957 *(ESF-1 Update, September 26, 2017, 12:22 p.m. EDT)*

- PR-2: Closure in Toa Baja (over the La Plata River); 3-mile detour is in place
- PR-52: Lanes closed Southbound in Ponce; detours in place until crossover can be built
- PR-957: Closure in Canóvanas due to bridge washout *(ESF-1 Update, September 26, 2017, 3:39 p.m. EDT)*

- Ports:
  - La Suprema (designated for responder housing) received USCG approval to enter Port of San Juan *(USCG Update, September 27, 2017, 12:55 a.m. EDT)*
  - Surveys conducted in Arecibo by NOAA mobile survey team and USCG vessel
  - Ports of Mayaguez and Ponce scheduled to be surveyed by USACE, pending debris removal of roads *(USCG Update, September 27, 2017, 12:55 a.m. EDT)*

- USVI
  - Airports:
    - Special Notice issued for airspace around St. Thomas and St. Croix until September 30, 2017 at 11:00 p.m. AST *(ESF-1 Update, September 26, 2017, 8:51 p.m. EDT)*
    - Contingency ramp established at St. Croix to support Hurricane Maria disaster response and recovery missions; all aircraft landing at St. Croix using the contingency ramp must call for a time *(ESF-1 Update, September 26, 2017, 9:42 p.m. EDT)*
  - Roads:
    - St. Croix
      - Numerous roads are open, however there is major debris from trees and powerlines; Sinkholes are beginning to open, anticipating bridges may be impassable; All traffic signals are out
        - Del Gallows Bay area: reports indicate roads are impassable
        - Mahogany Road near Hands Bluff: reports indicate roads are impassable
        - Queen Mary Rd. (main island road): open and passable by at least one lane
  - Ports:
    - Port of Christiansted in St. Croix scheduled for survey by USACE on September 28 *(USCG Update, September 27, 2017, 12:55 a.m. EDT)*

- ***ESF-2: Communications***
  - FEMA providing a total of 361 satellite (SAT) phones to support operations in PR and USVI
    - 126 SAT phones on PAX charter to PR arrived *(ESF-2 Update, September 27, 2017, 1:00 a.m. EDT)*
    - 235 SAT phones shipped to distribution center (DC) Atlanta to arrive early September 27; 135 PR and 100 USVI *(ESF-2 Update, September 27, 2017, 1:00 a.m. EDT)*
  - PR
    - Two Mobile Emergency Response Support (MERS) teams arrived, and one additional MERS team arriving September 27 *(ESF-2 Update, September 27, 2017, 1:00 a.m. EDT)*
    - Telecommunication companies opened up roaming to increase capability of coverage service to subscribers *(Interagency VTC Update, September 26, 2017, 12:30 p.m. EDT)*
    - Small and large telecommunication companies coordinating infrastructure assessment and repairs; large telecoms have agreed to provide repairs to infrastructure regardless of ownership *(Interagency VTC Update, September 26, 2017, 12:30 p.m. EDT)*
  - USVI
    - Office of Emergency Communications assisting VITEMA with prioritization of fuel needs for governmental and industry communications partners effecting or supporting life-saving and life sustaining operations *(ESF-2 Update, September 27, 2017, 12:30 a.m. EDT)*
    - Public Service Answering Points remain non-operational repairs are limited due to site access and security arrangements.
      - St. Croix 911 Call Center completely down due to significant damage to the building
      - St. Thomas 911 Call Center unable to retrieve location information due to technical issues *(ESF-2 Update, September 27, 2017, 12:30 a.m. EDT)*

- ***ESF-3: Public Works and Engineering***
  - PR
    - Generators
      - One generator installed (two in progress); 28 of 51 pre-installation inspections complete
      - 84 generators available on hand, 29 in Atlanta Distribution Center expected arrival September 28 *(Caribbean Power Restoration Support update, September 27, 2017, 3:00 a.m.)*

- Water:
  - Puerto Rico Aqueducts and Sewer Authority services 92.5% of PR, 42% of their service population is without drinking water service; EPA issued a Boil Water Notice until further notice *(ESF-10 Update, September 26, 2017, 11:13 a.m. EDT)*
  - Developed a repair plan, determined quantities for Multi Medical Rehabilitation Hospital, and initiated mobilization of Planning Response Team; anticipate six members and one subject matter expert to arrive no earlier than September 28 *(PR SitRep 209 #4, September 26, 2017, 8:30 p.m. EDT)*
- Harbors:
  - U.S. Army Corps of Engineers (USACE) completed surveys of San Juan Harbor and Arecibo Harbor September 25; estimated completion of Mayaguez Harbor survey September 26; survey of Ponce Harbor next, no estimated completion date *(ESF-3 Update, September 27 2017, 1:33 a.m. EDT)*
- Dams:
  - Safety inspection memorandums provided for September 26 inspections of Guajataca Dam, Toa Vaca Dam, the Lucchetti Dam, and Loiza Dam; no visible signs of alarm or distress on the other three dams inspected
    - Regional Contractors completed dam impact assessments for 12 of 34 dams *(PR Sit Rep, September 25, 2017, 9:30 p.m. EDT)*
    - Guajataca Dam: USACE continues to assist with the coordination of dam safety engineers; shipment of flood fight supplies such as the large sand bags, shackles and slings will be provided thru EMAC agreement with the Pennsylvania National Guard and Puerto Rico Emergency Management Association (PREMA)
    - Reservoir pool at capacity with minor overwash at some gates; leakage beneath and along the vertical edges of gates observed, ESF-3 working to gain full access for assessment *(ESF-3 Update, September 27 2017, 1:33 a.m. EDT)*
- Debris: PR Department of Transportation and Public Works reports 1,072 incidents of downed power lines, downed trees, and other debris *(ESF-3 Update, September 27 2017, 1:33 a.m. EDT)*
- Blue Roof Mission: estimated 30,000 roofs damaged *(ESF-3 Update, September 25, 2017, 1:50 p.m. EDT)*
  - USACE issuing task order to the temporary roofing contractor to assist with roof repairs *(ESF-3 Update, September 26, 2017, 11:08 a.m. EDT)*
  - 25,000 plastic rolls of tarp (for blue roof missions) scheduled to arrive from Jacksonville, FL September 28 *(ESF-3 Update, September 26, 2017, 11:08 a.m. EDT)*

- USVI
  - Generators
    - 13 generators installed (three in progress); 67 of 84 pre-installation inspections complete
    - 156 generators available on hand, 21 contracted expected arrival September 27, and 30 in MOFFET DC arriving to St. Croix September 28 *(Caribbean Power Restoration Support update, September 27, 2017, 3:00 a.m.)*
    - A generator has been transported from St. Thomas to St. Croix for the Concordia Water Treatment Plant Pump Station *(USVI SitRep 209 #11/#4, September 26, 2017, 11:03 p.m. EDT)*
  - Water
    - Oceans System lab (samples remaining 161 drinking water systems on St. Croix) awaiting generator installation and is on priority listing; sampling and analysis will take a minimum of 24 hours once the lab is up and running *(ESF-10 Update, September 26, 2017, 5:30 p.m. EDT)*
    - Drinking water labs on St. Thomas and St Croix awaiting generator installation on priority list
    - Water and Power Authority (WAPA) system in St. Croix back online, but only represents 1 of the 162 drinking water systems operating on the island
  - Debris
    - ESF-12, VI Water and Power Authority Waste Management, and USACE addressing potential public health risks of garbage build up; coordinating route clearance of wires and poles to enable garbage haulers to access St. Thomas landfill *(USVI SitRep, September 25, 2017, 7:00 p.m. EDT)*
    - St. Thomas: USACE estimates debris volume at 400,000 cubic yards; debris removal operations to begin October 1 *(ESF-3 Update, September 26, 2017, 11:08 a.m. EDT)*
    - St. Croix: USACE estimates debris volume at 750,000 cubic yards *(ESF-3 Update, September 26, 2017, 11:08 a.m. EDT)*

- St. John: USACE estimates debris volume at 150,000 cubic yards. USACE scheduled to begin debris removal operations October 8 *(ESF-3 Update, September 26, 2017, 11:42 a.m. EDT)*
- Blue Roof Mission: Current blue roof estimates are 7,000 for St. Thomas; 1,000 for St. John; 5,000 for St Croix *(ESF-3 Update, September 26, 2017, 11:08 a.m. EDT)*
  - Blue Roof Mission: Right of Entry (ROE) Agreement collections: 104 homes in St. Thomas assessed and 26 ROEs collected; one roof installed

- ***ESF-4: Firefighting***
  - PR
    - 17 chainsaw teams (34 individuals) and one Type 2 Incident Management Team (IMT) (23 individuals) arrived in San Juan September 26 to conduct emergency road clearing and manage logistics; seven additional chainsaw teams arriving September 28 *(ESF-4 SitRep, September 26, 2017, 11:37 p.m. EDT)*
    - FDNY Type 2 IMT (85 individuals) arrived September 26 to provide command, control and coordination of resources and fire suppression personnel to assist PR Fire Department *(ESF-4 SitRep, September 26, 2017, 11:37 p.m. EDT)*
    - One Type 1 IMT (47 individuals) arrived in San Juan to support receiving and distribution of commodities *(ESF-4 SitRep, September 26, 2017, 11:37 p.m. EDT)*
  - USVI
    - One ESF-4 staff staged in Atlanta, GA to manage IMTs *(ESF-4 SitRep, September 26, 2017, 11:37 p.m. EDT)*
    - One National Incident Management Organization IMT (9 individuals) staged in Atlanta, GA to provide Fire Assessment and Fire Suppression implementation planning *(ESF-4 Update, September 26, 2017, 9:45 a.m. EDT)*
    - One Type 2 IMT (20 individuals) staged in Atlanta, GA to St. Croix to manage receiving and distribution of commodities *(ESF-4 SitRep, September 26, 2017, 10:59 a.m. EDT)*
    - One Type 2 IMT (26 individuals) staged in Atlanta, GA to St. Thomas to manage receiving and distribution of commodities *(ESF-4 Update, September 26, 2017, 9:45 a.m. EDT)*
- ***ESF-5: Information and Planning***
  - National Geodetic Survey aircraft completed aerial imagery of eastern PR September 25 and will continue acquiring imagery of storm surge impacts on the southern coast of PR daily *(NOAA website September 27, 2017 2:50 a.m. EDT)*
  - NOAA Survey Ship Thomas Jefferson en route to PR in support of hydrographic survey response operations; expected arrival September 28 (NOAA Update, September 26, 2017, 1:00 p.m. EDT)
- ***ESF-6: Mass Care, Emergency Assistance, Housing, and Human Services***
  - PR
    - Donations management specialist assisting with unsolicited donations *(ESF-6 Update, September 27, 2017, 1:00 a.m. EDT)*
    - 100 American Red Cross (ARC) staff arrived Sept 26 by charter flight
    - Working with local government to collect safe/well registration statistics for shelters and staging areas across the island
    - Collaborating with PREMA to support emergency supply distribution *(ESF-6 Update, September 27, 2017, 1:00 a.m. EDT)*
    - Salvation Army's 11 fixed feeding sites and nine mobile feeding units serving meals with support from local food sources; looking for ways to sustain feeding operations with support from local partners
    - Establishing a plan for FEMA registration processes in areas affected by communications outages; prioritizing registrations online, laptop PDFs, and paper registration as a last resort *(ESF-6 Update, September 25, 2017, 2:28 p.m. EDT)*
  - USVI
    - Distributed approximately 10,000 relief supplies across all three islands
    - 40 staff with communications equipment arriving September 27, 2017 on St. Croix *(ESF-6 Update, September 27, 2017, 1:00 a.m. EDT)*
    - Updated planning assumption is to feed 210,000 meals per day (2 meals per day per person with the population of 50,000 on St. Croix, 50,000 on St. Thomas and 5,000 on St. John) *(ESF-6 Update, September 26, 2017, 2:30 p.m. EDT)*
    - Coordinating efforts to deploy additional disaster feeding kitchens to St. Croix and St. Thomas
  - Voluntary Organizations

- FEMA Voluntary Agency Liaisons working with Puerto Rico Federal Affairs Administration (PRFAA) on collection and distribution of donations
- PRFAA managing monetary donations *(ESF-6 Update, September 27, 2017, 1:00 a.m. EDT)*

- ***ESF-7: Logistics Management and Resource Support***
  - Resource priorities are to facilitate communications, position teams on islands, establish incident support bases, supply fuel and address distribution issues, and provide security for commodities and services *(RSS Call, September 26, 2017, 10:00 a.m. EDT)*
  - All 87 GSA owned and leased properties in USVI and PR closed *(GSA Update, September 26, 2017, 1:48 p.m. EDT)*
  - 60,000 pounds of dry and pre-mix baby food and infant formula to be shipped September 28 via barge to St. Thomas with expected arrival October 5 (feeds 4,000 infants and toddlers for 21 days); to be distributed as part of ESF-6 Mass Care feeding plan for PR and USVI
  - PR
    - A total of 379,888 meals and 499,924 liters of water expected to arrive September 27 *(MCC Update, September 27, 2017, 5:00 a.m. EDT)*
    - Additional shipment scheduled to arrive via C-130 DAWG 88 *(MCC Update, September 27, 2017, 5:00 a.m. EDT)*
  - USVI
    - Governor announced that all point of distribution sites will be closed on September 27 *(USVI SitRep 209 #11/#4, September 26, 2017, 11:03 p.m. EDT)*
    - St. Croix: A total of 200,000 meals and 144,000 liters of water arrive September 27
    - St. Thomas: A total of 3,256 box meals is expected to arrive September 27 *(MCC Update, September 27, 2017, 5:00 a.m. EDT)*
  - Responder Lodging

| Name Vessel | Status | Destination Port | Arrival Date | Beds Capacity | Beds Occupied | Beds Open |
|---|---|---|---|---|---|---|
| PR Convention Center | Operational | PR: San Juan | N/A | 250 | 150 | 100 |
| TS Kennedy | En route | PR | 9/27 | 600 | | |
| MDD 302 | En route | PR | 9/28 | 302 | | |
| MDD 2000 | En route | PR | 10/2 - 10/5 | 2,044 | | |
| TS Empire State | En route | PR | 10/1 | 600 | | |
| La Suprema | En route | PR | 10/3 | 2,200 | | |
| | | | **PR TOTAL:** | **5,996** | **150** | **100** |
| Grand Celebration | Operational | USVI: St. Croix | 9/24 | 1,461 | 1,461 | 0 |
| SS Wright | Operational | USVI: St. Thomas | 9/24 | 315 | 158 | 157 |
| Ocean Carrier | En route | USVI: St. Thomas | 10/1 | 123 | | |
| MDD Passenger | En route | USVI: St. Thomas | 10/5 – 10/18 | 1,808 | | |
| Ocean Constructor | En route | USVI: St. John | 9/29 | 126 | | |
| | | | **USVI TOTAL:** | **3,833** | 1,619 | 157 |

*(ESF-7 Update, September 27, 2017, 4:29 a.m. EDT)*

- ***ESF-8: Public Health and Medical Services***
  - Four Disaster Medical Assistance Teams, one Disaster Mortuary Assessment Team, one HHS Mobilization Team, and one Service Access Team staged in Atlanta awaiting transport to PR and USVI *(ESF-8 Update, September 26, 2017, 12:27 p.m. EDT)*
  - PR
    - One Incident Response Coordination Team, seven Health and Medical Task Forces, one SAT, one DMORT Assessment Team, and two Joint Patient Assessment Tracking Teams engaged in San Juan *(ESF-8 Update, September 26, 2017, 12:27 p.m. EDT)*
    - Hospitals:
      - 59 of 69 hospitals operational with unknown status; Urban Search and Rescue (US&R) conducted 10 operational status assessments *(ESF-8 Update, September 27, 2017 1:48 a.m. EDT)*
      - Hospitals in Ponce, Mayaguez, and Arecibo (8 of the 69) underwent HHS need and capabilities assessments *(ESF-8 Update, September 27, 2017 1:48 a.m. EDT)*
      - Developed a repair plan, determined quantities for Multi Medical Rehabilitation Hospital, and initiated mobilization of Planning Response Team; anticipate six members and one subject matter expert to arrive no earlier than September 28 *(PR SitRep 209 #4, September 26, 2017, 8:30 p.m. EDT)*
    - Dialysis Centers: Of the 48 dialysis centers, 36 are operational, five are closed; two have an unknown status *(HHS Sit Rep, September 26, 2017, 7:00 a.m. EDT)*

- Pharmaceutical: FDA received a request to transfer IV fluids from damaged warehouse, generator for plant; transportation assistance for six engineers to assess damage *(Sit Rep. September 26. 2017. 7:00 a.m. EDT)*

- USVI
  - St. Croix:
    - Evacuation of eight dialysis patients and 13 general patients from the Juan F. Luis Hospital and Medical Center and Caribbean Kidney Center is expected to occur September 27, completing scheduled medical evacuations *(USVI SitRep 209 #11/#4. September 26. 2017. 11:03 p.m. EDT)*
    - Generator arrived for Herbert Griggs Nursing Home *(USVI SitRep 209 #11/#4, September 26. 2017. 11:03 p.m. EDT)*

- ***ESF-9: Search and Rescue***
  - FEMA Urban Search and Rescue (US&R) saved or assisted 841 (+284) individuals *(ESF-9 Update. September 26. 2017. 10:00 p.m. EDT)*
  - USCG Search and Rescue (SAR) saved or assisted 15 individuals *(USCG Update, September 25, 2017, 2:18 p.m. EDT)*
  - USCG SAR towers inoperable in PR and St. Croix, partially mission capable in St. Thomas; USCG cutters and CPB aircraft monitoring distress frequencies *(USCG Update, September 26, 2017, 1:29 p.m. EDT)*\
  - Searched 2,601 structures in PR and St. Croix, USVI as of September 25; 2,172 no damage, 150 damaged, 159 structural failure, 120 destroyed *(ESF-9 Update, September 26, 2017, 1:59 p.m. EDT)*

- ***ESF-10: Oil and Hazardous Material Response***
  - Assessment Teams assessing remaining 22 of 23 Superfund sites in PR (20) and USVI (3); EPA Oil and Hazardous Materials Assessment personnel (18) in Atlanta, GA awaiting transport to begin remaining Superfund sites assessments *(ESF-10 Update, September 26, 2017, 1:30 p.m. EDT)*
  - PR
    - Environmental Protection Agency (EPA) Regulated Facility Team following up with Buckeye Global Marine Terminals; prevented risk to public after oil spill occurrence into secondary containment at Yabucoa Dam *(ESF-10 Update, September 26, 2017, 1:30 p.m. EDT)*
  - USVI
    - One NSF Strike Team in St. Thomas, two NSF Strike teams in St. Croix commencing post-storm assessment and recovery operations *(ESF-10 Update, September 26, 2017, 1:30 p.m. EDT)*
    - Governor announcing plan and public guidance for debris removal September 27 *(ESF-10 Update, September 26, 2017, 5:08 p.m. EDT)*

- ***ESF-11: Agriculture and Natural Resources***
  - PR:
    - Bilingual animal/pet subject matter expert arrived in San Juan to join PR Incident Management Assistance Team, coordinate needs assessments, and provide technical support for animal/pet evacuation and sheltering
    - Animal assessment teams (12 nongovernmental organization personnel) staged in Atlanta, GA to deploy to PR, pending transportation
  - USVI: Animal assessment teams (9 US Humane Society personnel) to deploy pending transportation and lodging confirmation *(ESF-11 Update. September 27. 2017. 3:00 a.m. EDT)*

- ***ESF-12: Energy***
  - DLA transporting 15,000 gallons of propane to Puerto Rico and 10,000 to USVI*(DLA Update. September 27, 2017. 00:37 a.m. EDT)*
  - PR
    - There is bulk fuel on the island, but limited capability to distribute; limited contract capability is fulfilling the most urgent needs.
    - Fuel Subject Matter Experts and Incident Management Support are a critical need; Fuel Ordering Officers en-route, by-name subject matter expert requests complete, and Type 1 Incident Management Teams for fuel are required *(NRCC Planning Update, September 26, 2017, 4:50 p.m. EDT)*
    - Approximately 80 percent of PR Electric Power Authority (PREPA) transmission damaged; generation facilities received some damage, most expected to resume operations; Central San Juan and Palo Seco generation units operating and enabling transmission to portions of Bayamon and Monacillos *(ESF-12 Update, September 26, 2017, 1:01 p.m. EDT)*
      - Aguirre Plant and Mayagüez plant are able to generate energy, but do not have operable transmission

- South Coast (heavy fuel oil) and Cambalache (diesel oil) plants severely affected by floodwaters; much of the urban area of Mayagüez energized by the hydro-gas plant located within the municipality *(DOE SITREP #60, September 26, 2017, 10:10 a.m. EDT)*
- Defense Logistics Agency and PR continuing to provide fuel to critical facilities *(DOE SITREP #60, September 26, 2017, 10:10a.m. EDT)*
- DLA transporting initial shipment of 100 trucks and 27 support vehicles (175,000 gal diesel/75,000 gal MOGAS) to Jacksonville, FL then by barge to PR by September 29 *(DLA Update, September 27, 2017, 00:37 a.m. EDT)*

- USVI
  - VITEMA in coordination with DOE identified the following for fueling prioritization: 1) Communication towers; 2) VITEMA and 911 buildings; 3) airport; 4) seaports; 5) potable water pumps; 6) waste water pumps; 7) the hospital; 8) police stations; 9) fire departments; 10) shelters *(DOE Update, September 26, 2017, 1:01p.m. EDT)*
  - Race Track had 4,762 barrels of fuel in 30 ISO tanks, 10 diesel and 20 gasoline scheduled for delivery on October 1 to St. Thomas and St. John *(DOE SITREP #60, September 26, 2017, 10:10a.m. EDT)*
  - St. Thomas:
    - A ship arrived in St. Thomas September 24 with fourteen 6,400 gallon containers of diesel or gasoline; Tri Island has a fuel order for 40,000 gallons of regular gasoline and 80,000 gallons of diesel estimated to arrive on October 1 *(ESF-12 Update, September 26, 2017, 1:01 p.m. EDT)*
    - Western Area Power Administration's eight-person advance team continues to safely make progress on St. Thomas's overhead transmission lines; 17 additional personnel are anticipated to arrive on September 29; bucket trucks and diggers expected to arrive in St. Thomas October 2 *(DOE SITREP #60, September 26, 2017, 10:10a.m. EDT)*
    - 900 of the additional 1,300 poles en route and estimated to arrive on St. Thomas September 29 *(ESF-12 Update, September 26, 2017, 2:20 p.m. EDT)*
  - St. Croix: Three ESF-12 Incident Management Assistance Team responders arrived in St. Croix on September 25; two traveling to PR September 26; all teams assessing power grid, fuel, and restoration needs *(ESF-12 Update, September 26, 2017, 4:50 p.m. EDT)*

- ***ESF-13: Public Safety and Security***
  - One generator en route to St. Croix for Golden Grove Prison *(USVI SitRep 209 #11/#4, September 26, 2017, 11:03 p.m. EDT)*
  - Five Quick Response Teams (QRTs) (131 FLEOs) expected to arrive September 28 in PR to provide force protection and general law enforcement capabilities *(ESF-13 Update, September 26, 2017, 5:06 p.m. EDT)*
  - Significant QRTs operating in PR and the USVI
    - Security at FEMA fuel station at San Juan Convention Center
    - QRTs conducting security and protection missions for ESF-8 and ESF-9 throughout PR
    - One QRT continuing to assist with security at the Metropolitan Detention Center in Guaynabo, PR; supplementing security and assisting in transporting personnel to other detention facilities
    - One QRTs providing security to the Grand Celebration (St. Croix) and SS Wright (St. Thomas) *(ESF-13 Update, September 26, 2017, 5:06 p.m. EDT)*
  - Federal Protective Services personnel posted and conducting security at the USS Wright pier in St. Thomas *(FPS Update, September 26, 2017, 3:32 p.m. EDT)*

- ***ESF-15: External Affairs***
  - External Affairs coordinating with Mass Care team to provide Spanish translation for National Voluntary Organizations Active in Disasters (NVOAD) website; Governor's Office will update its website messaging to match *(ESF-6 Update, September 27, 2017, 1:00 a.m. EDT)*

- ***U.S Department of Defense (DoD)***
  - U.S. Northern Command (USNORTHCOM):
    - USS Kearsarge/26th Marine Expeditionary Unit Amphibious ready Group teams conducting route reconnaissance, clearance of main roads, and debris and trees away from Roosevelt Roads Airfield (RRA) taxiways and coordinating with airport manager to finalize airport usage plans
      - Debris clearance from runway and FAA tower estimated to be complete by October 1
      - Navy construction engineers will provide assistance to civilian heavy equipment while assisting with route clearance to FAA tower

- U.S. Navy will sail the USNS COMFORT on Service Authority to provide medical services in PR; estimated departure September 29 *(NORTHCOM Update, September 27, 2017, 00:37 a.m. EDT)*
- 14 DOD flights to deliver water and meals, helicopters, communications equipment, additional security forces, and communications and contingency response units for PR and the USVI completed September 26 *(NORTHCOM Update, September 27, 2017, 00:37 a.m. EDT)*

- Defense Logistics Agency (DLA):
  - All 103 leased generators delivered or moving forward to the USVI and PR:
    - 31 generators on the Conquistador arrived San Juan, PR
    - 19 generators en route to USVI from Palm Beach, FL
      - 5 arriving on St. Thomas on September 30
      - 9 arriving on St. Croix on October 1
      - 5 arriving on St. Thomas on October 2
    - 32 generators en route to San Juan, PR from Jacksonville, FL; planned arrival October 1
    - 21 en route to St. Thomas, expected arrival on September 27
  - Continuing meal distribution efforts
    - Supporting 500,000 meals per day, September 22 through September 29
    - Will supply 600,000 meals ready to eat per day for 20 days in PR beginning September 30 and 2 million commercial shelf stable meals for a 30 day period starting October 7 *(DLA Update, September 27, 2017, 00:37 a.m. EDT)*

- ***National Guard Bureau (NGB)***
  - Supported the opening of four points of distribution in Canovanas, Bayamon, Aguadilla, and Ceiba and delivered commodities to staging areas in Guayama, Mayaguez, Ponce, Utuado, Arecibo, and Caguas *(PR SitRep 209 #4, September 26, 2017, 8:30 p.m. EDT)*
  - Military Police requested to support security capabilities should be in place by September 28
  - PR Joint Operations center established communications, two Joint Incident Site Communications Capability are ready to support civilian phone and military voice traffic
- ***U.S. Coast Guard (USCG)***
  - USCG cutter Cypress arrived September 26; assessing and repairing critical Aids to Navigation in Fajardo, Vieques, Culebra, and St. Croix; vessel equipped with oil skimming and recovery equipment *(USCG Update, September 26, 2017, 1:29 p.m. EDT)*
  - PR
    - USCG cutter Joseph Napier assessing capability to receive maritime shipments at Roosevelt Roads *(USCG Update, September 27, 2017, 1:00 a.m. EDT)*
  - USVI
    - St. Thomas: USCG cutter Joseph Tezanos transporting 44 Red Cross and USCG personnel from San Juan *(USCG Update, September 27, 2017, 1:00 a.m. EDT)*
- ***U.S. Customs and Border Protection (CBP)***
  - PR: 15 member Special Response Team (SRT) providing force protection for ESF-8 and ESF-9 missions to include USAR and DMAT support *(CBP Update, September 26, 2017, 12:51 p.m. EDT)*
  - USVI: 10 SRT personnel deployed to St. Croix and St. Thomas to provide security to two first responder berthing ships: SS Wright (St. Thomas) and Grand Celebration (St. Croix) *(CBP Update, September 26, 2017, 12:51 p.m. EDT)*
- ***U.S. Department of the Interior (DOI)***
  - Sixty US Geological Survey stream gauges in PR and USVI offline due to loss of communications and/or damage; coordinating with USACE and National Weather Service to prioritize gauges for repair *(DOI SitRep, September 27 2017, 1:09 a.m. EDT)*
  - Six Fish and Wildlife Service (FWS) aircraft available to provide cargo, reconnaissance, and passenger capabilities for Federal response efforts; one Kodiak (pilot plus one federal law enforcement officer) will fly from FL to Aguadilla, PR September 27
  - PR
    - FWS Team #1 (4 personnel) completed life and wellness checks in Cabo Rojo, moving to San Juan September 27
    - FWS Team #2 (2 Office of Law Enforcement agents) arrived at Aguadilla, via Customs and Border Patrol flight.

- FWS Team #3 (14 staff, including Federal Wildlife Officers and Incident Management staff) arrived in San Juan, PR, via FEMA chartered flight *(DOI SitRep. September 27 2017. 1:09 a.m. EDT)*
- National Park Service (NPS) IMT departed Key West, FL September 25 with vessel Marine Vehicle Fort Jefferson to arrive in San Juan September 29, carrying approximately 24 tons (total) of food, water, fuel, generators, communications equipment, debris clearance, roofing supplies, and other support for DOI components *(DOI SitRep. September 26, 2017, 1:39 p.m. EDT)*

- USVI
  - Marine Vehicle Caneel Bay Mary II departed St. John to Puerto Del Ray, PR with 25 NPS staff who sheltered on St. John and returned with one pallet each of food (576 meals) and water (1,004 liters) for NPS staff who remain on St. John

## Commodities Tables*

- The following commodities have been ordered by and shipped to the USVI and PR

**Puerto Rico and U.S. Virgin Islands Combined**

| Product Class | Total Items Shipped to Territory |
|---|---|
| Commodities Used in Sheltering Items and Services (CUSI) | |
| Cots | 15 |
| Generators | 3,357 |
| Hygiene | 4 |
| Meals | 1 |
| Sheeting | 1,617,241 |
| Tarps | 15,192 |
| Water | 13,272 |
| | 698,570 |

**Puerto Rico**

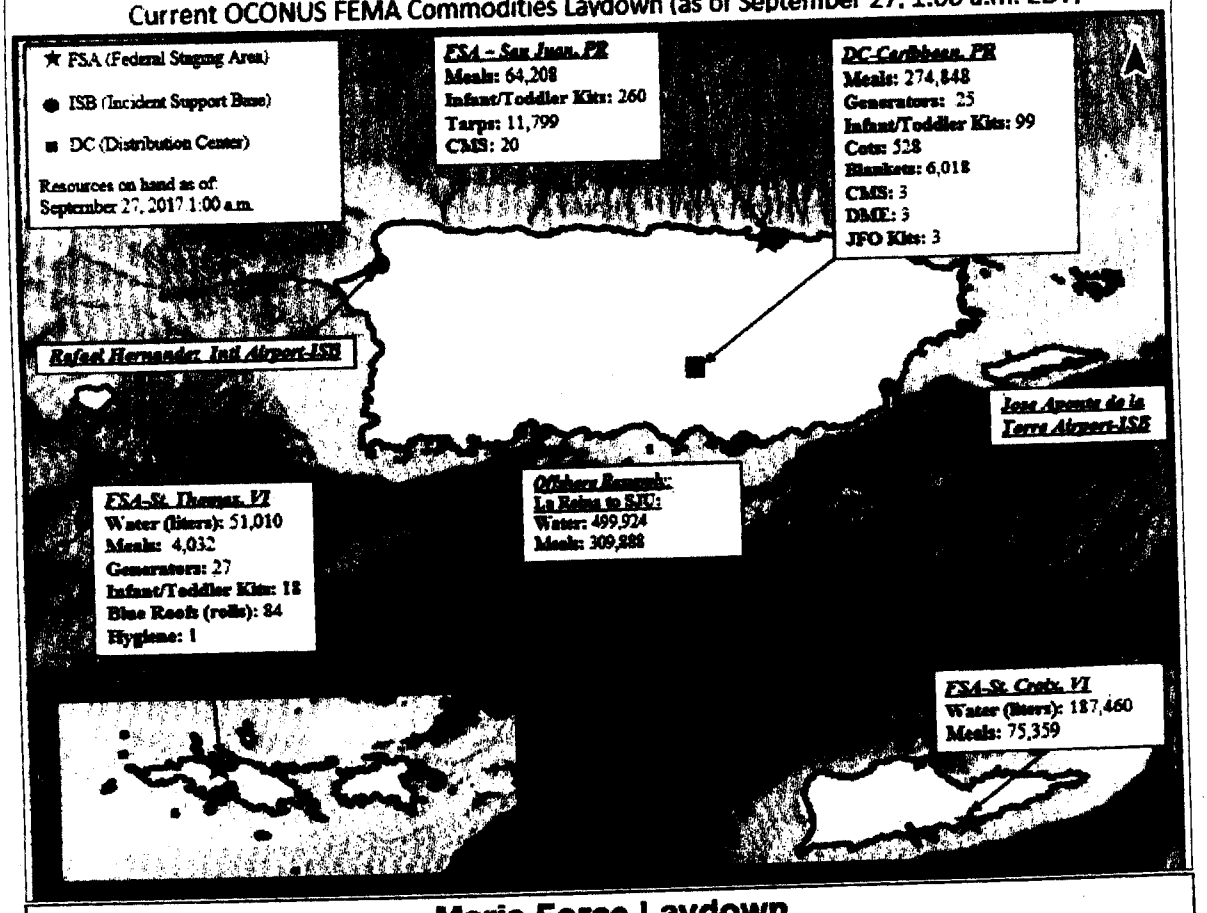
| PR | Ordered Qty | Shipped to Territory Qty |
|---|---|---|
| Cots | 2,650 | 3,057 |
| Generators | 6 | 4 |
| 1-11 | 3,600 | 3,600 |

**U.S. Virgin Islands**

| USVI | Ordered Qty | Shipped to Territory Qty |
|---|---|---|
| CUSI | 58 | 15 |
| Cots | 510 | 300 |
| Generators | 29 | 0 |
| Hygiene | 0 | 1 |
| Meals | 2,152,924 | 1,617,241 |
| Sheeting | 135,056 | 15,192 |
| Tarps | 0 | 13,272 |
| Water | 321,500 | 694,970 |
| Pet care supplies | 1,837 | 0 |

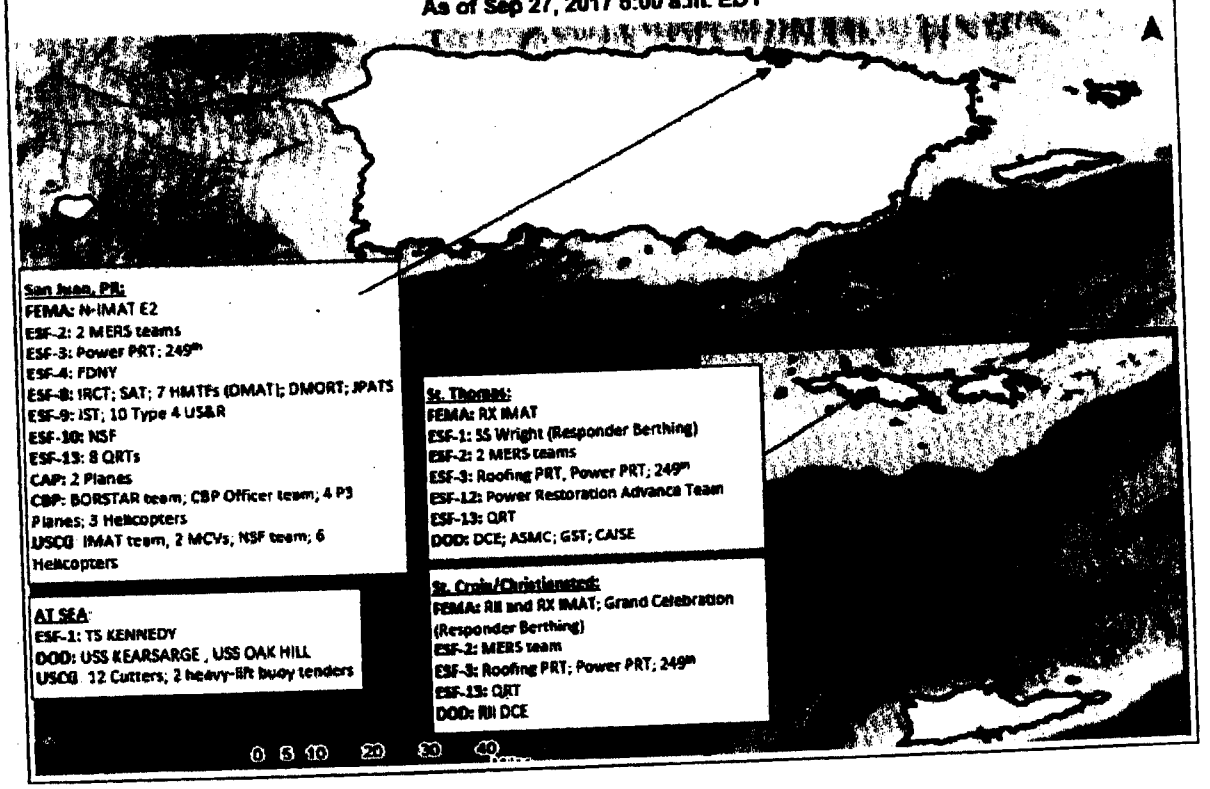
*Please see ESF 7 logistics section for additional commodities expected to be delivered by air and sea *(ESF-7 Update, September 27, 2017 1:00 a.m. EDT)*

## Current OCONUS FEMA Commodities Laydown (as of September 27, 1:00 a.m. EDT)




## Maria Force Laydown

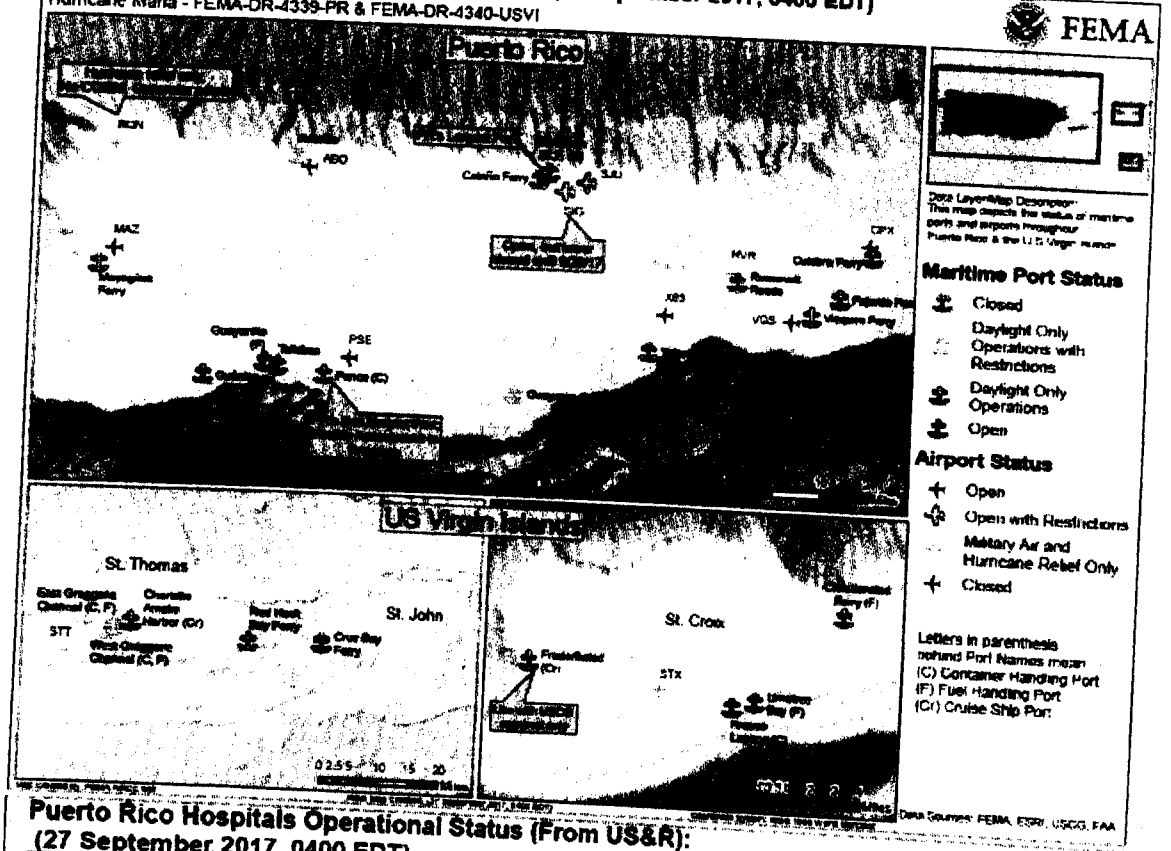
**As of Sep 27, 2017 5:00 a.m. EDT**



**Maritime Ports & Airports Status: PR and USVI (27 September 2017, 0400 EDT)**

Hurricane Maria - FEMA-DR-4339-PR & FEMA-DR-4340-USVI

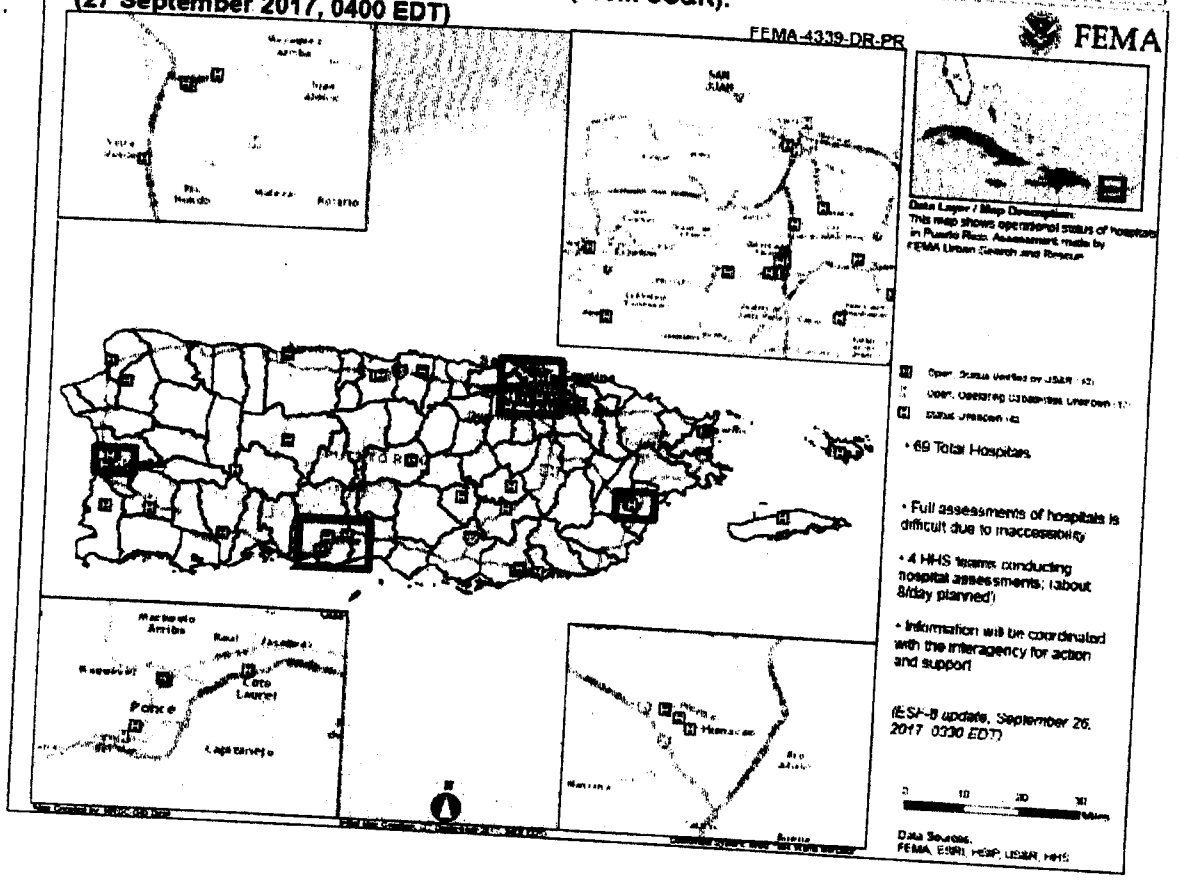
FEMA




**Puerto Rico Hospitals Operational Status (From US&R): (27 September 2017, 0400 EDT)**

FEMA-4339-DR-PR

FEMA



# Recovery Snapshot
# Post-Tropical Cyclone Irma
### Wednesday, September 27, 2017 (5:00 a.m. EDT)
### Updates in Blue

## Declarations:

| State Region | Declaration | Declared Counties: Individual Assistance | Declared Counties: Public Assistance | Cost Share |
|---|---|---|---|---|
| **Georgia** | 9/15: *DR-4338* | 5 counties | All | 75% |
| **Alabama** | 9/11: *EM-3389* | | All 67 counties and Poarch Band of Creek Indians | 75% |
| **Florida** | 9/10: *DR-4337* | 48 counties | All 67 counties | 75%<br>100% (Cat B) for 30 days |
| **Seminole Tribe of Florida** | 9/8: *EM-3388* | - | Whole Tribe | 75% |
| **South Carolina** | 9/7: *EM-3386* | - | All 46 counties and Catawba Indian Nation | 75% |

## Recovery Priorities, Issues, and Challenges:

| State | Recovery Priorities | Issues/Challenges |
|---|---|---|
| **Georgia** | 1. Deliver Individual Assistance<br>2. Open Disaster Assistance Centers<br>3. Conduct IA & PA preliminary damage assessments<br>4. Public Information | Not yet reported |
| **Florida** | 1. Complete Public Assistance (PA) Preliminary Damage Assessments (PDAs) by 09/29/2017.<br>2. Housing in Lee, Hendry, and Collier Counties<br>3. Local Hire Program<br>4. Availability of hotels enrolled in TSA<br>5. HUD damage assessments<br>6. Temporary housing<br>7. Transitional Sheltering Assistance (TSA) | • Staffing and collateral material for Individual Assistance and Disaster Survivor Assistance missions<br>• Pace of Individual Assistance payments<br>• Sufficient debris removal resources<br>• Survivors continue to request temporary housing as shelters are closing<br>• Debris removal<br>• Some schools in the Keys will not open until October 2nd<br>• Capacity at the 1-800 FEMA number<br>• Language interpreters, Spanish and Creole (Haitian) |

## Damage Assessments:

| State | Preliminary Damage Assessments (PDAs), including Categories C-G | |
|---|---|---|
| **Georgia** | • Destroyed: 46 structures<br>• Major Damage: 171 structures<br>• Minor Damage: 111 structures<br>• Affected Habitable: 127 structures | PA PDAs: Total $29.6 M<br>• Category A: $14.4M<br>• Category B: $5.5M<br>• Category C: $4.6M<br>• Category D: $0.1M<br>• Category E: $1.6M<br>• Category F: $1.9M<br>• Category G: $1.4M |
| **Florida** | In process | |

## Interagency Coordination/Recovery:

- ***Recovery Support Function (RSF): Housing Recovery***
  - September 24, FEMA authorized the use of the Sheltering and Temporary Essential Power (STEP) Pilot Program for DR-4337-FL *(Recovery Update, September 24, 2017, 3:30 p.m. EDT)*

| Individual Assistance | | | | |
|---|---|---|---|---|
| **State** | **Total Registrations** | **Total Individuals and Households Program Approved** | **Housing Assistance Approved** | **Other Needs Assistance Approved** |
| **Georgia** | 12,155 | $2,928,173 | $2,023,016 | $905,157 |
| **Florida** | 1,639,697 | $587,391,073 | $390,377,668 | $197,013,405 |
| **Puerto Rico** | 3,449 | $269,687 | $129,639 | $140,048 |
| **U.S. Virgin Islands** | 6,556 | $4,592 | $4,592 | Not yet reported |

| Housing Inspections | | | | |
|---|---|---|---|---|
| **State** | **Inspectors with Work** | **Inspections Issued** | **Inspections Complete** | **% Complete** |
| **Georgia** | 14 | 1,915 | 681 | 35.6% |
| **Florida** | 1,171 | 415,271 | 61,619 | 14.8% |
| **Puerto Rico** | 22 | 1,227 | 474 | 38.6% |
| **U.S. Virgin Islands** | 0 | 4,884 | 4 | 0.08% |

| National Flood Insurance Program Claims Estimate | | |
|---|---|---|
| **State** | **Claims Submitted** | **Advanced Payments to Insured Survivors** |
| **Florida** | Over 20,000 | Over $19,100,000 |
| **Georgia** | Over 1,700 | Over $1,600,000 |
| **South Carolina** | Over 1,900 | Over $1,100,000 |
| **U.S. Virgin Islands** | 37 | |
| **Puerto Rico** | 4 | |
| **Alabama** | 1 | |

* Over $15.7M in advance payments issued to insured survivors of Hurricane Irma as of September

- Temporary Housing

| Transitional Sheltering Assistance | | |
|---|---|---|
| **State** | **Households Checked In to Hotel** | **Eligible** |
| **Florida** | 6,999 | 561,650 |

- US Department of Housing and Urban Development (HUD) *(no change from 9/20/2017)*

| Hurricane Irma - Florida | Number of Properties in Impacted Area | Displaced (# of Beds for Healthcare - Hospital) | Displaced (# of Household for Public & Indian Housing - Multifamily Housing) | Returned or Permanently Housed (# of Households Beds) |
|---|---|---|---|---|
| Multifamily Housing | 0 | 0 | 0 | 0 |
| Public and Indian Housing | 0 | 0 | 0 | 0 |
| Healthcare and Hospitals | 104 | 804 | 0 | 100 |
| **Total** | **104** | **804** | **0** | **100** |

| Hurricane Irma - Georgia | Number of Properties in Impacted Area | Displaced (# of Beds for Healthcare - Hospital) | Displaced (# of Household for Public & Indian Housing - Multifamily Housing) | Returned or Permanently Housed (# of Households Beds) |
|---|---|---|---|---|
| Multifamily Housing | 0 | 0 | 0 | 0 |
| Public and Indian Housing | 0 | 0 | 0 | 0 |
| Healthcare and Hospitals | 3 | 50 | 0 | 0 |
| **Total** | **3** | **50** | **0** | **0** |

| Hurricane Irma South Carolina | Number of Properties in Impacted Area | Displaced (# of Beds for Healthcare - Hospital) | Displaced (# of Household for Public & Indian Housing - Multifamily Housing) | Returned or Permanently Housed (# of Households Beds) |
|---|---|---|---|---|
| Multifamily Housing | 0 | 0 | 0 | 0 |
| Public and Indian Housing | 0 | 0 | 0 | 0 |
| Healthcare and Hospitals | 5 | 88 | 0 | 0 |
| **Total** | 5 | 88 | 0 | 0 |

- ***RSF: Economic Recovery***
  - USDA Risk Management Agency

| State Specific Crop Insurance Information for Hurricane Irma as of 9/4/2017 | | | |
|---|---|---|---|
| Liabilities | $2.3 billion | $818.6 million | $2.3 million |
| Largest Crop Liability (amount) | Orange Trees ($1.1 billion) | Cotton ($581.2 million) | Coffee ($932,742) |

**PR crop liability was $53,445,686 for 2016 Reinsurance Year. As of June 9, 2017 only $2.3 million of liability was reported and available through the RMA Summary of Business.*

  - USDA Farm Service Agency

| Total Combined $ Amount Loss for Crops/livestock by State | |
|---|---|
| **Sept 18-Sept 22:** Florida | n/a |
| **Sept 10-Sept 12:** Georgia | $338,272,398 |
| **Sept 18-Sept 22:** Louisiana | $41,000,000 |

| Total Combined $ Loss for Crops/Livestock by Hurricane | |
|---|---|
| **Total Irma Hurricane Total** | $338,272,398 |

# Recovery Snapshot
# Post-Tropical Cyclone Harvey
## Wednesday, September 27, 2017 (5:00 a.m. EDT)
## Updates in Blue

## Declarations:

| State/Region | Declaration | Declared Counties: Individual Assistance | Declared Counties: Public Assistance | Cost Share |
|---|---|---|---|---|
| Texas | 8/25: *DR-4332* | 39 counties | 46 counties | 90% (Cat A); 100% (Cat B) for 30 days, 90% thereafter |

## Recovery Priorities, Issues, and Challenges:

| State | Recovery Priorities | Issues/Challenges |
|---|---|---|
| Texas | 1. Sheltering and temporary housing<br>2. Debris Removal<br>3. Collect and disseminate accurate incident information to improve decision-making<br>4. Accurately track incident costs associated with assigned resources for cost recovery | Not yet reported |

## Damage Assessments

| State | Preliminary Damage Assessments (PDAs), including Categories C-G | |
|---|---|---|
| Texas | Not yet reported | 34 counties requested, 20 counties complete, 4 counties ongoing, 10 counties withdrawn |

## Interagency Coordination/Recovery:

- ***RSF: Housing Recovery***

| Individual Assistance | | | | |
|---|---|---|---|---|
| **State** | **Total Registrations** | **Total Individuals and Households Program Approved** | **Housing Assistance Approved** | **Other Needs Assistance Approved** |
| Texas | 821,817 | $715,768,604 | $516,355,213 | $199,413,391 |

| Housing Inspections | | | | |
|---|---|---|---|---|
| **State** | **Inspectors with Work** | **Inspections Issued** | **Inspections Complete** | **% Complete** |
| Texas | 2,228 | 528,023 | 246,133 | 46.6% |

| National Flood Insurance Program Claims Estimate | | |
|---|---|---|
| **State** | **Claims Submitted** | **Advanced Payments to Insured Survivors** |
| Texas | Over 88,000 | Over $785,000,000 |
| Louisiana | Over 470 | Over $1,100,000 |

  - Closure Rates: Over 4% of claims have been closed in Texas with over $42,000,000 paid in closed claims. Over 11% of claims have been closed in Louisiana with over $1,200,000 paid in closed claims

- Temporary Housing

| Transitional Sheltering Assistance | | |
|---|---|---|
| **State** | **Households Checked In to Hotel** | **Eligible** |
| Texas | 21,046 | 331,639 |

- Small Business Administration (SBA) Home Loans

| SBA Home Loans | | | | | |
|---|---|---|---|---|---|
| **State** | **Applications Received** | **% Processed** | **Applications Approved** | **Loan $ Approved** | **Average Loan Amount** |
| Texas | 46,468 | 61% | 5,556 | $467,268,500 | $84,102 |

- U.S. Department of Housing and Urban Development (HUD) *(as of 09/23/2017, 7:35 p.m. EDT)*

| Hurricane Harvey - Texas | Number of Properties in Impacted Area | Displaced (# of Beds for Healthcare - Hospital) | Displaced (# of Household for Public & Indian Housing - Multifamily Housing) | Returned or Permanently Housed (# of Households Beds) |
|---|---|---|---|---|
| Multifamily Housing | 454 | 0 | 3,063 | 844 |
| Public and Indian Housing | 42 | 0 | 358 | 0 |
| Healthcare and Hospitals | 40 | 997 | 0 | 676 |
| **Total** | **536** | **997** | **3,421** | **1,520** |

- ***RSF: Economic Recovery***
  - SBA Business Loans

| SBA Business Loans *(as of 09/26/2017, 1:15 a.m. EDT)* | | | | | |
|---|---|---|---|---|---|
| **State** | **Applications Received** | **% Processed** | **Applications Approved** | **Loan $ Approved** | **Average Loan Amount** |
| **Texas** | 2,895 | 68% | 446 | $42,110,500 | $94,418 |

- U.S. Department of Agriculture (USDA) Risk Management Agency

| State Specific Crop Insurance Information for Hurricane Harvey | | |
|---|---|---|
| **Liabilities** | $792.4 million | $133.5 million |
| **Largest crop liability (total)** | Cotton ($352.3 million) | Rice ($104.1 million) |
| **Policies received ++** | >34,000 | >2,900 |
| **Units Covered (acres) ++** | 4.9 million | >504,000 |

** Crops removed from calculation are AF/PRF, Cabbage, Oats, Onions, Potatoes and Wheat*
*** Parishes included are Acadia, Allen, Beauregard, Calcasieu, Cameron, Jefferson Davis, Vermillion and Vernon*
*++ Information collected from RMA's Summary of Business Reports http://www.rma.usda.gov/data/sob.html*

- USDA Farm Service Agency

| Total Combined $ Amount Loss for Crops/livestock by State | |
|---|---|
| **Sept 18-Sept 22: Texas** | **$72,961,810** |

- USDA Disaster Supplemental Nutrition Assistance Program (D-SNAP)

| New Apps Taken | New Approved | | | Households Denied | Supplements Approved | | | Total New + Ongoing Benefits |
|---|---|---|---|---|---|---|---|---|
| 40,621 | 23,384 | 59,904 | $ 18,947,434 | 1,895 | 704,511 | 1,873,026 | 145,111,822 | $145,111,822 |

*(Recovery Update, September 24, 2017, 11:02 a.m. EDT)*

- Natural Resources Conservation Service

| | EWPP Sponsor requests | EQIP Applications | CTA Employees Providing Assistance |
|---|---|---|---|
| **Texas*** | 5 new, 6-7 previous projects that may need assistance | 57 | 97 |
| **Louisiana**** | 0 | 0 | 25 |

**57 EQUIP application for FY17 received to date for TX special sign-ups*
***Little impacts, not anticipating EQIP applications for hurricane response but announced availability of EQIP*

**Hurricane Irma Response**
**EPA Region 4**
SITUATION REPORT #29
0900 – EST, September 25, 2017 to 0900 – EST, September 27, 2017

## I. HIGHLIGHTS SINCE LAST SITUATION REPORT

Two Region 4 On-Scene Coordinators (OSCs) are in Miami representing the EPA in the EPA/USCG/FDEP Unified Command.

Four EPA field teams composed of OSCs, Superfund Technical Assessment and Response Team (START) members, and Emergency and Rapid Response Services (ERRS) contractors deployed to Florida on September 25, and have established a forward command center in Marathon Key.

Current EPA operations consist of identification of staging areas for orphan containers, hazardous waste, and fuel and oil recovered from vessels.

On September 25, FDEP requested EPA's Facility Assessment Support Team (FAST) assistance in assessing the status of 1,255 non-community public water systems. For consistency, FAST conducted a Just-in-Time Training, to outline procedures for conducting phone-assessments of non-community drinking water systems. Assessment activities began on September 26.

The Key Largo Water Team completed FDEP-assigned field assessments and met with utility personnel regarding the operational status of their drinking water system. The Naples Water Team completed FDEP-assigned assessments with visits to two public water systems and a wastewater system. Pending receipt of new assignments, EPA Water Team members will demobilize tomorrow.

A Mission Assignment (MA) totaling $675,000 has been approved, providing funding for EPA Landfill Specialty Teams through October 3. Two Landfill Technical Specialists from the Resource Conservation and Restoration Division (RCRD) are mobilizing today.

A new MA for $10,000,000 is in the pipeline to continue the EPA ESF-10 Mission, post October 3. This MA will move forward pending the state's decision to proceed. A duplicate MA for the USCG for $20,000,000 is in the pipeline as well.

## II. KEY QUESTIONS

### a. What has Florida asked us to do?

Florida assigned the EPA ESF-10 mission assignments to conduct assessments of targeted facilities, orphan containers assessment and recovery, and hazardous substance and oil pollution response including potential vessel response and recovery. An additional Mission Assignment has been established to provide Landfill/Debris Management technical support. An ESF-3 Mission Assignment was issued to EPA by the U.S. Army Corps of Engineers (USACE) to provide water utilities infrastructure technical and field support.

**b. How are we leaning forward?**

The EPA Region 4 performed field-assessments at National Priority List (NPL) sites within the State and contacted all Facility Response Plan (FRP) facilities through a combination of call-down and field assessments. The Region contacted all 274 Risk Management Plan (RMP) facilities in Florida. No ESF-10 issues were reported.

## III. EPA OPERATIONS AND ACTIVITIES

**a. Orphan Container, Pollution Response, and Vessels**

An MA for $10,000,000 is in the pipeline to continue the EPA ESF-10 Mission post October 3. This MA will move forward pending the state's decision to proceed. A duplicate MA for the USCG for $20,000,000 is in the pipeline as well.

EPA updated the USCG Vessel Assessment Form. The updated form will provide USCG and EPA the ability to capture and upload information to the EPA Geoplatform using a variety of mobile devices, regardless of cellular data connectivity. Assessment teams also have a paper format in the event of mobile device failure.

The Environmental Unit (EU) in the Regional Emergency Operations Center (REOC) is coordinating with National Oceanic and Atmospheric Administration (NOAA) to obtain remote assessment data for use in the EPA Geoplatform. The EU is providing support to EPA operations by using aerial imagery and remote assessment data to identify areas of interest for field teams.

Unified Command approved the Hurricane Irma Vessel Mitigation and Removal Protocol for the State of Florida on September 24. So far, the USCG has identified 839 total vessel targets (Table 2).

**Table 1**
**EPA Orphan Container Collection Summary**

| County, FEMA Branch, Division | Propane Tanks | Automobile Batteries | Oil and Gas (gallons) | Miscellaneous Waste (55-gal Drums) | Uncharacterized (55-gal drums)* | Tanks |
|---|---|---|---|---|---|---|
| Collier County (FEMA Branch IV, Division E) | 33 | 30 | 220 | 58 | 13 | 5 |

* Waste will be characterized for disposal profile.

**Table 2**
**USCG Vessel Assessment Targets Identified to date***

| USCG Sector | Targets Identified | Targets Completed | Targets Remaining |
|---|---|---|---|
| Jacksonville | 134 | 0 | 134 |
| Miami | 200 | 0 | 200 |
| Key West | 336 | 0 | 336 |
| St Petersburg | 169 | 0 | 169 |
| Totals | 839 | 0 | 839 |

*No vessel targets have been assigned to EPA to date

### b. Water Infrastructure

ESF-3 is tasked to provide technical assistance to the USACE for water infrastructure assessment; that mission is ongoing. Tables 3 and 4 summarize community water system status and Publicly Owned Treatment Works (POTW) in Florida as per the last state report.

#### i. Water Team Deployment

The Key Largo Water Team completed FDEP-assigned assessments and met with utility personnel regarding the operational status of their drinking water system. The Naples Water Team completed FDEP-assigned projects with visits to two public water systems and a wastewater system. Pending receipt of new assignments, EPA Water Team members will demobilize tomorrow.

#### ii. Boil Water Notices (BWNs)[1]

Boil water notice or advisories are published on the Florida Department of Health's website (http://www.floridahealth.gov/environmental-health/drinking-water/boil-water-notices.html). Currently, the website lists 478 BWNs issued since September 11, of which 380 have been rescinded, resulting in 98 active BWNs.

**Table 3**
**Status of Community Drinking Water Systems (CWS) and Total Population Served in Florida**

| | Large CWS (Over 3,300) | | Small CWS (under 3,300) | |
|---|---|---|---|---|
| | # Systems | Population Served | # Systems | Population Served |
| **Operational:** | 394 | 19,205,380 | 1,192 | 683,098 |
| **Partially Operational:** | 2 | 83,084 | 15 | 16,284 |
| **Non Operational:** | 0 | 0 | 3 | 255 |
| **Unknown:** | 0 | 0 | 34 | 10,916 |
| **Totals:** | 396 | 19,288,464 | 1,244 | 710,553 |
| Boil Water Notices | 98 (478 issued – 380 rescinded) | | | |

**Comments:** Data is compiled from the State of Florida's *StormTracker* system. The inventory of public water systems in *StormTracker* consists of all 1,630 Community Water Systems (CWS) and 11 non-community public water systems regulated by the State. These facilities were identified by Florida as the most critical for operational status determinations following major disasters. For convenience, all 1,641 facilities are reported as "CWS" in this table.

*Operational: Facility producing drinking water for greater than 90% of customers under normal operating conditions*

*Partially Operational: Facility producing drinking water under adverse conditions and/or supplying less than 90% of customers*

*Non Operational: Facility not producing or supplying drinking water*

*Unknown: Status of facility unknown at this time*

[1] While a BWN may be issued for an entire system, many are issued for only part of a distribution system (blocks, subdivisions, specific number of houses, etc.) making estimates of the population effected by a BWN inaccurate or unavailable. As such, reporting of populations affected is misleading therefore not reported at this time.

| Table 4<br>Number and Status of<br>POTWs within Florida | | | |
|---|---|---|---|
| | NPDES Permitted Facilities | | |
| | POTW | Non-POTW (Industrial) | State Permits (Non-NPDES) |
| **Operational:** | 143 | 242 | 1711 |
| **Partially Operational:** | 2 | 1 | 40 |
| **Non Operational:** | 0 | 0 | 92 |
| **Unknown:** | 0 | 0 | 166 |
| **Totals:** | 145 | 243 | 2,009 |

Comments: Data is compiled from the State of Florida's *StormTracker* system. The NPDES universe tracked in *StormTracker* represents a subset of the total inventory of NPDES permitted systems that are identified by the State of Florida as the most critical for operational status determinations following major disasters.

This report shows that 99% of the POTWs are Operational, no change since last report of 99%.
This report shows that 99% of the Non-POTW NPDES Permitted Facilities tracked in StormTracker are Operational, no change since last report of 99%.

*Operational: Facility & associated collection system is properly conveying, and effectively providing wastewater treatment, in accordance with applicable permit conditions and regulations. (Operating on full or backup generator power.)*

*Partially Operational: Facility and/or associated collection system is properly conveying and providing wastewater treatment at a compromised capacity, i.e. one or more treatment train components are non-operational, one or more lift stations are non-operational, etc.*

*Non Operational: Facility and/or associated collection system is not providing wastewater treatment in accordance with applicable permit conditions and regulations*

*Unknown: Status of facility unknown at this time*

### c. Fuel Waivers and No Action Assurance Letters

On September 21, 2017, EPA received two different letters from the State of Florida requesting extensions to two existing fuel waivers and three no action assurance (NAA) letters issued in anticipation of Hurricane Irma. On September 21, 2017, the EPA Office of Enforcement and Compliance Assurance (OECA) issued three NAA letters extending Florida's existing NAAs for truck loading, vapor recovery, and roof landing to October 6, 2017. OECA issued an extension to the waiver for red-dyed diesel fuel to October 6, 2017. EPA Headquarters, with input from the State and Region 4, is working to evaluate and respond to the remaining fuel waiver extension request.

Table 5 summarizes Fuel Waivers and NAA letters for fuels for **mobile sources** (e.g., cars/trucks), and NAA letters for **stationary sources** of pollution (e.g., power plants).

| Table 5<br>Chronology of Waivers and NAAs to Date | | | | |
|---|---|---|---|---|
| **Requesting State** | **What they requested (Date of request)** | **Waiver or NAA** | **EPA Response** | **Does this supersede a prior waiver or NAA?** |
| **MOBILE SOURCE FUELS – EPA ISSUED FUEL WAIVERS AND NAAs** | | | | |
| GA | Reid Vapor Pressure (RVP) and ethanol requirements for gasoline. Requested on August 28, 2017 | Waiver | Waiver issued on August 29 | No |
| Covers all R4 States (though | Low volatility conventional gasoline and Reformulated Gasoline (RFG). | Waiver | Waiver issued on August 30 | No |

| Table 5<br>Chronology of Waivers and NAAs to Date | | | | |
|---|---|---|---|---|
| **Requesting State** | **What they requested (Date of request)** | **Waiver or NAA** | **EPA Response** | **Does this supersede a prior waiver or NAA?** |
| not all formally submitted a request) | Requested on various dates (or not requested at all). | | | |
| Covers all R4 States (though not all formally submitted a request) | Low volatility conventional gasoline and Reformulated Gasoline (RFG). Requested on various dates (or not requested at all). | Waiver | Waiver issued on August 31 | Yes |
| FL | Red dyed 15 ppm non-road diesel locomotive and marine fuel. Requested on September 5, 2017 | Waiver | Waiver issued on September 6 | No |
| Covers all R4 States (though not all formally submitted a request) | Low volatility "summertime" gasoline requirements and RFG. Requested on various dates (or not requested at all). | Waiver | Waiver issued on September 7 | Yes |
| FL | Use of Duke Power's diesel reserves (non-ULSD) in vehicles and equipment for response to power outages (9/13/17) | NAA | NAA issued on September 13 | NA |
| **STATIONARY SOURCES – EPA ISSUED NAAs** | | | | |
| FL | Operation of simple-cycle combustion turbines in Monroe County, FL, without adhering to NOX control requirements (9/08/17) | NAA | NAA for violations of NSPS Subpart GG NOX emission standard and permit requirements for simple-cycle combustion turbines in Monroe County, FL (9/08/17) See HERE | No |
| FL | Fuel Loading Operations for fuel shortages (9/08/17) | NAA | Statewide NAA for vapor recovery requirements for fuel shortages (9/08/17) See HERE | No |
| FL | Truck Loading Operations for fuel shortages (9/08/17) | NAA | Statewide NAA for Truck Loading Operations for fuel shortages (9/08/17) See HERE | No |
| FL | Roof Landings for fuel shortages (9/08/17) | NAA | Statewide NAA for Roof Landings at fuel storage tanks for fuel shortages (9/08/17) See HERE | No |
| FL | Relief from various permit conditions and permit requirements at TECO power plants (9/09/17) | NAA | Relief from various permit conditions and permit requirements at three TECO power plants (9/10/17) See HERE | No |
| FL | Relief from various permit conditions and permit requirements at Florida power plants state-wide (9/10/17) | NAA | Statewide relief from various permit conditions and permit requirements at Florida power plants (9/10/17) See HERE | Yes (Supersedes TECO) |

**d. Landfill Specialty Team**

A Mission Assignment (MA) totaling $675,000 has been approved, providing funding for EPA Landfill Specialty Teams through October 3. Two Landfill Technical Specialists from the Resource Conservation and Restoration Division (RCRD) are mobilizing today.

## IV. FLORIDA STATUS UPDATE

All Emergency Support Functions are active. The EPA Region 4 was released from staffing the ESF-10 Desk at the State Emergency Operations Center (SEOC) on September 26, 2017. State-specific information can be found on the Florida Division of Emergency Management webpage: http://www.floridadisaster.org/index.asp.

Tables 6 and 7 provide an overview of hurricane impact and facility assessment status. Table 3 provides a summary of water and wastewater facility status.

**Table 6**
**Summary of Hurricane Impacts Throughout Florida**

| Category | |
|---|---|
| **SEOC Status** | Level 1 (Full activation and fully staffed). |
| **Evacuations** | Reported 783 total population in shelters. |
| **Power outages** | Approximately 2,600 without power. |
| **Boil Water Advisory** | A Boil Water Notice is still in effect across multiple water systems. |

**Table 7**
**Florida - Summary of Priority Facility Sites**

| | **NPL** National Priority List | **RMP** Risk Management Plan | **FRP** Facility Response Plan |
|---|---|---|---|
| **Total** | 93 | 274 | 122 |
| **Assessments Completed** | 93 | 274 | 122 |
| **Assessments Pending** | 0 | 0 | 0 |

## V. FEDERALLY RECOGNIZED TRIBES

No significant updates were provided by the Region 4 Tribes during this reporting period.

## VI. EPA STAFFING

The EPA Region 4 Regional Emergency Operations Center (REOC) remains at Level 3 activation. Staffing provided in Table 8 represents all EPA and contractor staff associated with the Hurricane Irma response. See the Incident Management Field Operations Organizational Chart for the overall command structure at the end of the SitRep (Figure 1).

| Table 8<br>Region 4 Staffing (09/24/17 – 0900)<br>Deployment Location | | | | |
|---|---|---|---|---|
| | EPA R4 Atlanta[1] | FEMA Atlanta | Florida SEOC[2] | Florida Field Operations[3] |
| EPA R3 | 0 | 0 | 0 | 0 |
| EPA R4 | 20 | 0 | 1 | 9 |
| EPA R5 | 0 | 0 | 0 | 0 |
| EPA HQ | 0 | 0 | 0 | 0 |
| START | 2 | 0 | 0 | 5 |
| ERRS | 0 | 0 | 0 | 4 |

1. EPA staff and contractors working directly in the REOC or actively supporting Region 4 REOC operations from a remote location (e.g., normal workstation).
2. EPA R4 On-Scene Coordinator liaison staffing ESF-10 desk at the Florida Emergency Operations Center in Tallahassee, Florida.
3. EPA staff and contractors staffing field assessment teams in various locations in Florida.

## VII. FINANCE

Table 9 provides a summary of mission assignments. Several Cost to Date values are lower than previously reported due to incorporation of actual costs in place of estimates.

| Table 9<br>FEMA Mission Assignment Status | | | | | |
|---|---|---|---|---|---|
| Mission Assignment Number | Type of Mission Assignment | Period of Performance | State Cost Share | Funding | Cost to Date |
| 4337DR-FL-EPA-05 | Federal Operations Support | September 4 to October 15, 2017 | 0% | $90,000 | $51,065 |
| 4337DR-FL-EPA-03 | Direct Federal Assistance | September 10 to October 3, 2017 | 0% | $525,000 | $458,556 |
| 4337DR-FL-EPA-04 | Disaster | September 4 to October 3, 2017 | 0% | $9,000,000 | $2,910,682 |
| 4337DR-FL-EPA-07 | Landfill Specialty Team | September 25 to October 3, 2017 | 0% | $675,000 | $0 |

## VIII. OFFICE OF EXTERNAL AFFAIRS (OExA)

### a. Press Inquiries:

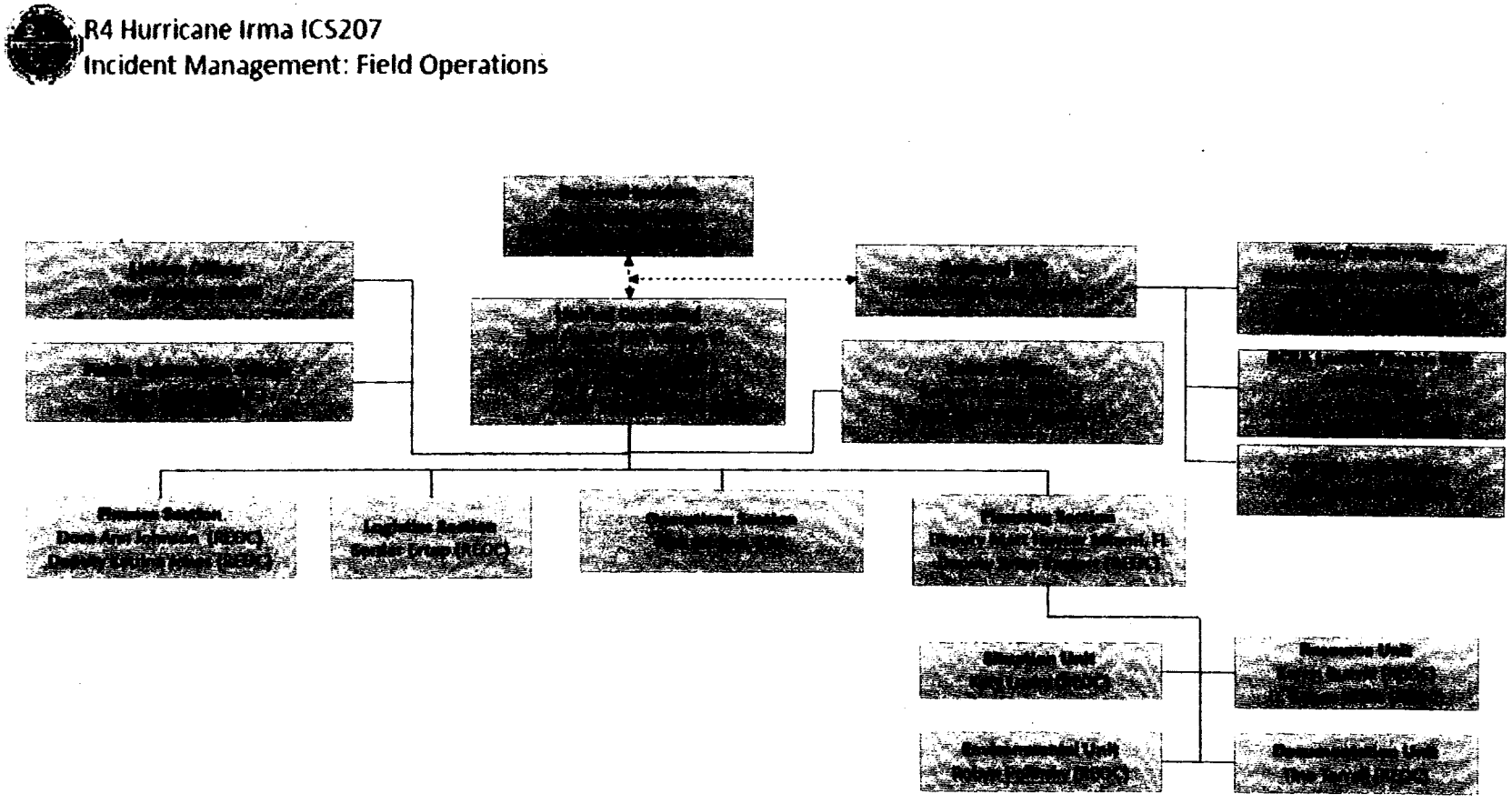
Georgia Public Broadcasting (Ga.) (Cindy Hill) [Received 9/21] – CLOSED - Would like to speak with someone at EPA about the preliminary study on the Superfund sites in Brunswick, Georgia following the impact of Hurricane Irma

### b. Congressional Inquiries:

On 9/20, the EPA Headquarters (HQ) received a letter from Senators Rubio and Nelson urging EPA to continue to work with state and municipal governments to expedite "direct federal assistance and technical assistance" to reduce sewage and untreated wastewater exposure risks. The letter also asked EPA to consider using the Clean Water and Drinking Water State Revolving Funds (SRF) to enhance capacity and resilience of drinking water, stormwater and wastewater systems. The letter was controlled to the Region 4 Water Protection Division for reply.

Staff from Congressman Brian Mast (FL-18) contacted EPA HQ to inquire whether EPA field personnel could meet with the Congressman this week to discuss Irma related water quality issues. HQ forwarded the request to the Regional Administrator's office.

Figure 1


R4 Hurricane Irma ICS207
Incident Management: Field Operations

Hurricane Harvey 2017
9/26/2017 – 0700 CDT Update

***Updates will be issued on Tuesdays and Fridays going forward. The next update will be issued Friday morning, September 29, 2017.***

## EXECUTIVE SUMMARY

- The Houston Branch continues to consolidate orphan containers from the Corpus Christi, Houston and Beaumont Branches for proper disposal. The Houston Branch completed waste characterization on September 23, 2017. Disposal is projected to be completed within 14 days.

- The Corpus Christi, Houston and Beaumont Branches have transitioned the remaining orphan container recovery activities to the Texas Commission on Environmental Quality (TCEQ) Regional offices for completion.

- EPA Teams from the Beaumont Branch continued monitoring the LD Construction Co. Oil Spill in Lumberton, Texas. The Responsible Party had a 23-man crew on site conducting cleanup of the two most oil-impacted properties. Operations included removal of oil contaminated soil and vegetation and decontamination of personal property (boats, trailers, ATVs, etc). Further assessments identified five additional properties with oil contamination. This brings the total number of impacted properties to ten. Oversight of the removal will continue during the week of September 25, 2017.

- On September 22, 2017, EPA received a Pollution Removal Funding Authorization (PRFA) for $1,700,000 from the U.S. Coast Guard to provide technical assistance with data, Geographic Information Systems (GIS) and Incident Action Plan (IAP) support along with continued use of the Corpus Christi Incident Command Post to support the US Coast Guard and Texas General Land Office vessel recovery efforts. The PRFA is for the next three months.

- EPA will update community environmental justice (EJ) advocates in its weekly Hurricane Harvey conference call today, September 26, 2017.

## COMMUNITY LIAISONS

Community Liaison teams continue to provide information regarding returning to flooded areas and handling of house-hold waste in the counties of San Patricio, Refugio, Calhoun, Harris,

Liberty, Wharton, Aransas, Chambers, Newton, Nueces, Fort Bend, San Jacinto, Orange and Jefferson. The plan is for these teams to continue activities until October 23, 2017. The teams are listening to concerns from the community, associated with the recovery effort, and transferring this information back to County officials and, as appropriate, to ESF contacts in the Joint Field Office (JFO).

## DEBRIS OBSERVATIONS

Joint EPA and TCEQ field observation teams continue to observe debris staging and landfill operations within Harris, Chambers, Brazoria and San Jacinto counties in Texas to ensure best practices and program requirements are being met. EPA observers visited 11 sites with TCEQ on September 25, 2017. FEMA reported that 177 debris sites have been approved. Currently, FEMA estimates debris to total 19.25 million cubic yards. A federal Debris Management Taskforce has been established at the Joint Field Office (JFO) in Austin and EPA is a member of the Taskforce.

## ORPHAN CONTAINER & WASTE DISPOSAL OPERATIONS

| **Items/Materials Processed for Disposal as of 9/25/17** | | | | | | |
|---|---|---|---|---|---|---|
| | **Drums [55gal]** | **Small Containers [< 55gal]** | **Large Containers [> 55gal]** | **Cylinders** | **Solid Waste/Roll Off Box** | **Total Scrap Metal Recycled (lbs)** |
| Total received at all Staging Pads | 427 | 397 | 43 | 120 | 4 | 5,000 |
| **Processed for Disposal** | | | | | | |
| Total processed for disposal | 304 | 397 | 29 | 71 | 3 | |
| Remaining to be Processed for Disposal | 123 | 0 | 14 | 49 | 1 | |
| **Percent Remaining** | **29%** | **0%** | **33%** | **41%** | **25%** | |

## FUNDING

**September 25, 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 Remaining | 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 | $77,064.00 | $77,064.00 | $165,677.00 | $165,677.00 | $2,032.00 | 81.53 |
| MA 4332DR-TX-EPA-04 | $3,301,270.60 | $2,914,000.00 | $1,974,229.00 | $512,606.96 | $939,771.00 | $2,401,393.04 | $148,726.72 | See Below |
| Totals: | $3,576,270.60 | $3,156,741.00 | $2,051,293.00 | $653,870.96 | $1,105,448.00 | $2,502,870.04 | | |
| **Days remaining based on authorized direct ceiling minus total payroll, travel, and contracts EXPENDED** | | | | | | | | 16.15 |
| **Days Remaining based on authorized ceiling minus total payroll, travel, and contract OBLIGATIONS** | | | | | | | | 7.43 |

| Funding Sources | Funding Ceiling | Funding Ceiling Less Indirect | Obligated to Date | Estimated Spent to Date | Unobligated Dollars Remaining | Estimated Unspent Dollars Remaining | Daily Burn Rate | Days Remaining |
|---|---|---|---|---|---|---|---|---|
| MA 4332DR-TX-EPA-03 (Expired) | $12,192,000.00 | $10,761,763.00 | $7,619,781.41 | $6,456,966.96 | $3,141,981.59 | $4,304,796.04 | Expired | Expired |

# Hurricane Irma/Hurricane Maria 2017
# 9/27/2017 – 1030 EDT Update

## EXECUTIVE SUMMARY

- CEPD – Region continues to reach out and contact CEPD personnel post storm. In Puerto Rico, communications are very difficult and a majority of employees have not yet been accounted for. At this writing the Director and Deputy Director have been able to account for 51 of 56 employees based in PR. In the USVI both employees are safe and in contact with EPA responders. CID has made contact with only one of their two agents in PR. CID/NCERT agents arrived in PR on 9/24 and are assisting CEPD locate EPA employees.

- The CEPD Guaynabo office building is running on generator power. Data and voice services and cell phone service is operating.

- The CEPD office in St. Thomas, USVI has been assessed and in the same condition post Hurricane Irma. EPA will follow up with GSA on the cleaning and air monitoring from the damage done by Irma.

  The CEPD office in Vieques, PR has not been assessed post Hurricane Maria.

- The personnel information from the EPA re-deployment plan was provided to FEMA so flights and lodging needs can be coordinated for the first wave of EPA responders. Flights for EPA personnel continued to be postponed, as the priority is still the life-saving and life sustaining mission. We will keep pursuing FEMA flights, however we are also coordinating with the U.S. Coast Guard for possible flight space as they move people and equipment into the U.S. Caribbean. Suitable lodging on PR remains a challenge. We continue to pursue berthing space on the various FEMA supported vessels arriving in PR.

  - Puerto Rico: **120 people** (50 people on 9/30 + 50 people on 10/1 + 20 people on 10/7).

  - St Croix: **88 people** (20 people on 9/27 + 34 people on 9/30 + 34 people on 10/2)

  - St Thomas: **68 people** (34 people on 9/28 + 34 people on 10/2)

- Other Significant Concurrent Events.

  - We continue to monitor the northern track of Hurricane Maria for potential

impacts to the East Coast. We have developed a mobilization and resource plan should any impacts require a response in NY/NJ.

- **Hurricane Irma Recovery Update.**
  - **NDRF and FEMA Recovery Support Function(s):**
    - NDRF activation: The NDRF has not yet been activated in either PR or the VI. There is an expectation that it will be activated asap and therefore all partners are being engaged for awareness, planning and visibility. EPA has already provided data as part of the advanced evaluation and will continue to do so.
    - FEMA reported that the SS Wright currently in St Thomas delivered several recovery personnel including the Federal Disaster Recovery Officer (FDRO) and we expect the Federal Disaster Recovery Coordinator (FDRC) to be deployed in the next 10 days.
    - Recovery Support Functions (RSFs): R2 CASD is working on a staffing plan for all 6 Recovery Support
  - RSFs include Community Planning & Capacity Building, Economic, Housing, Health & Human Services, Infrastructure, and Natural & Cultural Resources. All 6 are expected to be stood up for both PR and the VI. To date:
    - The Health and Human Services Recovery Support Functions (RSF) Coordinator will be in the VI on Saturday.
    - FEMA reported that the SS Wright is expected to arrive on Saturday in St Thomas with several recovery personnel including the Federal Disaster Recovery Officer (FDRO)
    - The Community Planning and Capacity Building (CPCB) RSF coordinator is expected to be deployed within in the next 10 days.
    - Economic Development Administration (EDA) already has 1 liaison in PR.
  - We are working with each of the RSF Coordinators with data and planning support which we will coordinate with our response team as appropriate. HHS has asked us for support in conducting EJ analysis and information on potential health issues related to water and wastewater systems in PR.
  - **National Coordination**:
    - Unified Federal Review: FEMA has named Michael Audin with whom we worked closely on Sandy Recovery, as FEMA's lead for Environmental and Historic Preservation for PR and the VI. No Request for an EPA contact yet.
    - Sustainability Advisor: No Request yet

- **Emerging Recovery Issues**: Housing, power distribution, workforce development, drinking and waste water, long term disaster debris management.

- **Topics of Interest from FEMA Daily Reports**: Nothing to report.

- **Other:** No other issues at this time.

## PUERTO RICO / U.S. VIRGIN ISLANDS CONDITIONS

**General:**

- On 9/26/17 FEMA Administrator Brock Long met with FEMA personnel and the governors of the USVI and Puerto Rico to get an update on the current situation and each governor's priorities and assess the progress of response and recovery efforts underway.

- The Department of Health and Human Services (HHS) **has** more than 300 staff on the ground, including a National Disaster Medical System Disaster Medical Assistance Teams (DMAT), with more on the way. HHS is working with staff from the U.S. Army Corps of Engineers (USACE) to re-open hospitals around Puerto Rico and the U.S. Virgin Islands.

- HHS and DoD are conducting medical evacuations; so far they've evacuated more than 150 patients from the U.S. Virgin Islands and Puerto Rico to locations in the continental United States. In the U.S. Virgin Islands, FEMA and the American Red Cross are providing hotel lodging and support for the remaining patients until additional movement can be coordinated. More than half of the dialysis centers in the U.S. Virgin Islands and Puerto Rico are now operational.

- Nine FEMA Urban Search and Rescue (US&R) teams working in coordination with the U.S. Coast Guard, U.S. Customs and Border Protection, and others continue to conduct search and rescue operations in Puerto Rico and the U.S. Virgin Islands. Together, these teams have saved or assisted 530 individuals so far.

**US Virgin Islands** (USVI):

- State of Emergency declared; National Guard activated.

- St. Thomas and St. John: curfew is 6pm -9am. St. Croix remains at 24 hours except for 12pm-4pm

- Power Outages:

  - St. Thomas: 19,574 (99%)
  - St. John: 2,893 (100%)

- St. Croix: 25,274 (90%)

- Public schools remain closed

- The Governor Juan F. Luis Hospital in St. Croix and the Schneider Regional Medical Center Emergency Room in St. Thomas were re-energized and re-established as mobile hospitals over the weekend by HHS and Department of Defense (DoD).

- St. Thomas 47.3% cell sites out of service. St. John 66.7% and St. Croix 76.2% or less of cell sites out of service.

- Airports: St. Thomas and St. Croix: Open for response and recovery operations only. A contingency ramp has been established at Cyril E. King Airport to support disaster response and recovery thru 9/30.

- Ports:
  - St. Thomas Open with restrictions: East Gregerie Channel, West Gregerie Channel, Crown Bay, Redhook
  - St. John Open with restrictions: Cruz Bay
  - St. Croix Open with restrictions: Krause Lagoon; Limetree Bay: Frederiksted
  - All other ports closed

**Puerto Rico** (PR):

- State of Emergency remains in effect; National Guard activated.

- Curfew in effect 7pm to 5am; health care workers, emergency officials, police, journalists and citizens who are dealing with an emergency situation are exempt

- 92.5% (-3.1) of cell sites are out of service. 2,470 of 2,671 cell sites are out of service. 389 on backup power

- Airports: San Juan: 10 arriving commercial flights inbound. Additional status updates include: 7 open; 2 military air and hurricane relief; 1 closed. **Luis Munoz Marin Airport (San Juan)** – Will increase commercial flights to 12 domestic flights per day. International flights will begin in the weekend

- Ports. Open: Guayanilla, Salinas, Tallaboa Open with restrictions: San Juan, Fajardo, Vieques, and Culebra, Guayama All other ports closed

- **Public Transportation** – Public Transportation in the Metropolitan Area is not operational. Urban train stations are closed and public buses are not in service. Government is considering establishing contracts for private transportation services

- **Toa Vaca and Guayabal Dams**. No changes to report.

- **Guajataca Dam**. No changes to report..

- **PREPA** – PREPA achieved 4% electricity to clients in San Juan, but it was lost due to the fragile condition of the system. A number of hospitals in the metropolitan area were affected by the outage. PREPA has also focused on energizing the Aguirre Power Plant to provide energy to southern PR. PREPA was able to energize parts of Mayaguez by using a diesel turbine power plant. Governor indicated that one of the priorities is for FEMA to bring 300 brigades to repair PREPA's system. PREPA bondholders offered a $1 billion loan to help reestablish the electrical system in PR. It is special type of loan given to financially stressed entities known as DIP.

- **PRASA** – According to PRASA, 45% of clients have access to drinking water.

- **Shelters** – Approximately 11,500 residents staying in government shelters

- **Access to Fuel** - There is citizen desperation and frustration due to limitations to access to gasoline and diesel / lines in gas stations are extensive (3 to 12 hour wait)

**PUBLIC AFFAIRS**

The PIO is Elias Rodriguez, who can be reached at 212-637-3664. The Assistant PIOs are Tayler Covington, who can be reached at 212-637-3662 and Pat Seppi, who can be reached at 646-369-0068. All press inquiries are being managed through the Office of Public Affairs.

OPA issued a Maria update news release on September 26, 2017: "EPA Hurricane Maria Update for Tuesday, September 26"." OPA issued a news release on September 26 announcing EPA Administrator Scott Pruitt's approval of a request from Puerto Rico Governor Ricardo Rosselló for an emergency fuel waiver: "EPA Approves Emergency Fuel Waiver for Puerto Rico".We continue to provide all Region 2 staff with relevant Maria news clips and EPA news releases.

The response web site www.epa.gov/hurricane-maria is being updated daily by the HQ EOC and Region 2 PIO.

Community Involvement: The PIO and PAD management have identified PIOs, bi-lingual Community Involvement Coordinators and community relations support for the USVI and Puerto Rico assessment and cleanup teams. A PIO and a CIC are planning to deploy to Puerto Rico on Monday, October 2. We are continuing to identify personnel and options for deployment of additional CICs and PIOs through October to support ground and REOC operations.

**Region 2 – Hurricane Irma Management Objectives**

- Protect the health and safety of EPA employees.
- Implement a re-position plan to address communications schedules, employee location information, rallying points, and a cellular and satellite communication plan.

- Coordinate with FEMA on the re-position and remobilization of EPA responders.
- Implement a re-mobilization plan.
- Minimize social, political, and economic adverse impacts.
- Maintain communication and briefing schedule with R2 senior executives and EPA Headquarters. Support a consistent communications approach agency-wide, enabling EPA to act and speak in unison during these incidents.
- Provide situation reports and other information on schedule provided by RIC.
- Provide guidance for length of work day and deployments as it pertains to this specific event.
- Coordinate logistics with deployed personnel to provide transportation options, lodging, security, ground transportation on site.
- Identify clearly defined roles for both Regions and Headquarters.
- Identify long-term recovery objectives the Agency may be requested to support, and determine resources needed to support/sustain those requests to accomplish the objectives.
- Secure NPL and removal sites. Regulated facilities and Superfund and oil sites will be surveyed post storm fall
- Identify vulnerabilities at regulated facilities
- Address any immediate hazardous substance releases or oil spills resulting from the storm's impact
- Assist state and local agencies in ensuring safety of drinking water systems.
- Monitor air quality when/if necessary in response to conditions on the ground.
- Provide guidance for length of work day and deployments as it pertains to this specific event
- Coordinate logistics with deployed personnel to provide transportation options, lodging, security, ground transportation on site;
- Coordinate national resources to assist the Region;
- Identify clearly defined roles for both Regions and Headquarters;
- The response will use the Region's incident specific Data Management Plan (DMP);
- In collecting, sharing, and analyzing environmental data, EPA will give primacy to data with potential human health consequences;
- EPA will work to ensure that its decision-makers have access to the data and expertise they need to make decisions based on sound science.

## DEBRIS RECOVERY

### USVI Debris Mission.

- FEMA EOC in STX has requested that EPA take part in daily Debris Management meetings. EPA will advise on air monitoring and/or sampling protocols associated with the burning of debris. However, no decision has been made on whether there will be burn operations. FEMA STX has also indicated that EPA may be requested to assist with medical waste issues resulting from the re-establishment of medical facilities on STX and STT.

## AIR MONITORING

**Puerto Rico**. EPA made contact on 9/25 with EQB's air quality program. EQB is planning to conduct an assessment on the conditions of the ambient air monitoring network. The network was taken offline prior to Hurricane Maria landfall. There is no update or information on the status or damages. They will staff an assessment team once their employees are able to return to the office, which may occur as early as 9/26.

## EMERGENCY RESPONSE

| Daily/Cumulative Summary of Hazard Evaluations/Recovery | | | | |
|---|---|---|---|---|
| **Status** | **Opened** | | **Closed** | |
| | **9/26/2017** | **Cumulative** | **9/26/2017** | **Cumulative** |
| Puerto Rico | 0 | 0 | 0 | 0 |
| U.S. Virgin Islands | 0 | 2 | 0 | 2 |

Note: Open means that the target is yet to be recovered. Closed means the target was recovered, left in place, or access was denied to collect the item. The facilities on the USVI are associated with the request for mold assessment of the STT airport tower and the current oil spill at Total.

| Daily/Cumulative Summary of Spills/Discharges | | | | |
|---|---|---|---|---|
| **Status** | **Opened** | | **Closed** | |
| | **9/26/2017** | **Cumulative** | **9/26/2017** | **Cumulative** |
| Puerto Rico | 0 | 3 | 0 | 3 |
| U.S. Virgin Islands | 0 | 1 | 0 | 1 |

## SUPERFUND NPL, SUPERFUND REMOVAL, AND OIL REMOVAL SITES

Preparations are underway to re-assess Superfund and oil sites in PR and the USVI as part of the Region's re-deployment plan. Re-assessment planning/implementation is on-going.

| SUPERFUND SITES (NPL, Removal and Oil) | | | | | | |
|---|---|---|---|---|---|---|
| **PUERTO RICO** | | | | | | |
| **Site** | **Type** | **Phase 1** | **Phase 2** | | **Phase 3** | **All Phases Completed** |
| | | **Post-Storm Assessment** | **Site Inspection Needed** | **Inspected** | **Additional Response Action** | |
| Atlantic Fleet Weapons | NPL | | | | | |
| Juncos Landfill | NPL | | | | | |
| Upjohn Facility | NPL | | | | | |
| Arecibo Battery Recycling Corp. | Removal & NPL* | 9/21 | No | Yes | No | 9/21 |
| Corozal Battery | Removal & NPL* | | | | | |
| Cabo Rojo Groundwater | NPL | | | | | |
| Cidra Groundwater | NPL | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Dorado Groundwater | NPL | | | | | |
| Fibers Public Supply Wells | NPL | | | | | |
| Hormigas Groundwater | NPL | | | | | |
| Maunabo Urbano Public Wells | NPL | | | | | |
| Papelera Puertoriquena, Inc. | NPL | | | | | |
| Pesticide Warehouse 1 | NPL | | | | | |
| Pesticide Warehouse III | NPL | | | | | |
| San German Groundwater | NPL | | | | | |
| Scorpio Recycling | NPL | | | | | |
| Vega Alta Public Supply Wells | NPL | | | | | |
| Vega Baja Solid Waste Disposal | NPL | | | | | |
| Guayanilla Bay Oil Spill | Oil Response | | | | | |
| Puma Caribe (CAPECO) | Oil Response | | | | | |
| **U.S. VIRGIN ISLANDS** | | | | | | |
| TUTU Well Field | NPL | | | | | |
| Krum Bay Oil Spill at WAPA Facility | Oil Response | | | | | |
| Cruz Bay Oil Tank | Oil Response | | | | | |

* These are Sites that have both, a Removal and Remedial program action. Only one assessment will be conducted per Site.

## REGION 2 RESPONSE ORGANIZATION (ICS 207)

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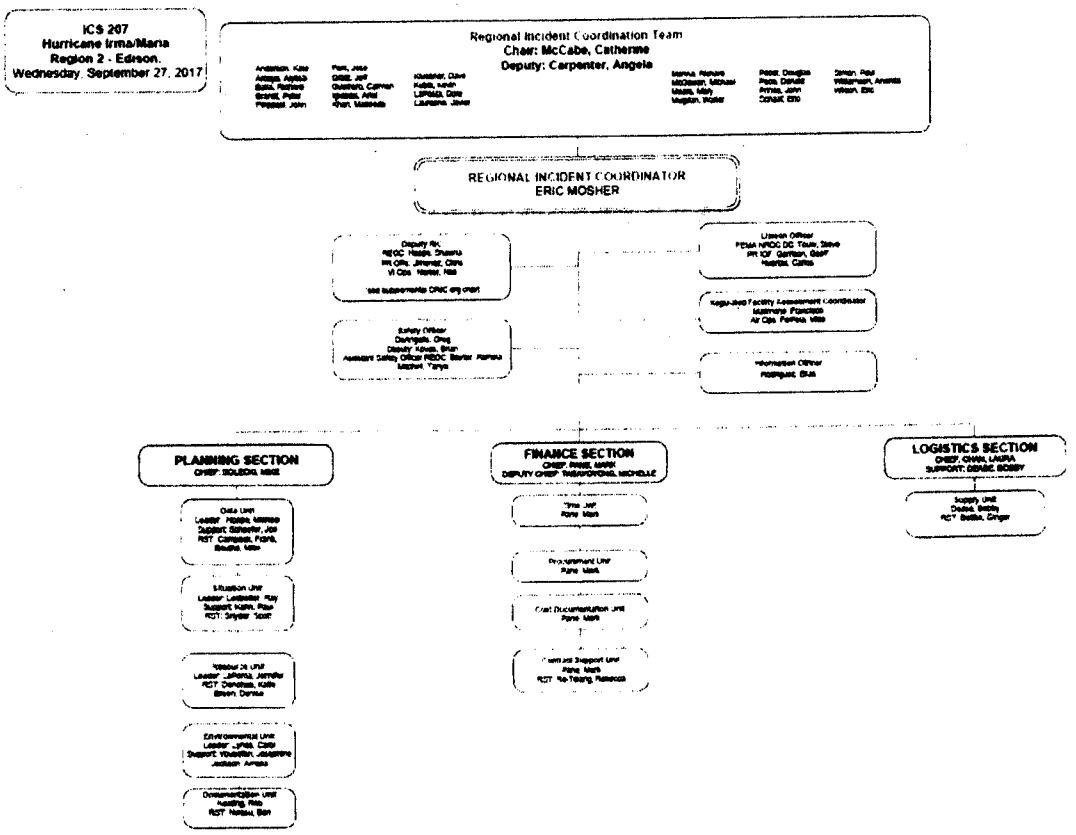


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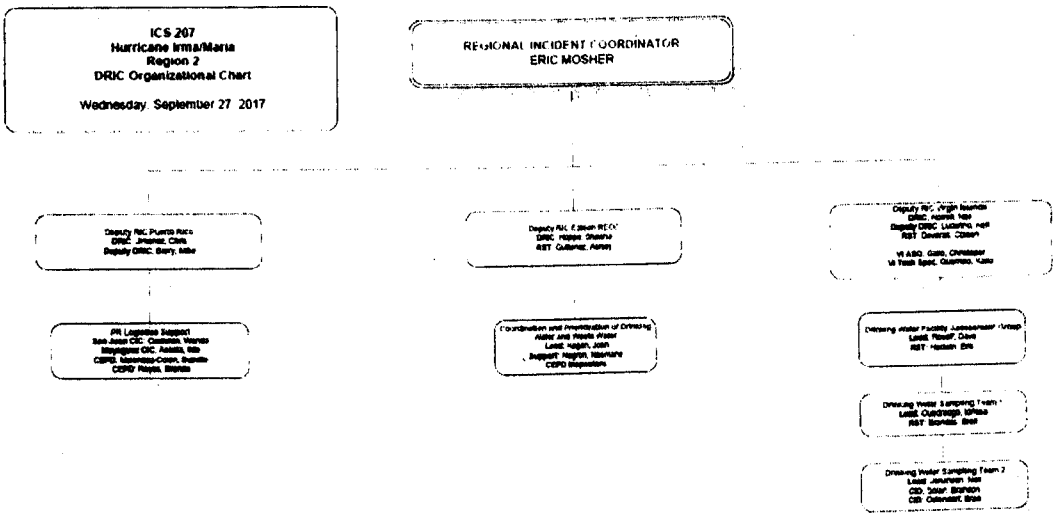



# FIELD RESPONSE ACTIVITIES

## PUERTO RICO

- Assessment teams comprised of OSCs, technical assistance contractors, and public affairs personnel are preparing to re-deploy to Puerto Rico in accordance with our EPA Region 2 Mobilization and Resource Plan as soon as transportation and lodging issues are resolved.

- EPA CEPD has resumed limited operations and is scheduling drinking water/wastewater facility assessments. Two assessment teams went out 9/26 and visited:
    - PRASA – Carolina WWTP
    - PRASA – Puerto Nuevo WWTP
    - PRASA – Bayamon WWTP

  Assessment teams will go out 9/27 to visit:

    - PRASA – Dorado WWTP
    - PRASA – Vega Baja WWTP
    - PRASA – Sergio Cuevas WTP
    - PRASA – La Plata WTP
    - PRASA – Guaynabo WTP

- Available CEPD Staff are coordinating with the response command structure to provide support in other assessments, such as chemical and oil facilities, NPL, and removal sites

- Local municipalities have not reported any issues with the landfills in PR. EPA assessments teams will be aware of the potential issue as they conduct their other assessment work within the impacted communities.

- Assessment teams made up of OSCs, RPMs, technical assistance contractors and public affairs officers waiting to deploy to PR.

- FEMA has moved its base of operations from IOF in Caguas to the 3rd floor of the Sheraton Convention Center in San Juan, near the Coast Guard base. The IOF and all other FEMA and PREMA ops will be located there as part of a joint operations center. EPA is staffing the ESF #10 desk daily.

**U.S. VIRGIN ISLANDS**

- Additional assessment teams are preparing to re-deploy to the USVI in accordance with our EPA Region 2 Mobilization and Resource Plan.

- EPA water assessment and sampling team made up of 3 OSCs and 3 water sampling personnel arrived in STX, VI on 9/24. Sampling activities commenced on 9/25.

- The air bridge and flight rotator to STT is reopening today.

- Ocean Systems water testing: A generator will be shipped from PR to resolve power issues at the St. Croix lab. The St. Thomas lab received its generator and is operational. Weston, EPA and Ocean Systems laboratory personnel met to discuss the contracting of Ocean Systems for sampling and lab analysis on St. Croix, St, Thomas, and St. John.

- On 9/26, Two assessment and sampling teams were active today. 17 Samples were taken today from the two teams combined at the following public water systems.

    - Rainmaker Plaza Extra East
    - Plaza Extra East Ice Plant
    - Plaza Extra East Kitchen
    - Herbert Grigg Home IC
    - Herbert Grigg Home LTC
    - Herbert Grigg Home Kitchen
    - Limetree Bay Terminals
    - Lorraine Village
    - St. Croix Educational Complex
    - WAPA 123 Strawberry
    - Lutheran Social Services Flamboyant E
    - Lutheran Social Services Flamboyant F
    - Lutheran Social Services Flamboyant I
    - Lutheran Social Services Flamboyant G
    - Lutheran Social Services Flamboyant J
    - Peppertree Terrace
    - Juan Luis Hospital

- Processed (colilert) and recorded the results of the 9 samples collected on 9/25/2017. Results show positives for Ecoli for 3 of the systems: St. Croix Mutual Homes (2) and Lewis E. Brown Apartments. Disinfection of these cistern based community systems is required.

- For 9/27, EPA will be working at the DPNR Office in Frederickstead tomorrow to develop drinking water facility target lists for St. Croix as well as St. Thomas, and St. John. In addition to developing the target lists EPA and DPNR will perform some sampling and assessments at the following facilities:

    - St. Croix Mutual Homes #14/15
    - St. Croix Mutual Homes #22/23
    - Cane Brake
    - Estate Carlton
    - Armory

- EPA will lead another team to continue sampling efforts and assessments with these target Facilities:

- Aqua Mist
- Blue Mountain
- Mario's Virgin Krystal
- Purified Water
- Rainmaker (Cost-U-Less)
- Rainmaker (Seaside)
- Association of St. C
- Fort Louise Augusta
- Granada Del Mar
- Harborview
- Long Reef
- Mill Harbour
- Peter's Farm Condominium
- Questa Verde (bldg. D)
- Questa Verde (bldg. F)
- Questa Verde (bldg. M/N)
- Questa Verde (bldg. K/L)
- The Reef Condominiums

**REGION 2 REGIONAL EMERGENCY OPERATIONS CENTER (REOC)**

- Re-deployment/mobilization plan is being implemented for EPA response personnel and resources.

The table below displays the teams that have been deployed based on the assessment results in Puerto Rico or the USVI.

| **Quantity and Types of Teams Deployed 9/26/2017** | | |
|---|---|---|
| **Team Type** | **Puerto Rico** | **U.S. Virgin Islands** |
| Assessment Team – All Missions | 0 | 0 |
| Water Assessment | 0 | 2 |
| Hazard Evaluation | 0 | 0 |
| Oil Discharge Assessment | 0 | 0 |
| Container Recovery | 0 | 0 |
| Oil Recovery | 0 | 0 |
| ER/Recovery | 0 | 0 |
| Air Operations | 0 | 0 |
| Contaminated Debris | 0 | 0 |
| Operation Centers (REOC), PREOC, VITEMA, PR IOF, VI IOF | 1 (PR IOF) | 1 (STX VITEMA/FEMA Bunker) |

- 

**PUERTO RICO**

| | CONTAINERS | | | TOTAL |
|---|---|---|---|---|
| | Drums (55 Gals) | Large Containers (<55 gals) | Large Containers (>55 gals) | |
| **9/26/2017** | 0 | 0 | 0 | 0 |
| **Total to Date** | 0 | 0 | 0 | 0 |

## U.S. VIRGIN ISLANDS

| | CONTAINERS | | | TOTAL |
|---|---|---|---|---|
| | Drums (55 Gals) | Large Containers (<55 gals) | Large Containers (>55 gals) | |
| **9/26/2017** | 0 | 0 | 0 | 0 |
| **Total to Date** | 0 | 0 | 0 | 0 |

## AGENCY COORDINATION

Region 2 has one rep to staff the ESF-10 desk in the FEMA NRCC in Washington D.C. EPA has an OSC in the VITEMA/FEMA EOC bunker in St. Croix.

Environmental Response Management Application (ERMA). NOAA supports a ERMA viewer for both EPA Region 2 and the U.S Coast Guard. Aerial photos are available through the following link.

https://erma.noaa.gov/caribbean/erma.html#/layers=3+36619+36620+36611+36618&x=-65.62791&y=18.14726&z=9&panel=layer

**U. S. Coast Guard Air/Flight Support**. EPA Air/Flight Support will coordinate through USCG Seventh District Miami office resources unit for both Clearwater and Miami USCG air stations. Currently there is one flight/day to SJU from Miami. EPA is seeking an opportunity to move water and hazmat/oil teams into the U.S. Caribbean. EPA will submit requests for transportation as part of the ongoing queue.

## SPILL/RELEASE RESPONSE

| Hotline Calls as of September 26, 2017 | |
|---|---|
| **Number of Maria Related Calls Received During Reporting Period 1300-0100** | 1 |

| Total Number of Maria Related Calls to Date | 6 |
|---|---|
| * EPA is assessing each call through the NRC to determine appropriate response and forwarding reports to field personnel to conduct further assessments and response as | |

## DRINKING WATER / WASTEWATER

CEPD is waiting to hear back from PRASA on drinking water facilities' statuses, and plans to begin field inspections on 9/26 of plants near the San Juan Airport. CEPD also will begin attempting contact with non-PRASA facilities on 9/26. PR also currently has an island-wide boil water order. Of PRASA's total 52 total plants, 9 are operational, 19 are non-operational, and 24 have an unknown operational status. CEPD will begin field inspections on 9/26 of plants near the San Juan.

FAA intends to drill a water well at an FAA facility near the San Juan Airport to supply water to their HVAC systems and also for the staff of 40 to 60 people. EPA is waiting for more information from the FAA.

**PRASA Waste Water Treatment Plants:**

Out of PRASA's total of 52 facilities, 9 are operational, 19 are non-operational, and 24 have an unknown operational status. CEPD will begin field inspections of plants near the San Juan Airport on 9/26. The status of the PRASA facilities as of 9/24 is below.

...

| | | | | | |
|---|---|---|---|---|---|
| ESTE | CAGUAS | PA AGUAS BUENAS | | | X |
| ESTE | CAGUAS | PA CAGUAS | X | | |
| ESTE | CAGUAS | PA PARCELAS BORINQUEN | | | X |
| ESTE | CAYEY | PA AIBONITO | X | | |
| ESTE | CAYEY | PA BARRANQUITAS | | | X |
| ESTE | CAYEY | PA CAYEY | X | | |
| ESTE | CAYEY | PA COMERIO | X | | |
| ESTE | FAJARDO | PA CULEBRA | | | X |
| ESTE | FAJARDO | PA FAJARDO NUEVA | | | X |
| ESTE | FAJARDO | PA RIO GRANDE STATES | | | X |
| ESTE | FAJARDO | PA VIEQUES | | | X |
| ESTE | HUMACAO | PA HUMACAO | X | | |
| ESTE | HUMACAO | PA YABUCOA | X | | |
| METRO | BAYAMON | PA BAYAMON | | | X |
| METRO | CAROLINA | PA CAROLINA | | | X |
| METRO | SAN JUAN | PA PUERTO NUEVO | | | X |

| | | | | | |
|---|---|---|---|---|---|
| NORTE | ARECIBO | PA ARECIBO | X | | |
| NORTE | ARECIBO | PA CAMUY HATILLO | X | | |
| NORTE | ARECIBO | PA JAYUYA NUEVA | | | X |
| NORTE | ARECIBO | PA LARES | X | | |
| NORTE | ARECIBO | PA UTUADO NUEVA | | | X |
| NORTE | MANATI | PA BARCELONETA | | | X |
| NORTE | MANATI | PA CIALES | | | X |
| NORTE | MANATI | PA MOROVIS | X | | |
| NORTE | MANATI | PA UNIBON | X | | |
| NORTE | MANATI | PA VEGA BAJA | | | X |
| NORTE | TOA ALTA | PA COROZAL | X | | |
| NORTE | TOA ALTA | PA DORADO | | | X |
| NORTE | TOA ALTA | PA NARANJITO | | | X |
| NORTE | TOA ALTA | PA TOA ALTA | | | X |
| NORTE | TOA ALTA | PA VEGA ALTA | X | | |
| OESTE | AGUADILLA | PA AGUADA - AGUADILLA | | X | In operation |
| OESTE | AGUADILLA | PA ISABELA | X | | In operation |
| OESTE | AGUADILLA | PA SAN SEBASTIAN NEW | | X | In operation |
| OESTE | AGUADILLA | PA SAN SEBASTIAN OLD | | X | In operation |
| OESTE | MAYAGUEZ | PA LAS MARIAS | | X | In operation |
| OESTE | MAYAGUEZ | PA MARICAO | | X | In operation |
| OESTE | MAYAGUEZ | PA MAYAGUEZ | | X | In operation |
| OESTE | SAN GERMAN | PA LAJAS | | X | In operation |
| OESTE | SAN GERMAN | PA SAN GERMAN | | X | In operation |
| SUR | COAMO | PA OROCOVIS | | | |
| SUR | COAMO | PA SANTA ISABEL | | | |
| SUR | GUAYAMA | PA GUAYAMA | | | |
| SUR | GUAYAMA | PA MAUNABO | | | |
| SUR | GUAYAMA | PA PATILLAS | | | |
| SUR | PONCE | PA ADJUNTAS | | | |
| SUR | PONCE | PA PONCE | | | |
| SUR | YAUCO | PA GUANICA | | | |
| SUR | YAUCO | PA GUAYANILLA | | | |
| SUR | YAUCO | PA PEÑUELAS | | | |
| SUR | YAUCO | PA YAUCO | | | |
| ESTE | CAGUAS | PA FAJARDO | | | X |

**PREPA:** The Director of PREPA indicated that the power system is non-functioning. It

suffered severe and catastrophic structural damage in the distribution lines and it will take many months for repairs and reconstruction.

**USVI Drinking Water Status: VIWAPA:** http://www.viwapa.vi

On 9/23/17, EPA Region 2 issued an order pursuant to the SDWA that authorized FEMA/DOD to pump drinking water to the USVI. FEMA/DOD are working to deploy 4 reverse osmosis units in St Croix to deliver drinking water to the following impacted areas:

Stoney Ground
Cane Bay
Altima
Cramer Park

DPNR requested EPA to conduct sampling, especially bacteria, and analysis. They also would like any ice being brought to the USVI analyzed for bacteria, at a minimum. An EPA water sampling team arrived on St. Croix on 9/24 and will assist DPNR in this regard.

The REOC was able to have generators shipped on to the USVI on 9/23/17. They will be used to help power the DPNR and WAPA labs.

## REGULATED FACILITIES

In addition to a post-storm assessment email on 9/21/17, the Regulated Facility Team (RFT) re-sent post-storm assessment email questionnaire on 9/26/17 to approximately 205 RMP, FRP, and SPCC facility representatives for facilities located in PR and the VI. The RFT continues to tabulate the responses, and pass-on field assessment candidates to Operations as appropriate. The RFT expects a better response rate to the post-storm assessment once telecommunications on PR and the USVI improves.

The RFT is continuing efforts to directly contact significant RMP, FRP, and SPCC companies that have not yet responded to the post-storm assessment via email or by phone. Several significant RMP, FRP, and SPCC companies in PR and the USVI, such as Puma, PRASA, Total, and WAPA have preliminarily reported no damage to oil, chemical, or flammable operations.

The RFT, in coordination with the Regional Emergency Operations Center (REOC), continues to provide effective compliance assistance to facilities that experienced spills/releases, potential spills/releases, and lost containers. In addition to the Buckeye, Yabucoa, PR facility that experienced an approximate 50-gallon spill into secondary containment, the RFT is investigating a what was reported in a local news article to be a minor ammonia release at the Cervcerea de Puerto Rico facility located in Mayaguez, PR. The RFT has provided ammonia refrigeration technical assistance to Operations that will assist in the evaluation of this facility by the field assessment team. Limetree Bay Holdings, located in St. Croix, USVI, is currently addressing minor spills on-site. The RFT will remain in contact with Limetree Bay Holdings until the spills are resolved.

The RFT is assisting Operations and the Data Team by providing updated RMP, FRP, and

SPCC targeting information for upcoming field assessments. Additionally the RFT is using various EPA databases to provide regulatory history and other facility-specific information when requested.

The Regulated Facility Assessment Coordinator (RFAC) continues to coordinate damage assessment and field assessment referral information with other R2 inspection programs working in UST, Federal Facilities, RCRA, CAA, and NPDES. The UST program remains in-touch with the DPNR UST Program Manager, and continues to provide information on USTs and gas stations through frequent attempts to contact USVI and PR local authorities and regulated facility personnel. The Federal Facilities Coordinator has been following up with federal facilities in PR and the USVI, and is periodically updating the RFAC as appropriate.

## PUERTO RICO

| Facility Type | Sites Identified | Pre-Storm Remote Assessment | Post Storm Remote Assessment | Post Storm Field Assessment | Follow-up Action Required |
|---|---|---|---|---|---|
| RMP | 56 | 56* | 0 | 0 | 0 |
| FRP | 22 | 22* | 0 | 0 | 0 |
| SPCC (non-FRP)[µ] | 232[#] | 232[#]* | 0 | 0 | 0 |
| Total | 310[#] | 310[#] | 0 | 0 | 0 |

## U.S. VIRGIN ISLANDS

| Facility Type | Sites Identified | Pre-Storm Assessment | Post Storm Assessment | Post Storm Field Assessment | Follow-up Action Required |
|---|---|---|---|---|---|
| RMP | 1 | 1* | 0 | 0 | 0 |
| FRP | 6 | 6* | 1 | 0 | 1 |
| SPCC (non-FRP)[µ] | 57[#] | 57[#]* | 0 | 0 | 3 |
| Total | 64[#] | 64[#] | 1 | 0 | 4 |

## EPA RESOURCES AS OF 9/26/2017

| Personnel | EPA Edison, NJ NYC San Juan, PR^ | FEMA NRCC, DC | Puerto Rico Deployments* | USVI Deployments* | Totals |
|---|---|---|---|---|---|
| EPA | 65 | 1 | 14 | 17 | 97 |

| | | | | | |
|---|---|---|---|---|---|
| **START/ RST** | 15 | 0 | 0 | 6 | 21 |
| **ERRS** | 6 | 0 | 0 | 2 | 8 |
| **Other Contractors** | 0 | 0 | 0 | 0 | 0 |
| **Totals** | 86 | 1 | 14 | 25 | 126 |

^Number includes personnel in the REOC, RICT, and CEPD personnel that are working the response.
*Number includes personnel working at coordination centers and EPA Regional offices.

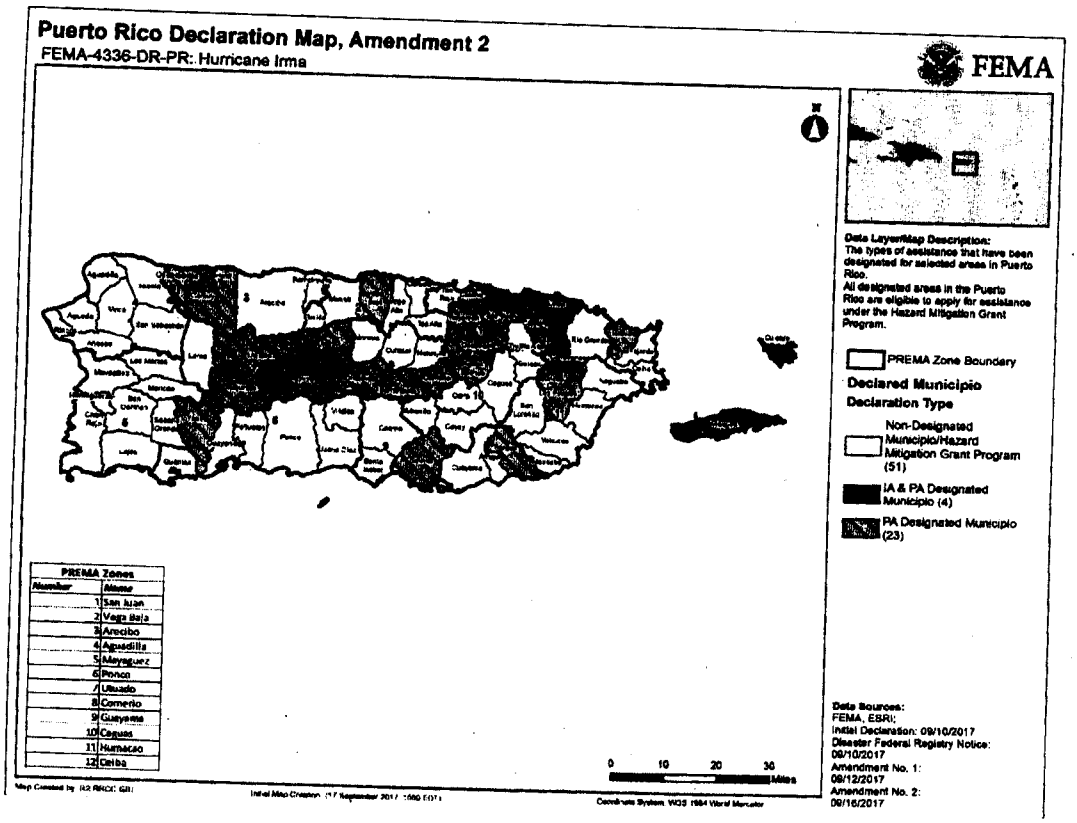
## DECLARATIONS FOR HURRICANE IRMA

**Puerto Rico.**

Emergency Declaration FEMA-3384-EM effective September 5. Assistance is for all 78 municipalities in the Commonwealth of PR. The Governor of Puerto Rico requested a disaster declaration 9/8.

Disaster Declaration FEMA-4336-DR effective September 9. Declared areas only include Culebra and Vieques. On 9/13 ten additional municipalities in Puerto Rico were added to the major declaration, and are now eligible for work under any DFA MA's that we receive. The municipalities are: Adjuntas, Canovanas, Carolina, Guaynabo, Juncos, Loiza, Luquillo, Orocovis, Patillas, and Utuado.

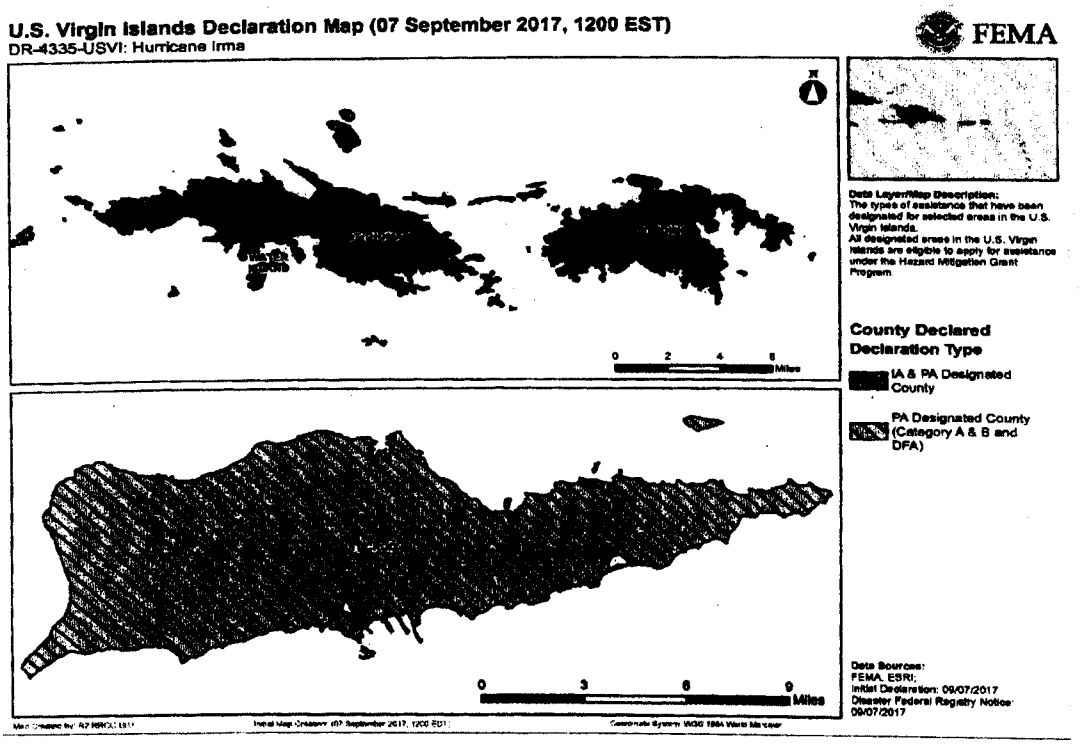
On 9/15, fifteen additional municipalities were added to the major declaration and are now eligible for Public Assistance. The municipalities are: Aguas Buenas, Barranquitas, Bayamón, Camuy, Cataño, Ciales, Comerío, Hatillo, Jayuya, Las Piedras, Quebradillas, Salinas, San Juan, Vega Baja, and Yauco.




**U.S. Virgin Islands.**

Disaster Declaration FEMA-4335-DR effective September 7, 2017. St. Thomas and St. John approved for Individual Assistance, all islands eligible for Public Assistance and the Hazard Mitigation Grant Program.

Emergency Declaration FEMA-3383-EM effective September 5. Assistance is for all islands in the Territory of the USVI.



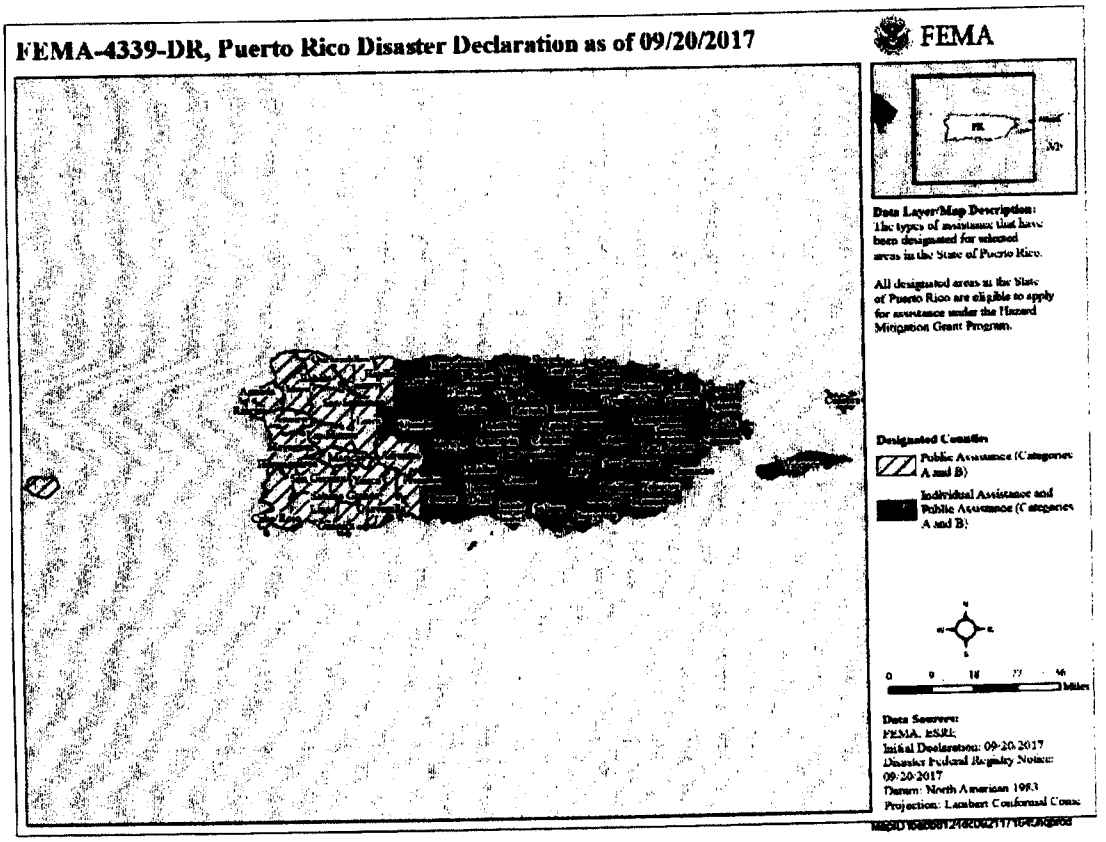

## DECLARATIONS FOR HURRICANE MARIA

**Puerto Rico.**

Emergency Declaration. The President has signed Emergency Declaration FEMA-3391-EM for Puerto Rico.

On 9/20, The President has signed a Disaster Declaration FEMA-4339-DR for Puerto Rico.

The White House initial statement covers 54 municipalities. The municipalities included in the disaster declaration are: Aguas Buenas, Aibonito, Arecibo, Arroyo, Barceloneta, Barranquitas, Bayamón, Caguas , Canóvanas, Carolina, Cataño, Cayey, Ceiba, Ciales, Cidra, Coamo, Comerio, Corozal, Culebra, Dorado, Fajardo, Florida, Guayama, Guaynabo, Gurabo, Humacao, Jayuya, Juana Díaz, Juncos, Las Piedras, Loíza, Luquillo, Manati, Maunabo, Morovis, Naguabo, Naranjito, Orocovis, Patillas, Ponce, Rio Grande, Salinas, San Juan, San Lorenzo, Santa Isabel, Toa Baja, Toa Alta, Trujillo Alto, Utuado, Vega Alta, Vega Baja, Vieques, Villalba, Yabucoa.




## U.S. Virgin Islands.

Emergency Declaration. The President has signed Emergency Declaration FEMA-3390-EM for the Territory of the U.S. Virgin Islands for Hurricane Maria.

On 9/20, The President has signed a Disaster Declaration FEMA-4340-DR for the Territory of the U.S. Virgin Islands for Hurricane Maria.

## FUNDING FOR IRMA AND MARIA

| Mission Assignment Number | Purpose | Start Date | End Date | Total Amount | Indirect Costs | Amt. Available | Daily Burn Rate | Used | Balance |
|---|---|---|---|---|---|---|---|---|---|
| 4335DR-VI-EPA-01 (X06) | EPA to FEMA R2 RRCC (Colts Neck, NJ) and FEMA NRCC (Washington, DC) | 09/07/17 | 10/07/17 | $100,000 | $10,466 | $89,534 | $1,500 | $39,260 | $50,274 |
| 4335DR-VI-EPA-06 (X12) | EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA & NRA Teams & other coord venues | 09/02/17 | 10/13/17 | $2,000,000 | $209,329 | $1,790,671 | $30,000 | $662,743 | $1,127,928 |
| 4335DR-VI-EPA-02 (X07) | Assess oil & hazmat releases, contaminated debris & other environmental events in VI | 09/07/17 | 09/30/17 | $508,000 | $53,170 | $454,830 | $35,000 | $667,736 | ($212,906) |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3384EM-PR-EPA-03 (X09) | Assess oil & hazmat releases, contaminated debris & other environmental events in PR | 09/09/17 | 09/30/17 | $508,000 | $53,170 | $454,830 | $12,000 | $209,218 | $245,612 |
| 4335DR-VI-EPA-04 (X11) | Removal, cleanup and disposal of oil & hazmat; collect and dispose of HHW; monitor immediate threats to public H&S and the environment in the VI | 09/13/17 | 10/13/17 | $10,000,000 | $1,046,646 | $8,953,354 | $0 | $0 | $8,953,354 |
| VI-17090102-EPA-01 (X03) | EPA to FEMA R2 RRCC (Colts Neck, NJ) | 09/02/17 | 09/11/17 | $10,000 | $1,046 | $8,954 | $0 | $8,954 | $0 |
| PR-17090102-EPA-01 (X05) | EPA to FEMA R2 RRC and other coordination venues as necessary | 09/01/17 | 09/11/17 | $20,000 | $2,093 | $17,907 | - | $17,907 | $0 |
| 3383EM-VI-EPA-01 (X08) | EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA & NRA Teams and other coordination venues | 09/07/17 | 09/16/17 | $75,000 | $7,850 | $67,150 | $0 | $68,400 | $0 |
| 3384EM-PR-EPA-01 (X04) | EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA and NRA Teams and other coordination venues | 09/06/17 | 09/16/17 | $75,000 | $7,850 | $67,150 | $12,000 | $64,800 | $2,350 |
| 4336DR-PR-EPA-01 (X10) | EPA to FEMA RRCC. Funding for EPA command centers is authorized. | 09/10/17 | 10/10/17 | $100,000 | $10,466 | $89,534 | $12,000 | $85,200 | $4,334 |
| | | | | | Grand Total | $11,993,914 | N/A | $1,824,218 | $10,170,946 |

## FUEL WAIVERS, ORDERS, AND NO ACTION ASSURANCE

- EPA approved a request from Puerto Rico for an emergency fuel waiver. To minimize or prevent disruptions with the supply of diesel fuel for mobile nonroad generators and pumps used for emergency purposes, the EPA waived the diesel requirements through October 15, 2017, allowing the sale, distribution, and use of heating oil and marine fuel designated for use in Emission Control Areas (ECA marine fuel) that exceed the 15 parts per million (ppm) sulfur standard if the fuel meets certain conditions. The waiver includes a warning that the use of diesel fuel exceeding the 15 ppm sulfur standard in any engine equipped with exhaust after treatment emission controls (e.g., diesel particulate filter) may cause serious damage to the engine and its emissions control components. The waiver authority was exercised under the Clean Air Act and was granted by EPA in coordination with DOE. As required by law, EPA and DOE evaluated the situation and determined that granting a short-term waiver was consistent with the public interest. EPA and DOE are continuing to actively monitor the fuel supply situation as a result of Hurricanes Irma and Maria, and will act expeditiously if extreme and unusual supply circumstances exist in other areas. To mitigate any impacts on air quality, the Clean Air Act provides strict criteria for when fuels waivers may be granted, and requires that waivers be limited as much as possible in terms of their geographic scope and duration.

- On 9/23 EPA announced that it will exercise enforcement discretion for mobile power

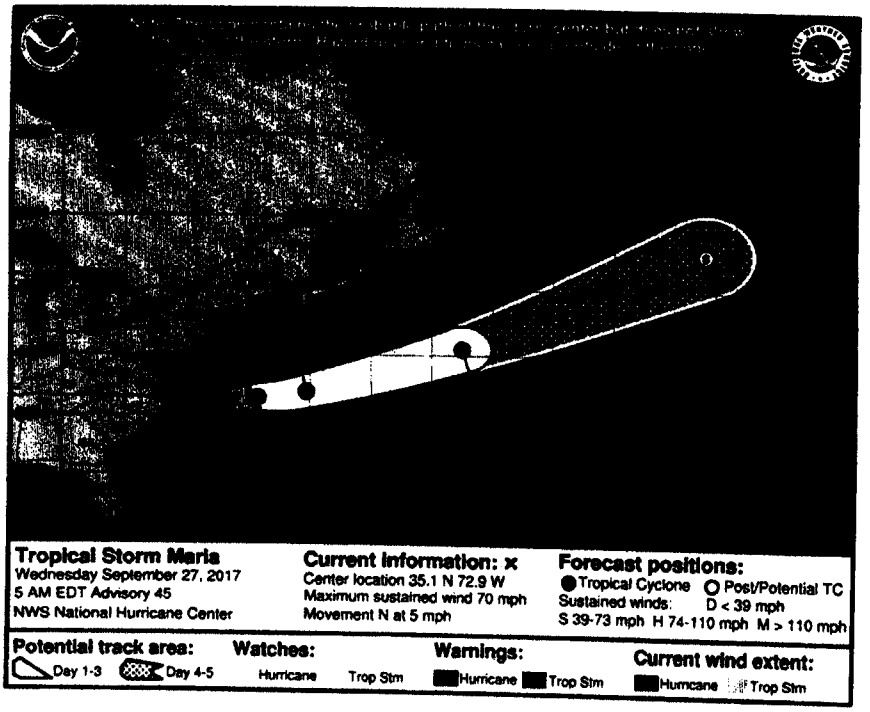
generators being imported into the United States that will be used as emergency sources of power in Puerto Rico as a result of Hurricane Maria. Under this "no action assurance," EPA will not pursue enforcement actions for certain violations of the Clean Air Act for mobile power generators being imported for use in Puerto Rico that have not been certified to meet U.S. pollution control standards. EPA's no action assurance was issued at the request of the Governor of Puerto Rico as preliminary information indicates extreme damage to Puerto Rico's power grid, including near-total destruction to power transmission. This no action assurance covers mobile power generators that are imported for use in Puerto Rico until January 31, 2018. EPA policy allows the Agency to issue no action assurances in cases where it is necessary to avoid extreme risks to public health and safety and where no other mechanism can adequately address the matter. EPA believes that the exercise of enforcement discretion in these circumstances is in the public interest and will help address the emergency circumstances in Puerto Rico.

- On 9/23 EPA issued an order to the Federal Emergency Management Authority (FEMA) and the Department of Defense (DOD) that provides direction on supplying of clean drinking water in the U.S. Virgin Islands in response to impacts to the island's drinking water system from Hurricane Maria and Hurricane Irma. The order authorizes FEMA and DOD to install and operate temporary water treatment units that will provide a supply of clean drinking water. U.S. Virgin Islands public water systems are currently not in operational condition. The lack of clean alternative water supplies has created the potential for significant public health impacts. USVI public water systems have been significantly impacted by Hurricanes Maria and Irma and subsequent flooding, including by a loss of electrical power, and are not yet fully able to provide adequately treated water to meet the needs of those affected areas. EPA is monitoring environmental and public health conditions across the U.S. Virgin Islands and Puerto Rico and is working closely with federal, territorial and local officials to ensure impacts from the hurricanes are addressed in order to protect public health. The expiration date of the order is 10/8/17.

## LONG RANGE PLANNING

- **National Disaster Recovery Framework (NDRF) Activities.** Refer to the recovery update in the above Executive Summary.

- **Hurricane Maria.** On 9/27 at 0500 hrs, the center of Tropical Storm Maria was located about 145 miles east of Cape Hatteras, North Carolina. Maria is moving toward the north near 5 mph. A turn toward the north-northeast is expected later today, followed by an acceleration toward the east-northeast on Thursday. On the forecast track, Maria's center will begin to turn slowly away from the coast of North Carolina later today and tonight. Maximum sustained winds are near 70 mph with higher gusts. Some gradual weakening is forecast during the next couple of days. Tropical-storm-force winds extend outward up to 230 miles from the center.

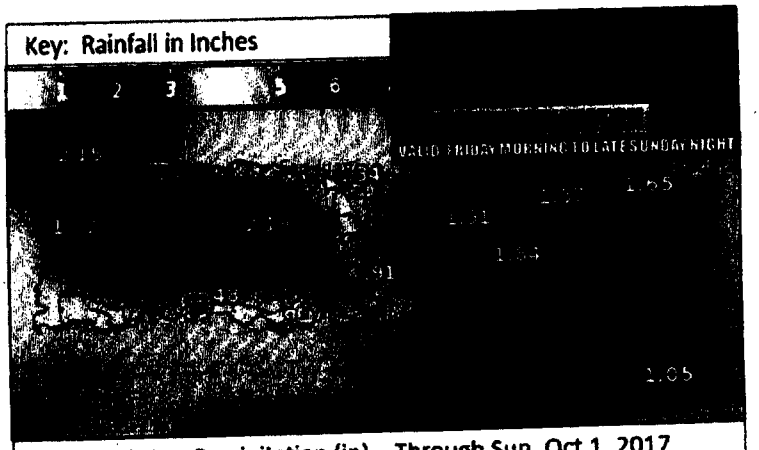



- **Additional Threats to U.S. Caribbean.**
  - No additional threats expected
- **Future Weather Outlook.**

# Senior Leadership Briefing and Recovery Snapshots
# Tropical Storm Maria and Post-Tropical Cyclones Irma and Harvey
**Friday, September 29, 2017 (5:00 a.m. EDT)**
**Updates in Blue**

## Current Situation:

Tropical Storm Maria will continue moving east and away from the U.S. East Coast, and the risk for rough surf, rip currents, and beach erosion will subside by late Friday. Deep tropical moisture is expected to bring numerous showers and thunderstorms to Puerto Rico and the U.S. Virgin Islands by this afternoon through Saturday night. The potential exists for cloud to ground lightning and heavy rainfall which may cause additional flash flooding especially for areas that remain saturated from recent heavy rainfall. Rainfall amounts of 2 to 4 inches will be possible. The threat for heavy rainfall also exists over southern Florida including the Florida Keys over the next few days which could also bring localized flash flooding. Moderate to major Tidal concerns will be an issue along the Southeast coast Sunday into Tuesday. *(NOAA Update. September 29, 2017, 5:00 a.m. EDT)*

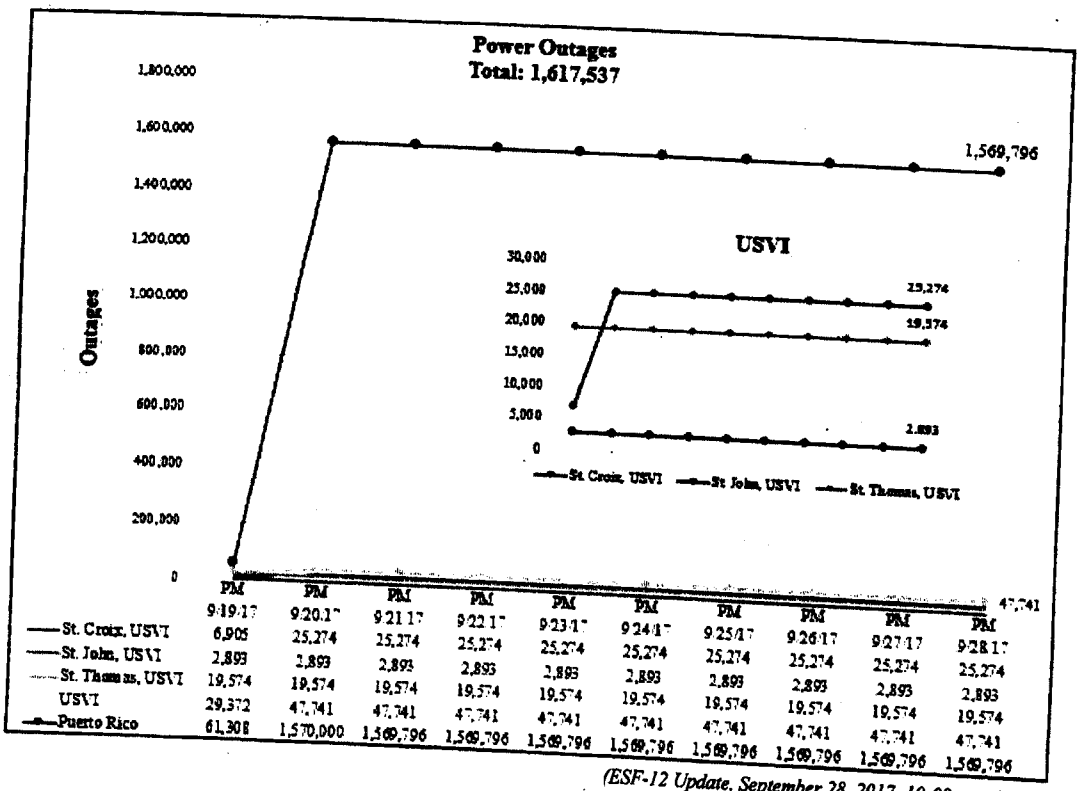


Total New Precipitation (in) – Through Sun, Oct 1, 2017
Issued Sept 28, 11:00 p.m. EDT

## Impact Summary:

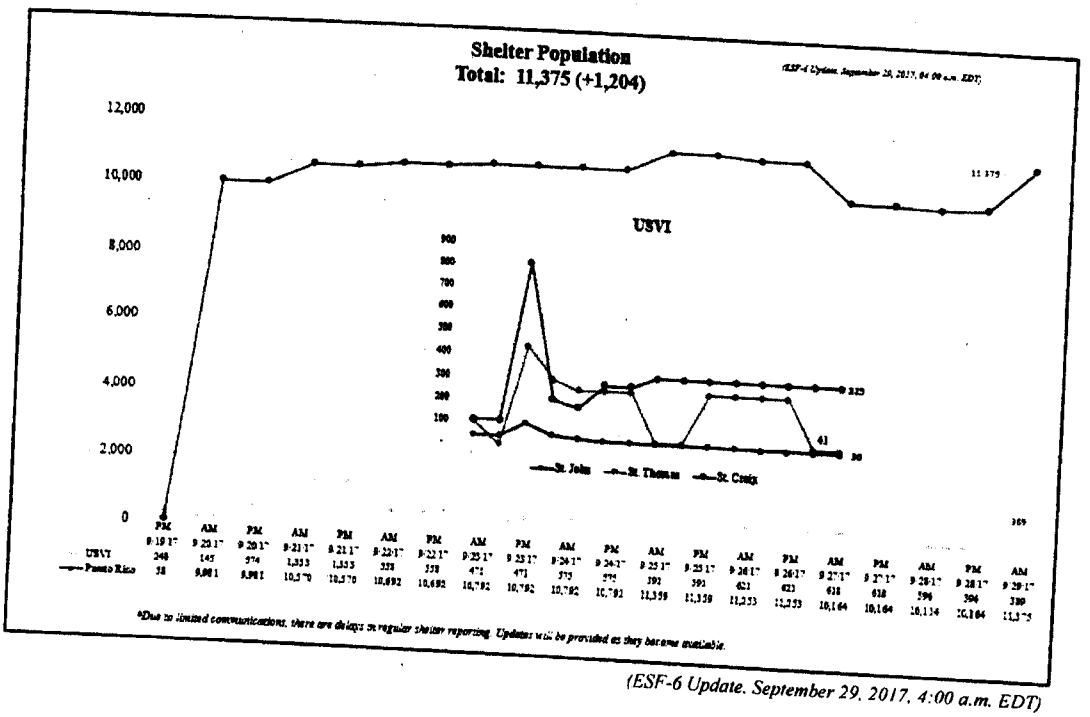
| Territory | Confirmed Fatalities | Shelter Population | Power Outages | Hospitals | Evacuations and Curfews | Other |
|---|---|---|---|---|---|---|
| | Population Impacts | | | | | |
| PR | PR Director of Public Safety confirmed 16 fatalities | Shelters: 162 (+2)<br>Pop: 11,375 (+1,261) | 4% of customers have electricity | 1 hospital fully operational; 56 partially operational; 5 closed; 7 unknown; 62 of 69 hospital assessments conducted | Curfew in effect 7:00 pm to 5:00 a.m. until further notice; health care workers, emergency officials, police, journalists, and citizens dealing with emergency situation exempt | 58 of 68 government buildings closed |
| USVI | Media reports one fatality | USVI Shelters: 7<br>Pop: 389 (-7)<br><br>St. John<br>Shelters: 2<br>Pop: 22 (-7)<br><br>St. Thomas<br>Shelters: 2<br>Pop: 41 (-223)<br><br>St. Croix<br>Shelters: 3<br>Pop: 325 | St. Thomas: 19,574 (99%)<br>St. John: 2,893 (100%)<br>St. Croix: 25,274 (90%) | St. Croix requested mobile medical facility equivalent to asset on St. Thomas (ASMC); DOD working to fulfill request | Curfew in effect 6:00 p.m. to 8:00 a.m. in St. Thomas, St. John, and Water Island<br><br>Curfew in effect 6:00 p.m. EDT to 11:00 a.m. EDT in St. Croix | Planning for public school reopening October 9<br><br>15 of 19 government buildings closed |
| *As of:* | *September 27 12:03 p.m. EDT* | *September 29 3:59 a.m. EDT* | *September 28 4:30 p.m. EDT* | *September 29 1:56 a.m. EDT* | *September 28 10:00 a.m. EDT* | *September 28 1:29 p.m. EDT* |

*(ESF-1, USCG, ESF-12, ESF-10, ESF-2 Updates)*




| | PM 9/19/17 | PM 9/20/17 | PM 9/21/17 | PM 9/22/17 | PM 9/23/17 | PM 9/24/17 | PM 9/25/17 | PM 9/26/17 | PM 9/27/17 | PM 9/28/17 |
|---|---|---|---|---|---|---|---|---|---|---|
| St. Croix, USVI | 6,905 | 25,274 | 25,274 | 25,274 | 25,274 | 25,274 | 25,274 | 25,274 | 25,274 | 25,274 |
| St. John, USVI | 2,893 | 2,893 | 2,893 | 2,893 | 2,893 | 2,893 | 2,893 | 2,893 | 2,893 | 2,893 |
| St. Thomas, USVI | 19,574 | 19,574 | 19,574 | 19,574 | 19,574 | 19,574 | 19,574 | 19,574 | 19,574 | 19,574 |
| USVI | 29,372 | 47,741 | 47,741 | 47,741 | 47,741 | 47,741 | 47,741 | 47,741 | 47,741 | 47,741 |
| Puerto Rico | 61,308 | 1,570,000 | 1,569,796 | 1,569,796 | 1,569,796 | 1,569,796 | 1,569,796 | 1,569,796 | 1,569,796 | 1,569,796 |

*(ESF-12 Update, September 28, 2017, 10:00 a.m. EDT)*




| | PM 9/19/17 | AM 9/20/17 | PM 9/20/17 | AM 9/21/17 | PM 9/21/17 | AM 9/22/17 | PM 9/22/17 | AM 9/23/17 | PM 9/23/17 | AM 9/24/17 | PM 9/24/17 | AM 9/25/17 | PM 9/25/17 | AM 9/26/17 | PM 9/26/17 | AM 9/27/17 | PM 9/27/17 | AM 9/28/17 | PM 9/28/17 | AM 9/29/17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| USVI | 240 | 145 | 574 | 1,353 | 1,353 | 558 | 558 | 472 | 472 | 575 | 575 | 191 | 391 | 621 | 621 | 618 | 618 | 596 | 596 | 380 |
| Puerto Rico | 58 | 8,981 | 8,981 | 10,570 | 10,570 | 10,692 | 10,692 | 10,792 | 10,792 | 10,792 | 10,792 | 11,359 | 11,359 | 11,253 | 11,253 | 10,164 | 10,164 | 10,134 | 10,164 | 11,375 |

*(ESF-6 Update, September 29, 2017, 4:00 a.m. EDT)*

| Territory | Infrastructure Impacts | | | | | |
|---|---|---|---|---|---|---|
| PR | 11 airports open with restrictions; one closed | Open: San Juan, Guayanilla, Salinas, Tallaboa<br><br>Open with restrictions: Arecibo, Fajardo, Vieques, Culebra, Guayama, Mayaguez<br><br>All other ports closed | 11 major roads open; 11 main roads remain closed<br><br>1,925 incidents reported for public roads (landslides, waterway issues, blockages, bridges, etc.) | Petroleum Terminals and Liquefied Natural Gas (LNG) Terminals closed; 10 fuel tankers will arrive over next 15 days | Of the 52 waste water treatment plants, 9 operational, 19 non-operational, 24 have unknown operational status | 6% of island with cell service: cell service around SJU airport restored<br><br>Public Safety Answer Points (PSAPs)/911 centers operational, but many continue to have generator/fuel issues |
| USVI | St. Thomas: Limited commercial aircraft<br><br>St. Croix: Open with restrictions | St. Thomas<br>Open: Charlotte Amalie, East Gregerie Channel, West Gregerie Channel (Crown Bay)<br>Open with restrictions: Red Hook Bay<br><br>St. John:<br>Open with restrictions: Cruz Bay<br><br>St. Croix:<br>Open: Krause Lagoon, Limetree Bay, Frederiksted<br><br>All other ports closed | Numerous routes partially closed on St. Thomas, St. John, and St. Croix, with single lane alternating traffic due to debris<br><br>Reports of sinkholes beginning to open on St. Croix | St. Croix reports adequate fuel supply on island for power generation and response efforts, including gasoline, diesel, and propane<br><br>Challenges with distribution due to power outages, debris, and damage | Boil Water Advisory for potable water issued territory-wide | 34% cell phone coverage in USVI; PSAPs non-operational |
| *As of:* | *September 29 3:48 a.m. EDT* | *September 29 3:48 a.m. EDT* | *September 29 3:48 a.m. EDT* | *September 29 3:48 a.m. EDT* | *September 29 3:48 a.m. EDT* | *September 29 3:48 a.m. EDT* |

*(ESF-1, USCG, ESF-12, ESF-10, ESF-2 Updates)*

## Declaration Activity:

| Territory | Declaration | Declared Counties | | |
|---|---|---|---|---|
| | | Individual Assistance | Public Assistance | Cost Share |
| PR | 9/20: *DR-4339* | 54 municipalities | All | 100% for debris removal and emergency protective measures for 180 days from declaration date |
| | 9/10: *DR-4336* | 4 municipalities | 27 municipalities | 75% |
| USVI | 9/20: *DR-4340* | St. Croix, St. John, St. Thomas | All | 75% |
| | 9/7: *DR-4335* | St. Thomas, St. John | All (Categories A-G) | 100% for debris removal and emergency protective measures for 180 days from declaration date |

*(FEMA Declarations Unit, September 27, 2017, 12:00 p.m. EDT)*

## Force Laydown:

| Department/Agency | Puerto Rico | U.S. Virgin Islands | | | Totals |
|---|---|---|---|---|---|
| | | St. Croix | St. John | St. Thomas | |
| American Red Cross (ESF 6) | 166 | 56 | 3 | 34 | 259 |
| Army Corps of Engineers (ESF 3) | 162 | 59 | 3 | 60 | 284 |
| Civil Air Patrol (ESF 5) | 32 | * | * | * | 32 |
| Customs and Border Protection (ESF 5, 9 & 13) | 44 | 5 | 0 | 5 | 54 |
| Department of Agriculture (ESF 11) | 1 | 0 | 0 | 0 | 1 |
| Department of Defense Title 10* | 2,942 | * | * | * | 2,942 |
| Department of Energy (ESF 12) | 2 | 2 | 0 | 9 | 13 |
| Department of the Interior | 225 | 20 | 41 | 0 | 286 |
| Department of Transportation (ESF 1) | 2 | 3 | 0 | 23 | 28 |
| DHS - NPPD | 18 | 5 | 0 | 2 | 25 |
| Environmental Protection Agency (ESF 10) | 14 | 17 | * | * | 31 |
| Federal Law Enforcement (ESF 13) | 239 | * | * | * | 239 |
| FEMA Deployed | 493 | 193 | 4 | 37 | 727 |
| FEMA Urban Search & Rescue (ESF 9) | 183 | 0 | 0 | 0 | 183 |
| Forest Service (ESF 4) | 219 | 20 | 0 | 27 | 266 |
| General Services Administration (ESF 7) | 6 | 0 | 0 | 0 | 6 |
| Health and Human Services (ESF 8) | 493 | 25 | 8 | 8 | 534 |
| National Guard Bureau* | 2,257 | 768 | * | * | 3,025 |
| National Weather Service - NOAA | 30 | 0 | 0 | 0 | 30 |
| Small Business Administration (ESF 6) | 11 | 2 | 0 | 2 | 15 |
| Transportation Security Administration (ESF 1) | 72 | 8 | 0 | 5 | 85 |
| United States Coast Guard (ESF 1, 5, 7, 9, 10, 13 & 15)* | 1,260 | * | * | * | 1,260 |
| **TOTALS** | **8,871** | **1,183** | **59** | **212** | **10,325** |

* Notes: Civil Air Patrol flights supporting all USVI; DOD personnel numbers include 2,360 personnel at sea and 192 personnel supporting USVI; EPA offices supporting multiple islands; NGB and DOD will report USVI breakdown in next 24-48 hours; USCG has 1,260 personnel deployed throughout USVI in support of Maria

*(Situational Awareness Info Analysis, September 29, 2017, 4:30 a.m. EDT)*

## FEMA Headquarters:

- National Response Coordination Center (NRCC) at Level I (Full Activation) with 24/7 operations
- National Incident Management Assistance Team (IMAT) East-2 at the San Juan Convention Center
- Crisis Action Planning teams for Responder Lodging, Liquid Fuels, and Power Restoration operating 24/7 *(NRCC Update, September 27, 2017, 8:30 a.m. EDT)*
- **Recovery**
  - Strategic Workforce Augmentation Team taking calls at three National Processing Service Centers, FEMA pop-up call centers, Headquarters, all FEMA Regions, and from home; 5,461 (-64) call center agents available to receive calls *(Recovery Contact Center Surge Staffing Timeline, September 28, 2017, 12:43 p.m. EDT)*
  - Total Individuals and Households Program Registrations for PR: 22,355 (+547) and USVI: 7,053 (+3,854) *(Open Disaster IA Summary, September 28, 2017, 7:02 p.m. EDT)*
- **Mutual Aid**

| Region | Jurisdiction | # of Request(s) | # of States Supporting |
|---|---|---|---|
| II | PR | 53 (+3) | 7 (+2) |
| II | USVI | 29 (+1) | 12 (0) |

*(EMAC Sit Rep #72, September 28, 2017, 8:00 p.m. EDT)*

## FEMA Region II:

- Region II RRCC not activated; some RRCC staff supporting NRCC operations
- FEMA Region III IMAT deploying to St. Croix, USVI by October 2; Region X IMAT deploying to USVI from PR *(Operations Order, September 28, 2017, 6:42 p.m. EDT; FOD Update, September 29, 2017, 3:00 a.m. EDT)*
- **Puerto Rico:**
  - EOC at Full Activation with limited operations and on generator power; PR Initial Operating Facility (IOF) established at Convention Center in San Juan
  - Federal Coordinating Officer (FCO) is Alejandro De La Campa *(RII DSAR, September 27, 2017, 3:00 p.m. EDT)*
- **U.S. Virgin Islands:**
  - EOCs on each island at Full Activation *(RII DSAR, September 27, 2017, 3:00 p.m. EDT)*
    - USVI IOF located at St. Thomas EOC

- St. Croix EOC on generator power, internet connectivity limited
- FCO is William Vogel *(RII DSAR, September 27, 2017, 3:00 p.m. EDT)*

## Interagency Coordination for Puerto Rico:

- ***ESF-1: Transportation***
  - Airports:
    - San Juan International Airport (SJU) operating limited domestic flights; various systems have been brought back online (surveillance, air-ground communications, etc.) increasing Instrument Flight Rules (IFR) output from 3 flights per hour early this week to 28 IFR flights per hour September 27*(ESF-1 Update, September 26 2017, 6:36 p.m. EDT)*
    - Replacement generator for San Juan Combined Center/Radar Approach Control arrived early morning September 29 *(ESF-1 Update, September 29 2017, 5:23 a.m. EDT)*
  - Roads:
    - Federal Highway Administration (FHWA) made $40 million available to the PR Highways and Transportation Authority (PHRTA) for emergency relief work to impacted roads; PHRTA estimating state road damage of $240 million *(ESF-1 Update, September 28, 2017, 8:23 p.m. EDT)*
    - Puerto Rico Department of Transportation (DTOP) reporting 58 debris removal contracts in place; approximately 13 debris crews active
    - Roads do not have working traffic signals due to power outages; DTOP submitted EMAC request to Puerto Rico Emergency Management Agency (PREMA) for traffic signal engineers, with requested October 18 delivery date *(ESF-1 Update, September 28, 2017, 8:42 a.m. EDT)*
  - Transit:
    - Rail: Tren Urbano rail service remains suspended pending debris removal and PR Highways and Transportation Authority (PRHTA) inspections of tracks and station terminals
    - Bus: First Transit buses providing survivor transportation between shelters and transporting emergency responders from airport to work sites; Autoridad Metropolitana de Autobuses bus service remains suspended
  - Ferry: Autoridad de Transporte Maritimo ferry transporting emergency supplies to Vieques and Culebra, and providing limited service during daylight hours *(ESF-1 Update, September 28, 2017, 1:00 p.m. EDT)*
  - Ports:
    - Empire State to transport up to 250 first responders and National Guardsmen from Key West to PR., scheduled to arrive in San Juan October 1 *(ESF-1 Update, September 29, 2017, 12:30 a.m. EDT)*
    - Passenger/Cargo Ship La Suprema en route to PR to provide berthing for up to 2,200 responders; USCG marine inspectors meeting vessel in Canary Islands to perform inspection *(ESF-1 Update, September 29, 2017, 12:30 a.m. EDT)*
    - NOAA vessel Thomas Jefferson scheduled to survey Port of Ponce September 29 and Roosevelt Roads on September 30
    - Port of Yabucoa expected to re-open September 29, pending repairs *(USCG Update, September 28, 2017, 12:41 p.m. EDT)*
- ***ESF-2: Communications***
  - Puerto Rico Telecommunications Regulatory Board reporting 96 (6%) of 1,619 cell phone towers operational *(PR Situation Report-6, September 28, 2017, 9:54 p.m. EDT)*
  - Satellite Phones: Globalstar satellite telecom facility in PR no longer operational due to lack of fuel for generator; signals rolled over to Venezuela but this could impact service; ESF-2 working with PR fuel distributor to address fuel shortfall
  - Public Service Answering Points (PSAP) Status: Back-up site answering all 911 calls; primary PSAP site closed after breakdown due to mechanical failure *(ESF-2 Update, September 28, 2017, 10:29 p.m. EDT)*
  - All MERS assets deployed to PR (over 30 personnel with large scale communications vehicles and radio, satellite, and IP network based capabilities) on site and supporting US&R, National Disaster Medical System, and FEMA IMAT teams *(ESF-2 Update, September 28, 2017, 1:29 p.m. EDT)*

- ***ESF-3: Public Works and Engineering***
  - Temporary Power:
    - Completed 52 of 64 requested pre-installation inspections; three generators installed and two additional generator installations in progress; 55 of 179 requested generators available on hand in PR
    - Six step-up Defense Logistics Agency (DLA) transformers arrived September 28
  - Dams: USACE personnel completed damage assessment at Guajataca Dam and working with FEMA, Puerto Rico Electric Power Authority (PREPA), and civilian engineers to develop repair plan; sandbags will not arrive prior to rainfall on September 29; engineers are continually evaluating the situation *(ESF-3 Update, September 29, 2017, 1:22 a.m. EDT)*
  - Debris:
    - Completed debris removal on Roads 191, 605 and 14 on September 28
    - Beginning route reconnaissance September 30 for Roads 167, 178, 740 and 156 *(ESF-3 Update, September 29, 2017, 1:22 a.m. EDT)*
    - Engaged with Environmental Quality Board to obtain waivers for temporary disposal sites; coordinating multiple environmental issues *(ESF-3 Update, September 28, 2017, 10:54 a.m. EDT)*
  - Temporary Roofing:
    - Current estimates: 30,000 roofs damaged
    - Collected 68 (+21) Right of Entry (ROE) Agreements *(ESF-3 Update, September 29, 2017, 1:22 a.m. EDT)*
    - Completed roofing assessments for FBI Communications Facility and San Juan Federal Courthouse
    - USACE issued task order to temporary roofing contractor; will begin roofing once 25,000 rolls of blue sheeting arrive 29 September *(ESF-3 Update, September 28, 2017, 10:54 a.m. EDT)*
- ***ESF-4: Firefighting***
  - Twenty-six chainsaw teams (52 personnel) and one Type-2 Incident Management Team (IMT) (26 personnel) conducting emergency road clearing and logistics management in PR
  - One Type 2 IMT (85 personnel) providing command, control, and coordination of resources as well as firefighting capability assessment in San Juan
  - One Type-1 IMT (49 individuals) staged in San Juan to support receiving and distribution of commodities at Aguadilla *(ESF-4 Update, September 28, 2017, 10:23 p.m. EDT)*
- ***ESF-5: Information and Planning***
  - Fourth Civil Air Patrol (CAP) aircraft will be available September 30
  - CAP completed four imagery sorties September 28 to survey potential field hospital locations and complete infrastructure and housing damage assessments; 14,000 images uploaded to date *(CAP Update, September 28, 2017, 1:00 p.m. EDT)*
- ***ESF-6: Mass Care, Emergency Assistance, Housing, and Human Services***
  - American Red Cross working with ESF-13 to manage site security at distribution points, routes, and warehouses *(ESF-6 Update, September 28, 2017, 1:22 p.m. EDT)*
  - Feeding Taskforce coordinating efforts to provide 6M meals/day for 30 days; distribution continues to be a priority *(ESF-6 Update, September 28, 2017, 2:31 p.m. EDT)*
  - 302 (+79) registrations received on the American Red Cross' Safe and Well reunification website *(ESF-6 Update, September 29, 2017, 1:05 a.m. EDT)*
  - Shelters:
    - PR Department of Health (DOH) addressing critical potable water shortage in shelters
    - 250 Infant and toddler kits staged; additional 500 kits approved on September 28 *(ESF-6 Update, September 29, 2017, 1:05 a.m. EDT)*
  - Voluntary Organizations:
    - Feeding operations dropped to seven fixed sites due to lack of commodities; trying to secure food, water and fuel from local sources and FEMA
    - Coordinating with voluntary agencies seeking billeting at FEMA facilities; received five requests for support
  - Donations Management: Continuing to field donations requests and refer offers to National Voluntary Organizations Active in Disaster (NVOAD) website; facilitating movement of donations from FL to PR/USVI *(ESF-6 Update, September 28, 2017, 2:31 p.m. EDT)*

- ***ESF-7: Logistics Management and Resource Support***
  - FEMA commodities delivered to PR to date: 1.3M meals, 2.7M liters of water, 5,000 tarps, 30 generators, and 22,202 cots *(ESF-7 Update, September 28, 2017 7:30 p.m. EDT)*
  - Municipalities picking up requested items at Regional Staging Areas (RSAs) (10 of 12 open) instead of Points of Distribution (PODs); if they cannot pick up in-person, delivered to municipality *(ESF-7 Update, September 28, 2017, 1:30 p.m. EDT)*
  - Five barges scheduled to arrive in PR between September 29 and October 5; commodities include 2.5M liters of water, 3M meals, two generators, and 11,500 sheeting
  - Scheduled flights delivered 87,400 liters of water, 55,000 meals, Department of Health and Human Services (HHS) dialysis medical equipment, a USCG mobile medical unit, 126 satellite phones, and Federal personnel on September 28 *(ESF-7 Update, September 29, 2017 2:29 a.m. EDT)*
  - FEMA coordinating with local officials to establish Business Operations Center to assist with private sector response and recovery *(ESF-15 Update, September 28, 2017, 1:30 p.m. EDT)*.
  - Responder Lodging

| Name/Vessel | Status | Destination Port | Arrival Date | Beds Capacity | Beds Occupied | Beds Open |
|---|---|---|---|---|---|---|
| PR Convention Center | Operational | PR: San Juan | Arrived | 550 | 350 | 200 |
| TS Kennedy | Operational | PR: San Juan | Arrived | 600 | 400 | 200 |
| TS Empire State | En route | PR | 10/1 | 600 | | |
| La Suprema | En route | PR | 10/3 | 2,200 | | |
| Adriana | En route | PR | 10/6 - 10/9 | 302 | | |
| Rhapsody | En route | PR | 10/10 - 10/12 | 2,044 | | |
| JMC 3330 | Secured | PR | 10/19 | 430 | 0 | 430 |
| | | | **PR TOTAL:** | **6,726** | **750** | **400** |

*(ESF-7 Update, September 28, 2017, 4:35 p.m. EDT)*

- ***ESF-8: Public Health and Medical Services***
  - One Incident Response Coordination Team, eight Health and Medical Task Forces, one Service Access Team, one Disaster Mortuary Operational Response Team (DMORT) Assessment Team, and two Joint Patient Assessment Tracking Teams in San Juan; 238 additional HHS personnel arrived in PR from Atlanta September 28 *(ESF-8 Update, September 29, 2017, 1:56 a.m. EDT)*
  - Working group assessing needs of 6,000 dialysis patients *(ESF-8 Update, September 28, 2017, 1:31 p.m. EDT)*
  - HHS will deploy five 250-bed Federal Medical Stations and two Disaster Medical Assistance Team (DMAT) caches by September 29 *(ESF-8 Update, September 28, 2017, 1:31 p.m. EDT)*
  - Hospitals:
    - Centro Medico will serve as central designated medical facility; created seven regional hubs for medical support
    - Veteran Affairs reported one medical center and three outpatient centers open; supporting 80,000 veterans in PR and USVI
  - Dialysis Centers: 44 of 48 dialysis centers open, many operating at less than normal capacity; fuel and water supplies must be resupplied every two days *(ESF-8 Update, September 29, 2017, 1:56 a.m. EDT)*
- ***ESF-9: Search and Rescue***
  - Two FEMA Urban Search and Rescue (US&R) task forces active in Puerto Rico; all other task forces begun demobilization *(ESF-9 Update, September 29, 2017, 1:45 p.m. EDT)*
  - FEMA US&R teams visited all 78 PR municipalities *(ESF-9 Email Update, September 28, 2017, 11:11 p.m. EDT)*
  - FEMA US&R saved or assisted 843 individuals in PR and USVI *(ESF-9 Update, September 28, 2017, 12:15 a.m. EDT)*
  - FEMA US&R teams searched 2,647 structures total across PR and St. Croix; 154 damaged, 163 failed, 123 destroyed *(ESF-9 Update, September 27, 2017, 11:30 p.m. EDT)*
  - USCG SAR communications towers in southern PR improved from inoperable to intermittent; towers in eastern PR remain inoperable; enhanced mobile incident command post scheduled to depart Jacksonville September 29 and arrive in San Juan October 6 *(USCG Update, September 28, 2017, 12:51 p.m. EDT)*
- ***ESF-10: Oil and Hazardous Material Response***
  - Sampled and tested 17 public water systems and eight tested positive for e. coli; system proprietors disinfected systems and expect re-sample results September 30 *(ESF-10, September 28, 2017, 1:56 p.m. EDT)*

- Fifteen USCG National Strike Force (NSF) arrived in PR September 28; conduct post-storm assessments and recovery operations *(USCG Update, September 29, 12:09 a.m. EDT)*
- Port assessments identified approximately 100-150 vessel targets; USCG NSF Strike Teams working to identify and notify vessel owners *(USCG Update, September 28, 1:20 p.m. EDT)*

- ***ESF-11: Agriculture and Natural Resources***
  - Animal subject matter expert conducting assessments on PR *(ESF-11 Update, September 28, 2017, 11:55 a.m. EDT)*
- ***ESF-12: Energy***
  - DHS waived the Jones Act shipping restrictions for a 10-day period starting September 28
  - New York Power Authority crews conducting assessments and limited restoration work
  - Approximately 90% of Puerto Rico Emergency Management Agency transmission systems damaged *(ESF-12 Update, September 28, 2017, 2:06 p.m. EDT)*
  - Fuel:
    - Defense Logistics Agency (DLA) transporting initial shipment of 100 trucks and 275,000 gallons of diesel; 75,000 gallons gasoline will arrive in San Juan October 2
    - DLA transporting 15,000 gallons of propane and 90 fuel trucks to PR, estimated to arrive October 1 *(ESF-12 Update, September 28, 2017, 2:41 p.m. EDT)*
- ***ESF-13: Public Safety and Security***
  - ESF-9 no longer requiring force protection; personnel reassigned to assist Puerto Rico Police Department September 29 *(Incident Status Summary #6, September 28, 2017, 8:00 p.m. EDT)*
  - Five additional Quick Response Teams (QRTs) with 136 Federal Law Enforcement Officers (FLEOs) en route to San Juan *(ESF-13 Update, September 28, 2017, 5:18 p.m. EDT)*
  - QRTs providing force protection for ESF-8 teams and providing security at FEMA fuel station at San Juan convention center
- ***ESF-15: External Affairs***
  - National Business Emergency Operations Center (NBEOC) coordinating with FAA to provide guidance to private sector regarding relief flights for staff members in PR
  - U.S. Chamber of Commerce hosted conference call September 28th focusing on response needs in PR *(ESF-15 Update, September 28, 2017, 10:56 p.m. EDT)*
  - Two Civil Authority Civil Support (CAIS) teams conducting assessments and broadcasting approved public service announcements in central and northwestern PR *(Incident Status Report #6, September 29, 2017, 8:00 p.m. EDT)*
- ***U.S Department of Defense (DOD)***
  - U.S. Northern Command (USNORTHCOM):
    - U.S. Marine Corps Engineers cleared 3 miles of roads September 28; route to both FAA towers at Roosevelt Roads now open to ground traffic
    - USNORTHCOM deploying a Role 3 medical capability and substantial additional medical support; Role 3 medical capability includes a self-sufficient deployable medical/surgical treatment facility providing trauma, emergency and routine medical care, including inpatient care with 50 inpatient beds for up to 10 days
    - C-5 arrived September 29 with generator to enhance air traffic control capability and increase air traffic capacity
    - One C-17 arrived September 28 in PR with the U.S. Coast Guard Mobile Medical Unit to provide fast response emergency medical support
    - Medical ship USNS COMFORT will depart Norfolk, VA September 29; and expected to arrive middle of next week
    - Canadian CC-177 arrived September 28 with U.S. Civil Affairs Information Support Element to support critical public information efforts *(DOD Update, September 29, 2017, 1:01 a.m.)*
  - Defense Logistics Agency (DLA):
    - Will complete delivery of 63 leased generators October 1 and deliver 100 fuel trucks (275K gallons diesel/75K gasoline) October 2
    - Mission Assignment approved to provide ~2.5M commercial meals per day for 30 days starting October 7 and 600K Meals Ready to Eat (MREs) per day for 20 days starting September 30 *(DOD Update, September 29, 2017, 1:01 a.m.)*

- ***National Guard Bureau (NGB)***
  - Route clearance operations ongoing
  - Planning two air bridges that will transport meals to San Juan; 12 National Guard Armories throughout PR will serve as Points of Distribution (PODs) *(NGB Update, September 27, 1:00 p.m. EDT)*
- ***U.S. Coast Guard (USCG)***
  - Enhanced mobile incident command post scheduled to depart Jacksonville, FL September 29 for San Juan, arrival October 6
  - Army National Guard planning to load 10,000 lbs. of food and water onto Coast Guard Cutter Elm for transport to Vieques for humanitarian relief
  - Four Mobile Support unit tents set up at Air Station Borinquen to support operations *(USCG Update, September 29, 2017, 1:16 a.m. EDT)*
  - USCG Mobile Medical Unit arrived in Borinquen September 28 *(USCG Update, September 29, 2017, 1:16 a.m. EDT)*
  - USCG cutter Cypress completed assessment and repair of critical Aids to Navigation (A to N) in Roosevelt Roads and Vieques September 27 serviced Fajardo and Culebra A to N September 28 *(USCG Update, September 28, 12:30 p.m. EDT)*
- ***U.S. Customs and Border Protection (CBP)***
  - CBP Air-Marines completed a total of 51 (+10) flight missions delivering water, meals-ready-to-eat, Satellite Kit, and other supplies; flights returning to CONUS will transport American citizens in need of evacuation *(CBP Update, September 28, 2017, 2:15 p.m. EDT)*
- ***U.S. Department of the Interior (DOI)***
  - U.S. Fish and Wildlife Service (FWS)
    - Office of Law Enforcement team (six personnel) airlifted supplies to staff, assessed how to distribute food and supplies to rural locations, and is working with CBP to evacuate eight family members from Vieques
    - IMT stabilizing employee housing and assisting local community with USCG in Vieques, removing debris to gain access in the Rio Grande area near the Puerto Rican Parrot Aviary facility
    - Three fixed-wing aircraft departing from FL to PR between September 29-October 1 to provide infrastructure support for damaged facilities; helicopter should be available for deployment next week
  - National Park Service (NPS) vessel Fort Jefferson transporting DOI supplies to Port of San Juan, expected to arrive September 28
    - Vessel Fort Jefferson transporting DOI supplies to Port of San Juan arrived September 28th
    - Eastern IMT preparing to deploy to San Juan, PR, to coordinate resource deployment
  - United States Geological Survey prioritizing gage repairs, beginning with those around dams; evaluating repair based on availability of fuel; six gages arrived on September 28th for immediate deployment *(DOI Update, September 29, 2017, 1:04 a.m. EDT)*

## Interagency Coordination for U.S. Virgin Islands:

- ***ESF-1: Transportation***
  - Airports:
    - Mobile Air Traffic Control Tower operational under Visual Flight Rules (VFR) at Cyril E. King Airport (STT)
    - Limited commercial air operations into St. Thomas began September 28; inter-island commercial flights scheduled to resume October 1 *(USVI SitRep, September 28, 2017, 9:54 p.m. EDT)*
    - St. Croix airport (STX) scheduled to receive commercial flights October 5 *(ESF-1 Update, September 28, 2017, 8:23 p.m. EDT)*
  - Transit: All regular transit services suspended *(ESF-1 Update, September 28, 2017, 1:00 p.m. EDT)*
- ***ESF-2: Communications***
  - Public Service Answering Points (PSAP) Status:
    - St. Croix 911 Call Center completely down due to significant damage to building, estimated time to repair unknown; 911 calls rerouted to St. Thomas center *(VI Situation Report-13/06, September 28, 2017, 9:54 p.m. EDT)*

- St. Thomas 911 Call Center able to receive calls but unable to retrieve location information due to technical issues, estimated time to repair unknown *(ESF-2 Update, September 28, 2017, 10:29 p.m. EDT)*
  - All MERS assets deployed to USVI (over 20 personnel across all three islands with large scale communications vehicles and radio, satellite, and IP network based capabilities) on site and supporting US&R, National Disaster Medical System, and FEMA IMAT teams *(ESF-2 Update, September 28, 2017, 1:29 p.m. EDT)*

- ***ESF-3: Public Works and Engineering***
  - Temporary Power:
    - Completed 112 (+2) of 138 requested pre-installation inspections; installed 15 generators and three more are in progress
    - 48 (+10) generators available on hand, 78 more requested *(ESF-3 Update, September 29, 2017, 1:22 a.m. EDT)*
  - Debris
    - St. Thomas: USACE estimates debris volume at 355,000 cubic yards; debris removal operations to begin October 1
    - St. Croix: USACE estimates debris volume at 750,000 cubic yards *(ESF-3 Update, September 26, 2017, 11:08 a.m. EDT)*
    - St. John: USACE estimates debris volume at 33,000 cubic yards; debris removal operations to begin October 8
  - Temporary Roofing
    - Current blue roof estimates: St. Croix: 5,000, St. Thomas: 7,000, and St. John: 1,000
    - Assessed 26, collected 435 Right of Entry (ROE) Agreements, and installed eight roofs *(ESF-3 Update, September 28, 2017, 1:44 p.m. EDT)*
- ***ESF-4: Firefighting***
  - Type 2 IMT assigned to commodity distribution in St. Croix (20 personnel) and in St. Thomas (26 personnel); startup of logistical staging area planned for September 29th *(ESF-4 Update, September 28, 2017, 10:23 p.m. EDT)*
- ***ESF-6: Mass Care, Emergency Assistance, Housing, and Human Services***
  - American Red Cross continues to work with ESF-13 to manage site security at distribution points, routes, and warehouses *(ESF-6 Update, September 28, 2017, 1:22 p.m. EDT)*
  - American Red Cross distributed 10,281 bulk items including clean up kits, comfort kits, tarps and cases of water; served 26,844 meals and 7,240 snacks to date *(ESF-6 Update, September 29, 2017, 1:05 a.m. EDT)*
  - Donations Management: Continuing to field donations requests and refer offers to National Voluntary Organizations Active in Disaster (NVOAD) website; facilitating movement of donations from FL to PR/USVI *(ESF-6 Update, September 28, 2017, 2:31 p.m. EDT)*
- ***ESF-7: Logistics Management and Resource Support***
  - Fifteen (-2) GSA owned and leased properties in USVI closed *(GSA Update, September 28, 2017, 1:36 p.m. EDT)*
  - St. Thomas:
    - FEMA commodities delivered to St. Thomas to date: 1.7M meals, 1.8M liters of water, and 15,000 tarps *(ESF-7 Update, September 28, 2017 1:45 p.m. EDT)*
    - Establishing Incident Support Base (ISB) at Cyril E. King Airport *(ESF-7 Update, September 28, 2017, 1:30 p.m. EDT)*
    - Eight PODS will open September 29 *(RII Daily Fact Sheet, September 28, 2017, 10:00 a.m. EDT)*
  - St. Thomas:
    - FEMA commodities delivered to St. Croix to date: 708,960 meals, 398,000 liters of water, and 10,000 tarps *(ESF-7 Update, September 28, 2017 7:30 p.m. EDT)*
    - Eight PODs will be open September 29 *(RII Daily Fact Sheet, September 28, 2017, 10:00 a.m. EDT)*
    - One flight carrying 23,000 meals and 18,000 liters of water arrived September 28 *(ESF-7 Update, September 29, 2017 2:29 a.m. EDT)*

- Responder Lodging

| Name Vessel | Status | Destination Port | Arrival Date | Beds Capacity | Beds Occupied | Beds Open |
|---|---|---|---|---|---|---|
| Grand Celebration | Operational | USVI: St. Croix | Arrived | 1,700 | 468 | 1,232 |
| SS Wright | Operational | USVI: St. Thomas | Arrived | 315 | 121 | 194 |
| Ocean Constructor | En route | USVI: St. John | 9/29 | 196 | | |
| Ocean Carrier | En route | USVI: St. Thomas | 10/8 | 123 | | |
| Azzure | En route | USVI: St. Thomas | 10/10 – 10/12 | 1,808 | | |
| | | | **TOTAL:** | **4,142** | **589** | **1,426** |

*(ESF-7 Update, September 28, 2017, 4:25 p.m. EDT)*

- ***ESF-8: Public Health and Medical Services***
  - Royal Caribbean ship departing September 29; accommodating up to 750 passengers from St. Croix, 200 from St. John, and 50 from St. Thomas to Ft. Lauderdale arriving October 2 *(ESF-8 Update, September 29, 2017, 1:56 a.m. EDT)*
    - St. Croix: DoD working to fulfill a request for a mobile medical facility; Caribbean Kidney Center providing supplies to last three weeks depending how many of the 23 current patients remain on the island *(ESF-8 Update, September 29, 2017, 1:56 a.m. EDT)*
  - St. Thomas: Will complete assessment of Schneider Regional Hospital by September 29 to determine when patient services may resume *(ESF-8 Update, September 29, 2017, 1:56 a.m. EDT)*
- ***ESF-10: Oil and Hazardous Material Response***
  - Eighteen EPA oil and hazardous materials assessment personnel in Atlanta awaiting transport to USVI *(ESF-10, September 28, 2017, 1:56 p.m. EDT)*
  - Established branches in St. Thomas (three NSF Strike Teams) and St. Croix (two NSF Strike Teams) to commence post-storm assessment and recovery operations *(USCG Update, September 28, 1:20 p.m. EDT)*
  - The waste water treatment plants on all three islands are operational but have limited pumping capacity due to lack of commercial power *(USVI SitRep, September 28, 2017, 9:54 p.m. EDT)*
- ***ESF-11: Agriculture and Natural Resources***
  - Three assessment teams arrived in St. Croix on September 28 and will continue to St. Thomas and St. John September 29 *(ESF-11 Update, September 28, 2017, 10:00 p.m. EDT)*
  - Only facility for food safety assessments in USVI closed; no power on site, will conduct more thorough assessment once communications restored *(ESF-11 Update, September 28, 2017, 11:55 a.m. EDT)*
- ***ESF-12: Energy***
  - Power:
    - Continuing damage assessments of Virgin Islands Water and Power Authority distribution systems; will develop restoration plans upon completion of damage assessment process
    - Shipment of 1,300 additional poles expected to arrive by middle of next week to support reconstruction; nine bucket trucks will also ship to PR later this week *(ESF-12 Update, September 28, 2017, 4:00 p.m. EDT)*
    - 17 personnel from Western Area Power Administration expected to arrive on St. Thomas September 29 followed by equipment on October 1 or 2 *(Department of Energy Situation Report #65, September 28, 2017, 4:00 p.m. EDT)*
  - Fuel:
    - Race Track will deliver 200,000 gallons of fuel to St. John and St. Croix October 1 *(SitRep #64 Update, September 28, 2017, 9:45 a.m. EDT)*
    - 40,000 gallons of regular gasoline and 80,000 gallons of diesel estimated to arrive in St. Thomas on October 1
    - Defense Logistics Agency (DLA) transporting 10,000 gallons of propane, estimated to arrive October 1 *(ESF-12 Update, September 28, 2017, 2:06 p.m. EDT)*
- ***ESF-13: Public Safety and Security***
  - Five Federal Law Enforcement Officers providing security for cruise ship Grand Celebration (St. Croix) and five for SS Wright (St. Thomas) *(ESF-13 Update, September 28, 2017, 11:54 a.m. EDT)*
  - 40 New York State Troopers arrived in St. John September 28 to supplement local law enforcement *(Incident Status Summary #6, September 28, 2017, 8:00 p.m. EDT)*
- ***ESF-15: External Affairs***
  - CAIS teams on St. Thomas, St. Croix, and St. John providing messaging to survivors via loudspeaker broadcasting and text messaging *(Incident Status Report #6, September 29, 2017, 8:00 p.m. EDT)*

- ***U.S. Department of Defense (DOD)***
  - U.S. Northern Command (USNORTHCOM):
    - One C-17 (10 personnel and 33 tons of equipment) arrived September 28 in St. Thomas with Composite Supply Company to provide support to the 601st Area Support Medical Company
    - Three C-17s arrived in St. Croix September 28 with 22 pallets of bottled water and 25 pallets of shelf-stable meals (supports 250,000 local residents) *(DOD Update, September 29, 2017, 1:01 a.m.)*
  - Defense Logistics Agency (DLA): Will deliver 40 leased generators by October 1 *(DOD Update, September 28, 2017, 2:01 p.m. EDT)*
- ***National Guard Bureau (NG)***
  - Two mobile military housing units currently on St. Thomas, to be used by military personnel assisting with response operations; two more scheduled to be delivered to St. Thomas and two to St. Croix *(NGB Update, September 28, 2017, 12:59 p.m. EDT)*
- ***U.S. Coast Guard (USCG)***
  - USCG cutter Cypress completed assessment and repair of critical Aids to Navigation (A to N) in St. Thomas and will service St. Croix A to N upon completion of PR operations *(USCG Update, September 28, 12:30 p.m. EDT)*
- ***U.S. Department of the Interior (DOI)***
  - Virgin Islands National Park employees conducting assessments and removing debris *(DOI Update, September 28, 2017, 1:00 p.m. EDT)*

## Commodities Tables

- The following commodities have been ordered by and shipped to the USVI and PR:

| St. Thomas | |
|---|---|
| Meals | Arrived Qty |
| Tarps | 1,769,172 |
| Water | 15,485 |
| | 1,840,213 |

| St. Croix | |
|---|---|
| Meals | Arrived Qty |
| Tarps | 708,960 |
| Water | 10,000 |
| | 398,000 |

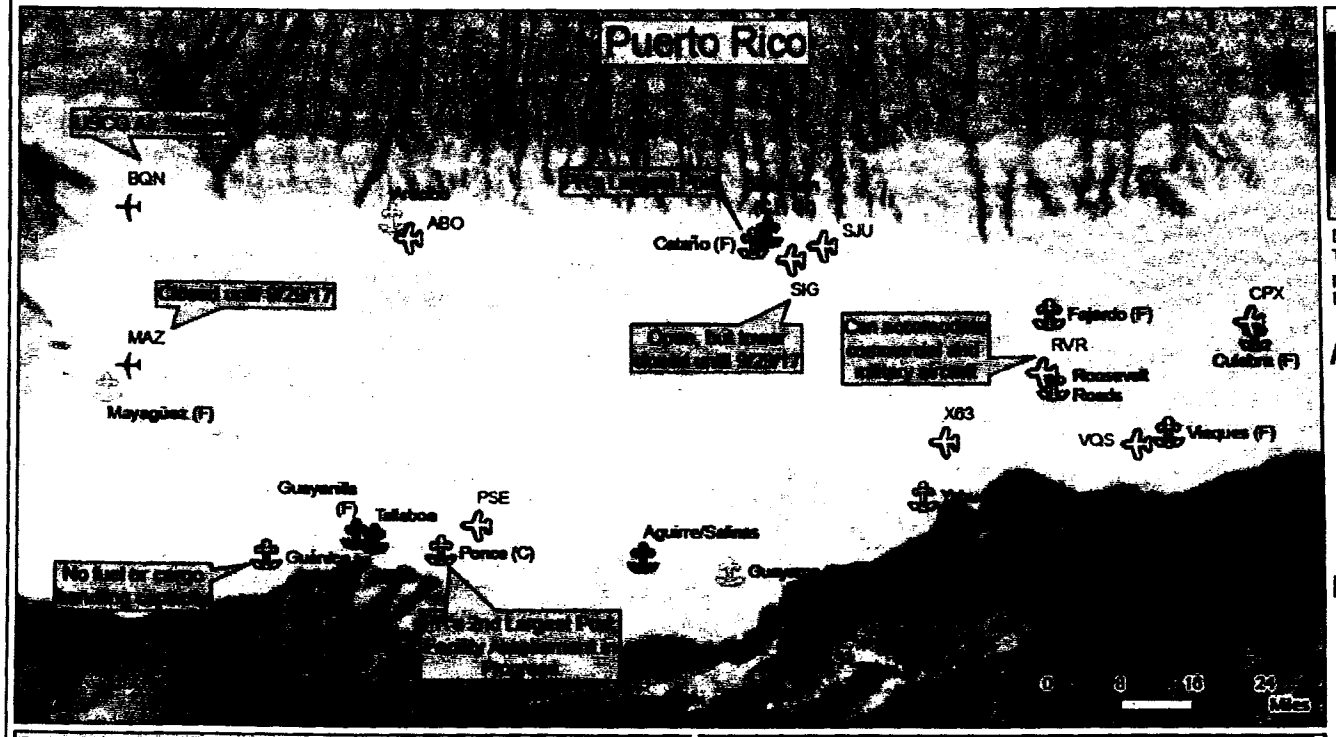
| PR | |
|---|---|
| Meals | Arrived Qty |
| Tarps | 1,300,228 |
| Water | 5,000 |
| Generator | 2,766,361 |
| Cots | 30 |
| | 22,202 |

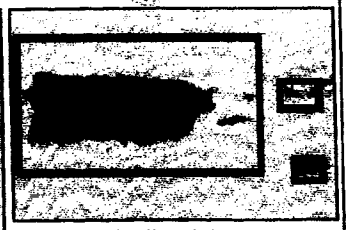
*(ESF-7 Update, September 28, 2017 11:04 p.m. EDT)*

# Maritime Ports & Airports Status: PR and USVI (29 September 2017, 0400 EDT)

FEMA-DR-4339-PR & FEMA-DR-4340-USVI: Hurricane Maria

FEMA



Data Layer/Map Description:
This map depicts the status of maritime ports and airports throughout Puerto Rico & the U.S. Virgin Islands.

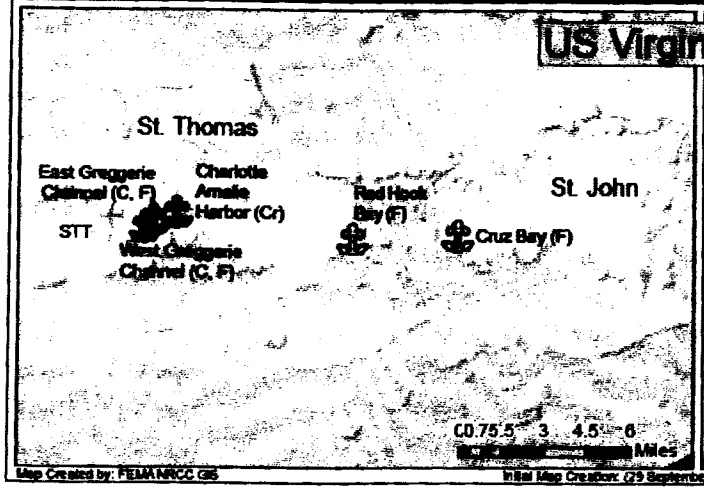
## Airport Status

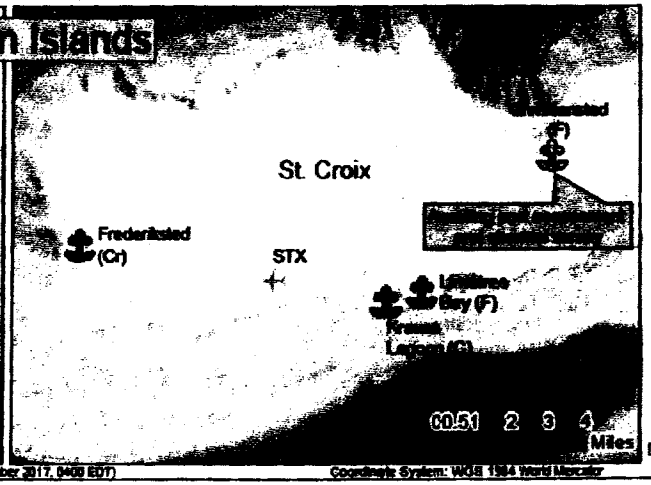
- Open
- Open with Restrictions
- Military Air and Hurricane Relief Only
- Closed

## Maritime Port Status

- Closed
- Daylight Only Operations with Restrictions
- Daylight Only Operations
- Open

(C) Container Handling Port
(F) Fuel Handling Port
(Cr) Cruise Ship Port



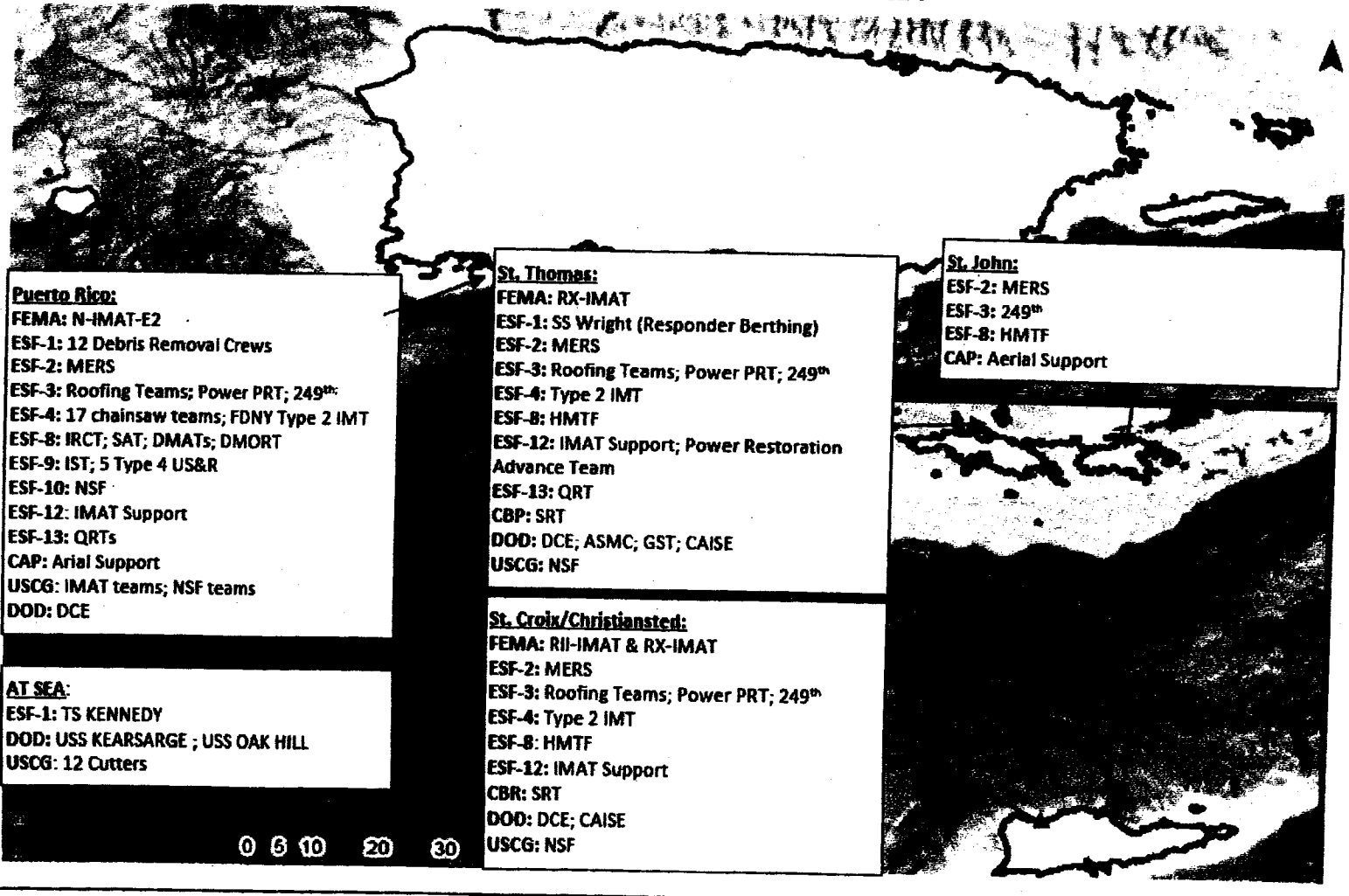




Data Sources: FEMA, ESRI, USCG, FAA

Map Created by: FEMA NRCC GIS | Initial Map Creation: (29 September 2017, 0400 EDT) | Coordinate System: WGS 1984 World Mercator

# Maria Force Laydown

*As of September 29, 2017 5:00 a.m. EDT*




**Puerto Rico:**
FEMA: N-IMAT-E2
ESF-1: 12 Debris Removal Crews
ESF-2: MERS
ESF-3: Roofing Teams; Power PRT; 249th
ESF-4: 17 chainsaw teams; FDNY Type 2 IMT
ESF-8: IRCT; SAT; DMATs; DMORT
ESF-9: IST; 5 Type 4 US&R
ESF-10: NSF
ESF-12: IMAT Support
ESF-13: QRTs
CAP: Arial Support
USCG: IMAT teams; NSF teams
DOD: DCE

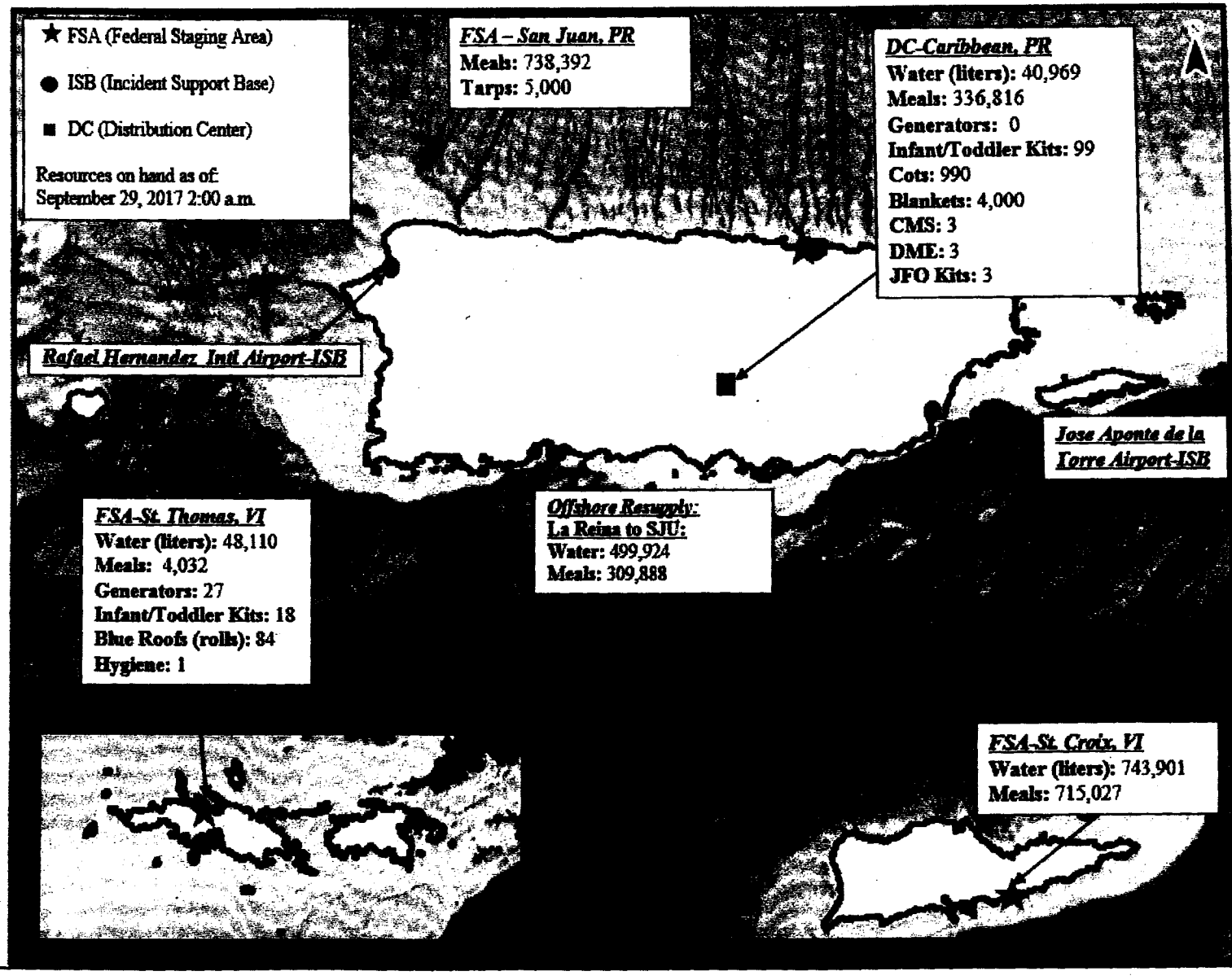
**AT SEA:**
ESF-1: TS KENNEDY
DOD: USS KEARSARGE ; USS OAK HILL
USCG: 12 Cutters

**St. Thomas:**
FEMA: RX-IMAT
ESF-1: SS Wright (Responder Berthing)
ESF-2: MERS
ESF-3: Roofing Teams; Power PRT; 249th
ESF-4: Type 2 IMT
ESF-8: HMTF
ESF-12: IMAT Support; Power Restoration Advance Team
ESF-13: QRT
CBP: SRT
DOD: DCE; ASMC; GST; CAISE
USCG: NSF

**St. Croix/Christiansted:**
FEMA: RII-IMAT & RX-IMAT
ESF-2: MERS
ESF-3: Roofing Teams; Power PRT; 249th
ESF-4: Type 2 IMT
ESF-8: HMTF
ESF-12: IMAT Support
CBR: SRT
DOD: DCE; CAISE
USCG: NSF

**St. John:**
ESF-2: MERS
ESF-3: 249th
ESF-8: HMTF
CAP: Aerial Support

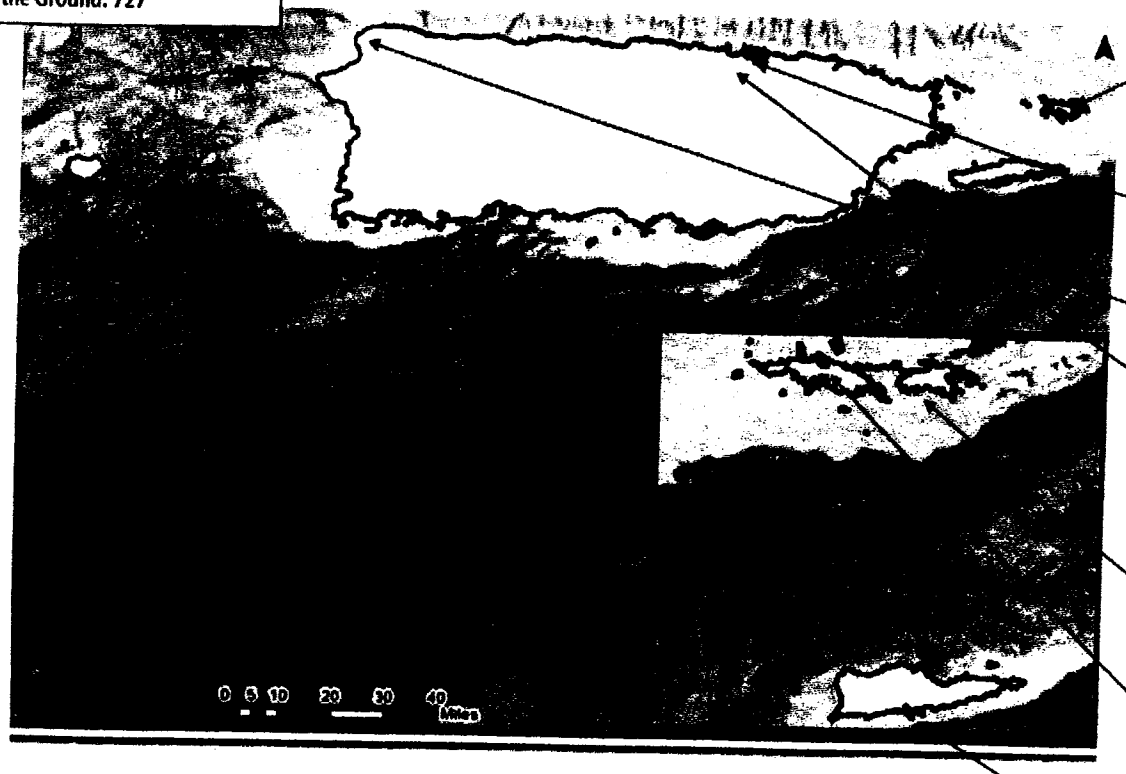
Current OCONUS FEMA Commodities Laydown (as of September 29, 2:00 a.m. EDT)



# Hurricane Irma/Maria – FEMA Responder Laydown

*As of September 29, 2017 2:00 a.m. EDT*

**Total FEMA Supporting Hurricane Irma/Maria Actions on Puerto Rico and US Virgin Islands**
Responders on the Ground: 727




**Culebra Island, PR: 1**
(FEMA Corps will be returning)

**San Juan/ Carolina, PR: 403**
Other FEMA Responders: 310
N-IMAT E2: 27
SCF: 66

**Aguedilla, PR: 3**
FEMA Responders: 3

**Hato Rey, PR: 84**
FEMA Responders: 84

**Vieques, PR: 2**
FEMA Responders: 2

**St. John, USVI: 4**
FEMA Responders: 4

**St. Thomas, USVI: 37**
FEMA Responders: 33
SCF: 2
R-IMAT X: 2

**St. Croix, USVI: 193**
R-IMAT II: 10
R-IMAT X: 7
Other FEMA Responders: 128
SCF: 48
(6 FEMA Corps enroute)

**Recovery Snapshot**
**Post-Tropical Cyclone Irma**
**Friday, September 29, 2017 (5:00 a.m. EDT)**
**Updates in Blue**

## Declarations:

| State Region | Declaration | Declared Counties: Individual Assistance | Public Assistance | Cost Share |
|---|---|---|---|---|
| Region IV | | | | |
| **Seminole Tribe of Florida** | 9/27: *DR-4341* | | | |
| **Georgia** | 9/15: *DR-4338* | 7 counties | All | 75% |
| **Alabama** | 9/11: *EM-3389* | | All 67 counties and Poarch Band of Creek Indians | 75% |
| **Florida** | 9/10: *DR-4337* | 48 counties | All 67 counties | 75%<br>100% (Cat B) for 30 days |
| **Seminole Tribe of Florida** | 9/27: *DR-4341* | Seminole Tribe of Florida and associated lands | Seminole Tribe of Florida and associated lands | 100% (Cat B) for 30 days |
| **South Carolina** | 9/7: *EM-3386* | - | All 46 counties and Catawba Indian Nation | 75% |

## Recovery Priorities, Issues, and Challenges:

| State | Recovery Priorities | Issues/Challenges |
|---|---|---|
| **Georgia** | 1. Deliver Individual Assistance<br>2. Open Disaster Assistance Centers<br>3. Conduct IA & PA preliminary damage assessments<br>4. Public Information | Not yet reported |
| **Florida** | 1. Complete Public Assistance (PA) Preliminary Damage Assessments (PDAs) by 09/29/2017.<br>2. Housing in Lee, Hendry, and Collier Counties<br>3. Local Hire Program<br>4. Availability of hotels enrolled in TSA<br>5. HUD damage assessments<br>6. Temporary housing<br>7. Transitional Sheltering Assistance (TSA)<br>8. Flagler County requesting assistance in expediting processing of Category A and B and making funds available immediately.<br>9. Request for Direct Housing - DHAT will deploy to the counties to conduct assessments.<br>10. HUD has granted a 90-day moratorium on foreclosures and forbearance on foreclosures of Federal Housing Administration (FHA)-insured home mortgages. | • Staffing and collateral material for Individual Assistance and Disaster Survivor Assistance missions<br>• Need more IA Caseworkers<br>• Pace of Individual Assistance payments<br>• Sufficient debris removal resources<br>• Survivors continue to request temporary housing as shelters are closing<br>• Debris removal<br>• Some schools in the Keys will not open until October 2nd<br>• Capacity at the 1-800 FEMA number<br>• Need more language interpreters, Spanish and Creole (Haitian)<br>• Flagler County is very low on funding due to Hurricane Matthew and initial Irma response efforts, they have no reserve funds to draw upon.<br>• Frustrations with long wait times and dropped calls when calling the 1-800 FEMA number |

## Damage Assessments:

| State | Preliminary Damage Assessments (PDAs), including Categories C-G | |
|---|---|---|
| Georgia | • Destroyed: 46 structures<br>• Major Damage: 171 structures<br>• Minor Damage: 111 structures<br>• Affected Habitable: 127 structures | PA PDAs: Total $29.6 M<br>• Category A: $14.4M<br>• Category B: $5.5M<br>• Category C: $4.6M<br>• Category D: $0.1M<br>• Category E: $1.6M<br>• Category F: $1.9M<br>• Category G: $1.4M |
| Florida | In process | |

## Interagency Coordination/Recovery:

- ***Recovery Support Function (RSF): Housing Recovery***

| Individual Assistance | | | | |
|---|---|---|---|---|
| State | Total Registrations | Total Individuals and Households Program Approved | Housing Assistance Approved | Other Needs Assistance Approved |
| Georgia | 18,402 | $ 5,589,489 | $ 3,782,803 | $ 1,806,685 |
| Florida | 1,864,638 | $ 660,021,587 | $ 436,253,672 | $ 223,767,914 |
| Puerto Rico | 3,585 | $ 278,963 | $ 136,886 | $ 142,076 |
| Seminole Tribe of Florida | 6,796 | Not yet reported | Not yet reported | Not yet reported |
| U.S. Virgin Islands | 7,053 | $4,592 | $4,592 | Not yet reported |

| Housing Inspections | | | | |
|---|---|---|---|---|
| State | Inspectors with Work | Inspections Issued | Inspections Complete | % Complete |
| Georgia | 16 | 2,741 | 1,123 | 40.9% |
| Florida | 1,258 | 483,816 | 83,511 | 17.2% |
| Puerto Rico | 19 | 1,268 | 482 | 38% |
| U.S. Virgin Islands | 0 | 5,315 | 4 | 0.07% |

| (Irma) National Flood Insurance Program Claims Estimate | | |
|---|---|---|
| State | Claims Submitted | Advanced Payments to Insured Survivors |
| Florida | Over 21,000 | Over $28,000,000 |
| Georgia | Over 1,700 | Over $2,000,000 |
| South Carolina | Over 1,900 | Over $1,100,000 |
| U.S Virgin Islands | 41 | |
| Puerto Rico | 4 | |
| Alabama | 1 | |

- Temporary Housing

| Transitional Sheltering Assistance | | |
|---|---|---|
| State | Households Checked In to Hotel | Eligible |
| Florida | 7,902 | 634,660 |

- Small Business Administration (SBA) Home Loans

| SBA Home Loans | | | | | |
|---|---|---|---|---|---|
| Hurricane | Applications Received | % Processed | Applications Approved | Loan $ Approved | Average Loan Amount |
| Irma | 18,895 | 53% | 104 | $5,515,000 | $53,029 |

- US Department of Housing and Urban Development (HUD) *(no change from 9/20/2017)*

| Hurricane Irma - Florida | Number of Properties in Impacted Area | Displaced (# of Beds for Healthcare - Hospital) | Displaced (# of Household for Public & Indian Housing - Multifamily Housing) | Returned or Permanently Housed (# of Households/Beds) |
|---|---|---|---|---|
| Multifamily Housing | 0 | 0 | 0 | 0 |
| Public and Indian Housing | 0 | 0 | 0 | 0 |
| Healthcare and Hospitals | 104 | 804 | 0 | 100 |
| **Total** | **104** | **804** | **0** | **100** |

| Hurricane Irma - Georgia | Number of Properties in Impacted Area | Displaced (# of Beds for Healthcare - Hospital) | Displaced (# of Household for Public & Indian Housing - Multifamily Housing) | Returned or Permanently Housed (# of Households/Beds) |
|---|---|---|---|---|
| Multifamily Housing | 0 | 0 | 0 | 0 |
| Public and Indian Housing | 0 | 0 | 0 | 0 |
| Healthcare and Hospitals | 3 | 50 | 0 | 0 |
| **Total** | **3** | **50** | **0** | **0** |

| Hurricane Irma - South Carolina | Number of Properties in Impacted Area | Displaced (# of Beds for Healthcare - Hospital) | Displaced (# of Household for Public & Indian Housing - Multifamily Housing) | Returned or Permanently Housed (# of Households/Beds) |
|---|---|---|---|---|
| Multifamily Housing | 0 | 0 | 0 | 0 |
| Public and Indian Housing | 0 | 0 | 0 | 0 |
| Healthcare and Hospitals | 5 | 88 | 0 | 0 |
| **Total** | **5** | **88** | **0** | **0** |

- ***RSF: Economic Recovery***
  - SBA Business Loans

| SBA Business Loans | | | | | |
|---|---|---|---|---|---|
| **Hurricane** | **Applications Received** | **% Processed** | **Applications Approved** | **Loan $ Approved** | **Average Loan Amount** |
| **Irma** | 678 | 36% | 4 | $79,700 | $19,925 |

- USDA Risk Management Agency

| State Specific Crop Insurance Information for Hurricane Irma as of 9/4/2017 | | | |
|---|---|---|---|
| Liabilities | $2.3 billion | $818.6 million | $2.3 million |
| Largest Crop Liability (amount) | Orange Trees ($1.1 billion) | Cotton ($581.2 million) | Coffee ($932,742) |

**PR crop liability was $53,445,686 for 2016 Reinsurance Year. As of June 9, 2017 only $2.3 million of liability was reported and available through the RMA Summary of Business.*

- USDA Farm Service Agency

| Total Combined $ Amount Loss for Crops/livestock by State | |
|---|---|
| **Sept 18-Sept 22:** Florida | n/a |
| **Sept 10-Sept 12:** Georgia | $338,272,398 |
| **Sept 18-Sept 22:** Louisiana | $41,000,000 |

| Total Combined $ Loss for Crops/Livestock by Hurricane | |
|---|---|
| **Total Irma Hurricane Total** | $338,272,398 |

# Recovery Snapshot
# Post-Tropical Cyclone Harvey
**Friday, September 29, 2017 (5:00 a.m. EDT)**
**Updates in Blue**

## Declarations:

| State/Region | Declaration | Declared Counties | | |
|---|---|---|---|---|
| | | Individual Assistance | Public Assistance | Cost Share |
| **Texas** | 8/25: *DR-4332* | 39 counties | 46 counties | 90% (Cat A); 100% (Cat B) for 30 days, 90% thereafter |

## Recovery Priorities, Issues, and Challenges:

| State | Recovery Priorities | Issues/Challenges |
|---|---|---|
| **Texas** | 1. Sheltering and temporary housing<br>2. Debris Removal<br>3. Collect and disseminate accurate incident information to improve decision-making<br>4. Accurately track incident costs associated with assigned resources for cost recovery<br>*(TDEM Sit Rep, September 27, 2017, 8:00 a.m. EDT)* | Not yet reported |

## Damage Assessments

| State | Preliminary Damage Assessments (PDAs), including Categories C-G | |
|---|---|---|
| | IA PDA | PA PDA |
| **Texas** | Not yet reported | 21 counties requested, 20 counties complete, 2 counties ongoing |

## Interagency Coordination/Recovery:

- ***RSF: Housing Recovery***

| Individual Assistance | | | | |
|---|---|---|---|---|
| **State** | **Total Registrations** | **Total Individuals and Households Program Approved** | **Housing Assistance Approved** | **Other Needs Assistance Approved** |
| **Texas** | 833,107 | $ 770,057,686 | $ 560,932,529 | $ 209,125,157 |

| Housing Inspections | | | | |
|---|---|---|---|---|
| **State** | **Inspectors with Work** | **Inspections Issued** | **Inspections Complete** | **% Complete** |
| **Texas** | 2,516 | 525,450 | 269,839 | 51.3% |

| (Harvey) National Flood Insurance Program Claims Estimate | | |
|---|---|---|
| **State** | **Claims Submitted** | **Advanced Payments to Insured Survivors** |
| **Texas** | Over 88,000 | Over $785,000,000 |
| **Louisiana** | Over 470 | Over $1,100,000 |

Closure Rates:
- Over 4% of claims have been closed in Texas with over $42,000,000 paid in closed claims.
- Over 11% of claims have been closed in Louisiana with over $1,200,000 paid in closed claims.

- Temporary Housing

| Transitional Sheltering Assistance | | |
|---|---|---|
| **State** | **Households Checked In to Hotel** | **Eligible** |
| **Texas** | 21,201 | 336,787 |

- Small Business Administration (SBA) Home Loans

| SBA Home Loans | | | | | |
|---|---|---|---|---|---|
| **State** | **Applications Received** | **% Processed** | **Applications Approved** | **Loan $ Approved** | **Average Loan Amount** |
| **Texas** | 49,694 | 62% | 6,377 | $534,588,300 | $83,831 |

- U.S. Department of Housing and Urban Development (HUD) *(as of 09/23/2017, 7:35 p.m. EDT)*

| Hurricane Harvey - Texas | Number of Properties in Impacted Area | Displaced (# of Beds for Healthcare - Hospital) | Displaced (# of Household for Public & Indian Housing - Multifamily Housing) | Returned or Permanently Housed (# of Households Beds) |
|---|---|---|---|---|
| Multifamily Housing | 454 | 0 | 3,063 | 844 |
| Public and Indian Housing | 42 | 0 | 358 | 0 |
| Healthcare and Hospitals | 40 | 997 | 0 | 676 |
| **Total** | **536** | **997** | **3,421** | **1,520** |

- ***RSF: Economic Recovery***
  - SBA Business Loans

| SBA Business Loans | | | | | |
|---|---|---|---|---|---|
| **State** | **Applications Received** | **% Processed** | **Applications Approved** | **Loan $ Approved** | **Average Loan Amount** |
| **Texas** | 3,060 | 71% | 514 | $48,836,400 | $95,012 |

- U.S. Department of Agriculture (USDA) Risk Management Agency

| State Specific Crop Insurance Information for Hurricane Harvey | | |
|---|---|---|
| **Liabilities** | $792.4 million | $133.5 million |
| **Largest crop liability (total)** | Cotton ($352.3 million) | Rice ($104.1 million) |
| **Policies received ++** | >34,000 | >2,900 |
| **Units Covered (acres) ++** | 4.9 million | >504,000 |

** Crops removed from calculation are AF/PRF, Cabbage, Oats, Onions, Potatoes and Wheat*
*** Parishes included are Acadia, Allen, Beauregard, Calcasieu, Cameron, Jefferson Davis, Vermillion and Vernon*
*++ Information collected from RMA's Summary of Business Reports http://www.rma.usda.gov/data/sob.html*

- USDA Farm Service Agency

| Total Combined $ Amount Loss for Crops/livestock by State | |
|---|---|
| **Sept 18-Sept 22:** Texas | $72,961,810 |

- USDA Disaster Supplemental Nutrition Assistance Program (D-SNAP)

| New Apps Taken | New Approved | | | Households Denied | Supplements Approved | | | Total New Ongoing Benefits |
|---|---|---|---|---|---|---|---|---|
| 159,339 | 124,991 | 361,328 | $118,701,657 | 7,733 | 10 | 34 | 2,873 | $118,704,530 |

*(Recovery Update, September 28, 2017, 11:02 a.m. EDT)*

- Natural Resources Conservation Service

| | EWPP Sponsor requests | EQIP Applications | CTA Employees Providing Assistance |
|---|---|---|---|
| **Texas*** | 5 new, 6-7 previous projects that may need assistance | 57 | 97 |
| **Louisiana**** | 0 | 0 | 25 |

**57 EQUIP application for FY17 received to date for TX special sign-ups*
***Little impacts, not anticipating EQIP applications for hurricane response but announced availability of EQIP*

**Hurricane Irma Response**
**EPA Region 4**
SITUATION REPORT #30
0900 – EST, September 27, 2017 to 0900 – EST, September 29, 2017

## I. HIGHLIGHTS SINCE LAST SITUATION REPORT

Two Region 4 On-Scene Coordinators (OSCs) are in Miami representing the EPA in the EPA/USCG/FDEP Unified Command. The EPA Unified Commander reports that operations may be hampered by the current tropical weather disturbance in South Florida.

Four EPA field teams composed of OSCs, Superfund Technical Assessment and Response Team (START) members, and Emergency and Rapid Response Services (ERRS) contractors deployed to Florida on September 25, and have established a forward command center in Marathon Key.

Current EPA operations consist of identification of staging areas for orphan containers, hazardous waste, and fuel and oil recovered from vessels. The Key West-Marathon Airport has been established as the initial staging area.

On September 27, EPA teams conducted land-based assessments in the inland zone in the Marathon and ISLA Morada areas of the Keys. They were assessing target points associated with debris fields. These targets and debris fields were identified by a National Oceanic and Atmospheric Administration (NOAA) contractor using aerial imagery.

On September 25, FDEP requested EPA's Facility Assessment Support Team (FAST) assistance in assessing the status of 1,112 non-community public water systems. Assessment activities assigned by FDEP began on September 26, and the 592 assigned assessments were completed on September 28.

Two Landfill Technical Specialists from the Resource Conservation and Restoration Division (RCRD) mobilized Wednesday to the Keys. The team is working with the FDEP Marathon Branch (MB) staff on implementing use of FDEP's Disaster Debris Management Site Checklist.

A new Mission Assignment (MA) for $10,000,000 to continue the EPA ESF-10 Mission through November has been approved.

## II. KEY QUESTIONS

### a. What has Florida asked us to do?

Florida assigned the EPA ESF-10 Mission Assignments to conduct assessments of targeted facilities, orphan containers assessment and recovery, and hazardous substance and oil pollution response including potential vessel response and recovery. An additional ESF-10 Mission Assignment has been established to provide Landfill/Debris Management technical support. An ESF-3 Mission Assignment was issued to EPA by the U.S. Army Corps of Engineers (USACE) to provide water infrastructure technical and field support.

### b. How are we leaning forward?

The EPA Region 4 performed field-assessments at all National Priority List (NPL) sites within the State and contacted all Facility Response Plan (FRP) facilities through a combination of call-down and field assessments. The Region also contacted all 274 Risk Management Plan (RMP) facilities in Florida. No ESF-10 issues were reported.

## III. EPA OPERATIONS AND ACTIVITIES

### a. Orphan Container, Pollution Response, and Vessels

Over the weekend of September 23, EPA completed the Orphan Container assessment Mission Assignment in Collier County. All containers previously collected in Collier County by the EPA Orphan Container Group were disposed by Collier County's contractor.

From September 27-29, EPA teams conducted land-based assessments in the inland zone in the Marathon and Islamorada areas of the Keys. The Key West-Marathon Airport has been established as the initial container staging area.

The Environmental Unit (EU) in the Regional Emergency Operations Center (REOC) is coordinating with NOAA to obtain remote assessment data for use in the EPA GeoPlatform. Previously, FDEP, EPA, USCG and NOAA identified data sources from multiple agencies and organizations that included assessment information on orphaned containers and vessels. The EPA has completed a composite of this information that corresponds to the current data format. This information will improve data collection and maintenance without duplicating previous efforts.

Unified Command approved the Hurricane Irma Vessel Mitigation and Removal Protocol for the State of Florida on September 24. The REOC has received clarification that the term "targets" includes four categories of material. Unified Command has identified **over 1,000** potential targets for assessment, consisting of containers, vessels, vehicles and debris piles. Tables 1 and 2 provide a summary of EPA's assessment status of containers and USCG's assessment status of vessels.

| [redacted] | [redacted] | [redacted] | [redacted] |
|---|---|---|---|
| [redacted] | 62 | 0 | 62 |

*Removed or determined no further action necessary

| [redacted] | [redacted] | [redacted] | [redacted] |
|---|---|---|---|
| [redacted] | 92 | 4 | 88 |
| [redacted] | 146 | 6 | 140 |
| [redacted] | 60 | 0 | 60 |
| [redacted] | 151 | 7 | 144 |
| [redacted] | 449 | 17 | 432 |

*As reported by USCG Sector Key West
**Table list on confirmed targets. Unified Command has identified **over 1,000** potential targets for assessment
***Removed or determined no further action necessary

### b. Water Infrastructure

ESF-3 was tasked to provide technical assistance to the USACE for water infrastructure assessment. Field and remote assessment activities have been completed. Tables 3 and 4 summarize community water system status and Publicly Owned Treatment Works (POTW) in Florida as per the last state report.

### i. Water Team Deployment

The USACE and the Water Protection Division has completed their field mission of assisting FDEP in assessing the status of drinking water and wastewater facilities. The FAST completed 592 assessments of the 1,112 non-community drinking water systems assigned to the team by FDEP.

### ii. Boil Water Notices (BWNs)[1]

Boil water notice or advisories are published on the Florida Department of Health's website (http://www.floridahealth.gov/environmental-health/drinking-water/boil-water-notices.html).

**Table 3**
**Status of Community Drinking Water Systems (CWS) and Total Population Served in Florida**

| | Large CWS (Over 3,300) | | Small CWS (under 3,300) | |
|---|---|---|---|---|
| | # Systems | Population Served | # Systems | Population Served |
| **Operational:** | 395 | 19,210,964 | 1,192 | 684,223 |
| **Partially Operational:** | 1 | 77,500 | 14 | 15,084 |
| **Non Operational:** | 0 | 0 | 3 | 255 |
| **Unknown:** | 0 | 0 | 34 | 10,916 |
| **Totals:** | 396 | 19,288,464 | 1,243 | 710,478 |
| Boil Water Notices | 58 Active BWN | | | |

**Comments:** Data are compiled from the State of Florida's *StormTracker* system. The inventory of public water systems in *StormTracker* consists of all 1,630 Community Water Systems (CWS) and 11 non-community public water systems regulated by the State. These facilities were identified by Florida as the most critical for operational status determinations following major disasters. For convenience, all 1,641 facilities are reported as "CWS" in this table.

*Operational: Facility producing drinking water for greater than 90% of customers under normal operating conditions*

*Partially Operational: Facility producing drinking water under adverse conditions and/or supplying less than 90% of customers*

*Non Operational: Facility not producing or supplying drinking water*

*Unknown: Status of facility unknown at this time*

[1] While a BWN may be issued for an entire system, many are issued for only part of a distribution system (blocks, subdivisions, specific number of houses, etc.) making estimates of the population effected by a BWN inaccurate or unavailable. As such, reporting of populations affected is misleading therefore not reported at this time.

| Table 4<br>Number and Status of<br>POTWs within Florida | | | |
|---|---|---|---|
| | NPDES Permitted Facilities | | |
| | POTW | Non-POTW (Industrial) | State Permits (Non-NPDES) |
| **Operational:** | 143 | 242 | 1,766 |
| **Partially Operational:** | 2 | 1 | 33 |
| **Non Operational:** | 0 | 0 | 88 |
| **Unknown:** | 0 | 0 | 121 |
| **Totals:** | 145 | 243 | 2,008 |

Comments: Data are compiled from the State of Florida's *StormTracker* system. The NPDES universe tracked in *StormTracker* represents a subset of the total inventory of NPDES permitted systems identified by the State of Florida as the most critical for operational status determinations following major disasters.

This report shows that 99% of the POTWs are Operational, no change since last report of 99%.
This report shows that 99% of the Non-POTW NPDES Permitted Facilities tracked in StormTracker are Operational, no change since last report of 99%.

*Operational: Facility & associated collection system is properly conveying, and effectively providing wastewater treatment, in accordance with applicable permit conditions and regulations. (Operating on full or backup generator power.)*

*Partially Operational: Facility and/or associated collection system is properly conveying and providing wastewater treatment at a compromised capacity, i.e. one or more treatment train components are non-operational, one or more lift stations are non-operational, etc.*

*Non Operational: Facility and/or associated collection system is not providing wastewater treatment in accordance with applicable permit conditions and regulations*

*Unknown: Status of facility unknown at this time*

### c. Fuel Waivers and No Action Assurance Letters

On September 21, EPA received letters from the State of Florida requesting extensions to two existing fuel waivers and three no action assurance (NAA) letters issued in anticipation of Hurricane Irma. On September 21, the EPA Office of Enforcement and Compliance Assurance (OECA) issued three NAA letters extending Florida's existing NAAs for truck loading, vapor recovery, and roof landing to October 6. OECA issued an extension to the waiver for red-dyed diesel fuel to October 6. EPA Headquarters, with input from the State and Region 4, is working to evaluate and respond to the remaining fuel waiver extension request.

Table 5 summarizes Fuel Waivers and NAA letters for fuels for **mobile sources** (e.g., cars/trucks), and NAA letters for **stationary sources** of pollution (e.g., power plants).

| Table 5<br>Chronology of Waivers and NAAs to Date | | | | |
|---|---|---|---|---|
| **Requesting State** | **What they requested (Date of request)** | **Waiver or NAA** | **EPA Response** | **Does this supersede a prior waiver or NAA?** |
| **MOBILE SOURCE FUELS – EPA ISSUED FUEL WAIVERS AND NAAs** | | | | |
| GA | Reid Vapor Pressure (RVP) and ethanol requirements for gasoline. Requested on August 28, 2017 | Waiver | Waiver issued on August 29 | No |
| Covers all R4 States (though | Low volatility conventional gasoline and Reformulated Gasoline (RFG). | Waiver | Waiver issued on August 30 | No |

| Table 5<br>Chronology of Waivers and NAAs to Date | | | | |
|---|---|---|---|---|
| **Requesting State** | **What they requested (Date of request)** | **Waiver or NAA** | **EPA Response** | **Does this supersede a prior waiver or NAA?** |
| not all formally submitted a request) | Requested on various dates (or not requested at all). | | | |
| Covers all R4 States (though not all formally submitted a request) | Low volatility conventional gasoline and Reformulated Gasoline (RFG). Requested on various dates (or not requested at all). | Waiver | Waiver issued on August 31 | Yes |
| FL | Red dyed 15 ppm non-road diesel locomotive and marine fuel. Requested on September 5, 2017 | Waiver | Waiver issued on September 6 | No |
| Covers all R4 States (though not all formally submitted a request) | Low volatility "summertime" gasoline requirements and RFG. Requested on various dates (or not requested at all). | Waiver | Waiver issued on September 7 | Yes |
| FL | Use of Duke Power's diesel reserves (non-ULSD) in vehicles and equipment for response to power outages (9/13/17) | NAA | NAA issued on September 13 | NA |
| **STATIONARY SOURCES – EPA ISSUED NAAs** | | | | |
| FL | Operation of simple-cycle combustion turbines in Monroe County, FL, without adhering to NOX control requirements (9/08/17) | NAA | NAA for violations of NSPS Subpart GG NOX emission standard and permit requirements for simple-cycle combustion turbines in Monroe County, FL (9/08/17) See HERE | No |
| FL | Fuel Loading Operations for fuel shortages (9/08/17) | NAA | Statewide NAA for vapor recovery requirements for fuel shortages (9/08/17) See HERE | No |
| FL | Truck Loading Operations for fuel shortages (9/08/17) | NAA | Statewide NAA for Truck Loading Operations for fuel shortages (9/08/17) See HERE | No |
| FL | Roof Landings for fuel shortages (9/08/17) | NAA | Statewide NAA for Roof Landings at fuel storage tanks for fuel shortages (9/08/17) See HERE | No |
| FL | Relief from various permit conditions and permit requirements at TECO power plants (9/09/17) | NAA | Relief from various permit conditions and permit requirements at three TECO power plants (9/10/17) See HERE | No |
| FL | Relief from various permit conditions and permit requirements at Florida power plants state-wide (9/10/17) | NAA | Statewide relief from various permit conditions and permit requirements at Florida power plants (9/10/17) See HERE | Yes (Supersedes TECO) |

### d. Landfill Specialty Team

An MA providing funding for EPA Landfill Specialty Teams (LST) through November has been approved. Two Landfill Technical Specialists from RCRD mobilized to the Unified Command Post in Miami on Wednesday and will provide debris technical assistance to Monroe County and FDEP.

The Teams participated in a conference call on September 28, with Miami Unified Command regarding vessel recovery. LST duties and FDEP's desire to have the LST evaluate management of household hazardous waste (HHW) at the Disaster Debris Management Sites (DDMSs) were discussed on the call. LST activities will be limited to technical advice and evaluation. The Team will not be involved in the physical collection or disposal of HHW.

The LST will work with the FDEP Marathon Branch (MB) staff on implementing the use of FDEP's Disaster Debris Management Site Checklist. The LST and MB staff will cross-train for the next few days and plan to visit as many DDMSs as possible.

## IV. FLORIDA STATUS UPDATE

All Emergency Support Functions are active. EPA Region 4 was released from staffing the ESF-10 Desk at the State Emergency Operations Center (SEOC) on September 26. State-specific information can be found on the Florida Division of Emergency Management webpage: http://www.floridadisaster.org/index.asp.

Tables 6 and 7 provide an overview of hurricane impact and facility assessment status.

**Table 6**
**Summary of Hurricane Impacts Throughout Florida**

| Category | |
|---|---|
| **SEOC Status** | Level 2 (Fully staffed 12-hour operations) |
| **Evacuations** | Reported 592 total population in shelters |
| **Power outages** | Floridadisaster.org lists no current power outages associated with Hurricane Irma |
| **Boil Water Advisory** | A Boil Water Notice is still in effect across multiple water systems. |

**Table 7**
**Florida - Summary of Priority Facility Sites**

| | **NPL** National Priority List | **RMP** Risk Management Plan | **FRP** Facility Response Plan |
|---|---|---|---|
| **Total** | 93 | 274 | 122 |
| **Assessments Completed** | 93 | 274 | 122 |
| **Assessments Pending** | 0 | 0 | 0 |

## V. FEDERALLY RECOGNIZED TRIBES

No significant updates were provided by the Region 4 Tribes during this reporting period.

## VI. EPA STAFFING

The EPA Region 4 REOC remains at Level 3 activation. Staffing provided in Table 8 represents all EPA and contractor staff associated with the Hurricane Irma response. See the Incident Management Field Operations Organizational Chart for the overall command structure at the end of the SitRep (Figure 1). The REOC will go to remote operations over the coming weekend.

| Table 8<br>Region 4 Staffing (09/29/17 – 0900)<br>Deployment Location | | | | |
|---|---|---|---|---|
| | **EPA R4 Atlanta[1]** | **FEMA Atlanta** | **Florida SEOC[2]** | **Florida Field Operations[3]** |
| **EPA R3** | 0 | 0 | 0 | 0 |
| **EPA R4** | 17 | 0 | 1 | 9 |
| **EPA R5** | 0 | 0 | 0 | 0 |
| **EPA HQ** | 0 | 0 | 0 | 0 |
| **START** | 2 | 0 | 0 | 5 |
| **ERRS** | 0 | 0 | 0 | 4 |

1. EPA staff and contractors working directly in the REOC or actively supporting Region 4 REOC operations from a remote location (e.g., normal workstation).
2. EPA R4 On-Scene Coordinator liaison staffing ESF-10 desk at the Florida Emergency Operations Center in Tallahassee, Florida.
3. EPA staff and contractors staffing field assessment teams in various locations in Florida.

## VII. FINANCE

Table 9 provides a summary of Mission Assignments. Several Cost-to-Date values are lower than previously reported due to incorporation of actual costs in place of estimates.

| Table 9<br>FEMA Mission Assignment Status | | | | | |
|---|---|---|---|---|---|
| **Mission Assignment Number** | **Type of Mission Assignment** | **Period of Performance** | **State Cost Share** | **Funding** | **Cost-to-Date** |
| 4337DR-FL-EPA-05 | Federal Operations Support | September 4 to October 15, 2017 | 0% | $90,000 | $76,065 |
| 4337DR-FL-EPA-03 | Direct Federal Assistance | September 10 to October 3, 2017 | 0% | $525,000 | $458,556 |
| 4337DR-FL-EPA-04 | Disaster | September 4 to October 3, 2017 | 0% | $9,000,000 | $3,078,934 |
| 4337DR-FL-EPA-07 | Landfill Specialty Team | September 25 to October 3, 2017 | 0% | $675,000 | $0 |
| New MAs, cited previously, have been approved but have not yet been assigned tracking numbers; therefore, they are listed in the table. New MAs begins on October 4. | | | | | |

## VIII. OFFICE OF EXTERNAL A 'FAIRS (OExA)

### a. Press Inquiries:

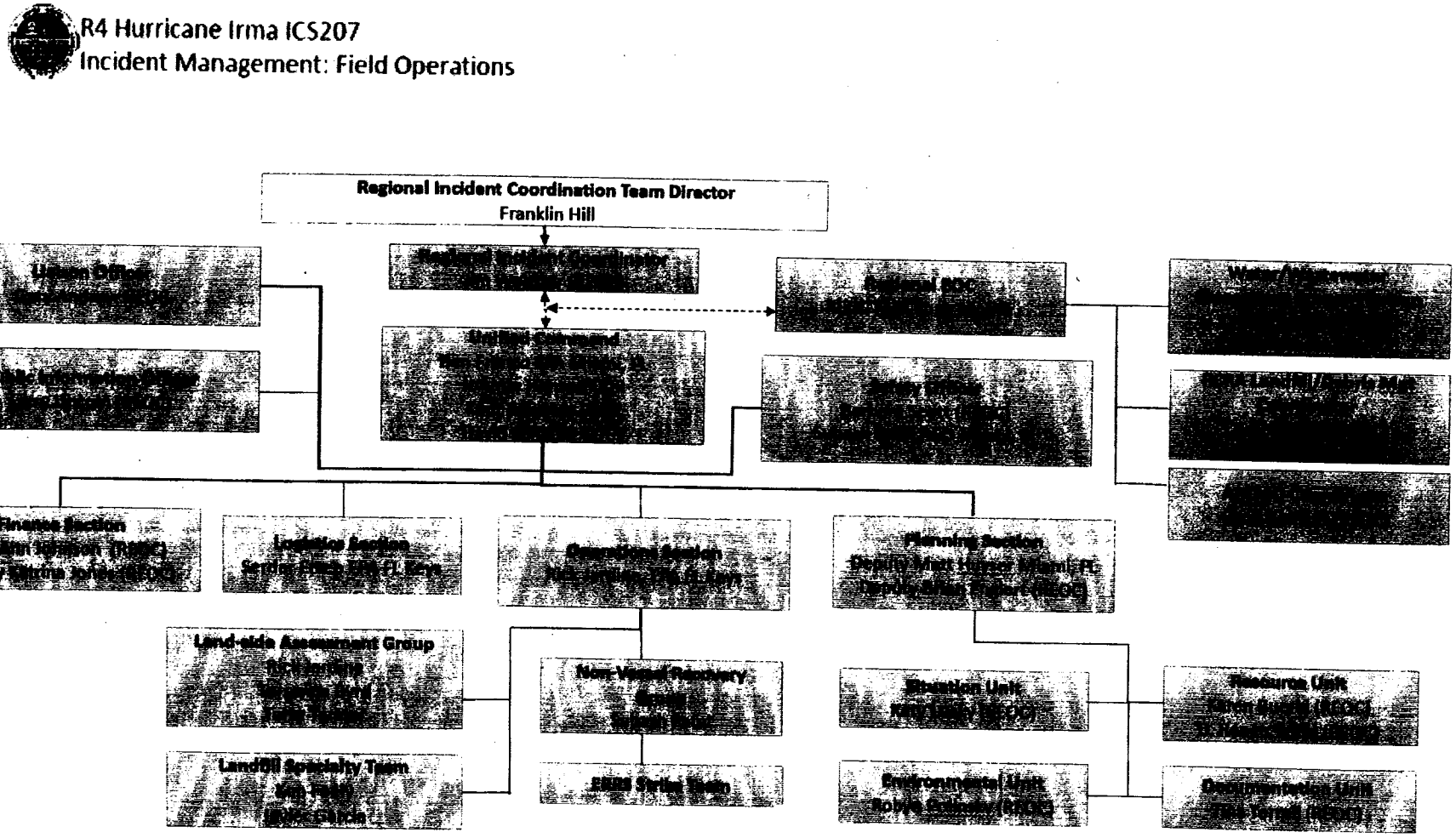
Fort Myers News Press (Fla.) (Bill Smith) [Received September 7] – CLOSED - Would like to speak with someone about the reporting requirements after a sewage spill. The question is due to Hurricane Irma. Referred to FDEP.

### b. Congressional Inquiries:

On September 20, the EPA Headquarters (HQ) received a letter from Senators Rubio and Nelson urging EPA to continue to work with state and municipal governments to expedite "direct federal assistance and technical assistance" to reduce sewage and untreated wastewater exposure risks. The letter also asked EPA to consider using the Clean Water and Drinking Water State Revolving Funds (SRF) to enhance capacity and resilience of drinking water, stormwater and wastewater systems. The letter was controlled to the Region 4 Water Protection Division for reply.

Staff from Congressman Brian Mast (FL-18) contacted EPA HQ to inquire whether EPA field personnel could meet with the Congressman this week to discuss Irma related water quality issues. HQ forwarded the request to the Regional Administrator's office.

Figure 1


R4 Hurricane Irma ICS207
Incident Management: Field Operations
Regional Incident Coordination Team Director
Franklin Hill
Finance Section
Logistics Section
Operations Section
Planning Section
Land-side Assessment Group
Landfill Specialty Team
Non-Vessel Recovery
Situation Unit
Resource Unit
Environmental Unit
Documentation Unit

Hurricane Harvey/Irma Policy Coordinating Committee

(Deputy EOC Manager) Agenda September 29, 2017

Draft – withheld Exemption 5

# Hurricane Irma/Hurricane Maria 2017
# 9/29/2017 – 1030 EDT Update

## EXECUTIVE SUMMARY

- CEPD – All CEPD personnel are accounted for and safe. Thanks to the CID/NCERT agents that assisted CEPD locate our EPA employees.
- The CEPD Guaynabo office building is running on generator power. Data and voice services and cell phone service is operating. The office will officially open on Monday, 10/2.
- The CEPD office in St. Thomas, USVI has been assessed and in the same condition post Hurricane Irma. EPA will follow up with GSA on the cleaning and air monitoring from the damage done by Irma.
- The CEPD office in Vieques, PR sustained minimal damage; it has generator power (though fuel supply is limited), but no water service. The STT and Vieques offices remain officially closed until further notice.
- **Health and Safety**. SSD and FOH just added the Typhoid vaccine to our list of vaccines required for PR and USVI on 9/28. Safety Officer has added this requirement to the pre-deployment H&S matrix. We will deliver this new H&S matrix to the other Regions and Special Teams. SSD is working with FOH to get the health clinic work orders in place and the typhoid vaccine ordered for their clinics in the regions. This requirement was a recommendation from CDC and confirmed by OSHA.
- On 9/28, all EPA personnel waiting to deploy in Atlanta were boarded on a flight destined for St. Croix, USVI. They arrived safely in St. Croix.
- We will keep pursuing FEMA, U.S. Coast Guard, and commercial flights. We will continue to move personnel into the USVI and PR. Lodging on PR and USVI remains a challenge. We will continue to pursue berthing space on the various FEMA supported vessels arriving in PR and the USVI and commercial sources.
    - Puerto Rico: **120 people** (50 people on 9/30 + 50 people on 10/1 + 20 people on 10/7).
    - St Croix: **68 people** (34 people on 9/30 + 34 people on 10/2)
    - St Thomas: **68 people** (34 people on 10/1 + 34 people on 10/2)
- Other Significant Concurrent Events.

- New York City Marathon, 11/5/17, New York, NY
- Macy's Thanksgiving Day Parade, 11/24-25/17, New York, NY

**PUERTO RICO / U.S. VIRGIN ISLANDS CONDITIONS**

**US Virgin Islands** (USVI):

- State of Emergency declared; National Guard activated.
- St. Thomas and St. John: curfew is 6pm -9am. On 9/27 the curfew changed in St Croix to 6 PM. to 11 AM.
- Power Outages:
  - St. Thomas: 19,574 (99%)
  - St. John: 2,893 (100%)
  - St. Croix: 25,274 (90%)
- Public schools planning to open 10/9.
- The Governor Juan F. Luis Hospital in St. Croix and the Schneider Regional Medical Center Emergency Room in St. Thomas were re-energized and re-established as mobile hospitals over the weekend by HHS and Department of Defense (DoD).
- St. Thomas 47.3% cell sites out of service. St. John 66.7% and St. Croix 76.2% or less of cell sites out of service.
- Airports: St. Thomas limited commercial aircraft. St. Croix: Open for response and recovery operations only. Commercial flights expected t resume n 10/5.
- Ports:
  - St. Thomas Open with restrictions: East Gregerie Channel, West Gregerie Channel, Crown Bay, Redhook
  - St. John Open with restrictions: Cruz Bay
  - St. Croix Open with restrictions: Krause Lagoon; Limetree Bay: Frederiksted
  - All other ports closed

**Puerto Rico** (PR):

- State of Emergency remains in effect; National Guard activated.
- Curfew in Puerto Rico is 9 PM to 5 AM.
- **Airports**: San Juan International Airport (SJU) operating limited domestic flights; various systems have been brought back online (surveillance, air-ground

communications, etc.) increasing Instrument Flight Rules (IFR) output from 3 flights per hour early this week to 28 IFR flights per hour 9/27. Replacement generator for San Juan Combined Center/Radar Approach Control arrived early morning September 29

- **Ports**. Open: Guayanilla, Salinas, Tallaboa Open with restrictions: San Juan, Fajardo, Vieques, and Culebra, Guayama All other ports closed

- **Public Transportation** – Bus service will initiate at limited locations and routes throughout the San Juan Metropolitan Area. Uber initiated operations in the metropolitan area giving free transport service until Sunday.

- 10,523 residents currently living on government shelters

- **PREPA** – US Department of Energy daily report establishes that 4% of PREPA clients have reestablished service. Palo Seco and San Juan Power Plants are operating. A number of hospitals in San Juan, as well as parts of the Luis Munoz Marin Airport, have been re-energized. PRAFFAF rejected the offer of PREPA's bondholders of a $1 billion special loan to reestablish the electrical service in the island.

- **PRASA** – According to PRASA, 45% of clients have access to drinking water. Department of Health continues to communicate water boil advisory. PRASA's main challenge to provide drinking water is access to diesel to energize pumping station.

- **Communications**. Approximately 71.5% of telecommunications service still disrupted. Service was reestablished in San Juan, Fajardo, Ceiba, Caguas, and Mayaguez. Currently, 96 of 1,619 telecommunications towers are operational.

## PUBLIC AFFAIRS

The PIO is Elias Rodriguez, who can be reached at 212-637-3664. The Assistant PIOs are Tayler Covington, who can be reached at 212-637-3662 and Pat Seppi, who can be reached at 646-369-0068. All press inquiries are being managed through the Office of Public Affairs.

OPA issued a Maria update news release on September 28, 2017: "EPA Hurricane Maria Update for Thursday, September 28". OPA issued a news release on September 27 "EPA Exercises Enforcement Discretion for Mobile Power Generators Imported for Use in Puerto Rico and the U.S. Virgin Islands". We continue to provide all Region 2 staff with relevant Maria news clips and EPA news releases.

The response web site www.epa.gov/hurricane-maria is being updated daily by the HQ EOC and Region 2 PIO.

Community Involvement: The PIO and PAD management have identified PIOs, bi-lingual Community Involvement Coordinators and community relations support for the USVI and Puerto Rico assessment and cleanup teams. A PIO is planning to deploy to Puerto Rico on

Monday, October 2. We are continuing to identify personnel and options for deployment of additional CICs and PIOs through October to support ground and REOC operations.

**Region 2 – Hurricane Irma Management Objectives**

- Protect the health and safety of EPA employees.
- Implement a re-position plan to address communications schedules, employee location information, rallying points, and a cellular and satellite communication plan.
- Coordinate with FEMA on the re-position and remobilization of EPA responders.
- Implement a re-mobilization plan.
- Minimize social, political, and economic adverse impacts.
- Maintain communication and briefing schedule with R2 senior executives and EPA Headquarters. Support a consistent communications approach agency-wide, enabling EPA to act and speak in unison during these incidents.
- Provide situation reports and other information on schedule provided by RIC.
- Provide guidance for length of work day and deployments as it pertains to this specific event.
- Coordinate logistics with deployed personnel to provide transportation options, lodging, security, ground transportation on site.
- Identify clearly defined roles for both Regions and Headquarters.
- Identify long-term recovery objectives the Agency may be requested to support, and determine resources needed to support/sustain those requests to accomplish the objectives.
- Secure NPL and removal sites. Regulated facilities and Superfund and oil sites will be surveyed post storm fall
- Identify vulnerabilities at regulated facilities
- Address any immediate hazardous substance releases or oil spills resulting from the storm's impact
- Assist state and local agencies in ensuring safety of drinking water systems.
- Monitor air quality when/if necessary in response to conditions on the ground.
- Provide guidance for length of work day and deployments as it pertains to this specific event
- Coordinate logistics with deployed personnel to provide transportation options, lodging, security, ground transportation on site;
- Coordinate national resources to assist the Region;
- Identify clearly defined roles for both Regions and Headquarters;
- The response will use the Region's incident specific Data Management Plan (DMP);
- In collecting, sharing, and analyzing environmental data, EPA will give primacy to data with potential human health consequences;
- EPA will work to ensure that its decision-makers have access to the data and expertise they need to make decisions based on sound science.

**DEBRIS RECOVERY**

**Puerto Rico Debris Mission**

- EPA met DNER and EQB to discuss agencies needs and coordinate integration with

their established task forces (Geology, Facilities and Equipment, Logistics, Employee Needs, Legal, Generators, Waste and Debris Management, and Biology.

- EPA met with FEMA, USACE, EQB, SWMA, and private contractors to discuss establishment of 6 regional debris collection and processing centers. Contractors propose to separate and manage clean vegetative materials, mixed wastes, construction and debris, wet debris, and household hazardous waste. They are proposing to use thermal reduction system (box burners) in one of the centers and are requesting a waiver from EQB.

**USVI Debris Mission.**

- FEMA EOC in STX has requested that EPA take part in daily Debris Management meetings. EPA will advise on air monitoring and/or sampling protocols associated with the burning of debris. However, no decision has been made on whether there will be burn operations. FEMA STX has also indicated that EPA may be requested to assist with medical waste issues resulting from the re-establishment of medical facilities on STX and STT.

## AIR MONITORING

**Puerto Rico.** EQB is planning to conduct an assessment on the conditions of the ambient air monitoring network. The network was taken offline prior to Hurricane Maria landfall. There is no update or information on the status or damages. They will staff an assessment team once their employees are able to return to the office.

## EMERGENCY RESPONSE

**Daily/Cumulative Summary of Hazard Evaluations/Recovery**

| Status | Opened | | Closed | |
|---|---|---|---|---|
| | 9/27/2017 | Cumulative | 9/27/2017 | Cumulative |
| Puerto Rico | 0 | 0 | 0 | 0 |
| U.S. Virgin Islands | 0 | 2 | 0 | 2 |

Note: Open means that the target is yet to be recovered. Closed means the target was recovered, left in place, or access was denied to collect the item. The facilities on the USVI are associated with the request for mold assessment of the STT airport tower and the current oil spill at Total.

**Daily/Cumulative Summary of Spills/Discharges**

| Status | Opened | | Closed | |
|---|---|---|---|---|
| | 9/27/2017 | Cumulative | 9/27/2017 | Cumulative |
| Puerto Rico | 0 | 3 | 0 | 3 |
| U.S. Virgin Islands | 0 | 1 | 0 | 1 |

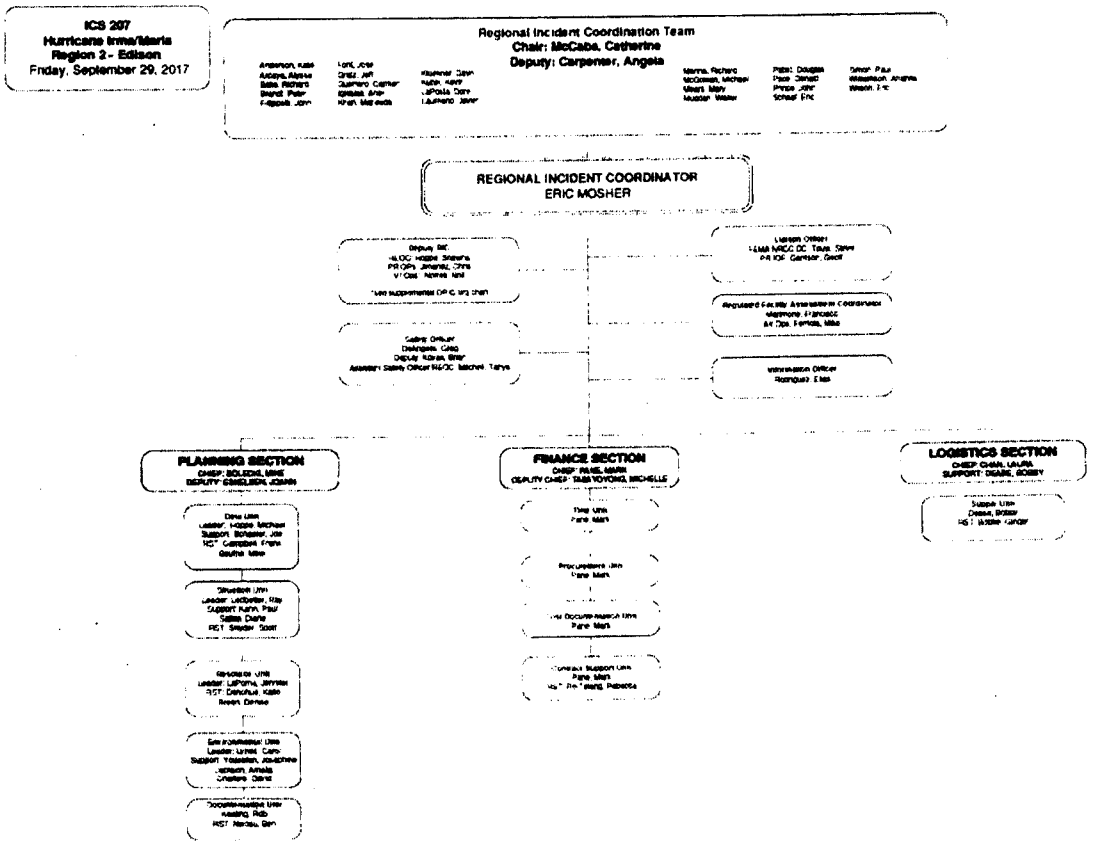
## SUPERFUND NPL, SUPERFUND REMOVAL, AND OIL REMOVAL SITES

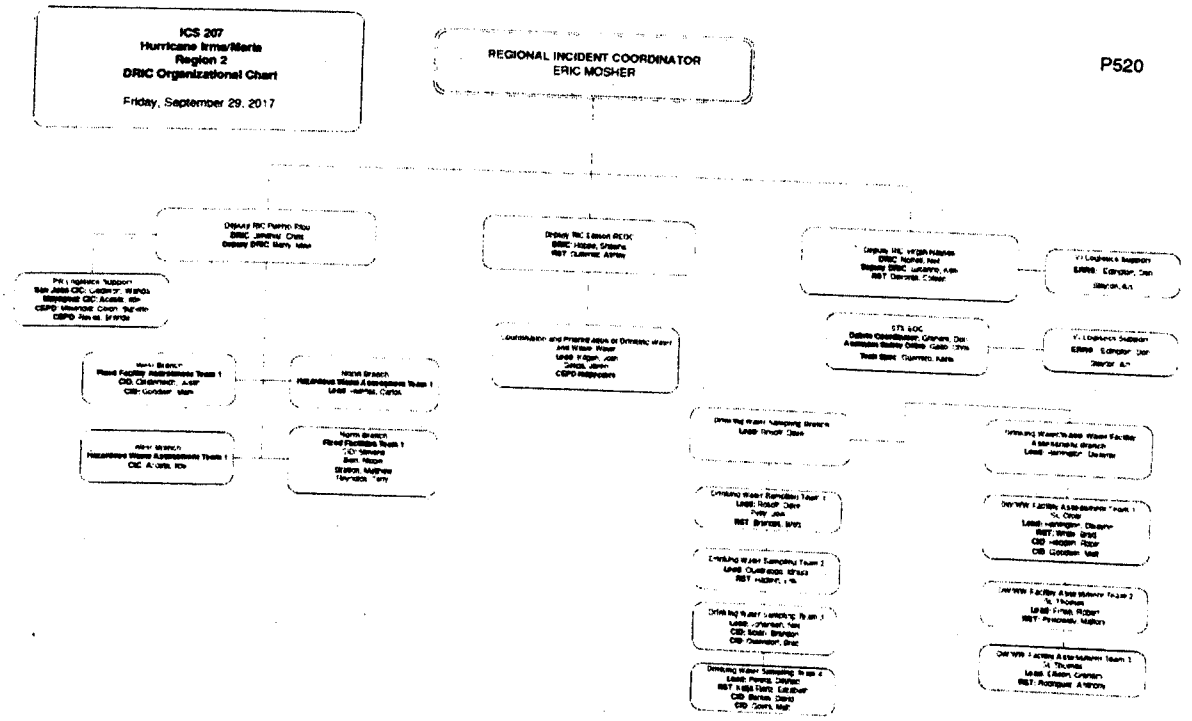
There are a total of 23 Superfund/OPA Sites (20 in PR, 3 in USVI). The REOC and ERRD determined that Papelera, Vega Baja, Juncos, Vega Alta, and Upjohn be first priority. EPA personnel began assessments of the prioritized Sites 9/28.

| SUPERFUND SITES (NPL, Removal and Oil) | | | | | | |
|---|---|---|---|---|---|---|
| Puerto Rico | | | | | | |
| Site | Type | Phase 1 | Phase 2 | | Phase 3 | All Phases Completed |
| | | Post-Storm Assessment | Site Inspection Needed | Inspected | Additional Response Action | |
| Atlantic Fleet Weapons | NPL | | | | | |
| Juncos Landfill | NPL | | | | | |
| Upjohn Facility | NPL | | | | | |
| Arecibo Battery Recycling Corp. | Removal & NPL* | 09/22/2017 | N | 09/22/2017 | N | 09/22/2017 |
| Corozal Battery | Removal & NPL* | 09/24/2017 | N | 09/24/2017 | N | 09/24/2017 |
| Cabo Rojo Groundwater | NPL | | | | | |
| Cidra Groundwater | NPL | | | | | |
| Dorado Groundwater | NPL | | | | | |
| Fibers Public Supply Wells | NPL | | | | | |
| Hormigas Groundwater | NPL | | | | | |
| Maunabo Urbano Public Wells | NPL | | | | | |
| Papelera Puertoriquena, Inc. | NPL | | | | | |
| Pesticide Warehouse 1 | NPL | | | | | |
| Pesticide Warehouse III | NPL | | | | | |
| San German Groundwater | NPL | | | | | |
| Scorpio Recycling | NPL | | | | | |
| Vega Alta Public Supply Wells | NPL | | | | | |
| Vega Baja Solid Waste Disposal | NPL | | | | | |
| Guayanilla Bay Oil Spill | Oil Response | | | | | |
| Puma Caribe (CAPECO) | Oil Response | 09/21/2017 | N | 09/25/2017 | N | 09/25/2017 |
| U.S. VIRGIN ISLANDS | | | | | | |
| TUTU Well Field | NPL | ? | | | | |
| Crum Bay Oil Spill at WAPA Facility | Oil Response | | | | | |
| Cruz Bay Oil Tank | Oil Response | | | | | |

* These are Sites that have both, a Removal and Remedial program action. Only one assessment will be conducted per Site.

## REGION 2 RESPONSE ORGANIZATION (ICS 207)


ICS 207
Hurricane Irma/Maria
Region 2 - Edison
Friday, September 29, 2017
Regional Incident Coordination Team
Chair: McCabe, Catherine
Deputy: Carpenter, Angela
REGIONAL INCIDENT COORDINATOR
ERIC MOSHER
PLANNING SECTION
FINANCE SECTION
LOGISTICS SECTION




## FIELD RESPONSE ACTIVITIES

## PUERTO RICO

- Assessment teams comprised of OSCs, technical assistance contractors, and public affairs personnel are preparing to re-deploy to Puerto Rico in accordance with our EPA Region 2 Mobilization and Resource Plan the target date to be on PR is 10/1.

- On 9/28 a meeting was held at the FEMA IOF/PREMA EOC to initiate planning and coordination relating to the Water & Waste Water response needs of PR. Present at the meeting were, PRASA, EPA, USACE, and FEMA. Main highlights discussed during the meeting:

    - PRASA, EPA, USACE and FEMA will share information about efforts/missions to prevent duplication of efforts and avoid gaps.
    - PRASA owns 35% of the island's public water systems, which serves 96% of the population. The other 65% water systems are Non-PRASA owned and serve 4% of the population.
    - PRASA has not been able to access all facilities to assess infrastructure damages, due to road blockages and communication challenges.
    - PRASA and EPA are coordinating waste water treatment plant visits and making assessments for damages and prioritization.
    - EPA is also aiding PRASA with several collapsed sanitary main sewer pipes and the necessary measures to be taken to comply with environmental regulations.
    - PRASA has contracted 5 Lead Contractors to also assess damages and provide

cost estimate for temporary and permanent repairs.
  - PRASA's main challenge to provide potable water is to have a consistent diesel fuel supply to energize their pumping stations.

- Available CEPD Staff are coordinating with the response command structure to provide support in other assessments, such as chemical and oil facilities, NPL, and removal sites.

- An assessment was conducted of he Corozal Battery NPL site. The explosion at Techno Gas did not impacted the Corozal NPL Site. The filtration system is off-line since the generator does not have fuel. EPA is arranging for the delivery of fuel. Drinking water not available until fuel is provided on 9/29.

- CEPD DW and WW section conducted assessments at 7 PRASA WWTP facilities. Additionally, an assessment was conducted at the Buckeye Partners facility in Yabucoa.

- EPA has received several requests for DW/WW analytical and assessment and sampling support from USACE, PRASA, and PRDOH. REOC and IOF staff are preparing supporting documentation to support the eventual Mission Assignment that will cover all of these requests.

- Assessment teams made up of OSCs, RPMs, technical assistance contractors, public affairs officers, and security personnel will be deploying to Puerto Rico on October 1 to both the San Juan and Mayaguez areas.

- Two OSCs are at the FEMA IOF in San Juan and two CICs based out of San Juan assisting with pre-deployment logistics and outreach.

- One CIC based in the west part of the island continues to communicate with Mayaguez OEM to determine perspective areas of assessment in the municipality.

- FEMA has moved its base of operations from IOF in Caguas to the 3rd floor of the Sheraton Convention Center in San Juan, near the Coast Guard base. The IOF and all other FEMA and PREMA ops will be located there as part of a joint operations center. EPA is staffing the ESF #10 desk daily.

**U.S. VIRGIN ISLANDS**

- The 18 personnel in Atlanta were placed on a flight to STX on 9/28 and arrived safely in STX.

- EPA is still working to procure a contract with Ocean Systems for sampling and lab analysis on STX, STT, and STJ. The Ocean Systems lab on STT is functioning under generator power. The Ocean Systems lab on STX is not operational due to lack of power, EPA has requested and is waiting for FEMA to provide a generator for this facility. Until a generator secured for the STX lab, EPA will continue to analyze the collected water samples on STX utilizing a Colilert field test kit for the

presence/absence of bacteria.

- In addition to the above, EPA conducted the following activities:
    - EPA met with ESF 3 and ESF 12 to provide the Wastewater status report for the Territory.
    - EPA continues to coordinate with DPNR to develop and maintain the list of priority drinking water systems to be assessed and sampled in the Territory.
    - In coordination with DPNR, notify and conduct follow-up site visits/inspections of drinking water systems that tested positive for E. Coli. Ensure disinfection and/or other mitigation is taking place.
    - Conducted assessment and sampling at 17 drinking water systems

- At the request of the Deputy FCO EPA prepared a status and needs report on the USVI's Wastewater systems – all islands. This report was prepared based on discussions with key DPNR and VIWMA staff.

- In coordination with EPA, DPNR notified and conducted follow-up site visits/inspections of drinking water systems that tested positive for E. Coli on 9/25/17. Disinfection of the systems was conducted by the proprietor:
    - St. Croix Mutual Homes #36 and #44/45 – cistern being used was chlorinated
    - Louis E. Brown Apartments – Facility switched to WAPA water

- Results from 9/26/17 Drinking Water Sampling indicated the following drinking water systems were positive for E. Coli (all are cistern based systems at the moment):
    - Herbert Grigg Home IC (community system) – Currently being used as a shelter
    - Herbert Grigg Home LTC (community system) – currently being used as a shelter
    - St. Croix Educational Complex (non-transient/non-community system) - currently being used as a shelter
    - Lutheran Social Services Flamboyant Bldg. E (community system)
    - Lutheran Social Services Flamboyant Bldg. F (community system)
    - Lutheran Social Services Flamboyant Bldg. I (community system)
    - Lutheran Social Services Flamboyant Bldg. G (community system)
    - Lutheran Social Services Flamboyant Bldg. J (community system)

  EPA is coordinating with DPNR to notify the proprietors of the affected systems and conduct disinfection of the systems.

- EPA collected drinking water samples from 12 public water systems on 9/27 including:
    - Aqua Mist (bottle water vendor)
    - Association of St. Croix (community system)
    - Fort Louise Augusta (community system)
    - Peter's Farm Condominium (community system)
    - Questa Verde, Bldg. D (community system)
    - Questa Verde, Bldg. F (community system)

- Questa Verde, Bldgs. M/N (community system)
- Questa Verde, Bldg. K/L (community system)
- Blue Mountain (bottle water vendor)
- Rain Maker at Cost-U-Less (water vending machine)
- Rain Maker at Seaside Market (water vending machine)
- Divi Carina Bay Resort (non-transient/non-community system)

- EPA used Colilert to analyze these 12 samples with results due 9/29

- EPA in coordination with VIWMA contacted several of the waste water facilities on all three islands to determine the current status of the facility. The report will be used for prioritization for field assessments and providing critical resources to the facilities. Most of the facilities are currently running on generator power. Fuel is becoming an issue on the islands and the majority of the facilities on generator power may not be able to sustain operations due to lack of fuel.

- STX Waste Water
  - The main treatment station located at the airport is operating on primary power. No critical needs at this time.
  - 2 main feeders need a generator for power, 1 feeder has a generator
  - 3 lift stations are bypassing due to no power. All need a generator

- STT Waste Water
  - 4 pump stations are currently bypassing to residential streets due to no power. All need a generator.
  - 1 pump station is operating on generator power
  - 3 WWTP are currently operating on generator power
  - 1 WWTP is having issues with their clarifier

- STJ Waste Water
  - 3 facilities operating on generator power
  - 3 facilities not operational due to no power. All need a generator.

- Currently no commercial air traffic is allowed into or out of the USVI. This is making transport of personnel and equipment needed to support the missions assigned and requested of EPA challenging. Requests for transport of personnel and equipment have been made through the proper channels at the NRCC.

- Large quantities of Clorox are needed to disinfect the contaminated cisterns. Working this logistics issue through FEMA and U.S. Coast Guard for transport and delivery options.

## REGION 2 REGIONAL EMERGENCY OPERATIONS CENTER (REOC)

- EPA personnel have conducted preliminary assessments at two Superfund and one Oil Response Sites. The REOC is working with the ERRD on prioritization of the

Sites. EPA personnel began assessments of the prioritized Sites 9/28.

## EMERGENCY RESPONSE

| Daily/Cumulative Summary of Hazard Evaluations/Recovery for Hurricane Maria | | | | |
|---|---|---|---|---|
| Status | Opened | | Closed | |
| | 9/28/2017 | Cumulative | 9/28/2017 | Cumulative |
| Puerto Rico | 0 | 0 | 0 | 0 |
| U.S. Virgin Islands | 0 | 0 | 0 | 0 |
| Note: Open means that the target is yet to be recovered. Closed means the target was recovered, left in place, or access was denied to collect the item. | | | | |

## PUERTO RICO

| | CONTAINERS | | | TOTAL |
|---|---|---|---|---|
| | Drums (55 Gals) | Large Containers (<55 gals) | Large Containers (>55 gals) | |
| 9/28/2017 | 0 | 0 | 0 | 0 |
| Total to Date | 0 | 0 | 0 | 0 |

## U.S. VIRGIN ISLANDS

| | CONTAINERS | | | TOTAL |
|---|---|---|---|---|
| | Drums (55 Gals) | Large Containers (<55 gals) | Large Containers (>55 gals) | |
| 9/28/2017 | 0 | 0 | 0 | 0 |
| Total to Date | 0 | 0 | 0 | 0 |

## SPILL/RELEASE RESPONSE

Hotline Calls as of September 28, 2017

| | |
|---|---|
| **Number of Maria Related Calls Received During Reporting Period** | 1 |
| **Total Number of Maria Related Calls to Date** | 5 |
| *** EPA is assessing each call through the NRC to determine appropriate response and forwarding reports to field personnel to conduct further assessments and response as needed.** | |

- Discovered a downed transformer, not an uncommon sight in STX. However, this one was actively leaking. EPA and DPNR following up with the manager of the hotel Sand Castle on the Beach, 127 Smithfield in Fredericksted where the transformer was discovered.

## AGENCY COORDINATION

Region 2 has one rep to staff the ESF-10 desk in the FEMA NRCC in Washington D.C. EPA has an OSC in the VITEMA/FEMA EOC bunker in St. Croix.

Environmental Response Management Application (ERMA). NOAA supports a ERMA viewer for both EPA Region 2 and the U.S Coast Guard. Aerial photos are available through the following link.

https://erma.noaa.gov/caribbean/erma.html#/layers=3+36619+36620+36611+36618&x=-65.62791&y=18.14726&z=9&panel=layer

**U. S. Coast Guard Air/Flight Support**. EPA Air/Flight Support will coordinate through USCG Seventh District Miami office resources unit for both Clearwater and Miami USCG air stations. Currently there is one flight/day to SJU from Miami. EPA is seeking an opportunity to move water and hazmat/oil teams into the U.S. Caribbean. EPA will submit requests for transportation as part of the ongoing queue.

## DRINKING WATER / WASTEWATER

### Puerto Rico

| Drinking Water and Wastewater Assessments (September 28, 2017) | | |
|---|---|---|
| **Assessment Types** | **Daily Assessments** | **Total Assessments** |
| On-Site DW Assessments | 0 | 0 |
| On-Site WW Assessments | 0 | 0 |

### U.S. Virgin Islands

| Drinking Water and Wastewater Assessments (September 28, 2017) | | |
|---|---|---|
| **Assessment Types** | **Daily Assessments** | **Total Assessments** |
| On-Site DW Assessments | 8 | 19 |
| On-Site WW Assessments | 0 | 0 |

**Puerto Rico Drinking Water Status:**

CEPD and CWD have continued phone calling on the 300 non-PRASA drinking water facilities; however, as many of the facilities are remote, contact has yet to be made with a facility. Voice messages have been left.

CEPD began DW facility assessments on 9/27, with a plan to assess three DW facilities on 9/28.

PRASA has reported that 45% of their clients now have access to drinking water; 55% remain without water.

**Puerto Rico Wastewater Status:**

Most PRASA WW facilities are not operational, and some that are need more fuel to power generators.

CEPD began PRASA WW facility assessments on 9/26, with 4-6 facilities per day. CEPD expects to assess more facilities on 9/28.

**USVI Drinking Water Status:**

EPA SDWA order expires on 10/8/17. FEMA has selected tentative locations for the Reverse Osmosis (RO) units, but treatment has not started.

Per the VIWAPA website, the DW system is gaining additional storage on all three islands:

VIWAPA is building additional storage on all three islands slowly. St. John has four days of emergency storage, St. Thomas three days, and St. Croix three days.

The Concordia potable water pump station on St. Croix is on line. Overnight, the Kingshill tank should begin to build storage and the west end of the island should begin to receive potable water service.

**USVI Wastewater Status:**

Nothing to report.

**REGULATED FACILITIES**

**Puerto Rico**

| Facility Type | Sites Identified | Pre-Storm Remote Assessment | Post Storm Remote Assessment | Post Storm Field Assessment | Follow-up Action Required |
|---|---|---|---|---|---|
| RMP | 56 | 56* | 44^ | 0 | 0 |
| FRP | 22 | 22* | 10^ | 0 | 0 |

| | | | | | |
|---|---|---|---|---|---|
| SPCC (non-FRP) | 232# | 232#* | 4^ | 0 | 0 |
| Total | 310# | 310# | 58^ | 0 | 0 |
| * Pre-Hurricane email requested facilities to self-identify any pre-existing compromised conditions (construction at process areas, tank maintenance, etc.). No facilities reported pre-existing compromised conditions. | | | | | |
| ^ Based on Post-Hurricane oil spill/chemical release/damage assessment email and phone calls. | | | | | |
| # There is no SPCC submission or de-registration requirement. This number reflects the number of known non-FRP SPCC facilities indicated as "active" in the Oil Database. | | | | | |

**U.S. Virgin Islands**

| Facility Type | Sites Identified | Pre-Storm Assessment | Post Storm Assessment | Post Storm Field Assessment | Follow-up Action Required |
|---|---|---|---|---|---|
| RMP | 1 | 1* | 1^ | 0 | 0 |
| FRP | 6 | 6* | 4^ | 0 | 0 |
| SPCC (non-FRP) | 57# | 57#* | 1^ | 0 | 0 |
| Total | 64# | 64# | 6^ | 0 | 0 |
| * Pre-Hurricane email requested facilities to self-identify any pre-existing compromised conditions (construction at process areas, tank maintenance, etc.). No facilities reported pre-existing compromised conditions. | | | | | |
| ^ Based on Post-Hurricane oil spill/chemical release/damage assessment email and phone calls. | | | | | |
| # There is no SPCC submission no de-registration requirement. This number reflects the number of known non-FRP SPCC facilities indicated as "active" in the Oil Database. | | | | | |

The RFT is continuing efforts to directly contact significant RMP, FRP, and SPCC companies that have not yet responded to the post-storm assessment via email or by phone. Several significant RMP, FRP, and SPCC companies in PR and the USVI, such as Puma, PRASA, Total, and WAPA have preliminarily reported no damage to oil, chemical, or flammable operations.

The RFT, in coordination with the Regional Emergency Operations Center (REOC), continues to provide effective compliance assistance to facilities that experienced spills/releases, potential spills/releases, and lost containers. The RFT is providing compliance assistance to seven RMP, FRP, and/or SPCC facilities that have reported minor spills or releases (Buckeye Yabucoa, Cervecera de Puerto Rico, PREPA San Juan, PREPA Cambalache, PREPA distribution and transmission system, Puerto Rico Institute of Forensic Sciences, and Limetree Bay Holdings). Compliance assistance efforts are coordinated with the Regional Emergency Operations Center. Information obtained by the RFT regarding these spill/releases have been shared with Operations for upcoming on-site evaluation by field assessment teams. The RFT will remain in contact with these facilities until their spills/releases are resolved.

The RFT is assisting Operations and the Data Team by providing updated RMP, FRP, and SPCC targeting information for upcoming field assessments. Additionally, the RFT is using various EPA databases to provide regulatory history and other facility-specific information when requested.

The Regulated Facility Assessment Coordinator (RFAC) continues to coordinate damage assessment and field assessment referral information with other R2 inspection programs working in UST, Federal Facilities, RCRA, CAA, and NPDES. The UST program remains in-touch with DPNR and EQB UST program managers, and continues to provide updates on gas stations in the USVI and PR. The Federal Facilities Coordinator has been following up with federal facilities in PR and the USVI, and is periodically updating the RFAC as appropriate.

## EPA RESOURCES AS OF 9/28/2017

| Personnel | EPA Edison, NJ NYC San Juan, PR^ | FEMA NRCC, DC | Puerto Rico Deployments* | USVI Deployments* | Totals |
|---|---|---|---|---|---|
| EPA | 69 | 1 | 21 | 18 | 109 |
| START/ RST | 12 | 0 | 1 | 6 | 19 |
| ERRS | 7 | 0 | 0 | 2 | 9 |
| Other Contractors | 0 | 0 | 0 | 0 | 0 |
| Totals | 88 | 1 | 22 | 26 | 137 |

^Number includes personnel in the REOC, RICT, and CEPD personnel that are working the response.
*Number includes personnel working at coordination centers and EPA Regional offices.

## LONG RANGE PLANNING

- **Hurricane Irma Recovery Update.** In terms of recovery Mission Assignments (MAs), Region 2 is working with FEMA on developing a short term (30 day) Recovery MA for Hurricanes Irma and Maria. Since the NDRF has not yet been activated, the first MA will be supported by the National Response Coordination Center (NRCC) authority to pre-stage RSF coordinators and partners for the initial data gathering and recovery planning work.

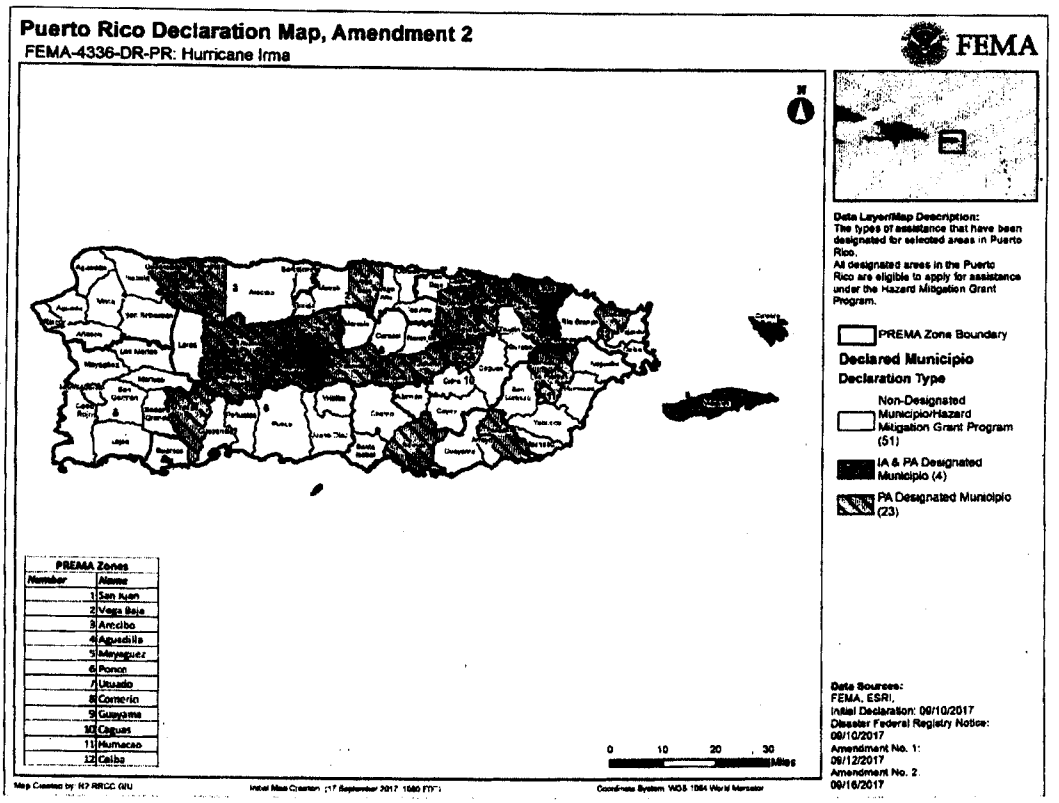
## DECLARATIONS FOR HURRICANE IRMA

**Puerto Rico.**

Emergency Declaration FEMA-3384-EM effective September 5. Assistance is for all 78 municipalities in the Commonwealth of PR. The Governor of Puerto Rico requested a disaster declaration 9/8.

Disaster Declaration FEMA-4336-DR effective September 9. Declared areas only include Culebra and Vieques. On 9/13 ten additional municipalities in Puerto Rico were added to the major declaration, and are now eligible for work under any DFA MA's that we receive. The municipalities are: Adjuntas, Canovanas, Carolina, Guaynabo, Juncos, Loiza, Luquillo, Orocovis, Patillas, and Utuado.

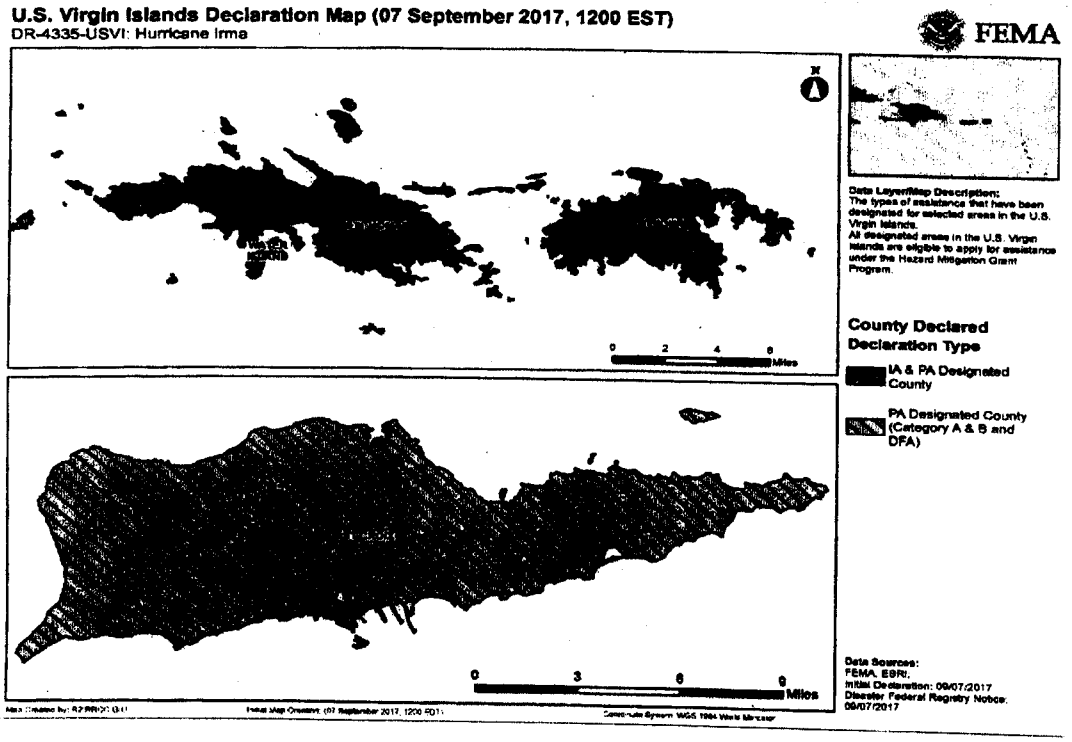
On 9/15, fifteen additional municipalities were added to the major declaration and are now eligible for Public Assistance. The municipalities are: Aguas Buenas, Barranquitas, Bayamón, Camuy, Cataño, Ciales, Comerío, Hatillo, Jayuya, Las Piedras, Quebradillas, Salinas, San Juan, Vega Baja, and Yauco.




## U.S. Virgin Islands.

Disaster Declaration FEMA-4335-DR effective September 7, 2017. St. Thomas and St. John approved for Individual Assistance, all islands eligible for Public Assistance and the Hazard Mitigation Grant Program.

Emergency Declaration FEMA-3383-EM effective September 5. Assistance is for all islands in the Territory of the USVI.



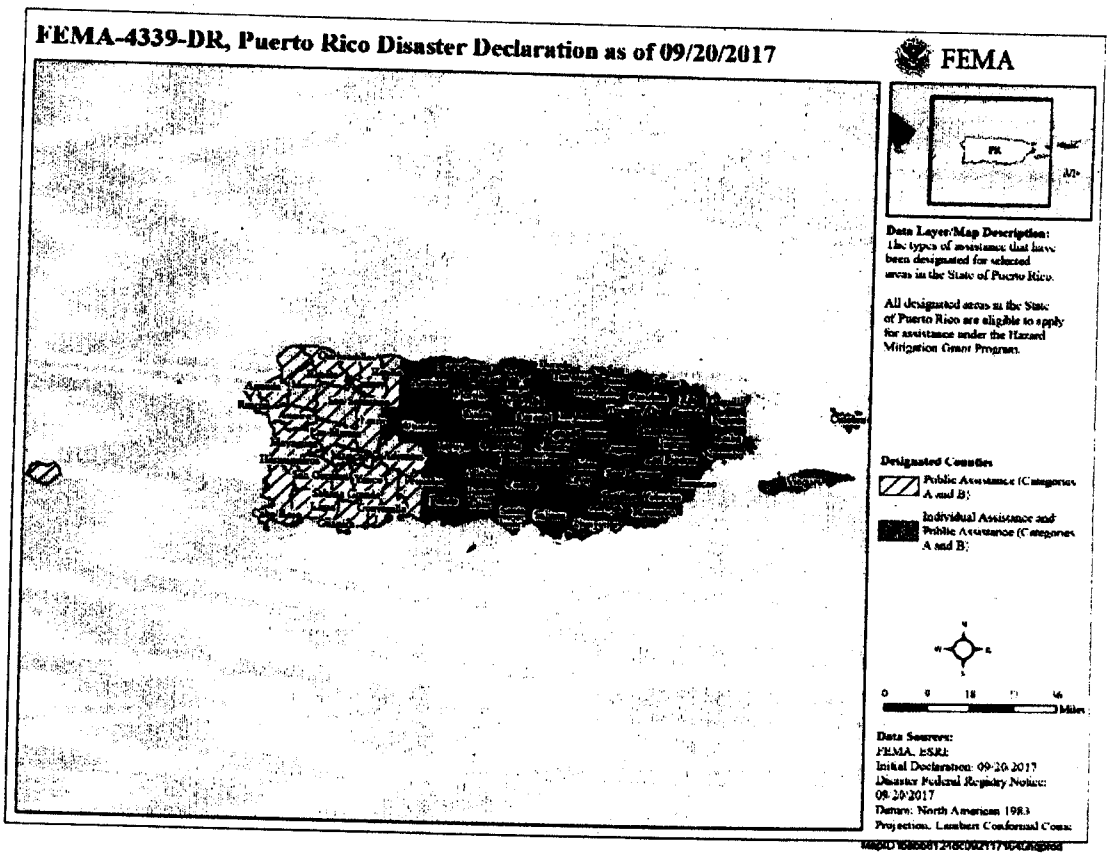

## DECLARATIONS FOR HURRICANE MARIA

**Puerto Rico.**

Emergency Declaration. The President has signed Emergency Declaration FEMA-3391-EM for Puerto Rico.

On 9/20, The President has signed a Disaster Declaration FEMA-4339-DR for Puerto Rico.

The White House initial statement covers 54 municipalities. The municipalities included in the disaster declaration are: Aguas Buenas, Aibonito, Arecibo, Arroyo, Barceloneta, Barranquitas, Bayamón, Caguas , Canóvanas, Carolina, Cataño, Cayey, Ceiba, Ciales, Cidra, Coamo, Comerio, Corozal, Culebra, Dorado, Fajardo, Florida, Guayama, Guaynabo, Gurabo, Humacao, Jayuya, Juana Díaz, Juncos, Las Piedras, Loíza, Luquillo, Manati, Maunabo, Morovis, Naguabo, Naranjito, Orocovis, Patillas, Ponce, Rio Grande, Salinas, San Juan, San Lorenzo, Santa Isabel, Toa Baja, Toa Alta, Trujillo Alto, Utuado, Vega Alta, Vega Baja, Vieques, Villalba, Yabucoa.




**U.S. Virgin Islands.**

Emergency Declaration. The President has signed Emergency Declaration FEMA-3390-EM for the Territory of the U.S. Virgin Islands for Hurricane Maria.

On 9/20, The President has signed a Disaster Declaration FEMA-4340-DR for the Territory of the U.S. Virgin Islands for Hurricane Maria.

## FUNDING FOR IRMA AND MARIA

| Mission Assignment Number | Purpose | Start Date | End Date | Total Amount | Indirect Costs | Amt. Available | Daily Burn Rate | Used | Balance |
|---|---|---|---|---|---|---|---|---|---|
| 4335DR-VI-EPA-01 (X06) | EPA to FEMA R2 RRCC (Colts Neck, NJ) and FEMA NRCC (Washington, DC) | 09/07/17 | 10/07/17 | $100,000 | $10,466 | $89,534 | $1,500 | $42,860 | $46,674 |
| 4335DR-VI-EPA-06 (X12) | EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA & NRA Teams and other | 09/02/17 | 10/13/17 | $2,000,000 | $209,329 | $1,790,671 | $50,000 | $853,570 | $937,101 |

Hurricane Harvey 2017
9/29/2017 – 0700 CDT Update

***Updates will be issued on Tuesdays and Fridays going forward. The next update will be issued Tuesday, October 3, 2017.***

## EXECUTIVE SUMMARY

- EPA received preliminary data from sediment samples collected by EPA's dive team from fourteen areas at the San Jacinto River Waste Pits Superfund site. Samples from one of the fourteen areas confirmed the protective cap had been damaged and the underlying waste material was exposed. The sample showed dioxins at 70,000 ng/kg. EPA recommend clean up level for the site is 30 ng/kg. EPA is directing the potentially responsible parties to take immediate action to address damage to the protective cap and high-levels of underlying waste material found at one of the samples on site.

- The Houston Branch continues to consolidate orphan containers collected from the Corpus Christi, Houston and Beaumont Branches for proper disposal. Disposal is projected to be completed prior to the end of the Mission Assignment which is October 12, 2017.

- EPA has participated in over 200 joint site observations and expects to conclude its activities next week. EPA observers have reported that TCEQ is providing onsite compliance assistance and follow up visits to confirm compliance with permits. TCEQ plans to conduct site visits as long as approved debris staging areas are processing debris and transferring debris to landfills.

- An EPA Team from the Beaumont Branch continue monitoring the LD Construction Co. Oil Spill in Lumberton, Texas. The Responsible Party had a 22-man crew on site today conducting cleanup of oil-impacted residential properties. Operations today included removal and replacing oil impacted fence, soil, vegetation, and decontamination of personal property (boats, trailers, ATVs, etc.). Of the 10 impacted properties (including the responsible party's facility) four are completed, three are expected to be completed tomorrow, and 3 more need cleanup activities either started or completed later this week.

- On September 26, 2017, EPA Region 6 received a request from the Texas Water Development Board to waive the American Iron and Steel provision of the Drinking Water and Clean Water State Revolving Fund for eligible projects. The public interest waiver request from TWDB is posted for the required 15-day public comment period which closes on Oct 13, 2017.

- EPA Region 6 began discussions with Texas and Louisiana state partners to determine if additional funding is needed to assist with underground storage tanks that have damage resulting from Hurricane or Tropical Storm Harvey.

- EPA No Action Assurances for Texas expire before midnight tonight September 29, 2017. On September 15, EPA announced that it would exercise enforcement discretion for petroleum distribution facilities, gasoline storage facilities and bulk fuel terminals in Texas that had been impacted or damaged by Hurricane Harvey.

- Currently, EPA has 57 people assisting in response to this natural disaster.

## COMMUNITY LIAISONS

Community Liaison teams continue to provide information regarding returning to flooded areas and handling of house-hold waste in the counties of Harris, Liberty, Matagorda, Aransas, Refugio, Calhoun, Nueces, San Patricio, Chambers, Fort Bend, San Jacinto, Orange, Jefferson and Polk. The plan is for these teams to continue activities until October 6, 2017. The teams are listening to concerns from the community, associated with the recovery effort, and transferring this information back to County officials and, as appropriate, to ESF contacts in the Joint Field Office (JFO).

## DEBRIS OBSERVATIONS

Joint EPA and TCEQ field observation teams continue to observe debris staging and landfill operations within Brazoria, Harris, Jefferson, and Montgomery counties to ensure best practices and program requirements are being met. EPA observers visited 11 sites with TCEQ on September 28, 2017, and have participated in more than 200 joint site observations. FEMA reported that 175 debris sites have been approved. Currently, FEMA estimates total debris to be 30 million cubic yards. This is based upon 34 reports they received today. A federal Debris Management Taskforce has been established at the Joint Field Office (JFO) in Austin and EPA is a member of the Taskforce.

## ORPHAN CONTAINER & WASTE DISPOSAL OPERATIONS

| Items/Materials Processed for Disposal as of 9/28/17 | | | | | | |
|---|---|---|---|---|---|---|
| | **Drums [55gal]** | **Small Containers [< 55gal]** | **Large Containers [> 55gal]** | **Cylinders** | **Solid Waste/Roll Off Box** | **Total Scrap Metal Recycled (lbs)** |
| Total received at all Staging Pads | 475 | 450 | 43 | 120 | 5 | 5,000 |

| Processed for Disposal | | | | | | |
|---|---|---|---|---|---|---|
| Total processed for disposal | 453 | 408 | 35 | 71 | 5 | |
| Remaining to be Processed for Disposal | 22 | 42 | 8 | 49 | 0 | |
| **Percent Remaining** | **5%** | **9%** | **19%** | **41%** | **0%** | |

## FUNDING

**September 28, 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 Remaining | 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 | $81,128.00 | $81,128.00 | $161,613.00 | $161,613.00 | $2,032.00 | 79.53 |
| MA 4332DR-TX-EPA-04 | $3,301,270.60 | $2,914,000.00 | $2,077,672.00 | $911,398.00 | $836,328.00 | $2,002,602.00 | $119,312.65 | See Below |
| Totals: | $3,576,270.60 | $3,156,741.00 | $2,158,800.00 | $1,056,726.00 | $997,941.00 | $2,100,015.00 | | |
| Days remaining based on authorized direct ceiling minus total payroll, travel, and contracts EXPENDED | | | | | | | | 16.78 |
| Days Remaining based on authorized ceiling minus total payroll, travel, and contract OBLIGATIONS | | | | | | | | 8.36 |

| Funding Sources | Funding Ceiling | Funding Ceiling Less Indirect | Obligated to Date | Estimated Spent to Date | Unobligated Dollars Remaining | Estimated Unspent Dollars Remaining | Daily Burn Rate | Days Remaining |
|---|---|---|---|---|---|---|---|---|
| MA 4332DR-TX-EPA-03 (Expired) | $12,192,000.00 | $10,761,763.00 | $7,619,781.41 | $6,456,966.96 | $3,141,981.59 | $4,304,796.04 | Expired | Expired |

# October 2, 2017 - October 8, 2017

October 2017

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

November 2017

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | | |

## Monday, October 2

[redacted]

**12:00pm - 1:00pm Hurricanes Maria/Irma/Harvey: PCC Meeting and Conference Call** (Dial-In: 866-299-3188;Participant Code: (b)(6) [redacted] - EOC_Deputy_Manager

**2:00pm - 2:30pm Sharon Weeks** (RA's Office) - Glenn, Trey

## Tuesday, October 3

[redacted]

**8:00am - 5:00pm MEETING MS** (GULFPORT, MS)

**9:15am - 10:45am Meeting staff, contractors and MDEQ official - MS Phosphates Tour Pre-Brief** (MS Phospates, Pascagoula MS)

**11:00am - 12:30pm Site Overview/Tour of MS Phosphates Facility**

**1:00pm - 2:30pm LUNCH**

**2:30pm - 3:30pm MEETING W/MAYOR**

**6:51pm - 8:28pm LV: Biloxi, MS via DL 1376 at 5:51 CST - AR: Atlanta, GA at 8:28pm EST**

## Wednesday, October 4

**10:00am - 10:30am BRIEF FOR OAKRIDGE CALL** (RA's Conf. Room ) - Glenn, Trey

[redacted] (b)(6)

**11:30am - 12:30pm Meeting w/Trey** (RA's Office or Conference Line 404-562-9997 Code (b)(6) [redacted] Glenn, Trey

[redacted]

**1:30pm - 1:45pm CFC RECORDING**

[redacted] (b)(6)

**3:00pm - 3:30pm Meeting w/ Trey** (RA's Office 404-562-9997 code (b)(6) [redacted] - Glenn, Trey

**4:30pm - 5:30pm ORD PILOT** (RA's Conference Room) - Glenn, Trey

## Thursday, October 5

[redacted] (b)(6)

**12:30pm - 1:00pm ARA DIVISIONAL MEETING** (9 D & E)

**2:00pm - 3:00pm Meeting with Alan Farmer** (RA's Office) - Glenn, Trey

[redacted] (b)(6)

[redacted] (b)(6)

**5:30pm - 6:30pm Meeting** (RA's Office) - Glenn, Trey

## Friday, October 6

**11:00am - 11:15am Call with Patrick Traylor (HQ)** (202-564-5238) - Glenn, Trey

**4:30pm - 5:00pm If possible, call Trey Glenn, R4 RA on his cell phone** (Dial: 404-623-7738) - Dravis, Samantha

## Saturday, October 7

## Sunday, October 8

National Biosurveillance Integration Center

*Office of Health Affairs*

# SPOT REPORT

## POTENTIAL IMPACT OF HURRICANES IRMA AND MARIA ON DISEASE TRANSMISSION IN THE U.S. VIRGIN ISLANDS AND PUERTO RICO

29 September 2017

FEDERAL EDITION

**Current Event Status (Undetermined)**

In September 2017, two Category 5 Hurricanes with record-breaking wind speeds heavily impacted the Caribbean Islands; especially Anguilla, Antigua and Barbuda, the Bahamas, Cuba, Dominica, Guadeloupe, Martinique, Puerto Rico, Saint Martin, Sint Maarten, and the British and U.S. Virgin Islands. Flooding and high winds have resulted in complications with water and food supplies, sanitation, infrastructure, electricity, medical care, and mosquito control. As a result of the aforementioned issues, there is concern about increased risk of disease transmission in the area. Additionally, many Federal agencies are deploying relief workers to the U.S. Virgin Islands and Puerto Rico, and the U.S. Government seeks to protect people from contracting infectious diseases during response efforts.

Worsening | No Change | Improving | Undetermined

**Why We Are Reporting on This Event**

Following impact from Hurricanes Irma and Maria, there is concern regarding a potential increase in transmission of infectious diseases in the Caribbean Islands, affecting both the general population and the U.S. Federal Government personnel deployed to aid in response efforts. NBIC is closely monitoring areas recently impacted by hurricanes in anticipation of potential infectious disease outbreaks.

## SITUATION OVERVIEW

On 12 September, the U.S. Centers for Disease Control and Prevention (CDC) issued a level 2 travel alert for the Caribbean; advising tourists to delay travel, and relief workers to practice enhanced precautions, especially against vector-borne diseases, including chikungunya, dengue and Zika viruses. Malaria is also of concern in Haiti and the Dominican Republic, but not in other hurricane-impacted islands where the disease has not circulated for decades.[1, 2] In Puerto Rico, specifically, locally-acquired cases of malaria have not been reported since 1955[3]. Humanitarian aid and disaster relief workers traveling overseas may be more exposed to circulating endemic diseases, and have less-secure lodgings compared to regular tourists, resulting in an increased health risk[4]. NBIC research identified the following specific infectious disease concerns for the impacted area, described in detail below.

### Infectious Disease Concerns

| Type | Example |
|---|---|
| Vaccine-Preventable Diseases | Routine vaccines, Cholera*, Hepatitis A, Hepatitis B, Influenza$, Rabies, Typhoid |
| Vector-Borne Diseases | [illegible] |
| Waterborne Diseases | Leptospirosis* |

*Figure 1: Diseases of risk to travelers visiting the U.S. Virgin Islands and Puerto Rico, according to the CDC. *=Listed as endemic, or potentially endemic in EBSCOHealth's GIDEON (Global Infectious Disease and Epidemiology Network), and/or associated with flooding and infrastructure. #=Some evidence of presence, no known human or animal outbreaks to date.*

## Vector-borne Diseases

### *Mosquito-borne Diseases*

Chikungunya, dengue, and Zika viruses are endemic in the U.S. Virgin Islands and Puerto Rico. The CDC advises individuals exposed to chikungunya, dengue, or Zika viruses to protect themselves against mosquito bites for up to three weeks post exposure to prevent further spread.[5] There is also some evidence of the presence of West Nile virus in Puerto Rico, particularly in animal populations, although noted outbreaks among human or animal populations have not been reported to date and it is not listed as a concern in the CDC's guidance noted above.[6,7]

Adult mosquitoes in the outdoors usually do not survive hurricane-force winds. Young mosquitoes are likely to be washed away by flood waters, causing a temporary drop in mosquito populations.[8] The debris and standing water left after a hurricane is likely to provide ample breeding grounds for surviving mosquitoes, meaning populations can spike within a few weeks of the event. [9] A study of dengue transmission after Hurricane Georges showed the risk of acquiring dengue among relief workers appeared to be low, likely as a result of protective factors[10]. Relief workers should take precautions to prevent mosquito bites.[11,12] Local residents can help control mosquito populations by removing breeding grounds.[13]

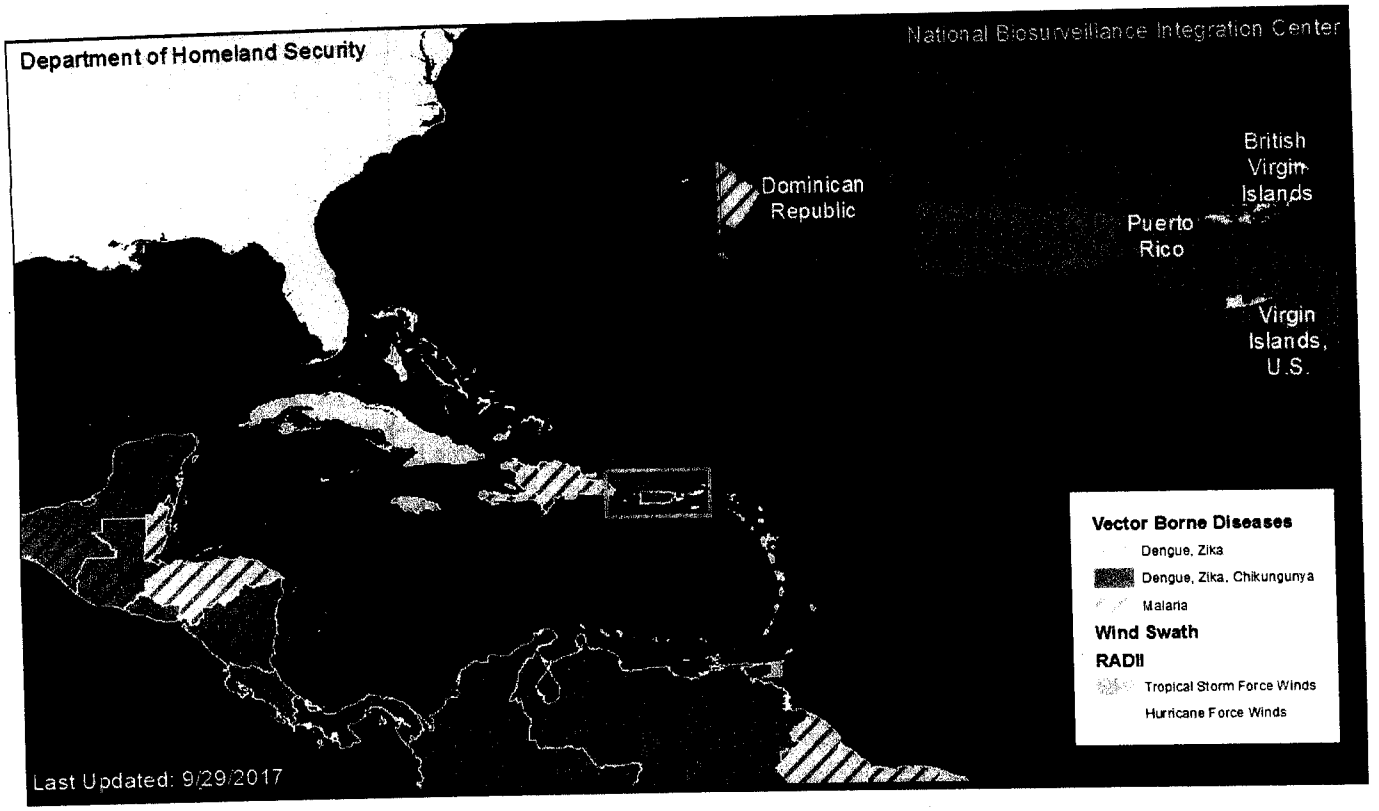



*Figure 2: Map of countries with sustained local dengue, chikungunya, Zika, and/or malaria transmission in the previous year. Data for dengue[14], chikungunya[15], and Zika[16] was obtained from the Pan American Health Organization (PAHO). Data for malaria was obtained from by the CDC[17]. Hurricane wind swaths provided by the National Oceanic and Atmospheric Administration (NOAA) National Hurricane Center[18].*

### *Tick-borne Diseases*

African tick-bite fever is caused by infection with *Rickettsia africae* bacteria. In the Caribbean, the bacteria is transmitted by *Amblyomma variegatum* ticks, which are usually most active from November through April.[19,20] Ruminants can serve as reservoirs of the bacteria. People working outside in wooded, brushy, or grassy areas are at higher risk of infection. *Amblyomma variegatum* ticks are not present in the continental United States.[21]

**Waterborne Diseases**

***Cholera***

Cholera is naturally occurring in fresh and brackish water. In the U.S. Virgin Islands and Puerto Rico, cholera was common in the 1800s, prior to the creation of modern water and sewage treatment systems. These areas have not recorded locally-acquired cases of cholera since the 1800s[22]. A study published in 1989 found *Vibrio cholera* bacteria in the Mameyes River, on the northeastern coast of Puerto Rico.[23] The study does not specify if the cholera recovered was toxigenic. Sporadic cases are currently reported among travelers to cholera-affected countries. Cholera outbreaks, however, are often associated with flooding and infrastructure damage, which allow for increased fecal contamination of water supplies.

A single-dose oral cholera vaccine is licensed and available in the U.S. The vaccine is recommended for travelers to an area of active cholera transmission, and not for those traveling to areas where sporadic cases have been reported[24].

***Leptospirosis***

Leptospirosis is a known occupational risk for people who work outside or with animals. The bacteria is spread through the urine of infected wild and domestic animals and can contaminate water or soil and survive there for weeks to months.[25,26] A study evaluating the risk of leptospirosis in Puerto Rico found an increased number of leptospirosis cases after Hurricane Hortense in 1966.[27] From 2000-2009, approximately 15-100 suspected human cases of leptospirosis were reported per year in Puerto Rico.[28] A seroprevalence study of leptospirosis in small ruminants on St. Croix in the U.S. Virgin Islands showed 26-32% seroprevalence, indicating the bacteria is still present on the island.[29]

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# Hurricane Irma/Hurricane Maria 2017
# 10/2/2017 – 1030 EDT Update

## EXECUTIVE SUMMARY

- CEPD – All CEPD personnel are accounted for and safe. (Thanks to the CID/NCERT agents that assisted CEPD locate our EPA employees.) However, the humanitarian crisis – particularly in Puerto Rico – is growing, as residents in more remote areas are lacking food, water and medicine. Several patients in hospitals have reportedly died because there was no electricity to power medical equipment. Overall command of the federal response is now with the military (Generals Richard Kim & Jeffrey Buchanan). The Army Corps of Engineers has been assigned the task of assisting PREPA to rebuild Puerto Rico's electric distribution system.

- The CEPD Guaynabo office building is running on generator power. Data and voice services and cell phone service is operating. The office will officially open on Monday, 10/2.

- The CEPD office in St. Thomas, USVI has been assessed and is in the same condition as post Hurricane Irma – some minor water damage and subsequent mold. EPA will follow up with GSA on the cleaning and air monitoring from the damage done by Irma.

- The CEPD office in Vieques, PR sustained minimal damage; it has generator power (though fuel supply is limited), but no water service. The STT and Vieques offices remain officially closed until further notice.

- The MA for an additional $25,000 on the initial activation in PR was received on 10/1.

- The list of berthing requests for EPA personnel scheduled to deploy to the USVI later during the week of 10/1 was submitted to FEMA.

- The Resource Request Forms (RRF) for the transportation of ERRS equipment to the VI, and the PR under the DW/WW MA are working their way through FEMA's WebEOC.

- Drinking and waste water assessment information provided by the REOC is being inputted to FEMA's SWEAT Model at the NRCC.

- EPA will pursue FEMA, U.S. Coast Guard, and commercial flights. We will continue to move personnel into the USVI and PR. Lodging on PR and USVI remains a challenge. We will continue to pursue berthing space on the various FEMA supported vessels arriving in PR and the USVI and commercial sources.

- Puerto Rico: **120 people** 20 people on 10/7 + 100 people on 10/15
- St Croix: **94 people** 26 people on 10/9 + 34 people on 10/14 + 34 people on 10/18
- St Thomas: **68 people** (34 people on 10/14 + 34 people on 10/18)

- Other Significant Concurrent Events.
  - New York City Marathon, 11/5/17, New York, NY
  - Macy's Thanksgiving Day Parade, 11/24-25/17, New York, NY

**PUERTO RICO / U.S. VIRGIN ISLANDS CONDITIONS**

**US Virgin Islands** (USVI):

- State of Emergency declared; National Guard activated.
- St. Thomas, St. John and Water Island: curfew is 6 PM -6 AM. St Croix: 6 PM. to 10 AM.
- Power Outages:
  - St. Thomas: 19,574 (99%)
  - St. John: 2,893 (100%)
  - St. Croix: 25,274 (90%)
- Public schools planning to open 10/9.
- Airports: St. Thomas: Open and receiving commercial aircraft. St. Croix open under special conditions (military flights and air carriers with less than 35 passengers)
- Ports:
  - St. Thomas Open: Charlotte Amalie, East Gregerie Channel, West Gregerie Channel (Crown Bay) Open with restrictions: Red Hook Bay
  - St. John Open with restrictions: Cruz Bay
  - St. Croix Open: Krause Lagoon, Limetree Bay, Frederiksted Closed: Christiansted

**Puerto Rico** (PR):

- **General.**
  - General Jeffrey Buchanan, DOD's primary military liaison with FEMA, toured Puerto Rico on Saturday indicated that "this is the worst I've ever seen". He said the worst problems are in the interior of the island. "And it's because of roads. The roads are not clear on the outside of the island, and we're slowly

working our way in. But we obviously need to get all roads cleared so we can get supplies to people who desperately need them".

- An emergency meeting was held yesterday regarding evacuation orders related to the conditions of the Guajataka Dam and flood potential due to rains. The mayors of Isabela and Quebradillas claim that the whole population of these municipalities do not need to be evacuated. They understand that the stability of the dam is not compromised, based on information from the USACE. There are evident differences between the central government and FEMA with the mayors of these municipalities on how to manage this situation.

- PROMESA Fiscal Board decided to withdraw its judicial claim to implement a furlough in the Government of Puerto Rico and is postponing all discussions related to this subject until the next fiscal year. The Board also requested support from US Congress and the Federal government in expediting its emergency response, aid, and recovery efforts to the island.

- PR Department of Education Secretary informed that public schools shall initiate classes on Monday October 16.

- More than 10,000 Federal workers are supporting emergency response in Puerto Rico.

- 10,201 residents currently living on government shelters

- **PREPA** – PREPA reports that **95%** of their clients are without service. PREPA Director and US Army Corps of Engineers Chief, General Todd Semonite, informed their plan to reestablish electricity in the island. It is divided in 4 phases that will be implemented simultaneously: (1) install temporary generators in priority areas; (2) assure power plants' generation; (3) repair of transmission lines, particularly those from south to northern Puerto Rico; and (4) repair of distribution system. They highlighted that the repair of the transmission and distribution system will be the most complicated task and will take time. USACE Chief was clear that there should be no expectation that energy service will be reestablished quickly. USACE Engineer Jose Sanchez will lead the efforts to reestablish electricity in Puerto Rico. PREPA Director informed that many sectors in southern and western Puerto Rico will start to be energized as the Aguirre and Costa Sur Power Plants are operational.

- **PRASA** – PRASA reports that **50%** of clients are without drinking water service.

- **Telecommunications** – Telecommunications Board reports that **67%** of telecommunications service is still disrupted. Service was reestablished from Dorado to Canóvanas, from San Juan to Caguas, Fajardo, Ceiba, Caguas, Mayaguez, Ponce, Arecibo, and Aguadilla.

- **Solid Waste Management** – Municipalities continue to report that large amounts of clandestine dumps have been established in their communities. They are concerned

with public health and environmental impacts.

- **Fuel Supply – 35%** of gasoline stations are still not operational. 714 of 1,100 gas stations are currently operational. New operational hours of gas stations have helped reduce long waiting lines that were experienced last week.

- **Airports –** Luis Munoz Marin International Airport is receiving **35** flights per day. Seven airports in Puerto Rico are now operational and one is closed. Governor informed that they expect to reach 60 daily flights this week. 11 of 12 airports open with restrictions; Mayaguez (MAZ) closed awaiting word from airport authority on re-open date.

- **Ports** – Four ports open: San Juan, Guayanilla, Salinas, Tallaboa. Six ports open with restrictions: Arecibo, Fajardo, Vieques, Culebra, Guayama, Mayaguez, Ponce, Yabucoa. Two ports closed: Guanica and Roosevelt Roads

- **Curfew** – Curfew hours in Puerto Rico are from 9:00 pm to 5:00 am. First responders and medical personnel exempt.

- **Roads** - Major state roads continue to reopen without exception in both directions; PR-2 is open from Ponce to San Juan on western side of the island.

- **Socioeconomic Issues –** Many municipalities continue to claim that aid is not reaching their communities, particularly food and water. This problem is particularly evident in the municipalities in the center of the island.

**PUBLIC AFFAIRS**

The PIO is Janie Acevedo, who can be reached at 469-222-7810. The Assistant PIO for Community Relations is Pat Seppi, who can be reached at 646-369-0068 and the Assistant PIO for Media Relations is Tayler Covington, who can be reached at 212-637-3662. All press inquiries are being managed through the Office of Public Affairs.

OPA did not issue a Maria update news release on October 1, 2017, but is planning to issue an update news release on October 2. We continue to provide all Region 2 staff with relevant Maria news clips and EPA news releases.

The response web site www.epa.gov/hurricane-maria is being updated daily by the Region 2 PIO and Assistant PIO for Media.

Community Involvement: Wanda Ayala has arrived in Puerto Rico and has been deployed with one of the assessment teams in the field. Additional bi-lingual Community Involvement Coordinators are positioned for deployment to Puerto Rico, as well as community relations support for the USVI assessment and cleanup teams. Elias Rodriguez is scheduled to deploy to Puerto Rico on Monday, October 2 and serve as EPA's PIO in the FEMA Joint Coordination Center in San Juan. We are continuing to identify personnel and options for deployment of additional CICs and PIOs through October to support ground and REOC operations.

**Region 2 – Hurricane Irma Management Objectives**

- Protect the health and safety of EPA employees.
- Implement a re-position plan to address communications schedules, employee location information, rallying points, and a cellular and satellite communication plan.
- Coordinate with FEMA on the re-position and remobilization of EPA responders.
- Implement a re-mobilization plan.
- Minimize social, political, and economic adverse impacts.
- Maintain communication and briefing schedule with R2 senior executives and EPA Headquarters. Support a consistent communications approach agency-wide, enabling EPA to act and speak in unison during these incidents.
- Provide situation reports and other information on schedule provided by RIC.
- Provide guidance for length of work day and deployments as it pertains to this specific event.
- Coordinate logistics with deployed personnel to provide transportation options, lodging, security, ground transportation on site.
- Identify clearly defined roles for both Regions and Headquarters.
- Identify long-term recovery objectives the Agency may be requested to support, and determine resources needed to support/sustain those requests to accomplish the objectives.
- Secure NPL and removal sites. Regulated facilities and Superfund and oil sites will be surveyed post storm fall
- Identify vulnerabilities at regulated facilities
- Address any immediate hazardous substance releases or oil spills resulting from the storm's impact
- Assist state and local agencies in ensuring safety of drinking water systems.
- Monitor air quality when/if necessary in response to conditions on the ground.
- Coordinate national resources to assist the Region;
- The response will use the Region's incident specific Data Management Plan (DMP);
- In collecting, sharing, and analyzing environmental data, EPA will give primacy to data with potential human health consequences;
- EPA will work to ensure that its decision-makers have access to the data and expertise they need to make decisions based on sound science.

## DEBRIS RECOVERY

### Puerto Rico Debris Mission

- EPA continues to meet with FEMA, USACE, EQB, SWMA, EPA, and private contractors to discuss details for proposed plan to regional debris collection and processing centers in 6 zones throughout Puerto Rico. Contractors propose to separate and manage clean vegetative materials, mixed wastes, construction and debris, and wet debris. USACE and Contractors are proposing to use thermal reduction system (box burners) and are requesting a waiver from EQB. Contractors presented proposed staging locations in Puerto Rico and are requesting environmental information from local and federal agencies to assure environmental compliance. EPA held a meeting on October 1 to discuss the strategy for the management of hazardous wastes and

household hazardous wastes. [Next Meeting: Monday, October 2 at 2 pm]

**USVI Debris Mission.**

- FEMA EOC in STX has requested that EPA take part in daily Debris Management meetings. EPA will advise on air monitoring and/or sampling protocols associated with the burning of debris. However, no decision has been made on whether there will be burn operations. FEMA STX has also indicated that EPA may be requested to assist with medical waste issues resulting from the re-establishment of medical facilities on STX and STT.

## AIR MONITORING

**Puerto Rico.** EQB is planning to conduct an assessment on the conditions of the ambient air monitoring network. The network was taken offline prior to Hurricane Maria landfall. There is no update or information on the status or damages. They will staff an assessment team once their employees are able to return to the office.

## EMERGENCY RESPONSE

| Daily/Cumulative Summary of Hazard Evaluations/Recovery for Hurricane Maria | | | | |
|---|---|---|---|---|
| **Status** | **Opened** | | **Closed** | |
| | **9/30/2017** | **Cumulative** | **9/30/2017** | **Cumulative** |
| Puerto Rico | 0 | 0 | 0 | 0 |
| U.S. Virgin Islands | **1** | 1 | 0 | **0** |
| Note: Open means that the target is yet to be recovered. Closed means the target was recovered, left in place, or access was denied to collect the item. | | | | |

## PUERTO RICO

| | **CONTAINERS** | | | **TOTAL** |
|---|---|---|---|---|
| | **Drums (55 Gals)** | **Large Containers (<55 gals)** | **Large Containers (>55 gals)** | |
| **9/30/2017** | 0 | 0 | 0 | 0 |
| **Total to Date** | 0 | 0 | 0 | 0 |

## U.S. VIRGIN ISLANDS

| | **CONTAINERS** | **TOTAL** |
|---|---|---|

| | Drums (55 Gals) | Large Containers (<55 gals) | Large Containers (>55 gals) | |
|---|---|---|---|---|
| **9/30/2017** | 0 | 0 | 0 | 0 |
| **Total to Date** | 0 | 0 | 0 | 0 |

## SPILL/RELEASE RESPONSE

| Hotline Calls as of October 1st, 2017 | |
|---|---|
| **Number of Maria Related Calls Received During Reporting Period** | 1 |
| **Total Number of Maria Related Calls to Date** | 6 |
| *** EPA is assessing each call through the NRC to determine appropriate response and forwarding reports to field personnel to conduct further assessments and response as needed.** | |

## SUPERFUND NPL, SUPERFUND REMOVAL, AND OIL REMOVAL SITES

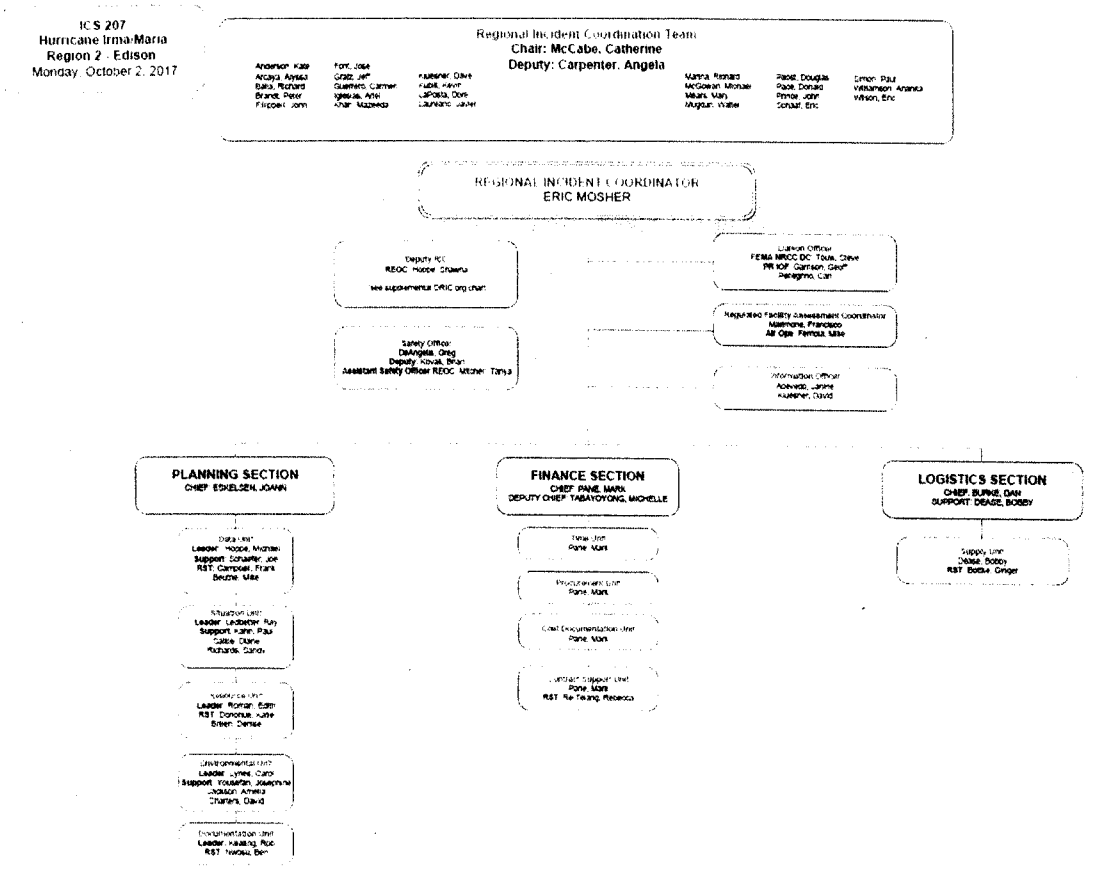
On 9/29, Vega Baja Solid Waste Disposal site was not able to be visited due to the significant road damage and debris. The team could not access the facility. On 9/30 the teams were to conduct site surveys and surveillance of the Upjohn Facility, Vega Alta Public Supply Well, and Juncos Landfill. We are waiting for the results of the 9/30 work.

| SUPERFUND SITES (NPL, Removal and Oil) | | | | | | |
|---|---|---|---|---|---|---|
| Puerto Rico | | | | | | |
| Site | Type | Phase 1 | Phase 2 | | Phase 3 | All Phases Completed |
| | | Post-Storm Assessment | Site Inspection Needed | Inspected | Additional Response Action | |
| Atlantic Fleet Weapons | NPL | | | | | |
| Juncos Landfill | NPL | | | | | |
| Upjohn Facility | NPL | | | | | |
| Arecibo Battery Recycling Corp. | Removal & NPL* | 09/22/2017 | N | 09/22/2017 | N | 09/22/2017 |
| Corozal Well | Removal & NPL* | 09/24/2017 | N | 09/24/2017 | N | 09/24/2017 |
| Cabo Rojo Groundwater | NPL | | | | | |
| Cidra Groundwater | NPL | | | | | |
| Dorado Groundwater | NPL | | | | | |
| Fibers Public Supply Wells | NPL | | | | | |
| Hormigas Groundwater | NPL | | | | | |
| Maunabo Urbano Public Wells | NPL | | | | | |
| Papelera Puertoriquena, Inc. | NPL | 09/29/2017 | N | 09/29/2017 | N | 09/29/2017 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Pesticide Warehouse 1 | NPL | | | | | |
| Pesticide Warehouse III | NPL | | | | | |
| San German Groundwater | NPL | | | | | |
| Scorpio Recycling | NPL | | | | | |
| Vega Alta Public Supply Wells | NPL | | | | | |
| Vega Baja Solid Waste Disposal | NPL | | | | | |
| Guayanilla Bay Oil Spill | Oil Response | | | | | |
| Puma Caribe (CAPECO) | Oil Response | 09/21/2017 | N | 09/25/2017 | N | 09/25/2017 |
| U.S. VIRGIN ISLANDS | | | | | | |
| TUTU Well Field | NPL | 10/1/2017 | | | | |
| Crum Bay Oil Spill at WAPA Facility | Oil Response | | | | | |
| Cruz Bay Oil Tank | Oil Response | | | | | |

* These are Sites that have both, a Removal and Remedial program action. Only one assessment will be conducted per Site.

# REGION 2 RESPONSE ORGANIZATION (ICS 207)

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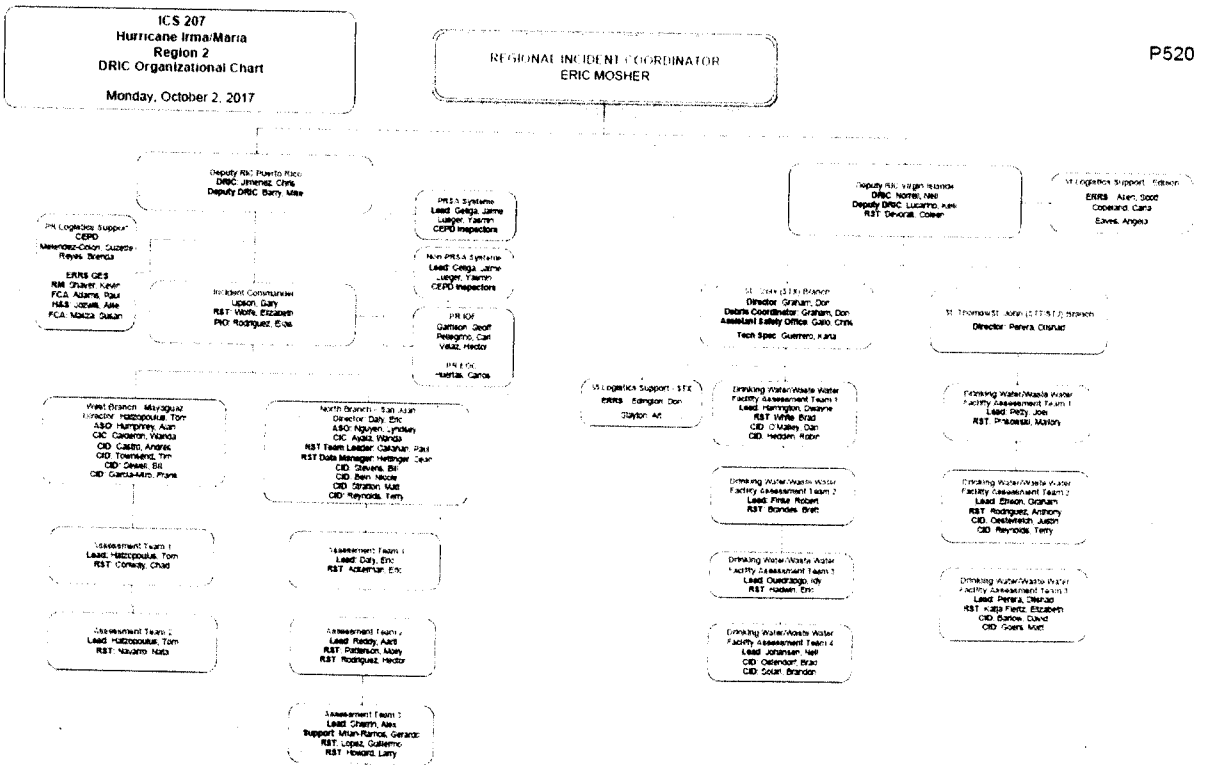
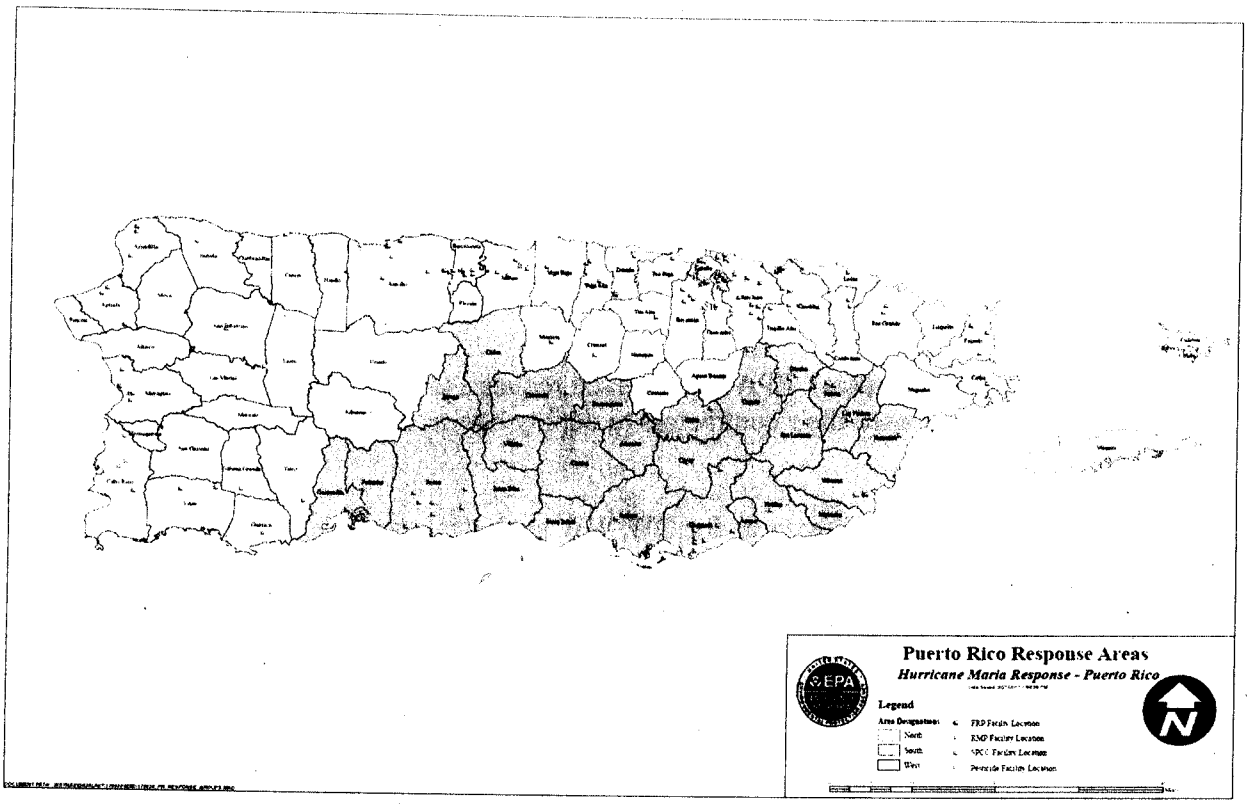



# FIELD RESPONSE ACTIVITIES

## PUERTO RICO



The EPA Deputy RIC for Puerto Rico and Incident Commander/Operations Section Chief has separated Puerto Rico into three Branches; the North Branch, South Branch, and West Branch. EPA and contractor resources are currently deployed in the North and West Branches. The South Branch will become more accessible once lodging becomes available. Until that happens, North Branch personnel will cover South Branch areas.

- Assessment teams comprised of OSCs, technical assistance contractors, and public affairs personnel are deploying to Puerto Rico in accordance with our EPA Region 2 Mobilization and Resource Plan. Responders arrived in both the San Juan and Mayaguez areas on 10/1.

- Available CEPD Staff are coordinating with the response command structure to provide support in other assessments, such as chemical and oil facilities, NPL, and removal sites.

- EPA has received several requests for DW/WW analytical and assessment and sampling support from USACE, PRASA, and PRDOH. REOC and IOF staff prepared and provided a cost estimate for this work. An RRF was submitted by the EPA Liaison Officer at the FEMA NRCC to perform this work and is being worked at the San Juan IOF. Work continues on developing supporting documentation and several courses of action to support the Mission Assignment that will cover all of these requests. A conference call was held with ESF3 and Puerto Rico agencies requesting EPA support to assessing non-PRASA drinking water facility assessments that would be incorporated into this Mission Assignment.

- **Non-PRASA Water Treatment Systems:** Meeting between FEMA, USACE, HHS, DoD, EPA, and DOH to coordinate federal support to Non-PRASA drinking water facilities. In Puerto Rico, there are approximately 260 independent private and community water treatment systems that serve approximately 4% of the population. One of the recommendations is the deployment of 8 Assessment Teams of EPA and DOH staff <u>starting Monday, October 2.</u> Two teams will be conducting the first assessment visits to the Non-PRASA systems in the Municipalities of Caguas and San Lorenzo.

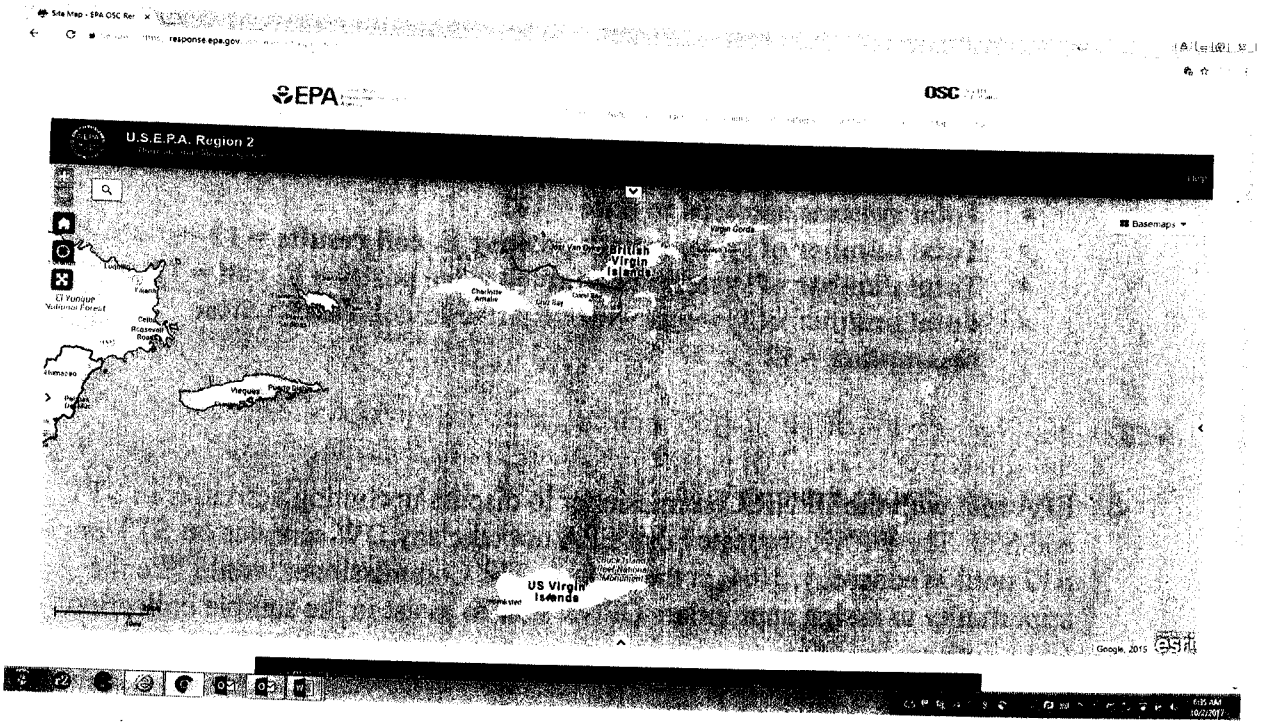
- **Small Oil Spill Responses:** EPA has received requests of support from EQB to small oil spills. EQB has used their contractors to deploy booms and pads to control these spills.

- EPA has received several requests for DW/WW analytical and assessment and sampling support from USACE, PRASA, and PRDOH. An RRF was submitted by the EPA Liaison Officer at the FEMA NRCC to perform this work and is being worked at the San Juan IOF. Work continues on developing supporting documentation and several courses of action to support the eventual Mission Assignment that will cover all of these requests. A conference call was held with ESF3 and Puerto Rico agencies requesting EPA support to assessing non-PRASA drinking water facility assessments

that would be incorporated into this MA.

- Limited cell phone activity is available in the San Juan area.
- One OSC and one CEPD ORC personnel are at the FEMA IOF in San Juan and two CICs based out of San Juan are assisting with pre-deployment logistics and outreach.
- CID personnel coordinated with ESF #13 and Puerto Rico Police in preparation for operations support for the Assessment Teams.
- Initial planning was completed for a projected deployment of up to a 165-person response on or about 10/15, pending resources and lodging/berthing and transport available.
- **Critical Resources Needs/Issues:** Commercial air traffic to PR is severely limited. This is making transport of personnel and equipment needed to support the missions assigned and requested of EPA difficult. Lodging continues to be in short supply. Lodging accommodations for personnel involved in near-term missions is arranged, but future lodging remains an issue

## U.S. VIRGIN ISLANDS




The EPA Deputy RIC for the U.S. Virgin Islands (USVI) and Incident Commander/Operations Section Chiefs have separated the USVI into three incident areas by island; St. Croix, St. Thomas, and St. John. EPA and contractor resources are currently deployed in St. Croix and St. Thomas. St. John is currently not accessible to EPA responders.

- **STX:**
    - EPA OSCs attended a debris Management meeting at the DPW. Continuing to develop debris management plan.
    - DOT requested EPA's assistance with assessing the FAA tower at the Henry E. Rohlsen Airport on STX for mold. EPA observed crews removing carpet and sheetrock in the tower but did not notice any obvious mold growth.
    - EPA Drinking Water Assessment and Sampling Teams collected 12 drinking water samples on Friday, 9/29/2017. The results of the sampling are anticipated to be complete by the end of the day Saturday, 9/30/2017.
    - The Ocean Systems Lab on STX is still non-operational due to lack of power. A generator to be provided to the lab by FEMA has yet to arrive.
    - DPNR is not available on weekends, therefore the number of DW samples on STX will be limited. The facilities target number is 11.
    - One EPA Team has been deployed to perform facility inspections. Of the 11 drinking water samples collected on Friday, 9/29, 5 samples indicated the presence of E. coli. EPA will continue coordinating with DPNR to ensure disinfection measures are taken at all affected locations.
        - **Total Public Water Systems on St Croix sampled to date = 66**
        - **Total number of samples to date= 75**
        - **Total systems assessed to date = 101**
        - **Total number of systems with positive E. coli results = 12**
        - **Total number of systems resampled after positive E. coli = 12**
        - **Total number of systems with negative E. coli results after resampling = 12**
- **STT:**
    - EPA met with the DPNR Commissioner to discuss upcoming activities in STT and STJ. The DPNR requested that EPA not take any DW samples on STT or STJ until Wednesday, 10/4, at the earliest. The Commissioner would like the opportunity to assign appropriate DPNR staff to assist in the sample collection and prioritize facilities.
    - EPA, WAPA and the USCG met on-site at Krum Bay to discuss the oil spill and the WAPA water intakes. The oil is coming from partially sunken vessels. The USCG and will work closely with WAPA during the removal of sunken vessels. The water intakes are currently boomed and WAPA takes samples of the DW supply regularly. To date, sample analysis has indicated the water system has not been impacted by the spill.

- On 10/2, EPA will conduct fixed facility assessments on STT.

- **EPA and Contractor Personnel Currently in the USVI:**
  - EPA: 18
  - RST: 6
  - ERRS: 2
  - Total: 26

- **Critical Resource Needs/Issues:** Commercial air traffic to the USVI is severely limited. This is making transport of personnel and equipment needed to support the missions assigned and requested of EPA difficult. Requests for transport of personnel and equipment have been made through the proper channels at the NRCC.

## REGION 2 REGIONAL EMERGENCY OPERATIONS CENTER (REOC)

- The REOC is working with the ERRD on prioritization of the Sites. EPA personnel began assessments of the prioritized Sites on 9/28.

## AGENCY COORDINATION

Region 2 has one rep to staff the ESF-10 desk in the FEMA NRCC in Washington D.C. EPA has an OSC in the VITEMA/FEMA EOC bunker in St. Croix.

Environmental Response Management Application (ERMA). NOAA supports an ERMA viewer for both EPA Region 2 and the U.S Coast Guard. Aerial photos are available through the following link.

https://erma.noaa.gov/caribbean/erma.html#/layers=3+36619+36620+36611+36618&x=-65.62791&y=18.14726&z=9&panel=layer

**U. S. Coast Guard Air/Flight Support**. EPA Air/Flight Support will coordinate through USCG Seventh District Miami office resources unit for both Clearwater and Miami USCG air stations. Currently there is one flight/day to SJU from Miami. EPA is seeking an opportunity to move water and hazmat/oil teams into the U.S. Caribbean. EPA will submit requests for transportation as part of the ongoing queue.

## DRINKING WATER / WASTEWATER

### Puerto Rico

| Drinking Water and Wastewater Assessments (September 30, 2017) | | |
|---|---|---|
| **Assessment Types** | **Daily Assessments** | **Total Assessments** |
| On-Site DW Assessments | 0 | 4 |
| On-Site WW Assessments | 0 | 8 |

### U.S. Virgin Islands

| Drinking Water and Wastewater Assessments (September 30, 2017) | | |
|---|---|---|
| **Assessment Types** | **Daily Assessments** | **Total Assessments** |
| On-Site DW Assessments | 8 | 48 |
| On-Site WW Assessments | 0 | 0 |

## REGULATED FACILITIES

Puerto Rico

| Facility Type | Sites Identified | Pre-Storm Remote Assessment | Post Storm Remote Assessment | Post Storm Field Assessment | Follow-up Action Required |
|---|---|---|---|---|---|
| RMP | 56 | 56* | 44^ | 0 | 0 |
| FRP | 22 | 22* | 10^ | 2 | 2 |
| SPCC (non-FRP) | 232# | 232#* | 4^ | 0 | 0 |
| Total | 310# | 310# | 58^ | 0 | 0 |
| * Pre-Hurricane email requested facilities to self-identify any pre-existing compromised conditions (construction at process areas, tank maintenance, etc.). No facilities reported pre-existing compromised conditions. | | | | | |
| ^ Based on Post-Hurricane oil spill/chemical release/damage assessment email and phone calls. | | | | | |
| # There is no SPCC submission or de-registration requirement. This number reflects the number of known non-FRP SPCC facilities indicated as "active" in the Oil Database. | | | | | |

U.S. Virgin Islands

| Facility Type | Sites Identified | Pre-Storm Assessment | Post Storm Assessment | Post Storm Field Assessment | Follow-up Action Required |
|---|---|---|---|---|---|
| RMP | 1 | 1* | 1^ | 0 | 0 |
| FRP | 6 | 6* | 5^ | 1 | 0 |
| SPCC (non-FRP) | 57# | 57#* | 1^ | 1 | 1 |
| Total | 64# | 64# | 7^ | 0 | 0 |
| * Pre-Hurricane email requested facilities to self-identify any pre-existing compromised conditions (construction at process areas, tank maintenance, etc.). No facilities reported pre-existing compromised conditions. | | | | | |
| ^ Based on Post-Hurricane oil spill/chemical release/damage assessment email and phone calls. | | | | | |
| # There is no SPCC submission no de-registration requirement. This number reflects the number of known non-FRP SPCC facilities indicated as "active" in the Oil Database. | | | | | |

The RFT is continuing efforts to directly contact significant RMP, FRP, and SPCC companies that have not yet responded to the post-storm assessment via email or by phone. Several

significant RMP, FRP, and SPCC companies in PR and the USVI, such as Puma, PRASA, Total, and WAPA have preliminarily reported no damage to oil, chemical, or flammable operations.

The RFT, in coordination with the Regional Emergency Operations Center (REOC), continues to provide effective compliance assistance to facilities that experienced spills/releases, potential spills/releases, and lost containers. The RFT is providing compliance assistance to seven RMP, FRP, and/or SPCC facilities that have reported minor spills or releases. Compliance assistance efforts are coordinated with the Regional Emergency Operations Center. Information obtained by the RFT regarding these spill/releases have been shared with Operations for upcoming on-site evaluation by field assessment teams. The RFT will remain in contact with these facilities until their spills/releases are resolved.

The RFT is assisting Operations and the Data Team by providing updated RMP, FRP, and SPCC targeting information for upcoming field assessments. Additionally, the RFT is using various EPA databases to provide regulatory history and other facility-specific information when requested.

The Regulated Facility Assessment Coordinator (RFAC) continues to coordinate damage assessment and field assessment referral information with other R2 inspection programs working in UST, Federal Facilities, RCRA, CAA, and NPDES. The UST program remains in-touch with DPNR and EQB UST program managers, and continues to provide updates on gas stations in the USVI and PR. The Federal Facilities Coordinator has been following up with federal facilities in PR and the USVI, and is periodically updating the RFAC as appropriate.

## EPA RESOURCES AS OF 10/01/2017

| Personnel | EPA Edison, NJ NYC, CEPD | FEMA NRCC, DC | San Juan, Puerto Rico* | Mayaguez, Puerto Rico | USVI Deployments* | Totals |
|---|---|---|---|---|---|---|
| EPA | 50 | 1 | 28 | 7 | 18 | 104 |
| START/ RST | 8 | 0 | 8 | 2 | 6 | 24 |
| ERRS | 0 | 0 | 0 | 0 | 2 | 2 |
| Other Contractors | 0 | 0 | 0 | 0 | 0 | 0 |
| Totals | 58 | 1 | 36 | 9 | 26 | 130 |

*Number includes personnel working at IOF, EOC, CEPD field inspectors.

## LONG RANGE PLANNING

- **Hurricane Irma Recovery Update.** In terms of recovery Mission Assignments

(MAs), Region 2 is working with FEMA on developing a short term (30 day) Recovery MA for Hurricanes Irma and Maria. Since the NDRF has not yet been activated, the first MA will be supported by the National Response Coordination Center (NRCC) authority to pre-stage RSF coordinators and partners for the initial data gathering and recovery planning work.

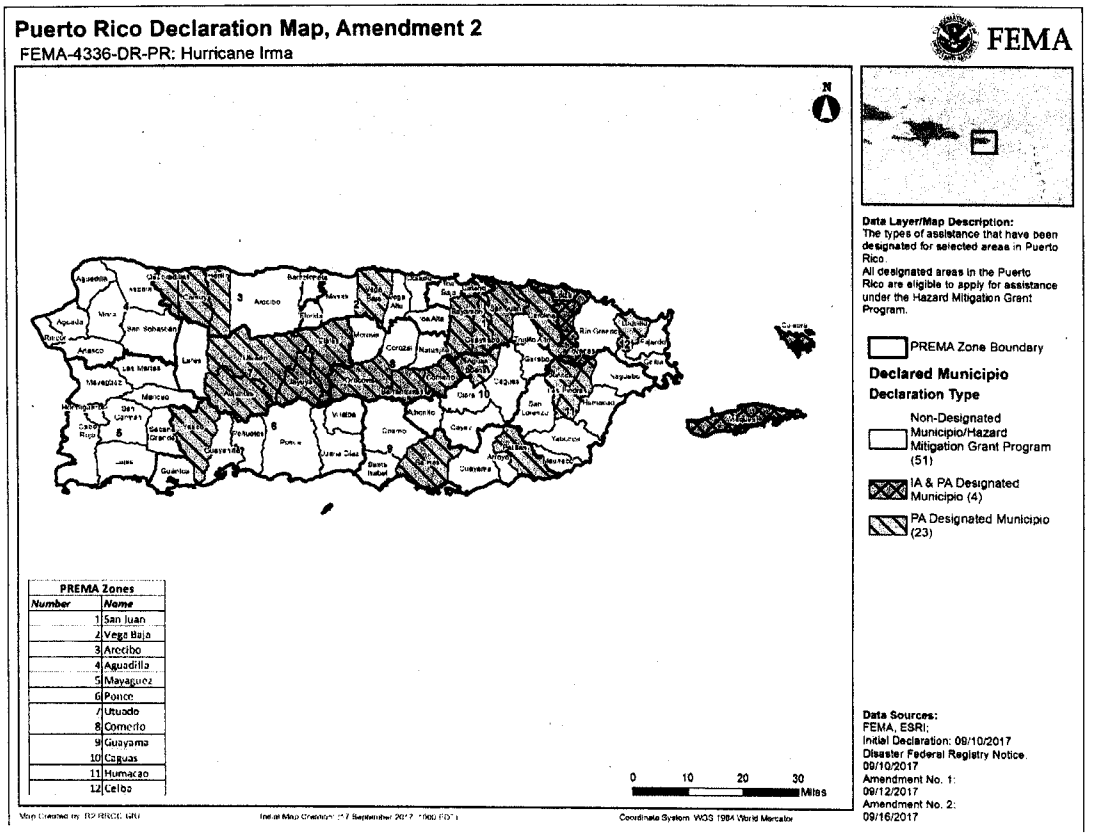
## DECLARATIONS FOR HURRICANE IRMA

### Puerto Rico.

Emergency Declaration FEMA-3384-EM effective September 5. Assistance is for all 78 municipalities in the Commonwealth of PR. The Governor of Puerto Rico requested a disaster declaration 9/8.

Disaster Declaration FEMA-4336-DR effective September 9. Declared areas only include Culebra and Vieques. On 9/13 ten additional municipalities in Puerto Rico were added to the major declaration, and are now eligible for work under any DFA MA's that we receive. The municipalities are: Adjuntas, Canovanas, Carolina, Guaynabo, Juncos, Loiza, Luquillo, Orocovis, Patillas, and Utuado.

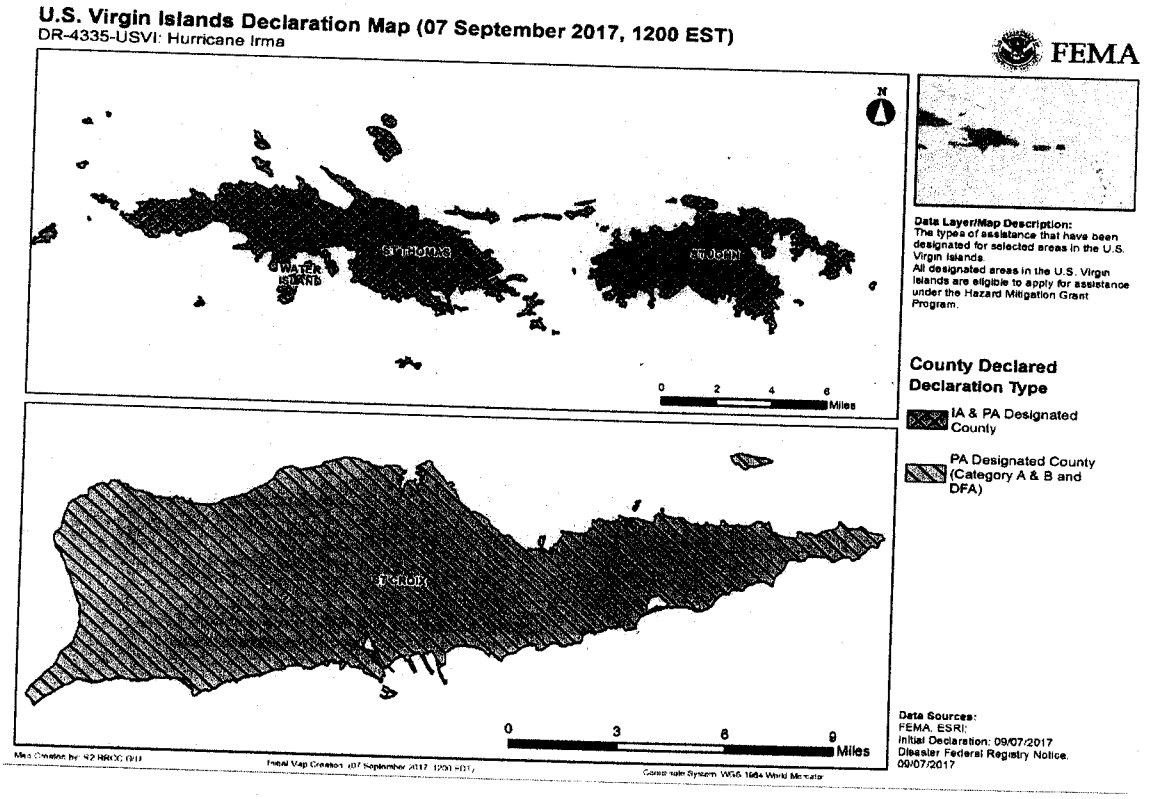
On 9/15, fifteen additional municipalities were added to the major declaration and are now eligible for Public Assistance. The municipalities are: Aguas Buenas, Barranquitas, Bayamón, Camuy, Cataño, Ciales, Comerío, Hatillo, Jayuya, Las Piedras, Quebradillas, Salinas, San Juan, Vega Baja, and Yauco.



**U.S. Virgin Islands.**

Disaster Declaration FEMA-4335-DR effective September 7, 2017. St. Thomas and St. John approved for Individual Assistance, all islands eligible for Public Assistance and the Hazard Mitigation Grant Program.

Emergency Declaration FEMA-3383-EM effective September 5. Assistance is for all islands in the Territory of the USVI.




## DECLARATIONS FOR HURRICANE MARIA

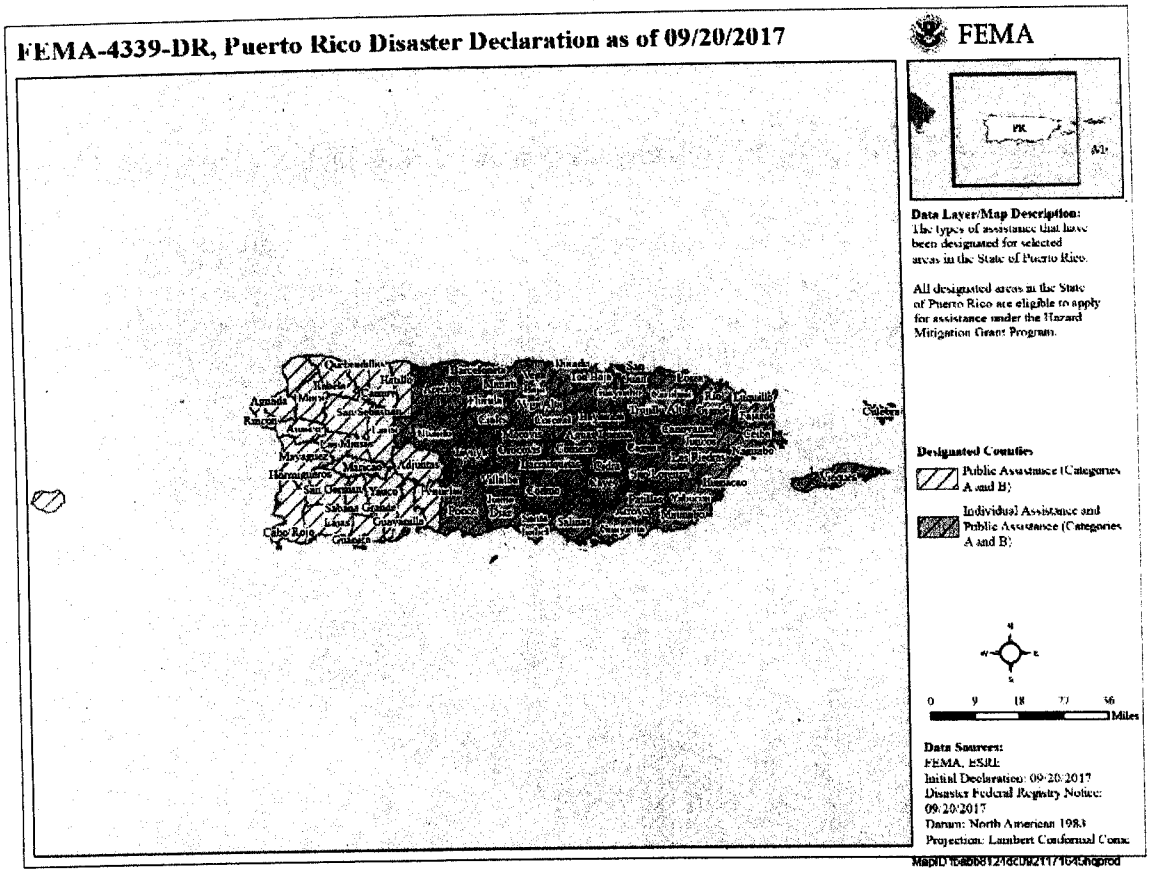
**Puerto Rico.**

Emergency Declaration. The President has signed Emergency Declaration FEMA-3391-EM for Puerto Rico.

On 9/20, The President has signed a Disaster Declaration FEMA-4339-DR for Puerto Rico.

The White House initial statement covers 54 municipalities. The municipalities included in the disaster declaration are: Aguas Buenas, Aibonito, Arecibo, Arroyo, Barceloneta, Barranquitas, Bayamón, Caguas , Canóvanas, Carolina, Cataño, Cayey, Ceiba, Ciales, Cidra, Coamo, Comerio, Corozal, Culebra, Dorado, Fajardo, Florida, Guayama, Guaynabo, Gurabo, Humacao, Jayuya, Juana Díaz, Juncos, Las Piedras, Loíza, Luquillo, Manati, Maunabo, Morovis, Naguabo, Naranjito, Orocovis, Patillas, Ponce, Rio Grande, Salinas, San Juan, San

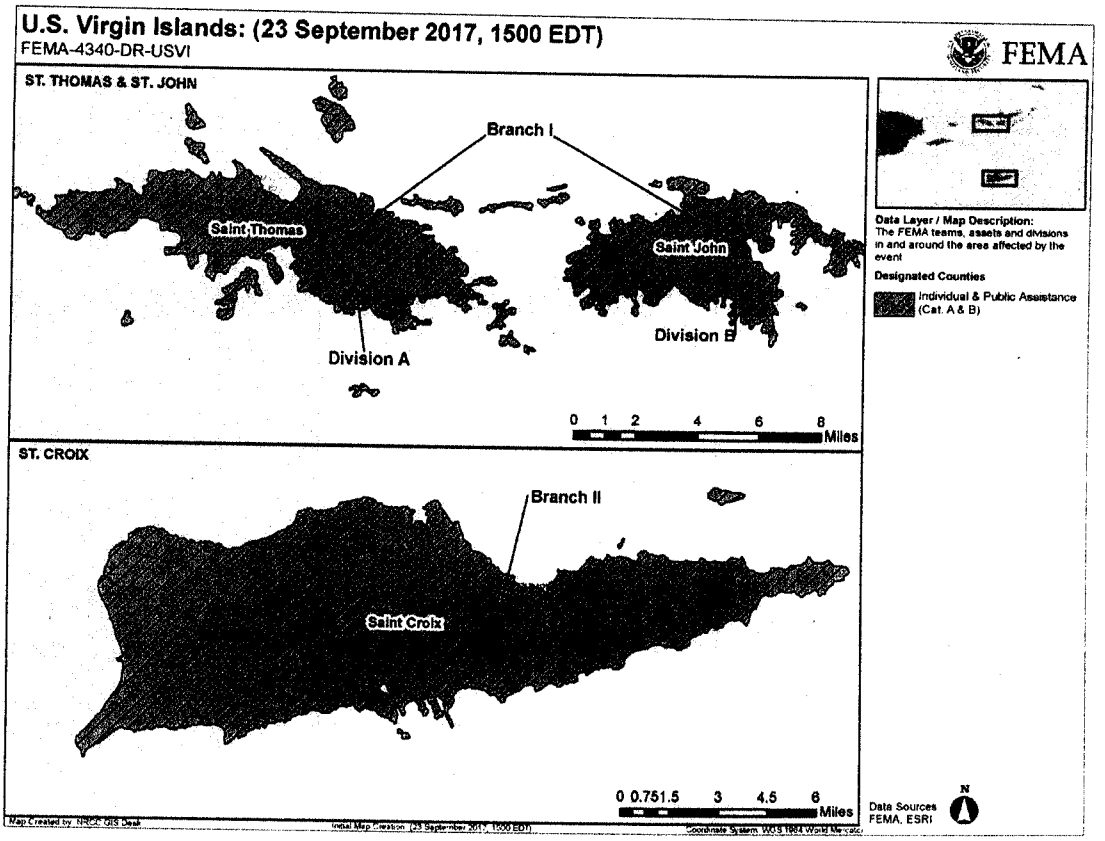
Lorenzo, Santa Isabel, Toa Baja, Toa Alta, Trujillo Alto, Utuado, Vega Alta, Vega Baja, Vieques, Villalba, Yabucoa.




**U.S. Virgin Islands.**

Emergency Declaration. The President has signed Emergency Declaration FEMA-3390-EM for the Territory of the U.S. Virgin Islands for Hurricane Maria.

On 9/20, The President has signed a Disaster Declaration FEMA-4340-DR for the Territory of the U.S. Virgin Islands for Hurricane Maria.




# FUNDING FOR IRMA AND MARIA

| Mission Assignment Number | Purpose | Start Date | End Date | Total Amount | Indirect Costs | Amt. Available | Daily Burn Rate | Used | Balance |
|---|---|---|---|---|---|---|---|---|---|
| 4335DR-VI-EPA-01 **(X06)** | EPA to FEMA R2 RRCC (Colts Neck, NJ) and FEMA NRCC (Washington, DC) | 09/07/17 | 10/07/17 | $100,000 | $10,466 | $89,534 | $1,500 | $45,260 | $44,274 |
| 4335DR-VI-EPA-06 **(X12)** | EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA & NRA Teams and other coordination venues | 09/02/17 | 10/13/17 | $2,000,000 | $209,329 | $1,790,671 | $57,000 | $982,246 | $808,425 |
| 4336DR-PR-EPA-01 **(X10)** | EPA to FEMA RRCC. Funding for EPA command centers is authorized. | 09/10/17 | 10/10/17 | $100,000 | $10,466 | $89,534 | $3,000 | $72,421 | $17,113 |
| 4336DR-PR-EPA-02 **(X15)** | Assess oil & hazmat releases, contaminated debris & other | 09/09/17 | 10/31/17 | $1,008,000 | $105,502 | $902,498 | $26,000 | $423,455 | $479,043 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | environmental events in PR | | | | | | | | |
| 4335DR-VI-EPA-02 **(X07)** | Assess oil & hazmat releases, contaminated debris & other environmental events in VI | 09/07/17 | 10/31/17 | $1,008,000 | $105,502 | $902,498 | $35,000 | $630,820 | $271,678 |
| 4335DR-VI-EPA-04 **(X11)** | Removal, cleanup and disposal of oil & hazmat; collect and dispose of HHW; monitor immediate threats to public H&S and the environment in the VI | 09/13/17 | 10/13/17 | $10,000,000 | $1,046,646 | $8,953,354 | $26,000 | $300,317 | $8,653,037 |
| 4339DR-PR-EPA-03 **(X16)** | Removal, cleanup and disposal of oil & hazmat; collect and dispose of HHW; monitor immediate threats to public H&S and the environment in PR | 09/28/17 | 10/30/17 | $10,000,000 | $1,046,646 | $8,953,354 | $0 | $7,515 | $8,945,839 |
| VI-17090102-EPA-01 **(X03)** | EPA to FEMA R2 RRCC (Colts Neck, NJ) | 09/02/17 | 09/11/17 | $10,000 | $1,046 | $8,954 | $0 | $8,954 | $0 |
| PR-17090102-EPA-01 **(X05)** | EPA to FEMA R2 RRC and other coordination venues as necessary | 09/01/17 | 09/11/17 | $20,000 | $2,093 | $17,907 | $0 | $17,907 | $0 |
| 3384EM-PR-EPA-01 **(X04)** | EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA and NRA Teams and other coordination venues | 09/06/17 | 09/16/17 | $75,000 | $7,850 | $67,150 | $0 | $64,800 | $2,350 |
| | | | | | **Grand Total** | **$21,775,454** | **N/A** | **$2,553,695** | **$19,221,759** |

## FUEL WAIVERS, ORDERS, AND NO ACTION ASSURANCES

- On 9/26 EPA approved a request from PR for an emergency fuel waiver to minimize disruptions of the supply of diesel fuel for mobile nonroad generators and pumps used for emergency purposes. Waiver expires on 10/15/17. Waiver allows sale, distribution, and use of heating oil and marine fuel designated for use in Emission Control Areas

(ECA marine fuel) that exceed the 15 parts per million (ppm) sulfur standard if the fuel meets certain conditions. EPA and DOE are actively monitoring the fuel supply situation

- On 9/27EPA HQ issued an amended No Action Assurance (NAA) concerning the importation, sale, donation or distribution of mobile power generators in Puerto Rico to increase the number of generators available for use during the recovery from the devastation of Hurricane Maria. The NAA supersedes one issued by EPA on 9/22 and covers two categories of mobile power generators. The NAA allows the import and sale of mobile power generators that, while not otherwise legal for import and sale in PR, satisfy air pollution emissions standards that are similar to current EPA standards; and also allows for the import and use of other mobile power generators that do not meet standards similar to current EPA standards, but only if, among other things, they are removed from service and not operated whatsoever in Puerto Rico after 3/31/18.

- On 9/27 EPA HQ issued an essentially identical NAA concerning the importation, sale, donation or distribution of mobile power generators in the U.S. Virgin Islands.

- On 9/23 EPA Region 2 issued an order to FEMA and DOD allowing them to install and operate temporary water treatment units to provide the public in the USVI with drinking water in areas where the existing public water system is not operational. The order establishes certain requirements relating to the use of the temporary systems. The order expires on 10/8/17. EPA is in discussions with DoD about replacing the order with a letter.

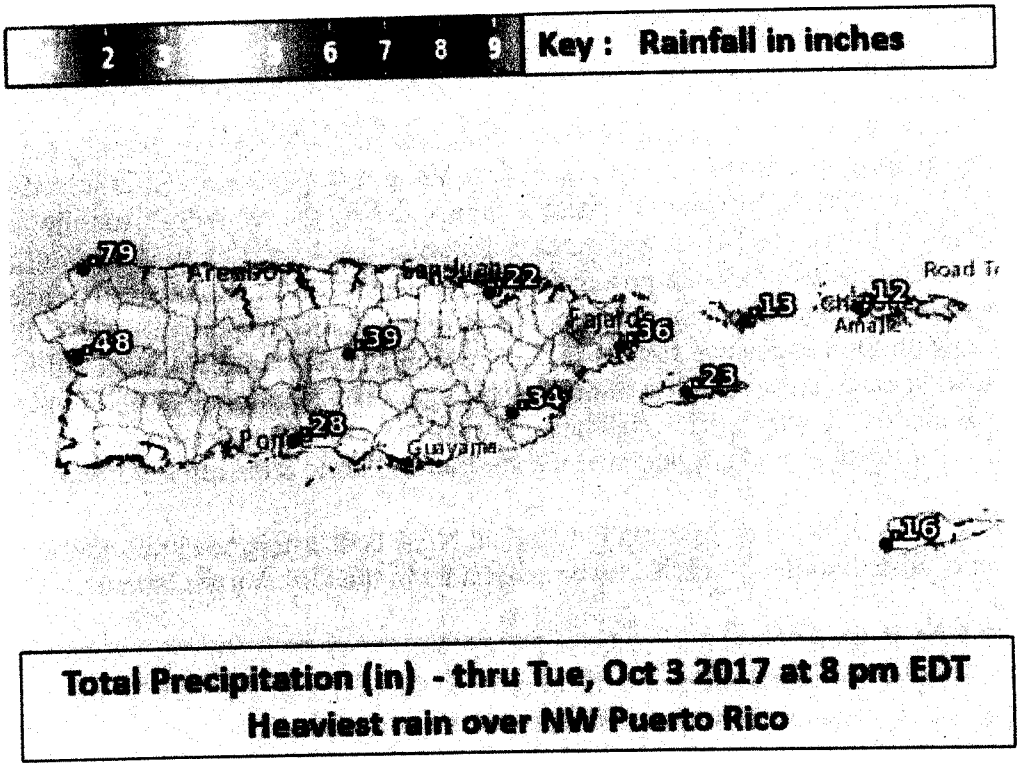
- On 10/29 EPA Region 2 approved a request from Lilly del Caribe, Inc. for a 30-day extension of the 90-day limit on the accumulation of hazardous waste on-site. Such an extension is permitted under EPA's RCRA regulations where necessary "due to unforeseen, temporary, and uncontrollable circumstances." Lilly del Caribe informed EPA that because of impacts from the hurricanes, it is currently not possible to make hazardous waste shipments out of Puerto Rico.

## POSSIBLE UPCOMING LEGAL ACTIONS

- EPA is preparing to issue a No Action Assurance to Merck, Sharp & Dohme Corp. to enable use of four emergency generators located at its Las Piedras, Puerto Rico facility.

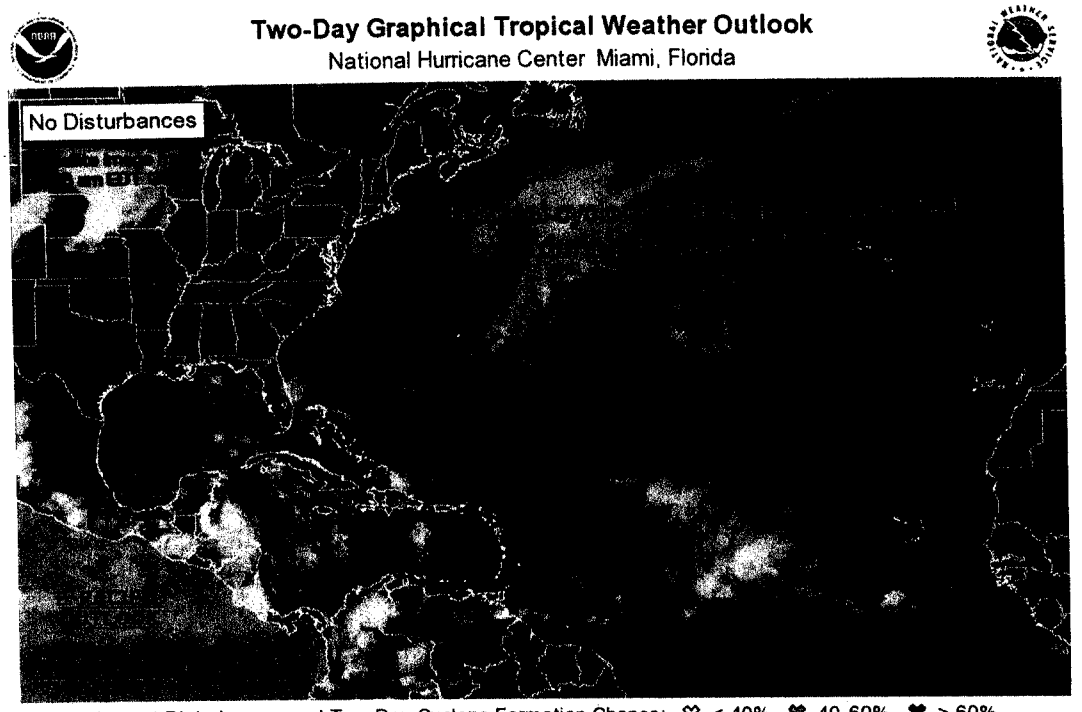
## ADDITONAL THREATS TO THE U.S. CARIBBEAN.

- **Current Weather**. Drier air pushes into the region 10/2 into 10/3 making for coverage of thunderstorm activity to be fairly limited, and mainly confined to sea-breeze activity (especially NW Puerto Rico). Additional moderate to heavy rainfall moves towards the Virgin Islands and Puerto Rico by 10/4, with increasing rain chances and coverage expected through 10/6.




## FUTURE WEATHER OUTLOOK.

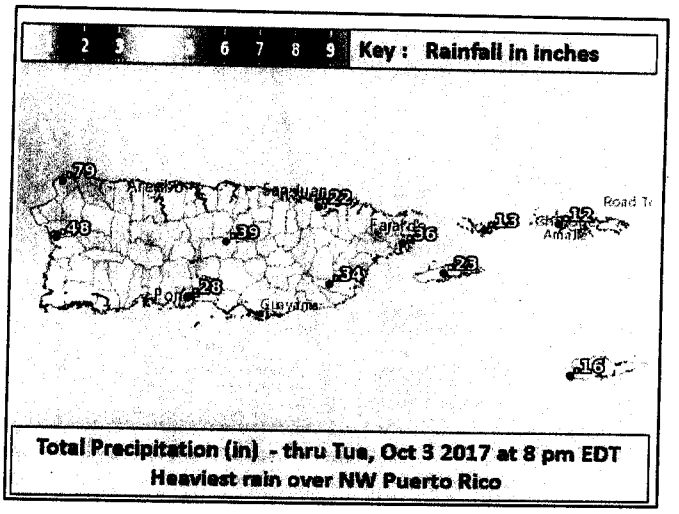
- No weather systems of interest to the U.S. Caribbean for the next 48 hours.



# Senior Leadership Briefing and Recovery Snapshots
# Tropical Storm Maria and Post-Tropical Cyclones Irma and Harvey
**Monday, October 2, 2017 (5:00 a.m. EDT)**
**Updates in Blue**

## Current Situation:

Drier air pushes into the region today into Tuesday making for coverage of afternoon thunderstorm activity to be fairly limited, and mainly confined to sea-breeze activity (especially NW Puerto Rico). Additional moderate to heavy rainfall moves towards the Virgin Islands and Puerto Rico by Wednesday, with increasing rain chances and coverage expected through Friday.



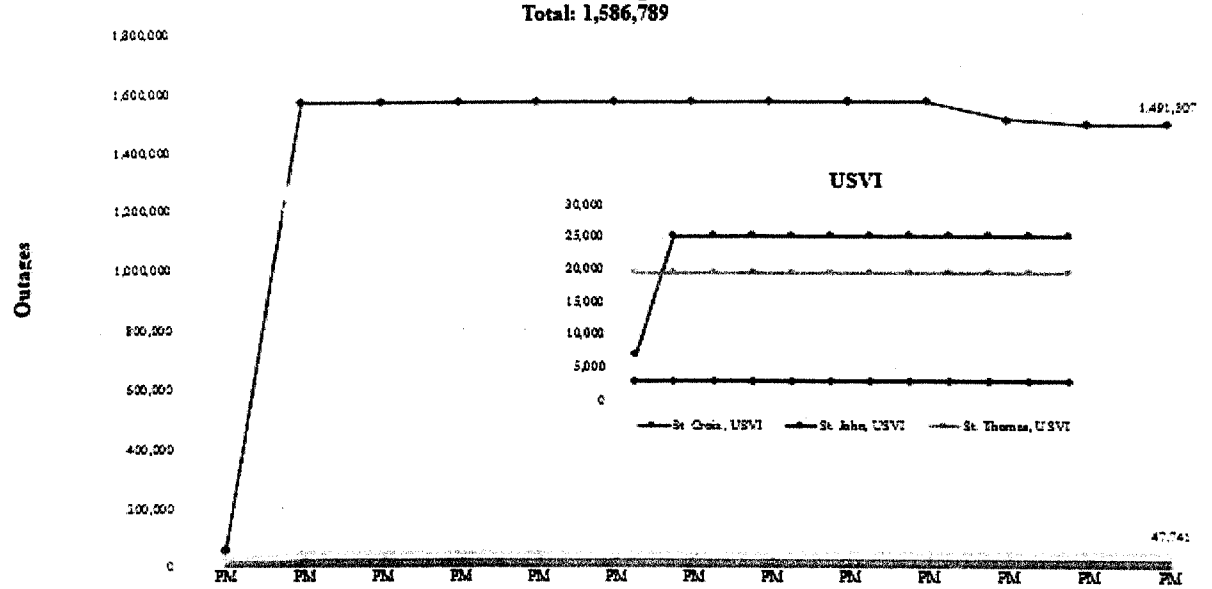

Additional rainfall will continue to effect areas along the east coast of Florida where 6 to 10 inches of rain with locally higher amounts has already fallen the last 24 hours. Moderate to possibly major Tidal concerns will be an issue along the Southeast coast through Thursday. Heavy rain showers and embedded strong thunderstorms (with strong turbulence and wind shear), stretching from the eastern Gulf of Mexico to well east of Florida, could delay or divert aircraft flying to and from Puerto Rican theater from Atlanta, Miami and Houston. *(NOAA Update, October 2, 2017, 5:14 a.m. EDT)*

## Impact Summary:

| Territory | Population Impacts | | | | | |
|---|---|---|---|---|---|---|
| | Confirmed Fatalities | Shelters / Population* | Customer Power Outages | Hospitals | Evacuations and Curfews | Other |
| PR | PR Director of Public Safety confirmed 16 fatalities | Shelters: 145 (-1)<br>Pop: 10,177 (+121) | 5% (+1%) of customers have electricity<br><br>Estimate 20% of transmission towers need to be replaced | Assessed 64 of 65 mainland hospitals; two still require assessment<br><br>14 (20%) hospitals back on electrical grid with intermittent generator support<br><br>VA hospitals: one open, five open with walk-ins, three closed | Curfew in effect from 9:00 p.m. to 5:00 a.m.; first responders and medical personnel exempt | 58 of 68 Federal Government buildings closed<br><br>65% of grocery and big box stores open |
| USVI | 5 confirmed fatalities | USVI Shelters: Seven<br>Pop: 555<br><br>St. Thomas: Shelters: Two<br>Pop: 247<br><br>St. John: Shelters: Two<br>Pop: 24<br><br>St. Croix: Shelters: Three<br>Pop: 284 | Percentage of customers that have electricity<br><br>St. Thomas: (15%)<br><br>St. John: (0%)<br><br>St. Croix: (10%) | Schneider Regional Medical Center on St. Thomas and Governor Juan Luis on St. Croix condemned<br><br>St. Croix requested mobile medical facility equivalent to asset on St. Thomas (Area Medical Support Company); DOD working to fulfill request<br><br>VA hospitals: All three closed | Curfew in place from 6:00 p.m. to 6:00 a.m. in St. Thomas, St. John, and Water Island<br><br>St. Croix curfew in place from 6:00 p.m. to 10:00 a.m. | Planning for public schools to reopen October 9<br><br>15 of 19 Federal Government buildings closed |
| ***As of:*** | *October 1 8:00 p.m. EDT* | *October 2 4: 05 a.m. EDT* | *October 1 12:00 p.m. EDT* | *October 1 8:14 p.m. EDT* | *October 1 10:00 p.m. EDT* | *October 1 1:47 p.m. EDT* |

*(ESF-5, ESF-6, Lista de Hospitales, ESF-7, ESF-8, ESF-12, ESF-15, OHA, PREMA, USVI/PR)*

## Power Outages
## Total: 1,586,789

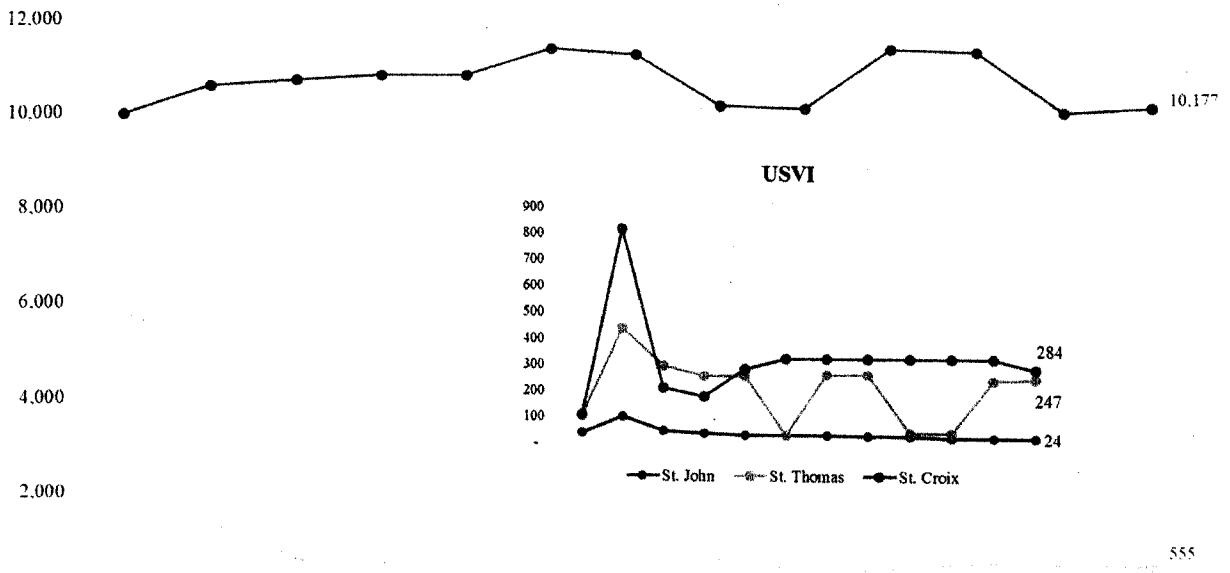



| | PM 9/19/17 | PM 9/20/17 | PM 9/21/17 | PM 9/22/17 | PM 9/23/17 | PM 9/24/17 | PM 9/25/17 | PM 9/26/17 | PM 9/27/17 | PM 9/28/17 | PM 9/29/17 | PM 9/30/17 | PM 10/1/17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| St. Croix, USVI | 6,905 | 25,274 | 25,274 | 25,274 | 25,274 | 25,274 | 25,274 | 25,274 | 25,274 | 25,274 | 25,274 | 25,274 | 25,274 |
| St. John, USVI | 2,893 | 2,893 | 2,893 | 2,893 | 2,893 | 2,893 | 2,893 | 2,893 | 2,893 | 2,893 | 2,893 | 2,893 | 2,893 |
| St. Thomas, USVI | 19,574 | 19,574 | 19,574 | 19,574 | 19,574 | 19,574 | 19,574 | 19,574 | 19,574 | 19,574 | 19,574 | 19,574 | 19,574 |
| USVI | 29,372 | 47,741 | 47,741 | 47,741 | 47,741 | 47,741 | 47,741 | 47,741 | 47,741 | 47,741 | 47,741 | 47,741 | 47,741 |
| Puerto Rico | 61,308 | 1,570,000 | 1,569,796 | 1,569,796 | 1,569,796 | 1,569,796 | 1,569,796 | 1,569,796 | 1,569,796 | 1,569,796 | 1,507,004 | 1,491,307 | 1,491,307 |

*Due to ongoing restoration efforts, the USVI power numbers reflect initial outage reporting. Updates will be provided as they become available.

(ESF 12 Update, October 01, 2017, 1:53 p.m. EDT)

## Shelter Population
## Total: 10,732 (+121)




| | AM 9/20/17 | AM 9/21/17 | AM 9/22/17 | AM 9/23/17 | AM 9/24/17 | AM 9/25/17 | AM 9/26/17 | AM 9/27/17 | AM 9/28/17 | AM 9/29/17 | AM 9/30/17 | AM 10/1/17 | AM 10/2/17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| USVI | 248 | 1,353 | 558 | 471 | 575 | 391 | 621 | 618 | 396 | 389 | 590 | 555 | 555 |
| Puerto Rico | 9,981 | 10,570 | 10,692 | 10,792 | 10,792 | 11,359 | 11,253 | 10,164 | 10,114 | 11,375 | 11,326 | 10,056 | 10,177 |

*Due to limited communications, there are delays in regular shelter reporting. Updates will be provided as they become available.

(ESF-6 Update, October 02, 2017, 4:00 a.m. EDT)

| Territory | Infrastructure Impacts | | | | | |
|---|---|---|---|---|---|---|
| PR | 10 of 10 airports open<br><br>San Juan Airport open for commercial flights | Four ports open: San Juan, Guayanilla, Salinas, Tallaboa<br><br>Eight (+2) ports open with restrictions: Mayaguez, Arecibo, Fajardo, Vieques, Culebra, Guayama, Ponce, and Yabucoa.<br><br>Two ports closed: Guanica (low priority) Roosevelt Roads (severe pier damage and debris) | 15 roads open<br><br>3,209 (+1,284) public road incidents reported (landslides, waterway issues, blockages, bridges, etc.) | 721 of 1,100 retail gas stations operational | Boil Water Advisory for water issued island-wide<br><br>Of 52 waste water treatment plants, nine operational, 19 non-operational, 24 unknown<br><br>50% of Puerto Rico Aqueduct and Sewer Authority (PRASA) clients have access to drinking water; (PRASA serves 96% PR pop) | 11.3% of island with cell service; service around SJU airport restored<br><br>Public Safety Answer Points (PSAPs)/911 centers operational |
| USVI | St. Thomas open and receiving commercial aircraft; must contact tower 20 minutes out<br><br>St. Croix open under special conditions (military flights and air carriers with less than 35 pax) | St. Thomas Open: Charlotte Amalie, East Gregerie Channel, West Gregerie Channel (Crown Bay)<br><br>Open with restrictions: Red Hook Bay<br><br>St. John Open with restrictions: Cruz Bay<br><br>St. Croix Open: Frederiksted<br><br>Open with restrictions: Krause Lagoon, Limetree Bay<br><br>Closed: Christiansted | Numerous routes partially closed on St. Thomas and St. John.<br><br>St. Croix: Most highways open with caution<br><br>All traffic signals on St Thomas and St Croix completely destroyed | St. Croix and St. Thomas reports adequate fuel supply on island for power generation and response efforts, including gasoline, diesel, and propane | Boil Water Advisory for water territory-wide | 29.2% (-1) cell phone coverage in USVI; PSAPs non-operational<br><br>St. Thomas: 38% (-2) of 55 cell towers operational<br><br>St. John: No cell towers operational<br><br>St. Croix: 28.6% (+7.2) of 42 cell towers operational |
| *As of:* | *October 2 1:19 a.m. EDT* | *October 2 2:01 a.m. EDT* | *October 1 12:23 a.m. EDT* | *October 2 5:00 a.m. EDT* | *October 1 11:08 a.m. EDT* | *October 2 2:19 a.m. EDT* |

*(ESF-1, ESF-2, ESF-10, ESF-12, PRASA, USCG)*

## Declaration Activity:

| Territory | Declaration | Declared Counties | | |
|---|---|---|---|---|
| | | Individual Assistance | Public Assistance | Cost Share |
| PR | 9/20: *DR-4339* | 54 municipalities | All (Categories A-B) | 100% for debris removal and emergency protective measures for 180 days from declaration date |
| | 9/10: *DR-4336* | 12 municipalities | 31 municipalities | 75% |
| USVI | 9/7: *DR-4335* | St. Croix, St. John, St. Thomas | All (Categories A-G) | 100% for debris removal and emergency protective measures for 180 days from declaration date |
| | 9/20: *DR-4340* | St. Croix, St. John, St. Thomas | All | 75% |

*(FEMA Declarations Unit, September 30, 2017, 9:35 p.m. EDT)*

## Force Laydown:

| Department/Agency | Puerto Rico | U.S. Virgin Islands St. Croix | St. John | St. Thomas | Totals |
|---|---|---|---|---|---|
| American Red Cross (ESF 6) | 478 | 220 | * | * | 698 |
| Army Corps of Engineers (ESF 3) | 122 | 97 | 3 | 65 | 287 |
| Civil Air Patrol (ESF 5) | 61 | * | * | * | 61 |
| Customs and Border Protection (ESF 5, 9 & 13) | 86 | 5 | 0 | 5 | 96 |
| Department of Agriculture (ESF 11) | 1 | 0 | 0 | 0 | 1 |
| Department of Defense Title 10* | 3,330 | * | * | * | 3,330 |
| Department of Energy (ESF 12) | 2 | 1 | 0 | 28 | 31 |
| Department of the Interior | 251 | 21 | 45 | 0 | 317 |
| Department of Transportation (ESF 1) | 4 | 2 | 0 | 26 | 32 |
| DHS – NPPD / Federal Protective Service | 36 | 3 | 0 | 2 | 41 |
| Environmental Protection Agency (ESF 10)* | 21 | 27 | 0 | 0 | 48 |
| Federal Law Enforcement (ESF 13) | 345 | 5 | 0 | 0 | 350 |
| FEMA Deployed | 640 | 267 | 6 | 47 | 960 |
| Urban Search & Rescue (ESF 9) | 80 | 0 | 0 | 0 | 80 |
| Forest Service (ESF 4) | 218 | 20 | 0 | 26 | 264 |
| General Services Administration (ESF 7) | 17 | 0 | 0 | 0 | 17 |
| Health and Human Services (ESF 8) | 551 | 29 | 8 | 13 | 601 |
| Veterans Affairs (ESF 8) | 141 | 0 | 0 | 0 | 141 |
| National Guard Bureau* | 4,290 | 2,475 | * | * | 6,765 |
| National Weather Service - NOAA | 30 | 0 | 0 | 0 | 30 |
| Small Business Administration (ESF 6) | 11 | 2 | 0 | 2 | 15 |
| Transportation Security Administration (ESF 1) | 109 | 5 | 0 | 5 | 119 |
| United States Coast Guard (ESF 1, 5, 7, 9, 10, 13 & 15)* | 1,402 | * | * | * | 1,402 |
| **TOTALS** | **12,226** | **3,179** | **62** | **219** | **15,686** |

** Notes: Civil Air Patrol flights supporting all USVI; DOD personnel numbers include personnel supporting from sea; Red Cross for St. Croix is for all of USVI, breakout unavailable (Situational Awareness Info Analysis, October 2, 2017, 4:30 a.m. EDT)*

## FEMA Headquarters:

- National Response Coordination Center (NRCC) at Level I (Full Activation), 24/7 operations
- National Incident Management Assistance Team (IMAT) East-2 at San Juan Convention Center Initial Operating Facility (IOF)
- **Recovery**
  - Strategic Workforce Augmentation Team taking calls at three National Processing Service Centers, FEMA pop-up call centers, Headquarters, all FEMA Regions, and from home; 5,806 (+1,898) call center agents available to receive calls *(Recovery Contact Center Surge Staffing Timeline. October 1, 2017, 11:02 a.m. EDT)*
  - Total Individuals and Households Program Registrations for PR: 72,072 (+6,038) and USVI: 4,603 (+112) *(Open Disaster IA Summary, October 1, 2017, 3:07 p.m. EDT)*
- **Mutual Aid**

| Region | Jurisdiction | # of Request(s) | # of States Supporting |
|---|---|---|---|
| II | PR | 58 (+1) | 17 (0) |
| II | USVI | 30 (0) | 13 (0) |

*(EMAC Sit Rep #78, October 1, 2017, 8:00 p.m. EDT)*

## FEMA Region II:

- Region II RRCC not activated; some RRCC staff supporting NRCC operations
- FEMA Region II IMAT in St. Croix; Eight Region X IMAT members in St. Thomas, one in St. Croix; Region III IMAT in PR, en route to St. Croix *(FOD Update, October 2, 2017, 4:20 a.m. EDT)*
- Lease signed October 1 for Joint Field Office location at University of the Virgin Islands in St. Thomas, anticipate partial opening by October 3 *(GSA Update, October 1, 2017, 3:21 p.m. EDT)*
- **Puerto Rico:**
  - EOC at Full Activation with limited operations and on generator power
  - Federal Coordinating Officer (FCO) is Alejandro De La Campa *(RII DSAR, September 27, 2017, 3:00 p.m. EDT)*

- **U.S. Virgin Islands:**
  - EOCs on each island at Full Activation *(RII DSAR, September 27, 2017, 3:00 p.m. EDT)*
  - USVI IOF located at St. Thomas EOC
  - FCO is William Vogel *(RII DSAR, September 27, 2017, 3:00 p.m. EDT)*

## Interagency Coordination for Puerto Rico:

- ***ESF-1: Transportation***
  - T.S. Empire State (600 beds) arrived in San Juan to provide responder berthing October 1 *(ESF-1 Update, October 2, 2017, 12:38 a.m. EDT)*
  - Airports:
    - Luis Muñoz Marín International Airport (SJU) in San Juan
      - 35 commercial departures and arrivals October 2 *(TSA SitRep, October 1, 2017, 7:00 p.m. EDT)*
      - Passenger throughput continues to increase; 6,060 outbound passengers processed September 30 *(ESF-1 Update, October 1, 2017, 1:50 p.m. EDT)*
  - Roads:
    - Starting October 2nd, U.S. Fish and Wildlife Service will use one fixed-wing aircraft to conduct transportation infrastructure overflights once daily *(DOI Update, October 1, 2017, 11:53 p.m. EDT)*
    - Major state roads continue to reopen without exception in both directions; PR-2 is open from Ponce to San Juan on western side of the island *(ESF-1 Update, October 1, 2017, 12:40 p.m. EDT)*
    - Twenty-six chainsaw teams (52 personnel) and one Type-2 Incident Management Team (IMT) (29 personnel) continue clearing roads to fire stations and other critical facilities, including three miles of road along PR-3 (PR-192 South to Humacao), four miles of road along PR-140 (Jayuya to Utuado), and entire road (two miles) to Federal Aviation Administration Doppler weather radar station *(ESF-4 Update, October 1, 2017, 12:40 p.m. EDT)*
    - Sixty-two private contractor work-crews performing debris-removal throughout the four regions and San Juan metro area
    - DOD completed seven road debris clearance missions to date including PR 31, PR 924, PR 60 and runway and taxiway clearance at Roosevelt Roads *(DoD Update, October 2, 2017, 1:00 a.m. EDT)*
  - Transit: Autoridad Metropolitana de Autobuses (AMA) has eight routes open from 7:00 a.m. to 5:00 p.m., with 40 buses in service *(ESF-1 Update, October 1, 2017, 2:02 p.m. EDT)*
- ***ESF-2: Communications***
  - 280 satellite phones arrived in PR September 30 (520 to date), being tested and distributed throughout PR *(ESF-2 Update, October 1, 2017, 10:09 p.m. EDT)*
  - MERS personnel continue to assess Land Mobile Radio (LMR) coverage to ensure all hospitals fall within coverage ranges; working to develop tracking by primary, alternate, contingency and emergency communications capabilities *(ESF-2 Update, October 1, 2017, 9:30 a.m. EDT)*
  - SMS text messaging available to Iridium satellite phones *(ESF-2 Update, October 1, 2017, 4:44 p.m. EDT)*
- ***ESF-3: Public Works and Engineering***
  - Temporary Power:
    - Completed 80 of 135 requested generator pre-installation inspections; 17 installations completed to date and 15 in progress at priority medical facilities and Roosevelt Roads Naval Base; 79 requested generators available on hand *(ESF-3 Update, October 2, 2017, 1:47 a.m. EDT)*
    - Priorities for temporary power restoration are Mayaguez la Conception Medical Center, Bayamon Public Hospital and Hospital HIMA San Pablo Fajardo *(ESF-3 Update, October 2, 2017, 1:47 a.m. EDT)*
    - Temporary power installations completed for PR Electric Authority Data Center, Centro Cardiovascular de PR y del Caribe, and Departamento Recreacion y Deportes *(ESF-3 Update, October 2, 2017, 1:47 a.m. EDT)*
  - Dams:
    - Guajataca Dam spillway eroding; immediate risk reduction measures ongoing to stabilize dam spillway and clear outlet blockage
      - Civil Air Patrol (CAP) completed 4 sorties October 1; focused on Guajataca dam from multiple angles and observed no changes to situation *(DoD Update, October 2, 2017, 1:00 a.m. EDT)*
      - Loading 900 super sandbags with gravel; additional 900 sandbags en route October 2

- United States Marine Corps (USMC) rotary wing assets will begin placing concrete barriers and super sandbag reinforcement along compromised portions of spillway channel October 2, pending power line removal by PREMA *(ESF-3 Update, October 2, 2017, 1:47 a.m. EDT)*
- Eleven of 17 priority dam inspections complete *(ESF-3 Update, October 1, 2017, 11:02 a.m. EDT)*

- Temporary Roofing:
  - Current estimates: 60K roofs damaged
  - Collected 656 Right of Entry Agreements, assessed 26 homes
  - Task order issued to roofing contractor; will begin roofing after October 5 upon arrival of 10,000 rolls of sheeting (25,000 requested); priority is critical public facilities; additional tarps on order and will arrive throughout October *(ESF-3 Update, October 1, 2017, 11:02 a.m. EDT)*
- Two USFWS fixed-wing aircraft arrived September 30; mission to provide infrastructure support for damaged facilities will start October 1; anticipate one rotary-wing aircraft will be available for deployment October 4 *(DOI Update, October 1, 2017, 1:30 a.m. EDT)*

- ***ESF-4: Firefighting***
  - Type 1 IMT (49 personnel) coordinating ISB establishment at Rafael Hernandez Airport to support commodity distribution *(ESF-4 Update, October 2, 2017, 12:04 a.m. EDT)*
  - One Type-2 IMT (85 personnel) coordinating resources and assessing firefighting capabilities in support of PR Fire department; 76 of 95 fire stations assessed, all have some structural damage, limited communications, and staffing and fuel needs *(ESF-4 Update, October 1, 2017, 5:30 p.m. EDT)*
- ***ESF-6: Mass Care, Emergency Assistance, Housing, and Human Services***
  - Feeding:
    - Salvation Army continuing feeding at seven sites, distributed 65,000 shelf stable meals to three cities; Salvation Army commodities beginning to arrive via air
    - American Red Cross distributed 13,800 bulk items October 1 (23,000 to date) *(ESF-6 Update, October 1, 2017, 1:14 p.m. EDT)*
  - Disaster Survivor Assistance (DSA) staff conducted Assess, Inform, and Report (AIR) missions in Barceloneta, Florida, Juan Diaz, Peneulas, Naranjito and Caguas *(ESF-6 Update, October 2, 2017, 1:17 a..m. EDT)*
- ***ESF-7: Logistics Management and Resource Support***
  - Incident Support Bases (ISBs):
    - Roosevelt Roads Airport and Rafael Hernandez Airport in Aguadilla open for air operations; Ponce Air/Sea port is open for operations with sea port restrictions; Aguadilla contract signed October 1; ESF-4 Type-1 IMT (49 personnel) completed preparations for billeting and Resource Staging Areas (RSAs) at Rafael Hernandez Airport *(ESF-7 Update, October 1, 2017, 3:11 p.m. EDT)*
    - Preparing to open Ponce Air/Sea Port and Marine Corps support facility at Blount Island *(ESF-7 Update, October 2, 2017, 3:10 a.m. EDT)*
  - Commodities:
    - DLA now sourcing a total of 334 (+30) generators to support USVI/PR needs *(ESF-7 Update, October 1, 2017, 3:20 p.m. EDT)*
    - 600K tarps on order; 124K will arrive by end of October on following delivery schedule:
      - October 6: 4K
      - October 20: 60K
      - October 27: 60K *(ESF-3 Update, October 1, 2017, 11:02 a.m. EDT)*
    - Puerto Rico National Guard armories will convert 12 facilities to serve as additional Resource Staging Areas (RSAs) for food and water for a total of 23 RSAs *(NGB Update, October 1, 2017, 2:19 p.m. EDT)*
    - Flights into Puerto Rico October 2: 15 flights transporting 136,000 liters of water, 230,000 meals, personnel, 12 black hawk helicopters, 900 sandbags, and a VA Mobile Medical unit *(MCC Tracking Schedule, October 2, 2017, 3:11 a.m. EDT)*
    - Ships into Puerto Rico:
      - Buoy tender Elm and USCG Cutter Venturous delivered 3000 gallons of potable water, seven pallets of bottled water, 12 pallets of MREs and 3800 gallons of diesel fuel to Vieques *(USCG Update, October 1, 2017, 1:58 p.m. EDT)*

- El Rey transporting 756,000 liters of water, 694,000 meals, and four generators; expected to arrive and unload October 2 *(ESF-7 Update, October 1, 2017, 7:16 p.m. EDT)*
- Seven DOD vessels scheduled to arrive in PR by October 5 with 3.5 million liters of water, 5.5 million meals, four generators, and 11,500 rolls of blue roof sheeting *(DOD Update, September 30, 2017, 12:35 p.m.)*

- Responder Lodging

| Name/Vessel | Status | Destination/Port | Arrival Date | Beds Capacity | Beds Occupied | Beds Open |
|---|---|---|---|---|---|---|
| PR Convention Center | Operational | PR: San Juan | Arrived | 900 | 916 | 84 |
| TS Kennedy | Operational | PR: San Juan | Arrived | 600 | 600 | 0 |
| TS Empire State | Operational | PR: San Juan | Arrived | 600 | | |
| La Suprema | En route | PR | 10/5 | 2,200 | | |
| Adriana | En route | PR | 10/6 - 10/9 | 302 | | |
| Rhapsody | En route | PR | 10/10 - 10/12 | 2,044 | | |
| JMC 3330 | Secured | PR | 10/19 | 430 | | |
| | | | **PR TOTAL:** | **6,726** | **1,516** | **-16** |

*(Responder Lodging CAP Update, October 1, 2017, 4:00 p.m. EDT)*

  - USCG completed inspection of La Suprema; will arrive in PR October 4; inspectors en route to complete inspections of contract ships Rhapsody and Adrianna *(USCG Update, October 1, 2017, 1:58 p.m. EDT)*

- ***ESF-8: Public Health and Medical Services***
  - Hospitals:
    - Power restored to fourteen (20%) hospitals (back on electrical grid), unconfirmed whether hospitals still require generator power *(ESF-8 Update, October 1, 2017, 1:56 p.m. EDT)*
    - Frensenius Kidney Care reports 3,431 of 3,483 patients accounted for and receiving treatment
    - Oxygen shortfall in PR, solutions include flying in liquid oxygen and sourcing six-megawatt generator for private facility
    - HHS Air Tasking Order missions are continuing search and rescue in Utuado district on October 1 *(ESF-8 Update, October 1, 2017, 7:00 a.m. EDT)*
  - Dialysis Centers:
    - 46 of 48 open, 44 are fully operational, two are partially operational, two closed
    - FEMA secured private contractor to provide fuel and water exclusively to functional dialysis clinics *(ESF-8 Update, October 1, 2017, 7:00 a.m. EDT)*
  - USNS Comfort is expected to arrive October 4 with 522 medical personnel and support staff; medical care capabilities include general practice, family medicine nephrology, and pediatrics; the ship is capable of servicing 200 patients per day *(DoD Update, October 2, 2017, 1:00 a.m. EDT)*
  - Four boxes of platelets and one box of red blood cells expected to arrive in San Juan October 2 *(ESF-8 Update, October 2, 2017, 1:49 a.m. EDT)*
  - ESF-4 reassigning Type-2 IMT Parrish (26 personnel) from St. Thomas to PR to support commodity distribution to hospitals *(ESF-4 Update, October 1, 2017, 12:21 a.m. EDT)*
- ***ESF-9: Search and Rescue***
  - Two FEMA Urban Search and Rescue (US&R) task forces (80 personnel) active in Puerto Rico *(ESF-9 Update, October 1, 2017, 11:04 a.m. EDT)*
- ***ESF-11: Agriculture and Natural Resources***
  - HSUS evacuated 259 animals to date; additional animal evacuations planned throughout this coming week
  - Thirteen of 84 Food Safety Inspection Service regulated facilities open but not operational due to power outage and lack of potable water *(ESF-11 Update, October 1, 2017, 1:50 p.m. EDT)*
- ***ESF-12: Energy***
  - Power: DOE, FEMA, and DLA working to facilitate fuel and conducting restoration plans for critical facilities and emergency response *(DOE SitRep #69, October 1, 2017, 12:00 p.m. EDT)*
- ***ESF-13: Public Safety and Security***
  - Four additional quick response teams (QRTs) (25 personnel each) arriving October 4 *(ESF-13 Update, October 1, 2017, 5:33 p.m. EDT)*
  - Federal Protective Service (FPS) personnel conducting site security assessments at the severely damaged Hato Rey Federal Complex; 38 additional FPS personnel expected to arrive October 2 to support security at Disaster Recovery Centers *(FPS Update, October 1, 2017, 1:22 p.m. EDT)*

- ***ESF-15: External Affairs***
  - Coordinating with White House on outreach call to PR mayors scheduled October 2; meeting with mayors at the Joint Field Office scheduled October 4
  - Developed a plan to leverage Coca-Cola's truck fleet for distribution of medical supplies from UPS and FedEx
    - Private Sector Status:
      - Walmart: 27 of 46 stores open
      - Walgreens: 76 sites open and operating on a modified basis, 45 sites closed
      - CVS: 20 of 25 retail stores/pharmacies open
      - Crowley: Shipping capacity at 50%
      - Banco Popular: 15% of ATMs functional with cash *(ESF-15 Update, October 1, 2017, 10:00 p.m. EDT)*
- ***U.S. Department of Defense (DOD)***
  - USS WASP, USS KEARSARGE, and USS OAK HILL providing rotary wing support to FEMA mission sets as required; Marines and Sailors integrated with FEMA Task Forces and providing manpower, analysis, route clearance, and commodity distribution support
  - Strategic airlift in support of FEMA's response operations:
    - Six C-5, nine C-17s, and three C-130s arrived on October 1
    - Six C-5s, four C-17s, and one C-130 planned for October 2 *(DoD Update, October 2, 2017, 1:00 a.m. EDT)*
- ***National Guard Bureau (NGB)***
  - Coordinating to source additional water purification, route clearance, and security capabilities from CONUS states; most contributing states have EMACs in place and are awaiting movements of their units; 9 of 10 rotary-wing aircraft are full mission-capable *(NGB Update, October 1, 2017, 10:00 p.m. EDT)*
  - PR National Guard provided fuel for generators at Department of Health Laboratory and two hospitals
  - Coordinating movement of approximately 1,700 personnel through October 3, with as many as 6,000 personnel postured to respond to PR requests, pending flight availability *(NGB Update, October 1, 12:23 p.m. EDT)*
- ***U.S. Department of the Interior (DOI)***
  - U.S. Fish and Wildlife Service (USFWS) supporting DOI mission to include supplies and reconstruction of DOI facilities *(DOI Update, October 1, 2017, 11:53 p.m. EDT)*

## Interagency Coordination for U.S. Virgin Islands:

- ***ESF-1: Transportation***
  - All traffic signals on St. Thomas and St. Croix completely destroyed; new system will be necessary *(ESF-1 Update, October 1, 2017, 4:00 p.m. EDT)*
  - Airports:
    - St. Thomas: Limited commercial air operations; inter-island commercial flights resumed September 30 *(ESF-1 Update, October 1, 2017, 2:02 p.m. EDT)*
      - Four commercial departures and arrivals per day *(TSA SitRep, October 1, 2017, 9:26 p.m. EDT)*
      - Lack of local personnel to load/unload commercial aircraft may impact continuing commercial flights into St. Thomas; U.S. Air Force no longer able to augment capability *(USVI SitRep, October 1, 2017, 10:09 p.m. EDT)*
    - St. Croix: Henry E. Rohlsen Airport in St. Croix (STX) open with restricted operations; military/humanitarian flights and air carriers with less than 35 passengers only *(ESF-1 Update, October 2, 2017, 12:48 a.m. EDT)*
  - Roads:
    - All highways on St. Croix open with at least one lane of traffic; commercial vehicle movement remains limited due to clearance issues with leaning trees and power lines *(ESF-1 Update, October 1, 2017, 6:03 p.m. EDT)*
    - St. John: National Park Service (NPS) reports that 75% of roads assessed (three of four main roads) are mostly clear, allowing for passage of at least one lane *(ESF-1 Update, October 1, 2017, 12:09 p.m. EDT)*
    - Mahagony Road is impassible; Mahagony Road and Bridges still need to be assessed *(ESF-1 Update, October 1, 2017, 2:21 p.m. EDT)*
  - Ports: NOAA vessel Thomas Jefferson completed channel survey on October 1; USCG cutter Cypress assessed and corrected aids to navigation (ATON) *(USCG Update, October 1, 2017, 6:00 p.m. EDT)*

- ***ESF-2: Communications***
  - FEMA executed a contract with HughesNet to provide voice and data via satellite services for the islands *(USVI SITREP #16/#009, October 1, 2017, 10:09 p.m. EDT)*
  - SMS text messaging available to Iridium Satellite Phones *(ESF-2 Update, October 1, 2017, 4:44 p.m. EDT)*
- ***ESF-3: Public Works and Engineering***
  - Temporary Power:
    - Completed 129 of 155 requested pre-installation inspections; 23 generators installed to date and 6 more in progress; 55 generators available on hand
    - Generators being installed at Golden Grove Prison *(ESF-3 Update, October 2, 2017, 1:47 a.m. EDT)*
  - Employed Very Small Aperture Terminal (VSAT) at VITEMA, satellite communications system that serves home and business users, on St. Croix October 1; expected to significantly improve USACE communications *(ESF-3 Update, October 2, 2017, 1:47 a.m. EDT)*
  - Debris:
    - St. Thomas: USACE estimates debris volume at 355,000 cubic yards; debris removal operations to begin October 2
    - St. Croix: Estimated 1,500 cubic yards debris collected by Department of Public Works and sub-contractors to date
    - St. John: USACE estimates debris volume at 33,000 cubic yards; debris removal operations to begin October 8
  - Temporary Roofing
    - Current blue roof estimates: St. Croix: 5,000, St. Thomas: 7,000, and St. John: 1,000
    - Assessed 128 homes, installed 43 roofs; collected 1,340 Right of Entry Agreements *(ESF-3 Update, October 2, 2017, 1:47 a.m. EDT)*
- ***ESF-4: Firefighting***
  - Type 2 IMT (20 personnel) assigned to logistical commodity distribution (MRE's, water, and other food) in St. Croix; waiting lease of warehouse near airport; ships on port providing lodging and food for IMT personnel *(ESF-4 Update, October 2, 2017, 12:04 a.m. EDT)*
- ***ESF-6: Mass Care, Emergency Assistance, Housing, and Human Services***
  - Feeding
    - 4,000 infant and toddler supplies scheduled to arrive October 4
- ***ESF-7: Logistics Management and Resource Support***
  - Preparing to open ISBs in St. Thomas (Cyril E. King Airport) and St. Croix (Limetree Bay Terminal); staging materials for lots *(ESF-7 Update, September 29, 2017, 2:46 p.m. EDT)*
  - Commodities:
    - Planning to ship 1,152 rolls of Blue Roof Plastic Sheeting from Miami, FL to St. Croix on October 2 *(ESF-7 Update, October 2, 2017, 3:10 a.m. EDT)*
    - Vehicles: GSA working to secure an agreement with Hertz to source 58 vehicles for shipment to St. Thomas *(GSA Update, October 1, 2017, 1:19 p.m. EDT)*
    - Generators: DLA now sourcing a total of 334 (+30) generators to support USVI/PR needs; ESF-7 working logistics of getting generator needs to St. Croix and St. John (*ESF-7 Update, October 1, 2017, 3:20 p.m. EDT)*
    - ESF-4 Type-2 IMT Parrish assigned to commodity distribution on St. Thomas; will manage LSA at Haven-site dock; GSA contract for LSA warehouse not yet finalized; estimated completion October 3 *(ESF-4 Update, September 30, 2017, 2:23 p.m. EDT)*
    - Flights into USVI October 2:
      - St. Thomas: One flight transporting 40,000 meals
      - St. Croix: Six flights transporting 80,000 meals, 30 generators, medical supplies and personnel *(MCC Tracking Schedule, October 2, 2017, 3:11 a.m. EDT)*
      - Ships into Puerto Rico: USCG Cutter Winslow Griesser transferred four cases of prescription medication from St. Thomas to St. Croix *(USCG Update, October 1, 2017, 1:58 p.m. EDT)*

- Responder Lodging

| Name/Vessel | Status | Destination/Port | Arrival Date | Beds Capacity | Beds Occupied | Beds Open |
|---|---|---|---|---|---|---|
| Grand Celebration | Operational | USVI: St. Croix | Arrived | 1,700 | 1,137 (+227) | 563 |
| SS Wright | Operational | USVI: St. Thomas | Arrived | 315 | 180 (+23) | 135 |
| Ocean Constructor | Operational | USVI: St. Thomas | Arrived | 196 | 52 (+3) | 144 |
| Ocean Carrier | En route | USVI: St. Thomas | 10/8 | 123 | | |
| Azura | En route | USVI: St. Thomas | 10/10 – 10/12 | 1,808 | | |
| | | | **TOTAL:** | **4,142** | **1,116** | **1,369** |

*(Responder Lodging CAP Update, October 1, 2017, 4:00 p.m. EDT)*

  - USCG must inspect Azzure before it can accept responders for berthing; inspectors en route *(USCG Update, October 1, 2017, 1:58 p.m. EDT)*

- ***ESF-8: Public Health and Medical Services***
  - Royal Caribbean ship departed September 29 for Ft. Lauderdale, transporting 3,188 passengers from St. Croix (533), St. John and St. Thomas (533), and San Juan (1,791) and 121 pets; will arrive October 3 *(ESF-15 Update, October 1, 2017, 10:00 p.m. EDT)*
  - 65 dialysis patients that were evacuated from USVI to Florida prior to Hurricane Maria making landfall relocated to Atlanta, GA October 1 *(ESF-8 Update, October 2, 2017, 1:49 a.m. EDT)*
    - FEMA connected Safety Net Hospital Alliance of Florida with HHS regarding transfer and evacuation protocols in the state of Florida *(ESF-15 Update, October 1, 2017, 10:00 p.m. EDT)*
- ***ESF-10: Oil and Hazardous Material Response***
  - Environmental Protection Agency and USVI Department of Planning and Natural Resources (DPNR) drinking water teams assessed 101 of 161 total (62%) public water systems in St. Croix and tested the 66 that were still functional; of 26 testing positive for E. Coli, 11 were disinfected or otherwise brought back into compliance, remaining 15 require follow-up from DPNR and EPA *(ESF-10 Update, October 1, 11:24 a.m. EDT)*
- ***ESF-11: Agriculture and Natural Resources***
  - Only Food Safety Inspection Service facility, privately owned, remains closed due to lack of power and potable water *(ESF-11 Update, October 1, 2017, 1:50 p.m. EDT)*
- ***ESF-12: Energy***
  - 45 mutual aid workers from New England public Power Utilities and 210 contractors will travel by commercial air week of October 1 to support restoration efforts on St. Thomas and St. Croix, date to be determined *(ESF-12 Update, October 1, 2017, 4:00 p.m.)*
  - No fuel supply shortages on St. Thomas or St. John *(DOE SitRep #69, October 1, 2017, 12:00 p.m. EDT)*
  - DLA shipment of approximately 15,000 gallons of propane expected to arrive October 5; will proceed to St. Thomas and St. Croix as needed *(DLA Update, October 2, 2017, 5:00 a.m.)*
- ***U.S. Department of Defense (DOD)***
  - U.S. Transportation Command (USTRANSCOM): Three C-17s and six C-130s arrived October 1 with water, meals, communication support, High Mobility Multi-Wheeled Vehicles with generators, helicopters, and infant and toddler kits
  - Defense Logistics Agency (DLA):
    - Working requirement for up to 200,000 water jugs and researching requirement for additional four water pumps *(DoD Update, October 1, 2017, 2:06 a.m. EDT)*
    - Received requirement for 30 additional generators for St Thomas, VI *(DoD Update, October 2, 2017, 1:00 a.m. EDT)*
- ***National Guard Bureau (NGB)***
  - Eight of ten rotary wing aircraft are fully mission-capable; 2 HH-60 MEDVAC aircraft from VT arrived September 30th and will assume recovery mission once flight tested *(NGB Update, October 1, 2017, 10:00 p.m. EDT)*
- ***U.S. Department of the Interior (DOI)***
  - Motor Vessel Fort Jefferson en route from PR to St. John October 1, transporting supplies and displaced staff; will disembark National Park Service Law Enforcement Special Event Tactical Team to relieve current team before continuing to St. Croix October 2 *(DOI Update, October 1, 2017, 1:45 p.m. EDT)*
  - National Park Service: Virgin Island National Park (St. John) 400 foot pier assessed October 1; due to debris and sediment additional assessment needed before placing a hoteling barge at the dock *(DOI Update, October 1, 2017, 11:53 p.m. EDT)*

- ***U.S. Department of State (DoS)***
  - Two-man advance Denmark Emergency Management Agency team arriving in St. Croix October 2, will collaborate with FEMA to better understand current situation and match capabilities offer by Denmark against requirements on the ground *(FEMA International Affairs update, October 2, 2017)*

## Commodities Tables

- The following commodities have arrived in USVI and PR:

| | Total Arrived Qty | | |
|---|---|---|---|
| | Meals | Tarps | Water |
| St. Thomas | 3,436,785 | 15,485 | 1,840,213 |
| St. Croix | 738,960 | 10,000 | 427,000 |
| USVI Total | **4,175,745** | **25,485** | **2,267,213** |

*(ESF-7 Update, October 1, 2017 1:30 p.m. EDT)*

| | Total Arrived Qty | | | | |
|---|---|---|---|---|---|
| | Meals | Tarps | Water | Generator | Cots |
| PR | 4,386,230 | 5,000 | 4,614,714 | 82 | 22,202 |

*(ESF-7 Update, October 1, 2017 1:30 p.m. EDT)*

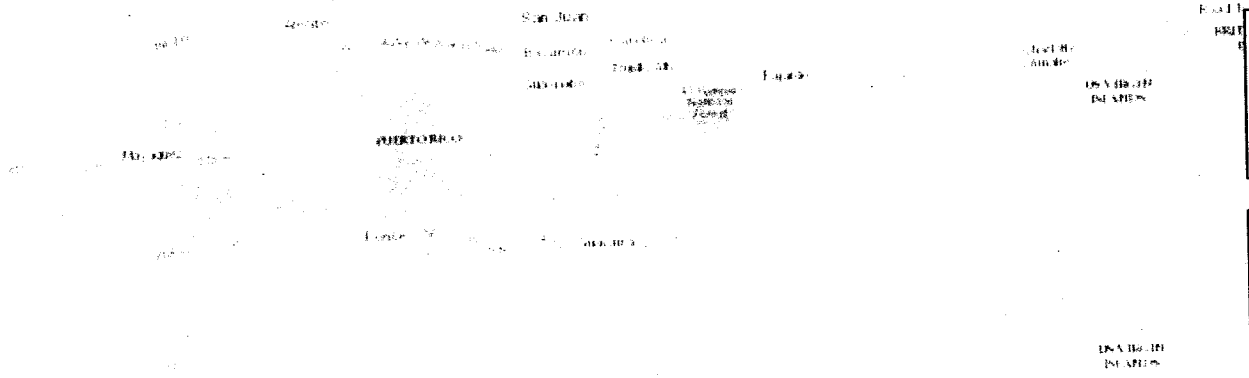
# Maria Force Laydown

## As of October 02, 2017 05:00 a.m. EDT

**Puerto Rico:**
**FEMA:** N-IMAT-E2
**ESF-1:** TS KENNEDY; TS Empire State
**ESF-2:** MERS; MEOV 32
**ESF-3:** Roofing Teams; Power & Debris PRTs; 249th
**ESF-4:** Type 1 IMT; 2 Type 2 IMT w/ 26 Saw Teams
**ESF-8:** SAT; 11 DMAT; CDC; APHT; DMORT; HMTF; MHT
**ESF-9:** IST; 2 Type 4 US&R
**ESF-12:** IMAT Support

**ESF-13:** QRTs
**CAP:** Aerial Support
**CBP:** SRT
**USCG:** IMAT; NSF; 9 Cutters
**DOD:** DCE
**VA:** 2 Mobile Medical Teams

**St. Thomas:**
**FEMA:** 1 RX-IMAT
**ESF-1:** SS Wright
**ESF-2:** MERS
**ESF-3:** Roofing Teams; Power & Debris PRT; 249th
**ESF-4:** Type 2 IMT
**ESF-8:** HMTF
**ESF-12:** IMAT Support; Power Restoration Team
**CBP:** SRT; OIT
**DOD:** DCE; ASMC; GST; CAISE
**USCG:** NSF, 1 Cutter



**St. John:**
**ESF-2:** MERS
**ESF-3:** 249th
**ESF-8:** HMTF
**DOD:** Medical Detachment Team
**CAP:** Aerial Support

**St. Croix/Christiansted:**
**FEMA:** 2 RII-IMAT & RX-IMAT
**ESF-2:** MERS; MEOV 51
**ESF-3:** Roofing Teams; Power & Debris PRT; 249th
**ESF-4:** Type 2 IMT
**ESF-8:** CDC, HMTF, DMAT
**ESF-12:** IMAT Support
**CBR:** SRT; OIT
**DOD:** DCE; CAISE
**USCG:** NSF, 2 Cutters

**AT SEA:**
**DOD:** USS KEARSARGE; USS OAK HILL
**USCG:** 5 Cutters

# Hurricane Irma/Maria – FEMA Responder Laydown *(As of October 2, 2017 2:00AM EDT)*

**Total FEMA Supporting Hurricane Irma/Maria Actions on Puerto Rico and US Virgin Islands:** Responders on the Ground: **960**

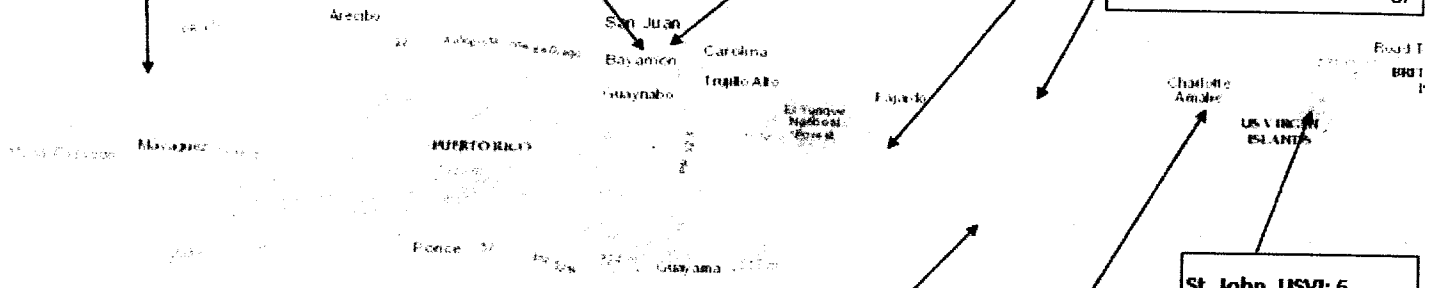
**Aguadilla, PR: 3**
FEMA Responders: 3

**San Juan/ Carolina, PR: 561**
Other FEMA Responders: 453
N-IMAT E2: 27
SCF: 76
FEMA Corps: 5

**Hato Rey, PR: 68**
FEMA Responders: 68

**Ceiba, PR: 6**
FEMA Responders: 6

**Culebra Island, PR: 1**
(FEMA Corps will be returning)




**St. John, USVI: 6**
FEMA Responders: 6

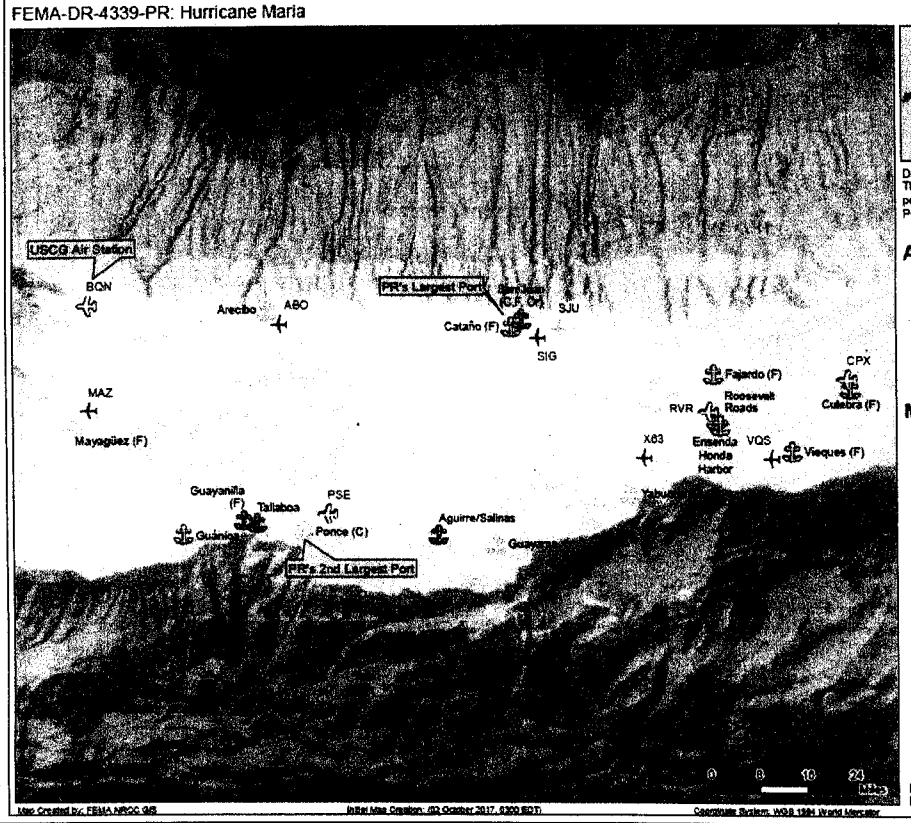
**Vieques, PR: 1**
FEMA Responders: 1

**St. Thomas, USVI: 47**
FEMA Responders: 37
SCF: 2
R-IMAT X: 8

**St. Croix, USVI: 267**
R-IMAT II: 10
R-IMAT X: 1
Other FEMA Responders: 165
SCF: 85
FEMA Corp: 6

## Maritime Ports & Airports Status: Puerto Rico (02 October 2017, 0300 EDT)

FEMA-DR-4339-PR: Hurricane Maria




Data Layer/Map Description:
This map depicts the status of maritime ports and airports throughout Puerto Rico

### Airport Status

- Open
- Open with Restrictions
- Military Air and Hurricane Relief Only
- Closed

### Maritime Port Status

- Closed
- Daylight Only Operations with Restrictions
- Daylight Only Operations
- Open

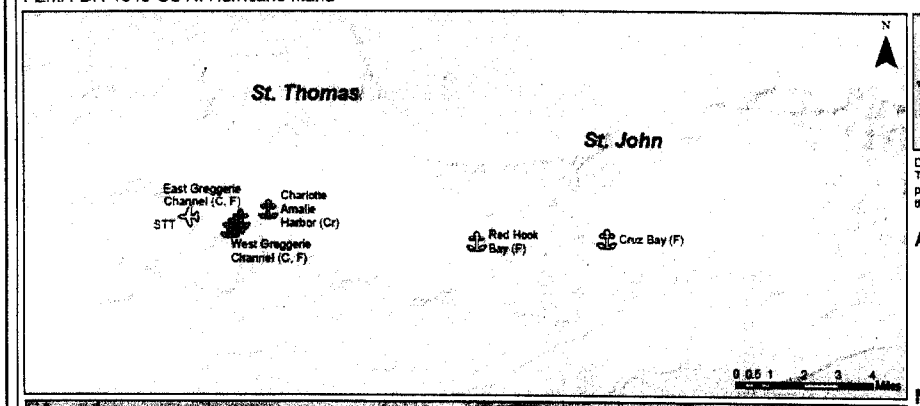
(C) Container Handling Port
(F) Fuel Handling Port
(Cr) Cruise Ship Port

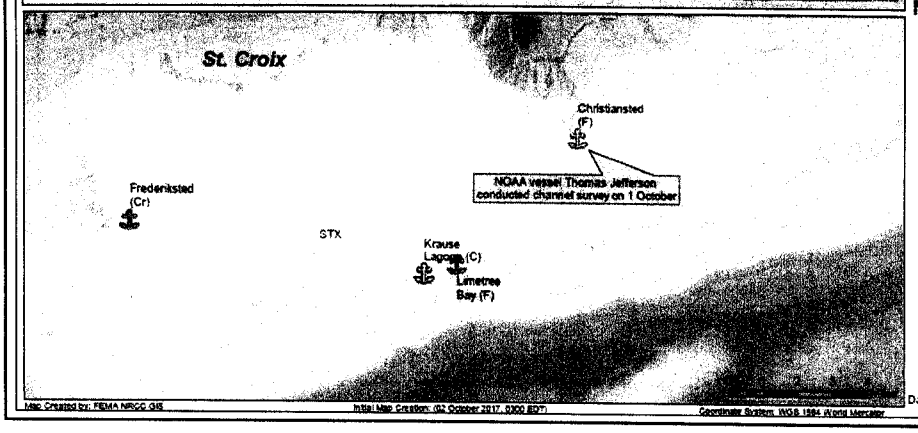
Data Sources: FEMA, ESRI, USCG, FAA

Map Created by: FEMA NRCC GIS | Initial Map Creation: (02 October 2017, 0300 EDT) | Coordinate System: WGS 1984 World Mercator

## Maritime Ports & Airports Status: US Virgin Islands (02 October 2017, 0300 EDT)

FEMA-DR-4340-USVI: Hurricane Maria




Data Layer/Map Description:
This map depicts the status of maritime ports and airports throughout the U.S. Virgin Islands.

### Airport Status

- Open
- Open with Restrictions
- Military Air and Hurricane Relief Only
- Closed

### Maritime Port Status

- Closed
- Daylight Only Operations with Restrictions
- Daylight Only Operations
- Open

(C) Container Handling Port
(F) Fuel Handling Port
(Cr) Cruise Ship Port

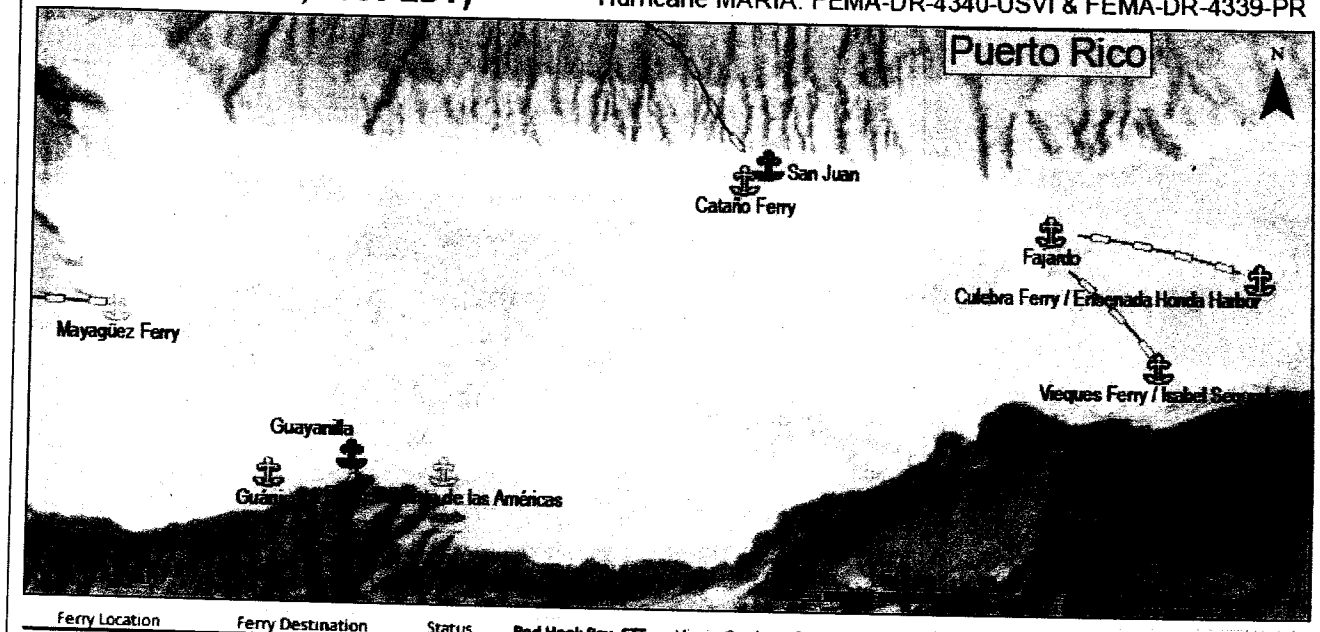
Data Sources: FEMA, ESRI, USCG, FAA

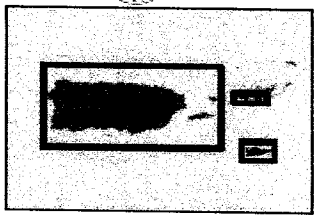
Map Created by: FEMA NRCC GIS | Initial Map Creation: (02 October 2017, 0300 EDT) | Coordinate System: WGS 1984 World Mercator

# Maritime Port Status shown with Known Ferry Line Status: PR and USVI (01 October 2017, 1700 EDT)

Hurricane MARIA: FEMA-DR-4340-USVI & FEMA-DR-4339-PR

FEMA



Data Layer/Map Description: This map depicts the status of ferry ports throughout Puerto Rico & the U.S.Virgin Islands. Port status does not equate to ferry line status. Closed ports are assumed to not run ferry service.

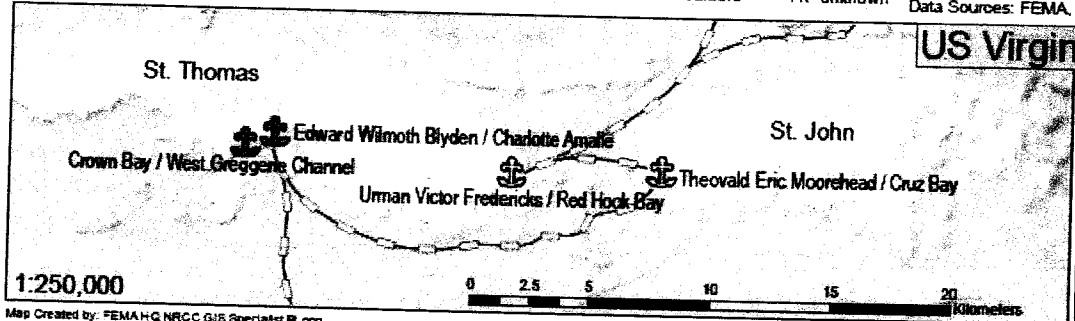
## Ferry Port Status

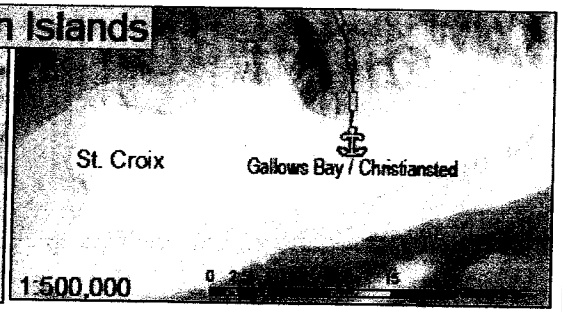
- Closed
- Daylight Only Operations with Draft Restrictions
- Daylight Only Operations
- Open
- Normal Ferry Routes

Ferry line routes are representative approximations, only. Information about ferry line status was collected online from commercial websites. These can not be confirmed at this time. This information is for planning purposes only.

| Ferry Location | Ferry Destination | | Status |
|---|---|---|---|
| Cruz Bay, STJ | Red Hook | STT | running |
| Charlotte Amalie, STT | Cruz Bay | STJ | running |
| | Tortola | BVI | running |
| | Frenchman's Reef | STT | running |
| | Virgin Gorda | BVI | running |
| | Christiansted | STC | running |
| | Fajardo | PR | not listed |
| Red Hook Bay, STT | Cruz Bay - Car | STJ | running |
| | Cruz Bay - Passenger | STJ | running |
| Red Hook Bay, STT | Virgin Gorda | BVI | running |
| | Jost Van Dyke | BVI | running |
| | Anegada | BVI | running |
| Crown Bay, STT | Water Island | STT | running |
| Christiansted, STC | Charlotte Amalie | STT | running |
| Culebra, PR | Fajardo | PR | unknown |
| Vieques, PR | Fajardo | PR | unknown |
| Fajardo, PR | Charlotte Amalie | STT | unknown |
| | Vieques | PR | unknown |
| | Culebra | PR | unknown |
| Fajardo, PR | Palomino | PR | unknown |
| Catano, PR | Old San Juan | PR | unknown |
| Guanica, PR | Cayo Aurora | PR | closed |
| Guayanilla, PR | Punta Cana | DR | unknown |
| Ponce, PR | Isle Caja de Muertos | PR | unknown |
| Mayaguez, PR | Santo Domingo | DR | unknown |
| San Juan, PR | Santo Domingo | DR | unknown |
| | San Juan Chateau | PR | unknown |
| | Catano Pueblo | PR | closed |

Data Sources: FEMA, ESRI, USCG, commercial websites



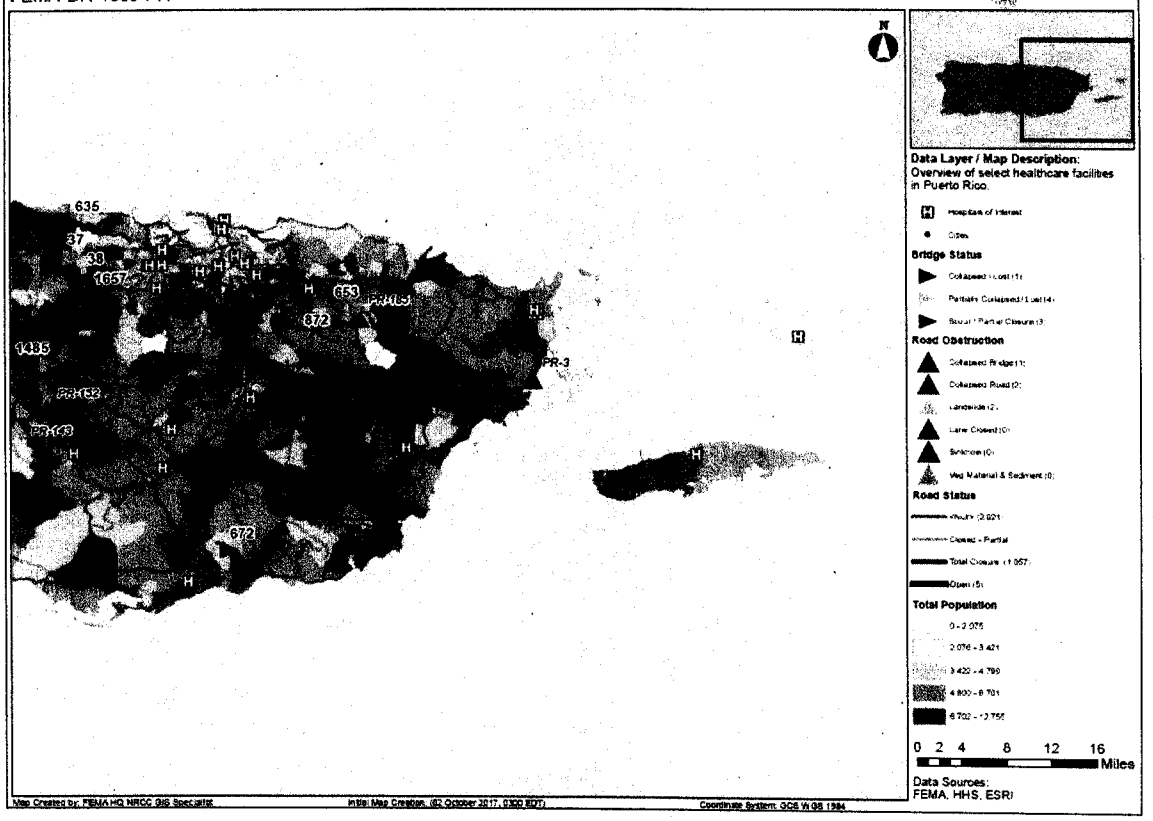

Map Created by: FEMA HQ NRCC GIS Specialist RLong

Initial Map Creation: (01 October 2017, 1700 EDT)

Coordinate System: WGS 1984 World Mercator

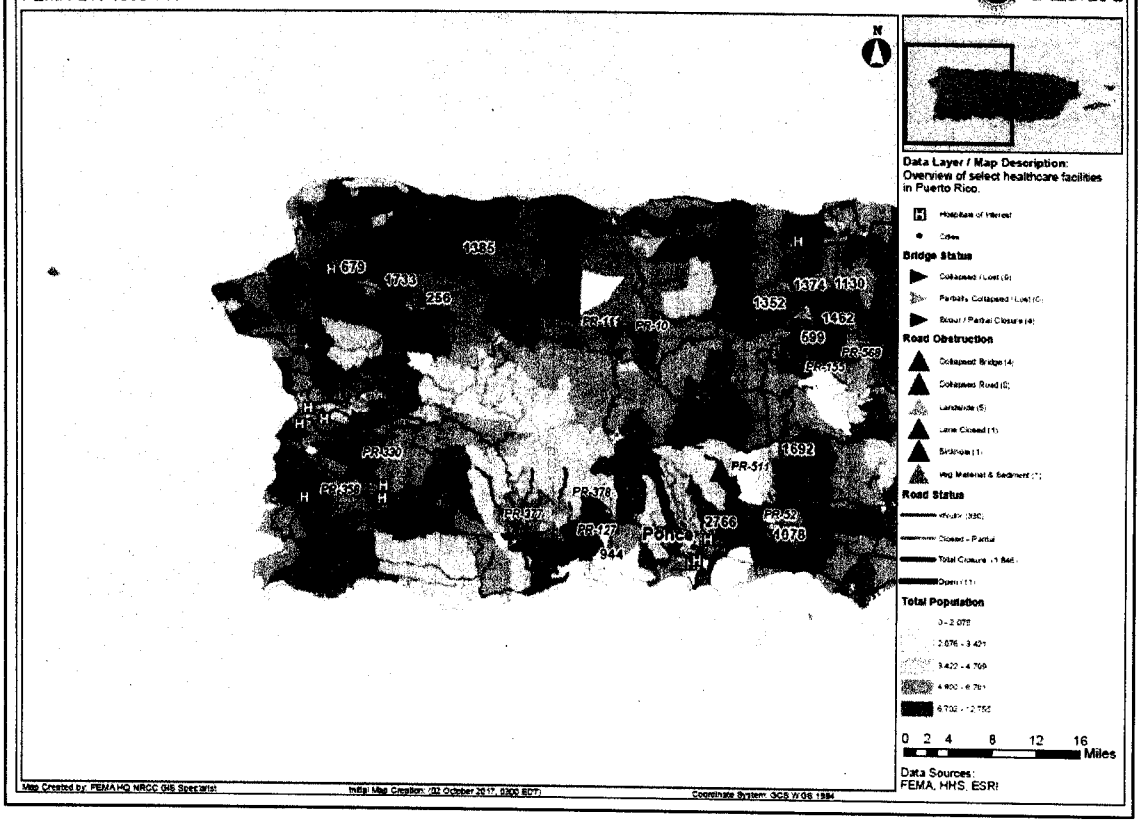
## Select Healthcare Facilities: Eastern PR (02 October 2017, 0300 EDT)

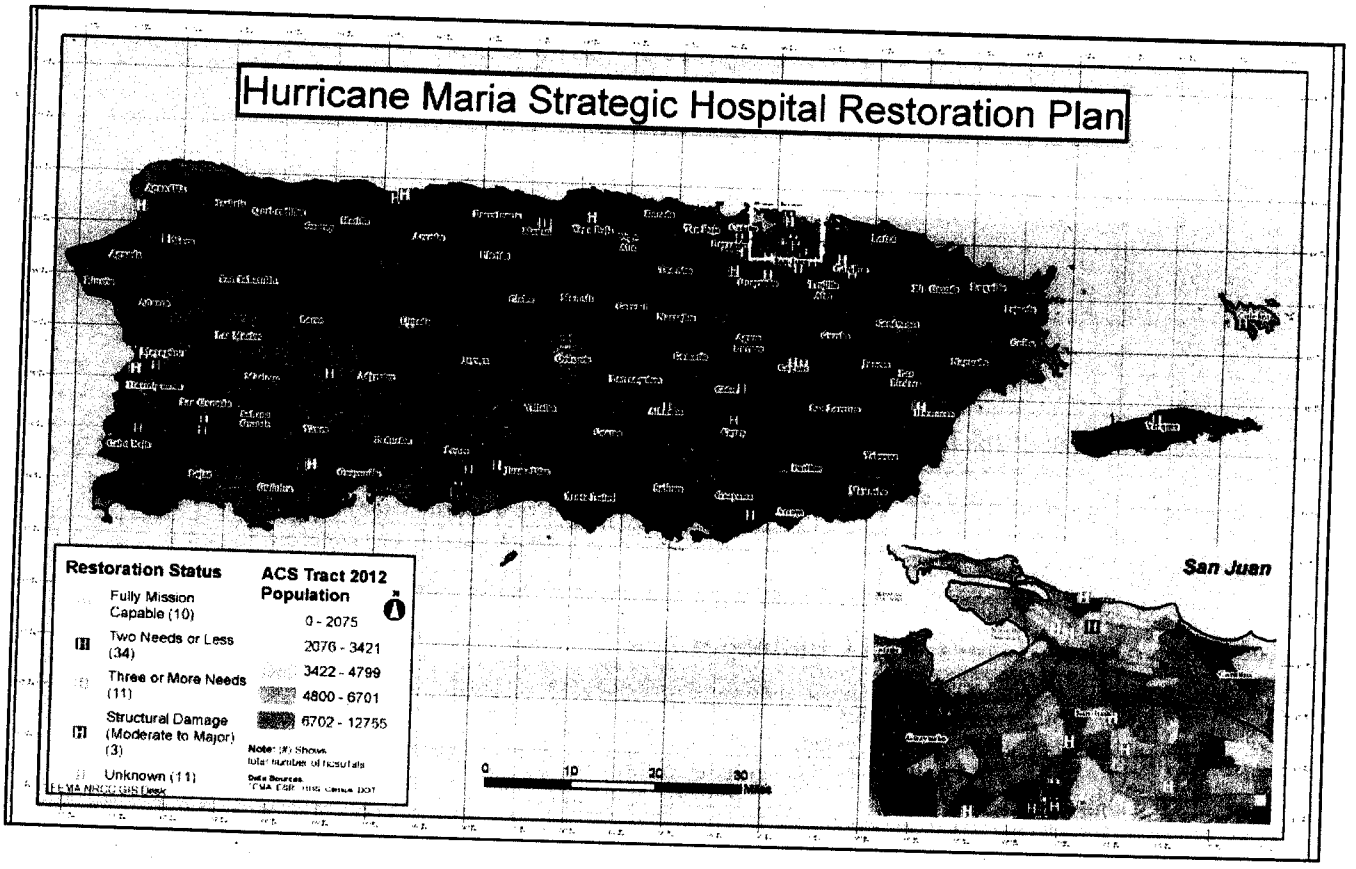
FEMA-DR-4339-PR

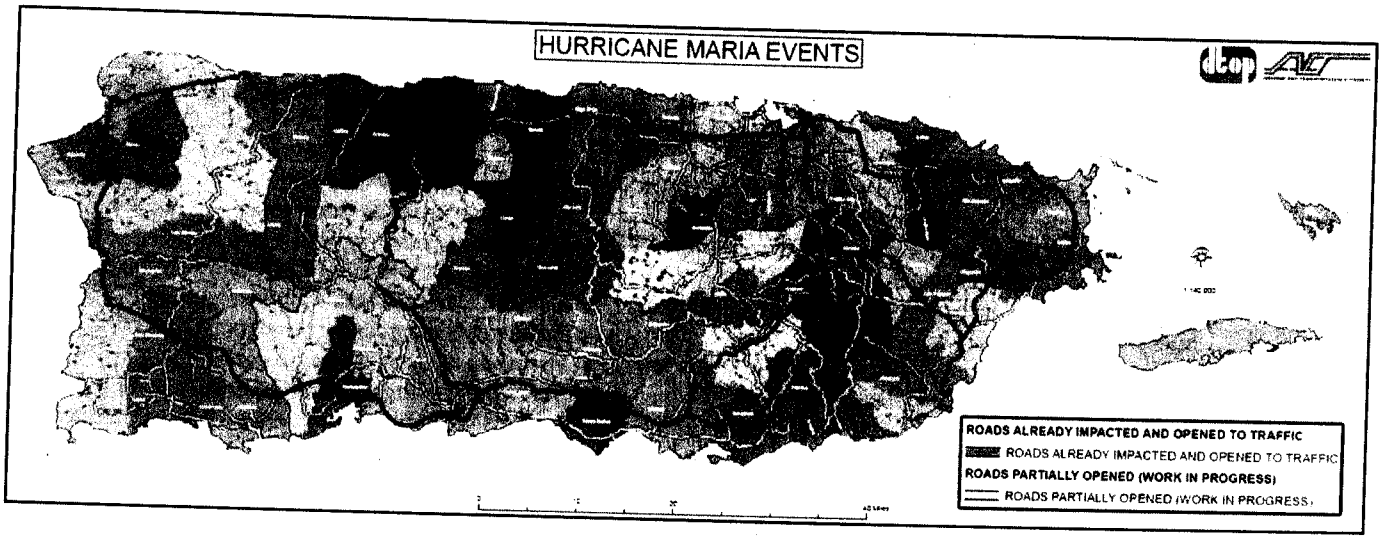



## Select Healthcare Facilities: Western PR (02 October 2017, 0300 EDT)

FEMA-DR-4339-PR




Hurricane Maria Strategic Hospital Restoration Plan
Restoration Status
Fully Mission Capable (10)
Two Needs or Less (34)
Three or More Needs (11)
Structural Damage (Moderate to Major) (3)
Unknown (11)
ACS Tract 2012 Population
0 - 2075
2076 - 3421
3422 - 4799
4800 - 6701
6702 - 12755
0
10
20
30
San Juan


HURRICANE MARIA EVENTS
ROADS ALREADY IMPACTED AND OPENED TO TRAFFIC
ROADS ALREADY IMPACTED AND OPENED TO TRAFFIC
ROADS PARTIALLY OPENED (WORK IN PROGRESS)
ROADS PARTIALLY OPENED (WORK IN PROGRESS)

# Recovery Snapshot
# Post-Tropical Cyclone Irma
## Monday, October 2, 2017 (5:00 a.m. EDT)
## Updates in Blue

## Declarations:

| State/Region | Declaration | Declared Counties Individual Assistance | Declared Counties Public Assistance | Cost Share |
|---|---|---|---|---|
| **Region IV** | | | | |
| **Georgia** | 9/28: *DR-4338* | 7 counties | All 159 counties (Cat A and B) | 75% |
| **Seminole Tribe of Florida** | 9/27: *DR-4341* | Seminole Tribe of Florida and associated lands | Seminole Tribe of Florida and associated lands | 100% (Cat B) for 30 days |
| **Florida** | 9/21: *DR-4337* | 48 counties | 69 counties (Cat A-G) | 75%<br>100% (Cat B) for 30 days |
| **Alabama** | 9/11: *EM-3389* | - | All 67 counties and the Poarch Creek Indian Tribe (Cat B) | 75% |
| **South Carolina** | 9/7: *EM-3386* | - | All 46 counties and Catawba Indian Nation (Cat B ) | 75% |

## Recovery Priorities, Issues, and Challenges:

| State | Recovery Priorities | Issues/Challenges |
|---|---|---|
| **Georgia** | 1. Deliver Individual Assistance<br>2. Open Disaster Assistance Centers<br>3. Conduct IA & PA preliminary damage assessments<br>4. Public Information | Not yet reported |
| **Florida** | 1. Public Assistance (PA) PDAs<br>2. Housing in Lee, Hendry, and Collier Counties<br>3. HUD damage assessments<br>4. Temporary housing<br>5. Transitional Sheltering Assistance (TSA)<br>8. Flagler County requesting expediting processing of Category A and B and making funds available immediately. Requested priority assignment from the state for fixed site registration at Flagler Beach and Hammock Communities<br>9. Request for Direct Housing - DHAT will deploy to the counties to conduct assessments<br>10. HUD has granted a 90-day moratorium on foreclosures and forbearance on foreclosures of Federal Housing Administration (FHA)-insured home mortgages.<br>11. Continuing to coordinate with State on STEP.<br>12. USACE feasibility inspectors are continuing their review of commercial park pads<br>13. Advanced Planning coordinated with GIS to create an interactive housing map and data sharing between stakeholders<br>14. EA IGA responded to inquiries from state legislator and local officials, primary focus of inquiries were related to **debris removal, contractor procurement, constituent registration concerns and an inspector verification.**<br>15. Developing Innovative Housing Solutions presentation for mission support, planning to Integrating FIU Extreme Events Institute<br>16. The Economic Housing RSF Team identified several areas of major concern and **will begin analysis immediately**<br>17. At request of Patrick Air Force Base leadership, DSA conducted on-site registration for military families | • **Staffing** Individual Assistance and Disaster Survivor Assistance missions<br>• **Need more IA Caseworkers** for applicants, IA caseworkers need NEMIS/NACS rights<br>• Survivors continue to request temporary housing as shelters are closing<br>• Debris removal resources<br>• Some schools in the Keys will not open until **October 2nd**<br>• **Need more language interpreters**, Spanish and Creole (Haitian)<br>• **Flagler County** is very low on funding due to Hurricane Matthew and initial Irma response efforts; **no reserve funds to draw upon.**<br>• Frustrations with long wait times and dropped calls when calling the 1-800 FEMA number (capacity)<br>• Concern about the lack of information on Housing Strategies/Resources for survivors<br>• Hernando County: mosquito concerns<br>• Survivors **leaving without assistance** prior to registering at DRCs due to extreme temperatures and extended wait times (3.5 hour wait times at the DRC in Miami-Dade)<br>• Concerns over potential arrival of approximately **3,200 evacuees via cruise ship** from Puerto Rico, St. Croix and St. Thomas. **Evacuees are scheduled to dock on 3 Oct.** in Port Everglades. Need more information from JFO on the coordination for these incoming survivors<br>• DSA concerns over inability to check survivor cases on NEMIS<br>• **The 30 day waiver for electrical work for damaged homes is set to expire Oct 13.** Clay County is concerned about homeowners' electricity |

| | | |
|---|---|---|
| | evacuated from Puerto Rico.<br>18. Initiate the Sheltering and Temporary Emergency Power (STEP) program in Broward, Charlotte, Collier, Glades, Hendry, Lee, Miami-Dade, Monroe and Palm Beach Counties. | functionality & home repairs not being up to code. **Messaging may be needed**<br>• Isolated Thunderstorms could produce gusty winds and brief heavy rains through Sunday 10/01/2017. Survivors concerned about proposed rainfall and threat to already flooded roads and damaged homes. |

## Damage Assessments:

| State | Preliminary Damage Assessments (PDAs), including Categories C-G | |
|---|---|---|
| **Georgia** | • Destroyed: 46 structures<br>• Major Damage: 171 structures<br>• Minor Damage: 111 structures<br>• Affected Habitable: 127 structures | PA PDAs: Total $29.6 M<br>• Category A: $14.4M<br>• Category B: $5.5M<br>• Category C: $4.6M<br>• Category D: $0.1M<br>• Category E: $1.6M<br>• Category F: $1.9M<br>• Category G: $1.4M |
| **Florida** | In process | |

## Interagency Coordination/Recovery:

- ***Recovery Support Function (RSF): Housing Recovery***

| Individual Assistance *(as of 10 01 2017, 4:08 p.m. EDT)* | | | | |
|---|---|---|---|---|
| **State** | **Total Registrations** | **Total Individuals and Households Program Approved** | **Housing Assistance Approved** | **Other Needs Assistance Approved** |
| **Georgia** | 28,609 | $8,057,173 | $5,379,539 | $2,677,634 |
| **Florida** | 2,072,233 | $685,511,046 | $448,867,468 | $236,643,578 |
| **Puerto Rico** | 4,103 | $296,059 | $141,653 | $154,406 |
| **Seminole Tribe of Florida** | 21,487 | Not yet reported | Not yet reported | Not yet reported |
| **U.S. Virgin Islands** | 7,458 | $4,592 | $4,592 | $0 |

| Housing Inspections *(as of 10 01 2017, 4:08 p.m. EDT)* | | | | |
|---|---|---|---|---|
| **State** | **Inspectors with Work** | **Inspections Issued** | **Inspections Complete** | **% Complete** |
| **Georgia** | 21 | 4,334 | 1,587 | 36.6% |
| **Florida** | 1,278 | 525,143 | 112,800 | 21.4% |
| **Puerto Rico** | 23 | 1,285 | 500 | 38.9% |
| **U.S. Virgin Islands** | 5 | 5,669 | 4 | 0.07% |

| (Irma) National Flood Insurance Program Claims Estimate *(as of 09 29 2017, 1:34 p.m. EDT)* | | |
|---|---|---|
| **State** | **Claims Submitted** | **Advanced Payments to Insured Survivors** |
| **Florida** | Over 22,000 | Over $28,000,000 |
| **Georgia** | Over 1,800 | Over $2,000,000 |
| **South Carolina** | Over 2,000 | Over $1,100,000 |
| **U.S Virgin Islands** | 45 | Not yet reported |
| **Puerto Rico** | 4 | Not yet reported |
| **Alabama** | 1 | Not yet reported |

- Temporary Housing: FEMA approved extension period of Transitional Sheltering Assistance (TSA) Program for DR-4337-FLfrom October 8, 2017 through November 4, 2017 *(Memorandum signed by Alex Amparo, Assistant Administrator of The Recovery Directorate)*

| Transitional Sheltering Assistance *(as of 10 01 2017, 11:27 p.m. EDT)* | | |
|---|---|---|
| **State** | **Households Checked In to Hotel** | **Eligible** |
| **Florida** | 9,446 | 709,449 |

- Small Business Administration (SBA) Home Loans

| SBA Home Loans *(as of 10/01/2017, 8:08 a.m. EDT)* | | | | | |
|---|---|---|---|---|---|
| **Hurricane** | **Applications Received** | **% Processed** | **Applications Approved** | **Loan $ Approved** | **Average Loan Amount** |
| **Irma** | 22,557 | 54% | 213 | $9,148,400 | $42,950 |

- US Department of Housing and Urban Development (HUD) *(as of 10/01/2017)*

| Healthcare Section 232/242 | Number of Properties in the Impacted (PDD) Area | Number of Beds in the Impacted (PDD) Area |
|---|---|---|
| Florida | 178 | 23,530 |
| Georgia | 2 | 130 |
| South Carolina | 1 | 88 |
| **Total** | **181** | **23,748** |

| Multifamily Housing | Impacted Properties | Units | Assisted Units | Properties w/ Moderate or Major Damage | Residents Displaced/ Evacuated | Residents Returned |
|---|---|---|---|---|---|---|
| Florida | 910 | 106,513 | 45,902 | 89 | 614 | 0 |
| Georgia | 50 | 4,665 | 2,145 | 1 | 150 | 0 |
| **Total** | **960** | **111,178** | **48,047** | **90** | **764** | **0** |

| Public Housing | Impacted Properties | Total Number of Assisted Units | Displaced Households | Returned Households |
|---|---|---|---|---|
| Florida | 656 | 32,191 | 6 | 222 |
| Georgia | 7 | 33,661 | 0 | 0 |
| South Carolina | 0 | 13,798 | 1 | 1 |
| **Total** | **663** | **79,650** | **7** | **223** |

| Housing Choice Voucher (HCV) | Total Number of Assisted Households | Displaced Households | Returned Households |
|---|---|---|---|
| **Florida** | 100,847 | 13 | 14 |
| Georgia | 55,639 | 0 | 0 |
| South Carolina | 25,706 | 0 | 0 |
| **Total** | **182,192** | **13** | **14** |

- ***RSF: Economic Recovery***
  - SBA Business Loans

| SBA Business Loans *(as of 10/01/2017, 8:08 a.m. EDT)* | | | | | |
|---|---|---|---|---|---|
| **Hurricane** | **Applications Received** | **% Processed** | **Applications Approved** | **Loan $ Approved** | **Average Loan Amount** |
| **Irma** | 1,348 | 35% | 12 | $662,100 | $55,175 |

- USDA Risk Management Agency

| State Specific Crop Insurance Information for Hurricane Irma as of 9/4/2017 | | | |
|---|---|---|---|
| Liabilities | $2.3 billion | $818.6 million | $2.3 million |
| Largest Crop Liability (amount) | Orange Trees ($1.1 billion) | Cotton ($581.2 million) | Coffee ($932,742) |

**PR crop liability was $53,445,686 for 2016 Reinsurance Year. As of June 9, 2017 only $2.3 million of liability was reported and available through the RMA Summary of Business.*

- USDA Farm Service Agency

| Total Combined $ Amount Loss for Crops/livestock by State | |
|---|---|
| **Sept 18-Sept 22:** Florida | n/a |
| **Sept 10-Sept 12:** Georgia | $338,272,398 |
| **Sept 18-Sept 22:** Louisiana | $41,000,000 |

| Total Combined $ Loss for Crops/Livestock by Hurricane *(as of 09 24 2017, 11:02 a.m. EDT)* | |
|---|---|
| **Total Irma Hurricane Total** | $338,272,398 |

# Recovery Snapshot
# Post-Tropical Cyclone Harvey
## Monday, October 2, 2017 (5:00 a.m. EDT)
## Updates in Blue

## Declarations:

| State/Region | Declaration | Declared Counties Individual Assistance | Declared Counties Public Assistance | Cost Share |
|---|---|---|---|---|
| Region VI | | | | |
| **Texas** | 9/23: *DR-4332* | 39 counties | 47 counties | 90% (Cat A); 100% (Cat B) for 30 days, 90% thereafter |

## Recovery Priorities, Issues, and Challenges:

| State | Recovery Priorities | Issues/Challenges |
|---|---|---|
| **Texas** | 1. Sheltering and temporary housing<br>2. Debris Removal<br>3. Collect and disseminate accurate incident information to improve decision-making<br>4. Accurately track incident costs associated with assigned resources for cost recovery<br>*(TDEM Sit Rep, September 29, 2017, 8:00 a.m. EDT)* | Not yet reported |

## Damage Assessments:

| State | Preliminary Damage Assessments (PDAs), including Categories C-G | |
|---|---|---|
| | IA PDA | PA PDA |
| **Texas** | Not yet reported | 21 counties requested, 20 counties complete, 1 county ongoing |

## Interagency Coordination/Recovery:

- ***RSF: Housing Recovery***

| Individual Assistance *(as of 10 01 2017, 3:19 p.m. EDT)* | | | | |
|---|---|---|---|---|
| **State** | **Total Registrations** | **Total Individuals and Households Program Approved** | **Housing Assistance Approved** | **Other Needs Assistance Approved** |
| **Texas** | 843,078 | $839,194,969 | $619,865,760 | $219,329,209 |

| Housing Inspections *(as of 10 01 2017, 3:19 a.m. EDT)* | | | | |
|---|---|---|---|---|
| **State** | **Inspectors with Work** | **Inspections Issued** | **Inspections Complete** | **% Complete** |
| **Texas** | 2,742 | 511,424 | 301,789 | 59% |

| (Harvey) National Flood Insurance Program Claims Estimate *(as of 09 29 2017, 1:34 p.m. EDT)* | | |
|---|---|---|
| **State** | **Claims Submitted** | **Advanced Payments to Insured Survivors** |
| **Texas** | Over 88,000 | Over $1 billion |
| **Louisiana** | Over 480 | Over $2 billion |

Closure Rates: Over 4% of claims have been closed in Texas with over $42,000,000 paid in closed claims; over 11% of claims have been closed in Louisiana with over $1,200,000 paid in closed claims

- Temporary Housing

| Transitional Sheltering Assistance *(as of 10 01 2017, 3:20 p.m. EDT)* | | |
|---|---|---|
| **State** | **Households Checked In to Hotel** | **Eligible** |
| **Texas** | 21,865 | 342,380 |

- Small Business Administration (SBA) Home Loans

| SBA Home Loans *(as of 10 01 2017, 8:08 a.m. EDT)* | | | | | |
|---|---|---|---|---|---|
| **State** | **Applications Received** | **% Processed** | **Applications Approved** | **Loan $ Approved** | **Average Loan Amount** |
| **Texas** | 52,586 | 64% | 7,471 | $628,181,700 | $84,083 |

- U.S. Department of Housing and Urban Development (HUD) *(as of 10/01/2017)*

| Hurricane Harvey - Texas | Number of Properties in Impacted Area | Displaced (# of Beds for Healthcare - Hospital) | Displaced (# of Household for Public & Indian Housing - Multifamily Housing) | Returned or Permanently Housed (# of Households/Beds) |
|---|---|---|---|---|
| Multifamily Housing | 454 | 20,971 | 3,224 | 844 |
| Public and Indian Housing | 66 | 10,965 | 330 | 263 |
| HCV | N/A | 148,205 | 813 | 655 |
| Healthcare and Hospitals | 40 | 5,236 | 599 | 501 |

- ***RSF: Economic Recovery***
  - SBA Business Loans

| SBA Business Loans *(as of 10 01 2017, 8:08a.m. EDT)* | | | | | |
|---|---|---|---|---|---|
| **State** | **Applications Received** | **% Processed** | **Applications Approved** | **Loan $ Approved** | **Average Loan Amount** |
| **Texas** | 3,589 | 69% | 605 | $57,132,900 | $94,435 |

- U.S. Department of Agriculture (USDA) Risk Management Agency

| State Specific Crop Insurance Information for Hurricane Harvey *(as of 9 23 2017)* | | |
|---|---|---|
| **Liabilities** | $792.4 million | $133.5 million |
| **Largest crop liability (total)** | Cotton ($352.3 million) | Rice ($104.1 million) |
| **Policies received ++** | >34,000 | >2,900 |
| **Units Covered (acres) ++** | 4.9 million | >504,000 |

** Crops removed from calculation are AF/PRF, Cabbage, Oats, Onions, Potatoes and Wheat*
*** Parishes included are Acadia, Allen, Beauregard, Calcasieu, Cameron, Jefferson Davis, Vermillion and Vernon*
*++ Information collected from RMA's Summary of Business Reports http://www.rma.usda.gov/data/sob.html*

- USDA Farm Service Agency

| Total Combined $ Amount Loss for Crops/livestock by State | |
|---|---|
| **Sept 18-Sept 22:** Texas | $72,961,810 |

- USDA Disaster Supplemental Nutrition Assistance Program (D-SNAP)

| New Apps Taken | New Approved | | | Households Denied | Supplements Approved | | | Total New + Ongoing Benefits |
|---|---|---|---|---|---|---|---|---|
| | Households | Persons | Total Benefits | | Households | Persons | Total Benefits | |
| 159,339 | 124,991 | 361,328 | $118,701,657 | 7,733 | 10 | 34 | 2,873 | $118,704,530 |

*(Recovery Update, September 28, 2017, 11:02 a.m. EDT)*

- Natural Resources Conservation Service

| | EWPP Sponsor requests | EQIP Applications | CTA Employees Providing Assistance |
|---|---|---|---|
| **Texas*** | 5 new, 6-7 previous projects that may need assistance | 57 | 97 |
| **Louisiana**** | 0 | 0 | 25 |

**57 EQUIP application for FY17 received to date for TX special sign-ups*
***Little impacts, not anticipating EQIP applications for hurricane response but announced availability of EQIP*

Hurricane Harvey/Irma Policy Coordinating Committee

(Deputy EOC Manager) Agenda October 2, 2017

Draft – withheld Exemption 5

## Official Meeting/Briefing Request for the RA or DRA

Has your Division Director been briefed on this subject, and is he/she aware of your request to set up this meeting? Yes _X___ No ____Both DD in WPD & RCRD are aware of the request to setting up this briefing.

Date of Request: 9/6/17

Requestor: Christopher Militscher
Phone No.: X-9512

Name of Meeting: OCS NPDES General Permit and Finding of No Significant Impact (FONSI)

Purpose of Meeting: Brief the RA on the status of the joint issuance of the General Permit & FONSI.

| Is the Meeting Date Sensitive? Yes **X** No ☐ | Deadline Date: ~10/30/17 | |
|---|---|---|
| Meeting Date/Time Preference #1 | Date: 9/28/17 | Time:10-11 am |
| Meeting Date/Time Preference #2 | Date: 9/28/17 | Time: 1-2 pm |
| Meeting Date/Time Preference #3 | Date: 10/2/17 | Time: 3-4 pm |

Duration of Meeting:
(for substantive meetings, schedule at least 1 hour)
Conference Number Required: Yes __X___ NO____
IT Equipment Required: Yes __X__ NO ____

**Background**: This is a combined WPD/RCRD briefing to request the RA's concurrence and approval on the Outer Continental Shelf (OCS) NPDES General Permit & FONSI for the oil and gas industry in the Eastern Planning Area of the Gulf of Mexico. Both require the RA's approval before posting the documents in the Federal Register. The Region issued a draft General Permit and Environmental Assessment in August of 2016. Since issuance of the draft documents, the Region has obtained State coastal zone management consistency from the states of AL, MS, and FL, obtained Endangered Species Act concurrence form the Fish and Wildlife Service and the National Marine Fisheries Service, and prepared responses to comments received from industry, an environmental group, and the public.

**Expectations from Meeting** (Please be specific: Are you looking for a decision, guidance?)
If you are looking for a decision, give a date by when this decision must be made. RA's signature requested on the FONSI and concurrence for WPD DD to sign the final General Permit within several days from the date of the briefing.

| No. of Participants: **(It is very important that the RA's office is aware of how many and whom...no surprises; i.e., we were told 2 staff members and 10 show up)** | Names of Required Invitees: | Optional Invitees: |
|---|---|---|
| | Mary Walker<br>Alan Farmer<br>Cesar Zapata<br>Carol Monell<br>Denisse Diaz<br>Molly Davis<br>Chris Militscher<br>Karrie-Jo Shell<br>Ntale Kajumba<br>Bridget Staples<br>Roland Ferry | |

| | | |
|---|---|---|
| | Phil Mancusi-Ungaro<br>Paul Schwartz | |

Requested Meeting Location: RA's Conference Room

***Please send briefing papers, slides, background documents etc., to **R4_ORA_Briefing_Materials@epa.gov**. You will have ***2 DAYS (48 Hours)***, to submit this information prior to the meeting. Also, please send information to RA/DRA Special Assistants and Executive Assistants. Please save your presentation on the "F" Drive, under "My Documents." You will be able to login on the Conference Room laptop as you would your own computer and pull up your presentation. ***Any critical issues that need to be elevated, please email the Special Assistants.***

**Regional Administrator Briefing Agenda**
**OCS NPDES General Permit and Finding of No Significant Impact (FONSI)**
**October 5, 2017; 11 am -12 noon**

**Purpose**: This is a combined WPD/RCRD briefing to request the RA's concurrence and approval on the Outer Continental Shelf (OCS) National Pollutant Discharge Elimination System (NPDES) General Permit & FONSI for the oil and gas industry in the Eastern Planning Area of the Gulf of Mexico. Both require the RA's approval before posting the documents in the Federal Register. The Region issued a draft General Permit and Environmental Assessment (EA) in August of 2016.

**Stakeholder Input:** Since issuance of the draft documents, the Region has obtained State coastal zone management consistency from the states of AL, MS, and FL, obtained Endangered Species Act (ESA) concurrence form the Fish and Wildlife Service. The Region prepared an ESA Section 7d determination for the National Marine Fisheries Service's marine species. The Region prepared responses to comments received from industry, an environmental group, and the public. There has been no media attention to date regarding EPA's proposed action.

**Introductions** — 5 minutes

**General Permit Issues**: Mary Walker, Director, Water Protection Division — 15 minutes
- Background
- External Interest and Stakeholder Input
- Other Pertinent Information
- Steps to Finalization

**NEPA Compliance**: Chris Militscher, Chief, NEPA Program Office — 10 minutes
- Background
- Recent History
- Substantive Comments on EA/Preliminary FONSI

**Actions Items for the RA:** Approve/sign FONSI and approve General Permit (There is a 30-day 'wait period' before becoming effective once the documents are entered into the Federal Register).

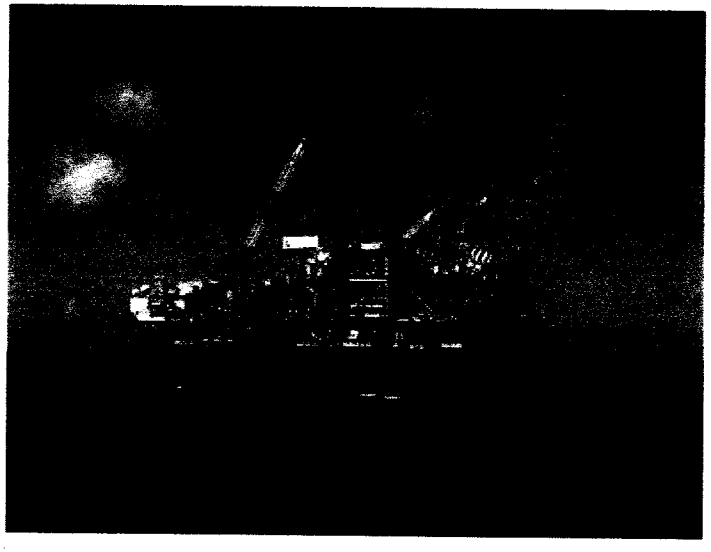
**Authorities for the Decisions**: FONSI: 40 CFR Section 6.103(b). NPDES General Permit: 40 CFR Section 122.28(c)(1).

**Roles/Attendees:**
- Alan Farmer, RCRD Director
- Carol Monell, RCRD Deputy Director
- Philip Mancusi-Ungaro, Attorney Advisor
- Paul Schwartz, Attorney Advisor
- Karrie-Jo Shell, P.E., NPDES Permit Coordinator
- Bridget Staples, NPDES Permit Coordinator

**Note taker:** Chris Militscher

**Points of Contact:** Karrie-Jo Shell, X-9308 (NPDES General Permit inquiries)
Ntale Kajumba, X-9620 (NEPA/FONSI inquiries)

# Region 4 Eastern Gulf of Mexico Final NPDES General Permit Issuance



# Purpose of this Briefing

**Provide information on**

- Federal agencies that regulate offshore oil & gas operations
- Changes from the Previous Permit
- Public interest

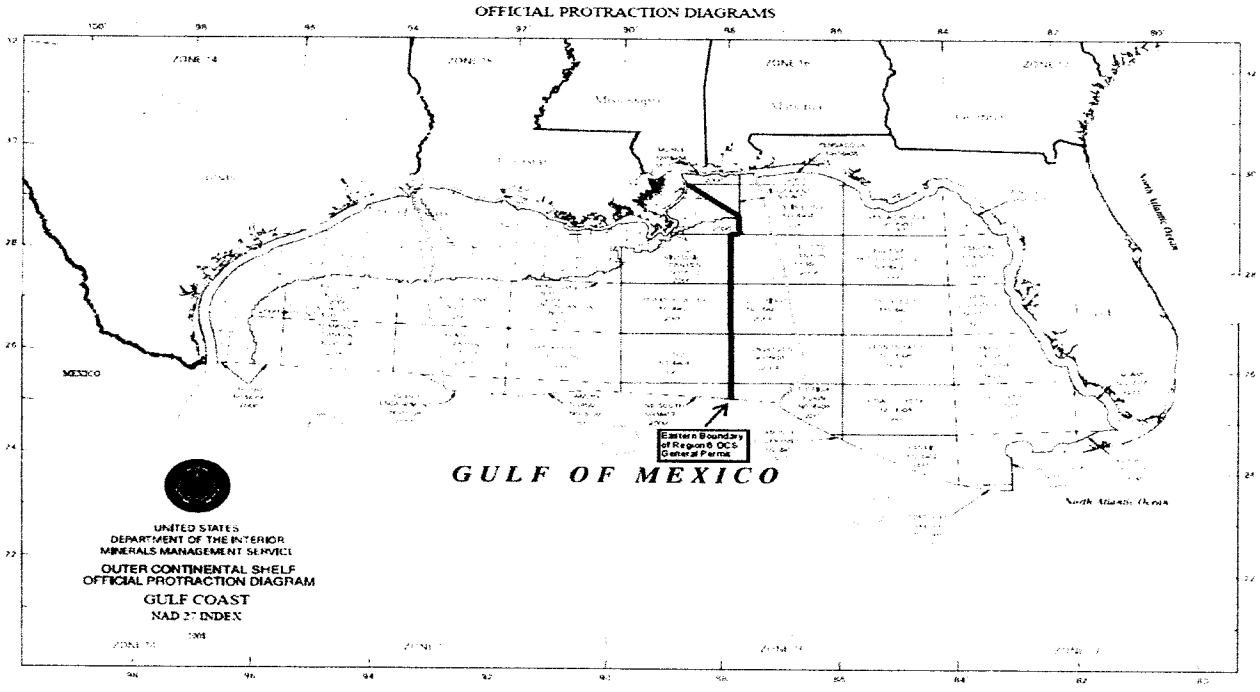
**Obtain**

- Decision on proceeding with issuance and publishing final permit announcement in the Federal Register

# Eastern Gulf of Mexico Outer Continental Shelf NPDES General Permit

## Covers Federal Waters Offshore of Mississippi, Alabama, and Florida

- Offshore of FL covers water depths greater than 200 meters
- Immediately offshore MS and AL in Mobile and Viosca Knoll blocks



# Changes from the Previous Permit

## Proposed Permit

- Move to electronic reporting
- Well Treatment Completion, and Workover Fluids
  - Industry-wide Study

  **Or individual**
  - Effluent Toxicity monitoring
  - Chemical Inventory reporting

## Final Permit – Changes from Proposal

- Allows use of Southeast Area Monitoring and Assessment (SEMAP) Data instead of extensive monitoring to meet some requirements under Clean Water Act Section 316b to provide flexibility requested by the industry

# Permit Status

- The Draft Permit was publicly noticed August 18, 2016.
  - No response/comment from US Congresspersons along Gulf Coast or US Senators in MS, AL and FL
  - Conferred with Office of Water and Region 6 to address major concerns from industry and other interested parties.

- The FONSI has finalized.

- The Endangered Species Act consultation to be completed as part of a Gulf of Mexico Wide consultation, and the permit is being issued under Section 7d with a reopener clause in case consultation results in changes.

- The final permit, Response to Comments document, and Federal Register notice have been completed and are ready to be signed.

# Next Steps

Obtain final approval from OW to proceed.

Announce issuance in the Federal Register.

# October 9, 2017 - October 15, 2017

October 2017

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November 2017

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## Monday, October 9

**COLUMBUS DAY**

## Tuesday, October 10

**WASHINGTON, DC - LATE AFTERNOON TRAVEL ON THE 10TH** (NTOC)

- **10:00am - 10:30am NTOC Briefing** (RA's Office) - Glenn, Trey
- **10:30am - 11:00am Briefing - Annual Awards Ceremony** (RA's Conference Room) - Glenn, Trey
- **11:00am - 12:00pm R4 RA Senior Staff Meeting** (R4-RA-Conf-Rm/Sam-Nunn-Federal-Building-ATL) - Glenn, Trey
- **12:00pm - 12:30pm Hold for pcc call**
- **1:00pm - 1:15pm Airport Meeting** (TBD) - Glenn, Trey

## Wednesday, October 11

**NTOC - WASHINGTON, DC**

- **8:00am - 2:30pm WASHINGTON, DC** (NTOC)

## Thursday, October 12

**Mississippi**

- **8:30am - 10:00am PHILADELPHIA, MS/JACKSON, MS** (MS MANUFACTURERS ASSOCIATION ENVIRONMENT CONFERENCE)
- **9:45am - 10:00am KEYNOTE ADDRESS - MMA** (Philadelphia, MS)
- **12:00pm - 12:30pm Visit Ted Kendall's Farm**

## Friday, October 13

**WASHINGTON, DC**

- **8:45am - 11:30am internal prep + Roundtable with House Energy and Commerce Committee re: EPA's hurricane response efforts (INCLUDES TRAVEL TIME)** (3330 WJC North) - Levine, Carolyn
- **2:00pm - 2:30pm** .....

## Saturday, October 14

## Sunday, October 15

[redacted]

William Jefferson Clinton Building (South) 2138 (OGD Training Room)
1200 Constitution Ave. Washington, D.C.
Conference Call: 1-866-299-3188; code (b)(6) [redacted]#

| Time | Discussion Topic |
|---|---|
| **8:30 am – 5:00 pm** | **NTC-only Caucus with Tribal Partnership Group Chairs** |

[redacted]

William Jefferson Clinton Building (South) 2138 (OGD Training Room)
Washington, D.C.
Conference Call: 1-866-299-3188; code (b)(6) [redacted]#

| Time | Discussion Topic |
|---|---|
| 9:00 am – 2:00 pm | National Tribal Operations Committee Meeting (Additional agenda included in meeting materials) |
| 2:00 pm – 2:30 pm | Break & relocated to different meeting room (WJC-South 2138) |
| 2:30 pm – 3:30 pm | Debrief on Strategic Plan |
| 3:30 pm – 5:00 pm | Discussion with Office of International and Tribal Affairs |

# National Tribal Operations Committee (NTOC)

## Agenda – October 11, 2017

[illegible]

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**9:00 – 9:45 am** **Welcome and Invocation**

- Invocation and Introductions
- Opening remarks from Scott Pruitt, EPA Administrator and NTOC Co-Chair
- Opening remarks from Evaristo Cruz, NTC Chair and NTOC Co-Chair

**9:45 – 10:00 am** **Reaffirmation of the 1984 Indian Policy**

- NTOC Co-Chairs: Scott Pruitt, Administrator, EPA; and Evaristo Cruz, National Tribal Caucus Chair

## Cooperative Federalism

**10:00 – 11:00 am** **I. Launching a New Era of Tribal, State and Local Partnerships**

Goal of Session: *Define what cooperative federalism means for EPA, tribal governments and states, and partnership opportunities available as co-regulators under the 1984 Indian Policy.*

- Remarks from Ken Wagner, EPA Senior Advisor to the Administrator for Regional and State Affairs
- Remarks from Evaristo Cruz, NTC Chair and NTOC Co-Chair
- Remarks from Alexandra Dapolito Dunn, ECOS Executive Director
- Discussion with EPA, NTC and ECOS

**11:00 – 12:15 pm** **II. Streamlining Environmental Management**

Goal of Session: *Share information on EPA's role in protecting human health and the environment through implementation of cooperative federalism models. Topics will include ETEPs and TAS.*

- Jane Nishida, Acting Assistant Administrator for the Office of International and Tribal Affairs

- EPA Regional Speaker TBD
- Paula Britton, NTC Vice Chair
- Discussion with EPA and NTC

**12:15 – 12:45 pm** **Working Lunch**

- Box lunches will be provided for all NTOC participants for a fee

**12:45 – 1:25 pm** **Implementing Key Administration Priorities: Superfund**

Goal of Session: *Discuss recommendations that will streamline and improve the Superfund program and how the renewed focus will affect tribal communities.*

- Albert Kelly, Senior Advisor to the Administrator for Superfund
- Gerald Wagner, NTC Secretary
- Discussion with EPA and NTC

**1:25 – 1:45 pm** **Long-Term Planning**

Goal of Session: *NTC to communicate FY 2019 budget and priorities for long-term planning. Align most essential focus areas outlined within the strategic plan.*

- Budget and Priorities for Tribal Governments, NTC
- Discussion with EPA and NTC

**1:45 – 2:00 pm** **Wrap-Up**

- Summarize Action Items and Next Steps
- Closing Remarks

# NTI and EPA Program Leadership Meetings

William Jefferson Clinton Building (South) 6045 (NETI Room)
Washington, D.C.
Conference Call: 1-866-299-3188; code (b)(6) [redacted]#

| Time | Discussion Topic |
|---|---|
| 8:00 am – 8:15 am | Opening Remarks and Invocation |
| 8:15 am – 9:45 am | Discussion with Office of Air and Radiation |
| 9:45 am – 10:00 am | Break |
| 10:00 am – 11:30 pm | Discussion with the Office of Chemical Safety and Pollution Prevention |
| 11:30 am – 1:00 pm | Discussion with Office of Land and Emergency Management |
| 1:00 pm – 2:30 pm | Lunch |
| 2:30 pm – 4:00 pm | Discussion with Office of Water |
| 4:00 pm – 4:30 pm | Wrap up |

# October 16, 2017 - October 22, 2017

October 2017

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November 2017

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## Monday, October 16

**12:00am Destin, FL - FL Electric Utilities Annual Meeting** (Travel Late Afternoon of 16th) →

**1:30pm - 2:15pm HOLD: Meeting** (RA's Office) - Glenn, Trey

[redacted]

**4:15pm - 4:30pm TENTATIVE: Call**

## Tuesday, October 17

← **12:00am Destin, FL - FL Electric Utilities Annual Meeting** (Travel Late Afternoon of 16th)

**8:00am - 11:00am DESTIN, FL** (FL ELECTRIC UTILITIES ANNUAL MEETING)

**1:00pm - 2:00pm Hurricanes Maria/Irma/Harvey & CA Wildfires: PCC Meeting and Conference Call** (Dial-In: 866-299-3188; Participant Code: (b)(6) [redacted] - EOC_Deputy_Manager

## Wednesday, October 18

**BF GOODRICH**

**8:00am - 3:00pm B.F. GOODRICH** (Calvert City, KY)

## Thursday, October 19

**12:00am Lexington, KY - KY Governors Conference** (Travel Late afternoon of 19th) →

**7:30am - 8:30am Hold**

**9:00am - 9:15am Meeting w/S. Gordon** (RA's Office) - Glenn, Trey

**9:15am - 9:30am Meeting w/M. Burns** (RA's Office) - Glenn, Trey

**10:00am - 12:30pm Annual Award Ceremony** (TBD)

**6:00pm - 9:00pm LEXINGTON, KY** (KY GOVERNOR'S CONFERENCE)

## Friday, October 20

← **12:00am Lexington, KY - KY Governors Conference** (Travel Late afternoon of 19th)

**8:00am - 11:30am LEXINGTON, KY** (KY GOVERNOR'S CONFERENCE)

## Saturday, October 21

## Sunday, October 22

Hurricane Harvey/Irma Policy Coordinating Committee

(Deputy EOC Manager) Agenda October 17, 2017

Draft – withheld Exemption 5

# KENTUCKY GOVERNOR'S CONFERENCE

ON ENERGY AND THE ENVIRONMENT

Lexington Convention Center
Lexington, Kentucky

October 19-20, 2017

## Day 1 October 19

11:00 *Registration & Exhibits*

1:00 **Opening Remarks**

**Secretary Charles Snavely**, Kentucky Energy & Environment Cabinet

1:05 **Legislative Panel**

Moderator: **Renee Shaw**, Producer/Host, Kentucky Educational Television
**Jared Carpenter**, Chairman, Senate Committee on Natural Resources & Energy
**Jim Gooch**, Chairman, House Committee on Natural Resources & Energy
**Tom FitzGerald**, Director, Kentucky Resources Council
**Dave Adkisson**, President & CEO, Kentucky Chamber of Commerce
**Charles Snavely**, Secretary, Kentucky Energy & Environment Cabinet

2:30 **Natural Resources: *Initiatives, Successes and Challenges***

Introductions: **Danny Hall**, Executive Director, KY Reclamation Guaranty Fund
**Courtney Skaggs**, Director, KY Division of Mine Reclamation & Enforcement
**Bob Scott**, Director, KY Division of Abandoned Mine Lands
**James Wright**, Director, KY Division of Forestry
**Dennis Hatfield**, Director, KY Division of Oil and Gas

3:30 *Break & Exhibits*

3:45 **Energy Session**

Introduction: **Rick Bender**, Executive Advisor, DEDI
**Chandu Visweswariah, PhD**, President & CEO, Utopus Insights, Inc.

4:30 *Reception*

**This agenda is subject to change.*

# KENTUCKY GOVERNOR'S CONFERENCE
## ON ENERGY AND THE ENVIRONMENT

Lexington Convention Center
Lexington, Kentucky

October 19-20, 2017

## Day 2 October 20

8:00 *Continental Breakfast & Exhibits*

8:30 **Energy Session**

Introduction: **Talina Mathews, PhD**, Commissioner, KY PSC
**Travis Kavulla**, Commissioner, Montana Public Service Commission

9:15 **Environment Session**

Introduction: **Aaron Keatley,** Commissioner, KY DEP
**Kenneth Wagner,** Senior Advisor for Regional and State Affairs, US EPA

10:00 *Break & Exhibits*

10:15 **Environmental Protection: *Celebrating Our Past, Investing in Our Future***

Moderator: **Aaron Keatley,** Commissioner, KY DEP
**Kell Kelly,** Senior Advisor to the Administrator, US EPA
**Trey Glenn,** Regional Administrator, US EPA, Atlanta Regional Office
**John Bevington,** Deputy Commissioner for Business Development, KY CED
**Kate Shanks,** Director of Public Affairs, Kentucky Chamber of Commerce
**Tony Hatton,** Deputy Commissioner, KY DEP
**Pete Goodmann,** Director, Division of Water, KY DEP

11:45 **Keynote Address by Governor Matthew G. Bevin**
**Commonwealth of Kentucky**
*Introduction by Secretary Charles G. Snavely*
*Kentucky Energy and Environment Cabinet*

12:15 *Awards Luncheon*

**#KYGOVCONF**

**This agenda is subject to change.*

**Bonner, Brenda**

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**From:** Keatley, Aaron (EEC) <Aaron.Keatley@ky.gov>
**Sent:** Wednesday, September 20, 2017 2:22 PM
**To:** Wagner, Kenneth; Kelly, Albert; Glenn, Trey
**Subject:** Governor's Conference
**Attachments:** Gov Conf 2017 agenda - Day 1.pdf; Gov Conf 2017 agenda - Day 2.pdf

Thought you all might like to see the full agenda for the Kentucky Governor's Conference on the Environment.

Trey – I know you haven't confirmed yet, but I put you down as a participant anyway since we have talked about this. If this doesn't end up working out, let me know and I will adjust.

Aaron Keatley

Commissioner
Kentucky Department for Environmental Protection
300 Sower Blvd
Frankfort, KY 40601
(502) 782-6676
Aaron.Keatley@ky.gov

# October 23, 2017 - October 29, 2017

October 2017

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November 2017

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## Monday, October 23

**Montgomery, AL**

- **11:30am - 12:30pm ADEM** (Montgomery, AL)
- **2:30pm - 3:30pm AL DCNR - Chris Blankenship** ( Folsom Administrative Building- 64 North Union Street, Room 468 - Montgomery, AL - 334-242-3486 Office 251-709-5889 Cell)

## Tuesday, October 24

**12:00am State Commissioners Meeting** (Travel Late Afternoon of → the 24th)

- **2:00pm - 2:30pm Inside EPA Interview** - Glenn, Trey
- **5:45pm - 6:45pm TDEC MEETING** (Mill House Wyndham Hotel - Lynch Room)

## Wednesday, October 25

← **State Commissioners Meeting** (Travel Late Afternoon of the → 24th)

- **8:00am - 5:30pm CHARLESTON, SC** (STATE COMMISSIONER'S MEETING)
- **12:30pm - 12:45pm Call with Jay Mullis** (Jay will call Trey @ 678-575-2148)

## Thursday, October 26

← **12:00am State Commissioners Meeting** (Travel Late Afternoon of the 24th)

- **8:00am - 12:00pm CHARLESTON, SC** (STATE COMMISSIONER'S MEETING)
- **1:30pm - 6:00pm Charleston, SC** (American College of Environmental Lawyers)

## Friday, October 27

## Saturday, October 28

## Sunday, October 29

# EVENT INFORMATION SHEET

**(revised as of 08/28/2017)**

| | |
|---|---|
| **EVENT:** | 2017 Annual Meeting of the American College of Environmental Lawyers |
| **WHAT IS THE DEADLINE FOR ACCEPTANCE?** | September 15, 2017 |
| **WOULD YOU BE WILLING TO ACCEPT A SUBSTITUTE IN THE EVENT MR. GLENN IS UNAVAILABLE?** If so, what level of EPA representative are you looking for? | No |
| **INVITATION BY:** Also, please provide a brief description of your organization. | John Cruden, President-Elect, ACOEL |
| **EVENT DATE:** | October 26, 2017 |
| **WILL MR. GLENN BE REQUIRED TO PAY A REGISTRATION FEE?** If yes, please provide specifics. | No |
| **TOPIC TO BE COVERED:** | Federal/State Cooperation |
| **TIMEFRAME:** When would you need Mr. Glenn to arrive and where should he report? What time would he be on the agenda? | Noon - 2:30 p.m. EDT: Joint Lunch and Roundtable discussion among federal and state environmental agency officials from Region 4 and ACOEL Fellows from Region 4<br><br>3:00 - 4:30 p.m. EDT: Five-person panel discussion on federal/state cooperation. |
| **LOCATION:** (include street address) | Mills House<br>115 Meeting Street<br>Charleston, SC 29401 |
| **INTRODUCTION BY:** | Alex Dunn, Executive Director of ECOS and ACOEL Fellow |
| **FORMAT/AGENDA** (Please provide an agenda for the event.)<br><br>**WHAT ARE YOU LOOKING FOR, i.e., SPEECH, POWERPOINT PRESENTATION, BOTH?** | Speech _____<br>Powerpoint _____<br>Panel Member __X__ |

| | |
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| **PLEASE PROVIDE SPECIFICS ON HOW THE SESSION WILL FLOW,** for example: total time allotted to Mr. Glenn, and if there will be questions afterward....Example: 30 minutes for speech; 15 minutes for Q&A. | 1. Round table discussion will be completely ad hoc.<br>2. Panel discussion will feature initial comments by each panelist followed by group discussion. |
| **PLEASE DESCRIBE AUDIENCE/ATTENDEES:** | 1. Roundtable - Federal and state environmental agency officials from Region 4 and ACOEL Fellows from Region 4.<br>2. Panel - Any interested ACOEL Fellow from throughout the nation and any interested federal and state environmental agency official from Region 4. |
| **PRESS/MEDIA** (Indicate if open or closed press; if open, please provide specifics) | ACOEL Annual Meeting is open only to ACOEL Fellows and invited guests. Media representatives are not invited. |
| **BACKGROUND/COMMENTS:** | |
| **DRESS:** | Business casual. |
| **IS THE EVENT CONSIDERED FUNDRAISER OR/SPONSORSHIP? YES OR NO. (If Yes, please explain.)** | No |
| **ARE YOU A REGISTERED LOBBYIST?** | No |
| **EVENT POC** (AND TELEPHONE/CELL #): (Also, please include name and cell phone number of someone who will be at the event)<br>Internal EPA:<br>EPA SPEECH POC:<br><br>EPA SUBJECT POC:<br><br>STAFF PERSON ACCOMPANYING RA: | Jacki Bennis, Square One Meeting Planning<br>(843) 697-5534 |
| **OTHER COMMENTS YOU WOULD LIKE TO PROVIDE:** | These two events are being organized by the ACOEL with cooperation and support of Myra Reece (SC DHEC), Bob Martineau (TDEL) and Alex Dunn (ECOS). Bob and Alex are ACOEL Fellows. |

**Bonner, Brenda**

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| | |
|---|---|
| **From:** | Jenkins, Brandi |
| **Sent:** | Friday, September 08, 2017 4:30 PM |
| **To:** | smckinney@balch.com |
| **Cc:** | Bonner, Brenda |
| **Subject:** | Trey Glenn Event Request Form |
| **Attachments:** | Trey Glenn Event Sheet.docx |

Mr. McKinney,

It was good to speak with you this afternoon. Attached is the Event Request Form that we use to track invitations to Trey for speaking engagements and events. Please complete and return at your earliest convenience. I'm looping in Trey's Executive Assistant, Brenda Bonner, as she is the keeper of this information.

Thank you and please do not hesitate to contact me with any questions.

Brandi Jenkins, Special Assistant
Office of the Regional Administrator – EPA Region 4
404.562.9124 (office)
678.575.2148 (cell)

**Bonner, Brenda**

| | |
|---|---|
| **From:** | McKinney, Steve <smckinney@balch.com> |
| **Sent:** | Friday, September 08, 2017 5:27 PM |
| **To:** | Jenkins, Brandi |
| **Cc:** | Bonner, Brenda |
| **Subject:** | RE: Trey Glenn Event Request Form |
| **Attachments:** | 170908 ACOEL Event Request Form.docx |

Please find attached the completed form. If you have questions or other needs, please contact me.

BALCH

Steven G. McKinney, Partner, Balch & Bingham LLP
1901 Sixth Avenue North • Suite 1500 • Birmingham, AL 35203-4642
t: (205) 226-3496 f: (205) 226-3499 e: smckinney@balch.com
www.balch.com

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# October 30, 2017 - November 5, 2017

October 2017

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November 2017

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## Monday, October 30

**12:00pm - 1:00pm Oakridge Meeting** (RA's Boardroom) - Glenn, Trey

[redacted]

**4:30pm - 5:30pm CUPP Meeting w/Michael Burns** (RA's Office) - Glenn, Trey

## Tuesday, October 31

[redacted]

**RTOC MEETING - ATLANTA, GA**

**9:00am - 10:00am Briefing - Louisville Gas & Electric** (RA's Conference Room) - Glenn, Trey

[redacted]

## Wednesday, November 1

[redacted]

(b)(6)

(b)(6)

**1:00pm - 2:00pm External Relations Activities** (RA's Boardroom) - Glenn, Trey

[redacted]

**3:00pm - 3:30pm Meet w/ Allison W. - RE: Local Government**

**3:35pm - 4:05pm SD-1 Discussion** (RA's Small Conference Room) -

## Thursday, November 2

**10:00am - 10:30am Meeting w/ Delphine** (RA's Office) - Glenn, Trey

**11:30am - 12:30pm Combined Federal Campaign Tailgate** (SNAFC Courtyard) - Reese, Tondia

**1:00pm - 2:00pm Briefing - Louisville Gas & Electric** (RA's Office) - Glenn, Trey

(b)(6)

## Friday, November 3

## Saturday, November 4

## Sunday, November 5

# EVENT INFORMATION SHEET

**(revised as of 08/28/2017)**

| | |
|---|---|
| **EVENT:** | EPA Region 4 State and Local Air Directors' Fall Meeting, October 31-November 2, 2017, Embassy Suites Hotel (Centennial Olympic Park) |
| **WHAT IS THE DEADLINE FOR ACCEPTANCE?** | Prefer to confirm early, but decision to come can be made up to the time of the meeting |
| **WOULD YOU BE WILLING TO ACCEPT A SUBSTITUTE IN THE EVENT MR. GLENN IS UNAVAILABLE?** If so, what level of EPA representative are you looking for? | No. State/locals have requested to be able to meet the new RA if his schedule permits. |
| **INVITATION BY:** Also, please provide a brief description of your organization. | John Hornback, Southeast States Air Resources Management (SESARM) Executive Director on behalf of the State/local Air Directors |
| **EVENT DATE:** | October 31 or November 1 (depending on RA's schedule/availability) |
| **WILL MR. GLENN BE REQUIRED TO PAY A REGISTRATION FEE?** If yes, please provide specifics. | No, N/A |
| **TOPIC TO BE COVERED:** | Greeting by the new RA to the Region 4 Air Agency Directors, brief remarks and possibly a few audience questions.<br><br>**Note: Commissioner Dunn from the GA Environmental Protection Division has also been invited to speak.** |
| **TIMEFRAME:** When would you need Mr. Glenn to arrive and where should he report? What time would he be on the agenda? | Draft agenda has time Tuesday afternoon 10/31 or Wednesday morning 11/1, but time is completely flexible depending on Mr. Glenn's schedule/availability. |
| **LOCATION:** (include street address) | Embassy Suites at Centennial Olympic Park<br>267 Marietta Street<br>Atlanta, GA 30303<br>404-223-2300 |
| **INTRODUCTION BY:** | Beverly Banister, Director APTMD |
| **FORMAT/AGENDA** (Please provide an agenda for the event.)<br><br>**WHAT ARE YOU LOOKING FOR, i.e., SPEECH, POWERPOINT PRESENTATION, BOTH?** | Copy of draft agenda attached.<br>Speech ___X__ (Specifically, Short remarks/greeting, possible questions from audience)<br>Powerpoint _____<br>Panel Member ____ |

| | |
|---|---|
| **PLEASE PROVIDE SPECIFICS ON HOW THE SESSION WILL FLOW,** for example: total time allotted to Mr. Glenn, and if there will be questions afterward....Example: 30 minutes for speech; 15 minutes for Q&A. | 15 to 20-minute session – Greetings/remarks from the new RA to audience of Region 4 State/local air directors; opportunity to take a few questions from audience. |
| **PLEASE DESCRIBE AUDIENCE/ATTENDEES:** | Fall meeting of the Region 4 State and local Air Directors and key staff (60-70 persons in attendance). |
| **PRESS/MEDIA** (Indicate if open or closed press; if open, please provide specifics) | Closed meeting, no press. |
| **BACKGROUND/COMMENTS:** | Normal Fall Meeting with R4 Air Directors', opportunity for new RA to speak with the directors. They meet every Spring and Fall. |
| **DRESS:** | Business casual |
| **IS THE EVENT CONSIDERED FUNDRAISER OR/SPONSORSHIP? YES OR NO. (If Yes, please explain.)** | No. |
| **ARE YOU A REGISTERED LOBBYIST?** | N/A |
| **EVENT POC** (AND TELEPHONE/CELL #): (Also, please include name and cell phone number of someone who will be at the event) | John Hornback<br>770-605-3059 |
| Internal EPA:<br>EPA SPEECH POC: B. Banister x9326<br><br>EPA SUBJECT POC: B. Banister x9326<br><br>STAFF PERSON ACCOMPANYING RA: B. Banister x9326 | |
| **OTHER COMMENTS YOU WOULD LIKE TO PROVIDE:** | |

Region 4 Grants/Planning Meeting

Embassy Suites Centennial Olympic Park Atlanta, Georgia

October 31, 2017 – November 2, 2017

Draft – withheld Exemption 5

EPA Region 4 ROTC Meeting

October 31, 2017 – November 2, 2017

Sam Nunn Atlanta Federal Center, Atlanta, GA

Draft – withheld Exemption 5

Region 4 Grants/Planning Meeting

Embassy Suites Centennial Olympic Park Atlanta, Georgia

October 31, 2017 – November 2, 2017

Agenda (Draft 9/16/17)

Draft – withheld Exemption 5

# November 6, 2017 - November 12, 2017

November 2017

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December 2017

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## Monday, November 6

- **10:00am - 11:00am Briefing - Labor/Employee Relations** (RA's Boardroom) - Glenn, Trey
- **12:00pm - 12:30pm JFO Logistics Discussion w/Pam Swingle** (RA's Boardroom) - Glenn, Trey
- **12:00pm - 1:00pm Hurricanes Maria/Irma & California Wildfires: PCC Meeting and Conference Call** (Dial-In: 866-299-3188; Code: (b)(6) [redacted] - EOC_Deputy_Manager
- **2:00pm - 3:00pm PARS - Jeaneanne Gettle** (RA's Office) - Glenn, Trey
- **3:15pm - 4:15pm PARS - Ken Lapierre** (RA's Office) - Glenn, Trey
- **5:30pm - 6:00pm test** - Glenn, Trey

## Tuesday, November 7

- **10:00am - 11:00am Briefing - Grenada** (RA's Boardroom) - Glenn, Trey
- **11:00am - 12:00pm Briefing - SO2** (RA's Conference Room) - Glenn, Trey
- **11:15am - 11:45am One Hour Power Sessions Feedback w/Fabian De Rozario (10T33 (Location Change)) - Lapierre, Kenneth**
- **1:00pm - 1:30pm PARS - Beverly Banister** (RA's Office) - Glenn, Trey
- **1:30pm - 2:00pm PARS - Alan Farmer** (RA's Office) - Glenn, Trey
- **2:00pm - 3:00pm Briefing - General 404 Overview** (RA's Boardroom)

## Wednesday, November 8

- **9:30am - 10:30am Opening Remarks - Veterans Day Ceremony** (SNAFC - Bridge) - Glenn, Trey
- **10:30am - 10:45am Pick up Credentials from Security** (Security OFfice 9th Floor)
- **11:00am - 11:30am Discussion: NC Local SRF Briefing** (RA's Conference Room) - Glenn, Trey
- **11:45am - 12:00pm PFOs/PFAs** (Call in 1-866-299-3188 passcode (b)(6) [redacted] - Forsgren, Lee
- [redacted]
- **3:30pm - 4:00pm PARS - Franklin Hill** (RA's Office) - Glenn, Trey
- **4:00pm - 4:30pm PARS - Mary Walker** (RA's Office ) - Glenn, Trey

## Thursday, November 9

- **10:00am - 11:00am Briefing - 404 Yazoo Call in number has been added** (RA's Conferene Room) - Glenn, Trey
- **11:30am - 12:30pm Testimony Q&A** (RA's Small Conference Room) - Glenn, Trey
- **3:00pm - 4:00pm Meet & Greet with EPA Regional Administrator Trey Glenn** (Director's Office Conference Room - 14th Floor East Tower Suite 1456) - Fischer, Tamara

## Friday, November 10

**VETERAN'S DAY**

## Saturday, November 11

## Sunday, November 12

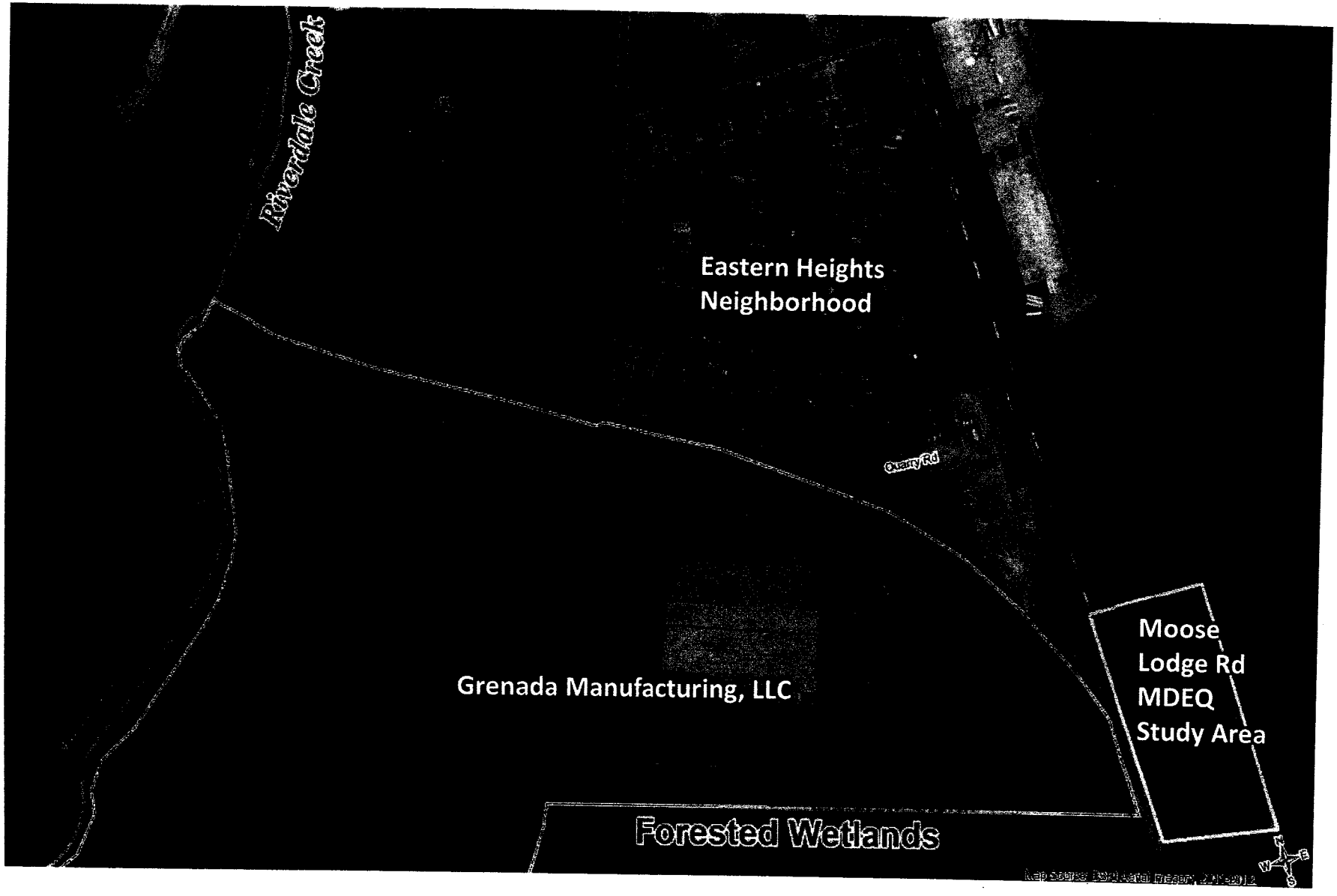
Hurricane Harvey/Irma/Maria Policy Coordinating Committee

(Deputy EOC Manager)

Agenda November 6, 2017

Draft – withheld Exemption 5

NK1
VJ1


Riverdale Creek
Eastern Heights
Neighborhood
Grenada Manufacturing, LLC
Moose
Lodge Rd
MDEQ
Study Area
Forested Wetlands

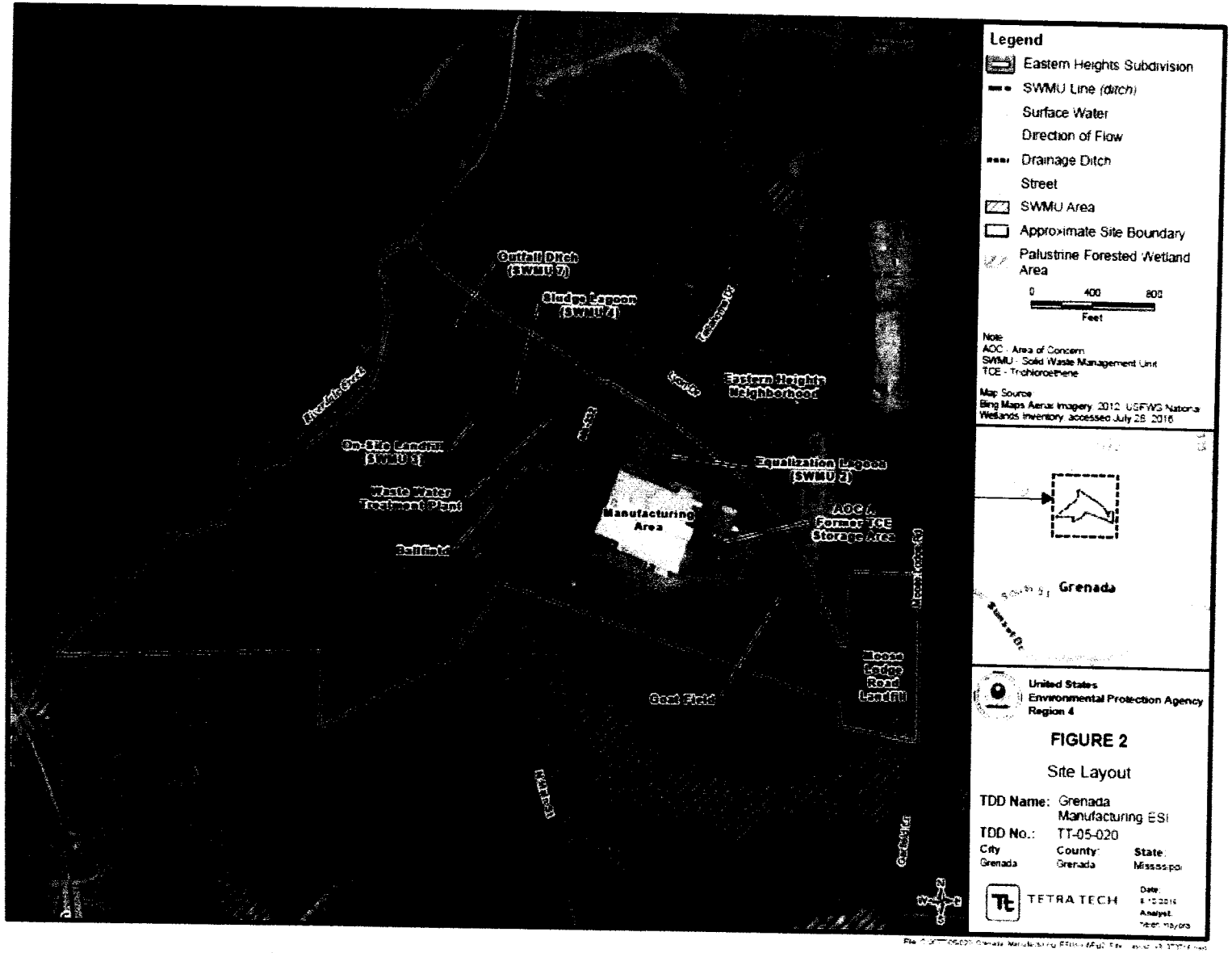



**FIGURE 2**

Site Layout

**TDD Name:** Grenada Manufacturing ESI

**TDD No.:** TT-05-020

**City:** Grenada **County:** Grenada **State:** Mississippi

Agenda for Grenada Briefing
Tuesday, November 7, 2017

**Grenada Briefing Outline**

I. Introductions & Purpose (RCRD, Superfund, and ORC) – 5 minutes

II. Site Description and Environmental Conditions – RCRD – 10 minutes

III. Actions Under RCRA – RCRD – 10 minutes

IV. Basis for Deferral to Superfund – RCRD – 5 minutes

V. Proposal to List Site on the NPL – Superfund – 10 minutes

VI. CERCLA – Superfund – 10 minutes

VII. Possible Outside Concerns & Reactions to Proposed Listing – RCRD/Superfund/ORC – 10 minutes

Sulfur Dioxide Designations (Round 3)

Regional Administrator Briefing, November 7, 2017

Withheld Exemption 5

**Briefing Sheet - RA**
**Buncombe & Mecklenburg County CAA SRF Round 3 Draft Reports**
**November 2017**

## Summary – Buncombe County

| Element | Finding | Description | Rating |
|---|---|---|---|
| Data | 1-1 | Data Accuracy and Timeliness | Area for Improvement |
| Inspections | 2-1 | Inspection Coverage and Reports | Meets or Exceeds Expectations |
| Violations | 3-1 | Identification of Violations | Meets or Exceeds Expectations |
| Enforcement | 4-1 | Enforcement Promotes Compliance | Meets or Exceeds Expectations |
| Penalties | 5-1 | Penalty Assessment and Collection | Area for Attention |

## Recommendations – Buncombe County

| Element | Finding | Issue | Recommendation |
|---|---|---|---|
| 1 | 1-1 | The timeliness and accuracy of minimum data requirement (MDR) data reported into ICIS-Air needs improvement. Much of the data was not entered within the required timeframes, and discrepancies between the files and ICIS-Air were identified in about 31% of the files reviewed. | By March 31, 2018, WNCRAQA should take steps to ensure that all MDRs are entered timely and accurately into ICIS-Air. If by March 31, 2019, EPA's annual data metric analysis and other periodic reviews confirm that WNCRAQA's efforts appear to be adequate to meet the national goal, the recommendation will be considered complete. |

# November 13, 2017 - November 19, 2017

November 2017

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December 2017

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## Monday, November 13

- **8:30am - 9:30am Meeting with Hubzone Business - OneStop** (4800 Division Ave Birmingham, AL 35222) - Glenn, Trey
- **1:00pm - 2:00pm Senior Staff Meeting** (Alm Conference Room) - Cody, Karen
- **2:15pm - 2:45pm Meeting: Pascagoula, MS Mayor** (Administrator's Office) - Cody, Karen
- **3:30pm - 4:30pm Briefing: BFGoodrich Proposed Remedy Briefing** (Alm Room) - Cody, Karen
- **4:00pm - 5:00pm 11/14 HEC/HAC Hearing In-Person Pre-Brief** (DCRoomARN3428/OCIR) - Rodrick, Christian
- **6:00pm - 6:30pm GenX Call in #866-299-3188 Passcode** (b)(6) [redacted] (Conference Call) - Forsgren, Lee

## Tuesday, November 14

- **9:15am - 9:45am Depart EPA for Rayburn House Office Building** (EPA HQ Courtyard) - Rodrick, Christian
- **10:00am - 12:30pm Energy and Commerce Hearing with R2/R4/R6**
- **2:00pm - 3:00pm House Appropriations Committee Briefing with R2/R4/R6 and OLEM** (2007 Rayburn House Office Building) - Walsh, Ed

## Wednesday, November 15

- **11:00am - Hill Visits: Senator Shelby, Richard** (304 Russel Senate Office Building, Washington DC 20510 (202) 224-5744) - Glenn, Trey
- **11:45am - 12:15pm Hill Visits: Senator Cochran, Thad** (113 Dirksen Senate Office Building, Washington DC 20510 (202) 224-5054) - Glenn, Trey
- **2:00pm - 2:30pm Hill Visits: Congressman Thompson, Bennie** (2466 Rayburn 45 Independence Ave SW Washington DC 20515 (202) 225-5876) - Glenn, Trey

## Thursday, November 16

- **10:00am - 5:30pm Manufacture Alabama Environmental Conference (This meeting starts at 9 am Central)** (The Westin Birmingham, 2221 Arrington Jr. Blvd North Birmingham AL 35203 (Medical Forum Building, 3rd Floor Room H)) - Glenn, Trey

## Friday, November 17

## Saturday, November 18

## Sunday, November 19

# November 20, 2017 - November 26, 2017

November 2017

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December 2017

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## Monday, November 20

- **9:30am - 10:00am Phone Discussion: Trey Glenn and Aaron Keatley** (Trey will call Aaron: (502) 782-6676) - Glenn, Trey
- [redacted]
- **1:30pm - 2:00pm Lake Talquin Report** (RA's Small Board Room) - Glenn, Trey
- **2:00pm - 3:00pm Briefing - DeKalb County Consent Decree** (RA's Boardroom) - Glenn, Trey
- **3:00pm - 3:30pm Grenada Briefing - Call in Number (866) 299-3188 pin (b)(6)** [redacted] **(RA's Conference Room (Updated Briefing Sheet attached)) - Glenn, Trey**

## Tuesday, November 21

- **7:30am - 8:30am Beverly**
- **9:00am - 9:45am Introductory Meeting: Trey Glenn & Traylor Champion (Georgia-Pacific)** (Sam Nunn Atlanta Federal Center 61 Forsyth St SW Atlanta GA 30303 (14th Floor - RA's Conference Room)) - Glenn, Trey
- **10:15am - 11:00am Pre-brief for the Everglades Restoration Strategies Meeting** (RA's Conference Room (Documents added)) - Glenn, Trey
- **11:15am - 11:30am Briefing: BFGoodrich** (Alm Room) - Cody, Karen

## Wednesday, November 22

## Thursday, November 23

**THANKSGIVING**

## Friday, November 24

## Saturday, November 25

## Sunday, November 26

# Official Meeting/Briefing Request for the RA / DRA

| RA Use Only: ☐ Accepted ☐ Reject ☐ Pending |
|---|

*****DD/DDD Concurrence: You must inform your Division's Director/Deputy Director that you are scheduling this meeting*****

**Date of Request**: 10/30/17

**Requestor**: César Zapata, WPD Deputy Director **Phone No.:** 404-562-9744

**Name of Meeting**: DeKalb County Consent Decree Briefing

**Purpose of Meeting**: Brief the RA about DeKalb County Consent Decree before meeting with the County staff and CEO.

**Have you briefed your Director:** □ Yes X No

**If No - When will you?:** Director has recused herself from this matter. Deputy Director is handling this issue.

| Is the Meeting Date Sensitive? Yes x No □ | Deadline Date: 11/09/17 | |
|---|---|---|
| Meeting Date/Time Preference #1 | Date: 11/07/17 | Time: Any time |
| Meeting Date/Time Preference #2 | Date: 11/06/17 | Time: Any time |
| Meeting Date/Time Preference #3 | Date: 11/09/17 | Time: Any time |

**Duration of Meeting:** 45 minutes to 1 hour

**Background:** The EPA/DOJ/GAEPD and DeKalb County entered into a Consent Decree on December 20, 2011, to address Sanitary Sewer Overflows (SSOs) throughout the county. Recent information provided to EPA and widely reported in the press have raised concerns regarding the County's compliance with the requirements of the Consent Decree to develop and implement a hydraulic model to ensure that there is adequate sewer capacity in the system before allowing new hook ups. On August, 2017, EPA sent DeKalb County a 308 information request letter to obtain information about the County's capacity program requirements under the Consent Decree. EPA and EPD requested a meeting with the County to discuss the County's response to the information request letter. In particular, the agenda will be a discussion of the following issues:

1. EPA/EPD are still unclear on how the documentation submitted in response to the 308 supports the conclusion that the CH2M Hill model is preliminary.
2. Will the County have a fully developed model by the Consent Decree deadline of 12/20/17?
3. How will the fully developed model be different from the preliminary model?
4. The documents submitted in response to question 15 do not appear to answer question 15 in the 308 response as to how the County proposes to define "Adequate Collection Capacity, "Adequate Transmission Capacity," and "Adequate Treatment Capacity."
5. Has the County completed in its submission of documents in response to the 308 information request?

The County's CEO asked for the RA to be present at the meeting.

**Have you included your briefing sheet**: □ Yes x No – will provide NLT 48 hours before briefing

**Expectations from Meeting** (Please be specific: Are you looking for a decision, guidance?)

Present the RA a brief history of the case and current status. Obtain concurrence on next steps.

| No. of Participants: 5 | Names of Required Invitees: | Optional Invitees: |
|---|---|---|

| | | |
|---|---|---|
| | Bill Bush, César Zapata, Maurice Horsey, Mita Ghosh, Sara Janovitz | |

**Requested Meeting Location:** RA's conference room

Will there be any type of computer presentation? Yes □ No X

***Requestor will be required to supply laptop computer AND cables***

Briefing Sheet for Rockwell-Grenada NPL Listing Meeting with the RA

November 20, 2017

Withheld Exemption 5

# Everglades Water Quality Restoration Strategies

## Principals Meeting #10
## November 28, 2017

## Briefing for
## Regional Administrator Trey Glenn

# Judge Gold Litigation – Restoration Strategies

- 2003 to 2010 - Miccosukee Tribe of Indians and Friends of the Everglades (FOE) litigation over Everglades Forever Act and aspects of Florida's Phosphorus Rule as new or revised Water Quality Standards. Multiple orders and determinations.
- 2010 - Potential Contempt Order required EPA to issue Amended Determination identifying remedies, schedules, funding and draft permits with effluent limits based on the numeric phosphorus criterion to fully restore the Everglades.
- 2010 - EPA filed Amended Determination which resulted in further negotiations with South Florida Water Management District and FDEP over choice of remedies and timing.
- 2012 - Governor Scott announced Restoration Strategies Agreement.
- 2012 - EPA signed Restoration Strategies Agreement with FDEP, FDEP issued new NPDES permit, and FDEP signed Consent Order with the SFWMD.

# Restoration Strategies Implementation Vehicles

- **Clean Water Act NPDES Permit – reissued by FDEP September 2017**
  - Water Quality Based Effluent Limit (WQBEL) effective immediately upon 2012 issuance of the permit
  - Incorporates $880M projects and deadlines to achieve the WQBEL
  - WQBEL and project implementation directly enforceable by EPA

- **State Enforcement Order on Consent - 2012**
  - Issued by FDEP to SFWMD
  - Contains projects and deadlines (2012-2024) for achieving the WQBEL
  - Provides for weekly reporting to EPA on STA performance
  - Requires SFWMD to implement a science plan to meet WQBEL at all 5 STAs in consultation with EPA and other federal technical representatives

- **Framework Agreement Between EPA and FDEP - 2012**
  - Principals will meet every 6 months
  - Requires semi-annual scientific review and science plan

# Meeting Purpose and Objective

- Discuss topics required by the Consent Order and Framework Agreement

*"The Regional Administrator, USEPA Region IV, and the Secretary of FDEP (Principals), and appropriate staff as needed, shall meet twice annually to discuss Everglades water quality conditions and progress toward attainment of water quality standards until each of the STAs meets the WQBEL necessary to meet water quality standards for total phosphorus in the Everglades."*

**Source:** FDEP and USEPA. 2012. Everglades Water Quality Restoration Framework Agreement between U.S. Protection Agency, Region IV, and Florida Department of Environmental Protection. June 12, 2012.

# Required Discussion Topics

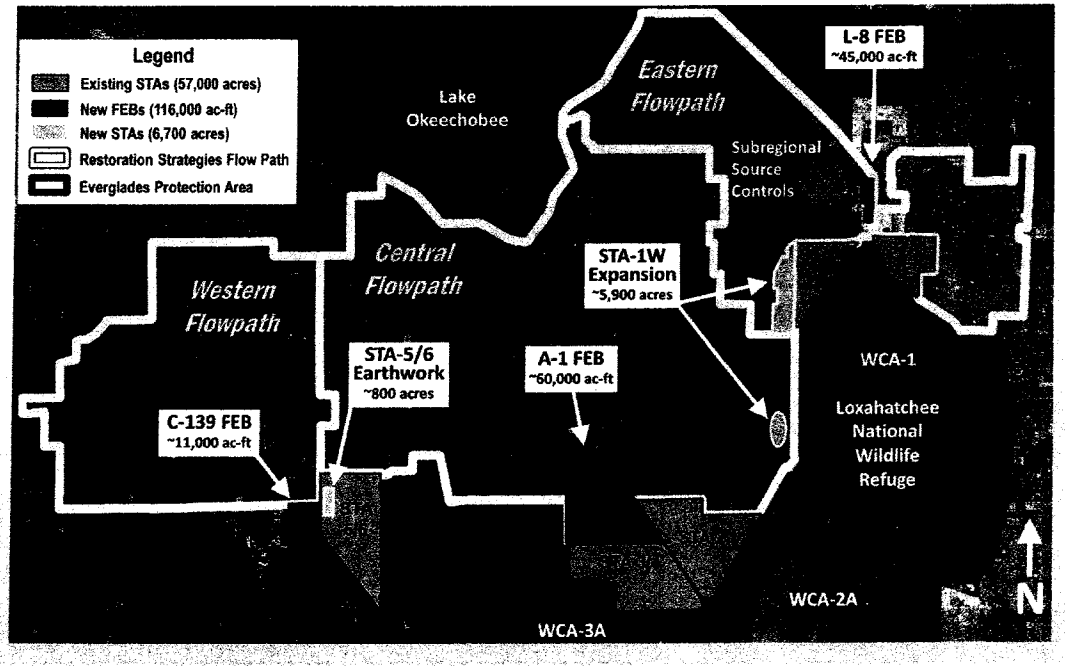
| Agenda Item | Required Discussion Topics |
|---|---|
| **Stormwater Treatment Area Performance** | "TP concentrations and loads entering each of the STAs" |
| | "TP concentrations and loads discharged from...each of the STAs" |
| | "TP concentrations and loads...diverted around each of the STAs" |
| **Science Plan** | "results from research conducted in accordance with the Science Plan described below and in paragraph 13 of the NPDES Consent Order" [B] |
| **Downstream Monitoring** | "monitoring results for downstream monitoring (as described in paragraph 14 of the NPDES Consent Order)" [A] |
| **Consent Order Milestone Report** | "progress of the SFWMD in achieving the milestones on the NPDES permits" [C] |
| **Enforcement Matters** | "enforcement matters as noted in section F" |
| **Differing Opinions of Technical Representatives** | "resolution, as necessary, of any differing technical opinions of the science representatives of the USEPA, FDEP and the SFWMD" |

**Notes:**
A – "paragraph 14" appears to be a typo; downstream monitoring is described in paragraph 15
B – "paragraph 13" appears to be a typo; the Science Plan is described in paragraph 14
C – "permits" appears to be a typo; corrective actions and deadlines (aka milestones) are provided in the Consent Order

# Florida Water Quality Restoration Strategies

- 2012 EPA – Florida agreement on strategies to meet the 10 part per billion phosphorus criterion for water discharged into the Everglades from the Everglades Agricultural Area. Project cost about $880M to Florida taxpayers. State NPDES permit and Consent Order.
- Construction Deadlines 2012 – 24. Projects on schedule. One of five STAs is meeting phosphorus limit.
- Semi-annual meetings: RA, FDEP Secretary, SFWMD Executive Director.
- Projects do not address Western Basins that discharge into Tribes' Federal Reservations

https://www.epa.gov/everglades/what-epa-doing-help-restore-everglades-water-quality



# Restoration Strategies Schedule

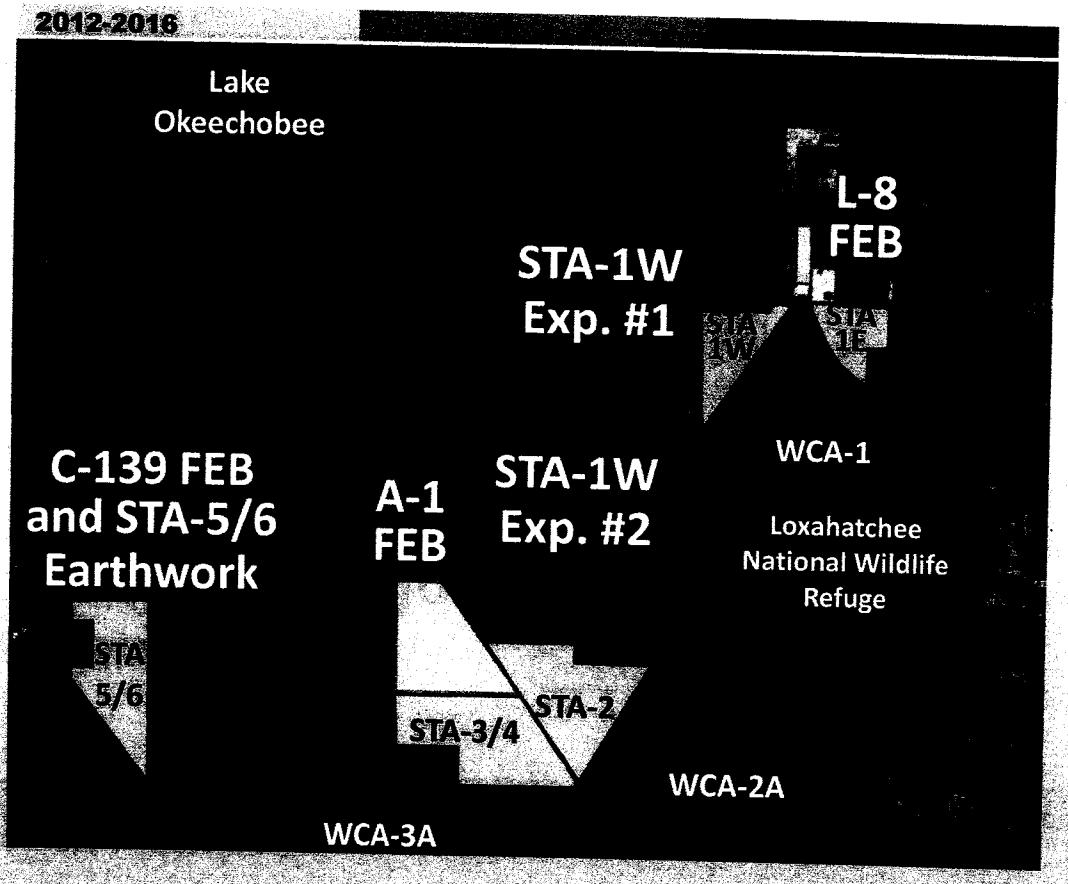
about 35 milestones completed, 35 remain

**2012**
- 57,000 ac of STA

**2012-2016**
- L-8 FEB (45,000 ac-ft)
- A-1 FEB (60,000 ac-ft)

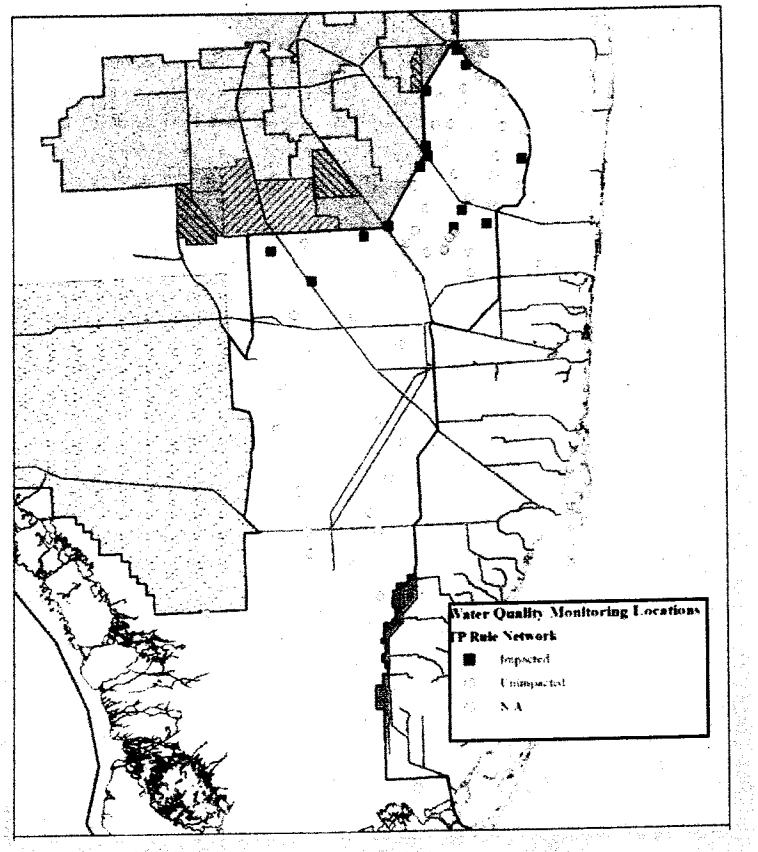
[redacted]

[redacted]



# Everglades Numeric Phosphorus Criterion

- Intended to provide protection against **imbalances of aquatic flora and fauna** within the Everglades.
- Long-term **geometric mean of 10 parts per billion** (ppb) Total Phosphorus (TP), measured within the Everglades marsh.
- Assessment methodology includes spatial (network of stations) and temporal variability.
- WQBEL applied at the discharge is equivalent to the 10 ppb criterion



# Water Quality Based Effluent Limit

Developed to be protective of the Everglades Protection Area and allow for the achievement of the Everglades phosphorus criterion (10 ppb) established in Rule 62-302.540, F.A.C.

**WQBEL [in permits issued by FDEP]**

Total Phosphorus concentrations in the discharge from each STA "shall not exceed:

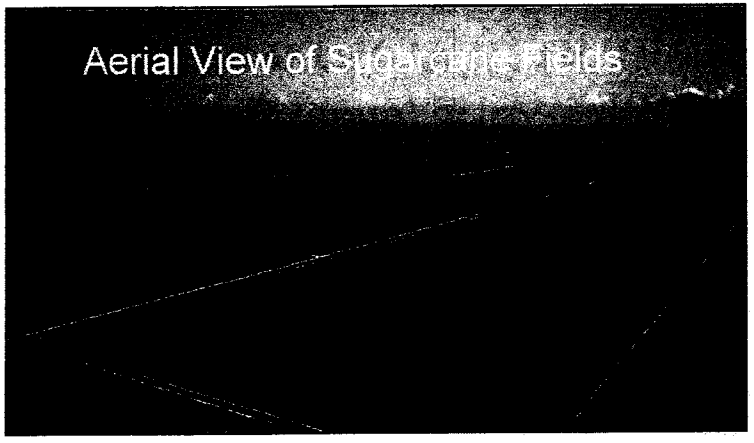
- **13 ppb as an annual flow-weighted mean (FWM)** in **more than 3 out of 5 water years** on a rolling basis; and
- **19 ppb** as an annual flow-weighted mean (AFWM) **in any water year"**

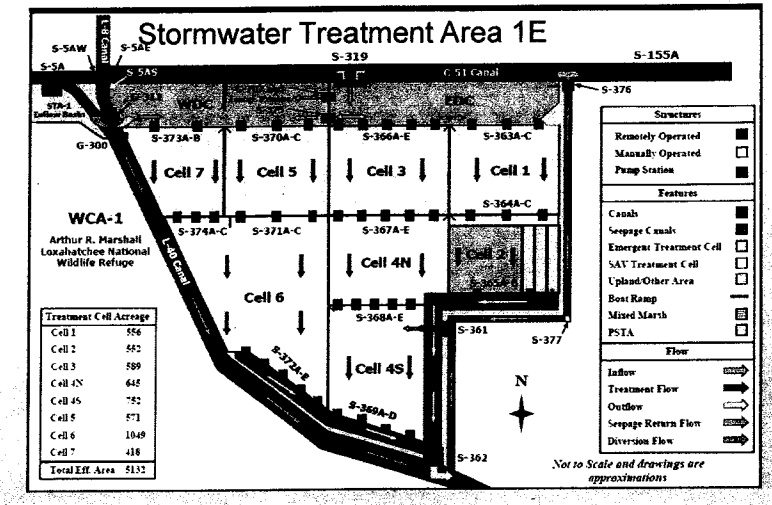
# Everglades Phosphorus Control

- Required in Florida law and Moreno Federal Court Consent Decree
- Everglades Agricultural Area BMPs
  - 25% load reduction required
  - Removed 3100 tons (56%) since 1990s
- Post-BMP water goes into constructed treatment wetlands [Stormwater Treatment Areas (STAs)]
  - 57,000 acres
  - Natural processes retain phosphorus.
  - $2 B investment since 1990
  - Removed 2300 metric tons since 1993
  - Inflows 61 – 164 ppb; Discharge 11 - 23 ppb
- Everglades water quality standard is 10 ppb
- Everglades background is 4 ppb

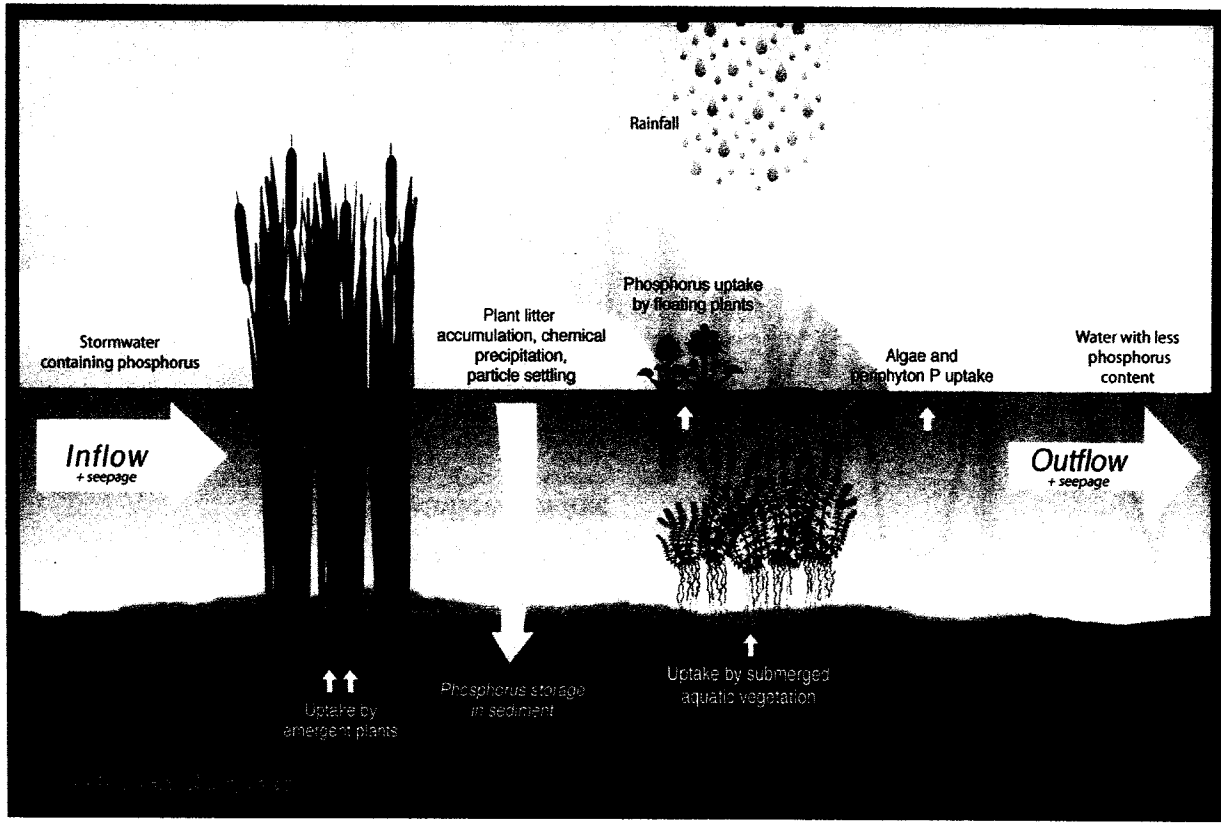
**Best Management Practices (BMPs) are on-farm agricultural measures that reduce release of pollutants from a parcel of land**

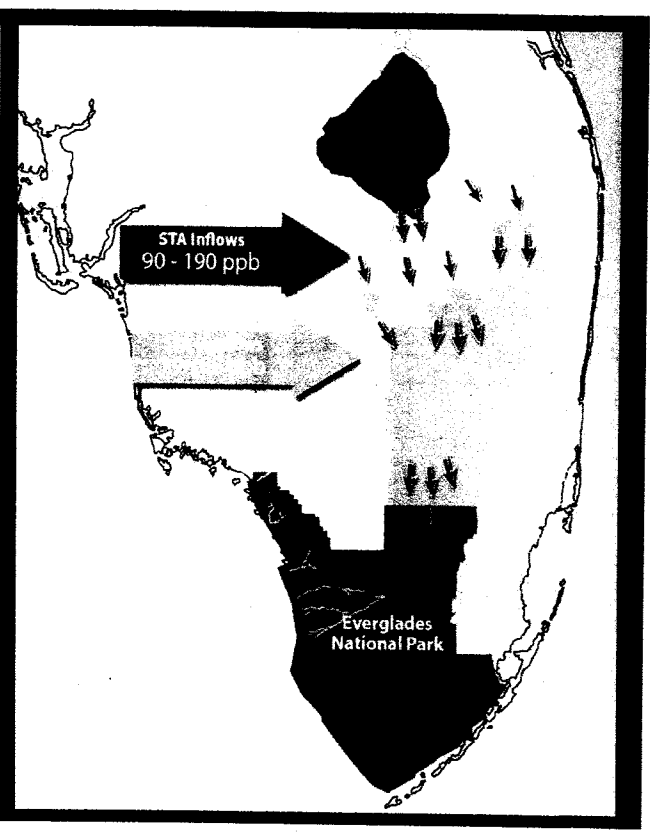
**ppb = parts per billion or micrograms per liter.**



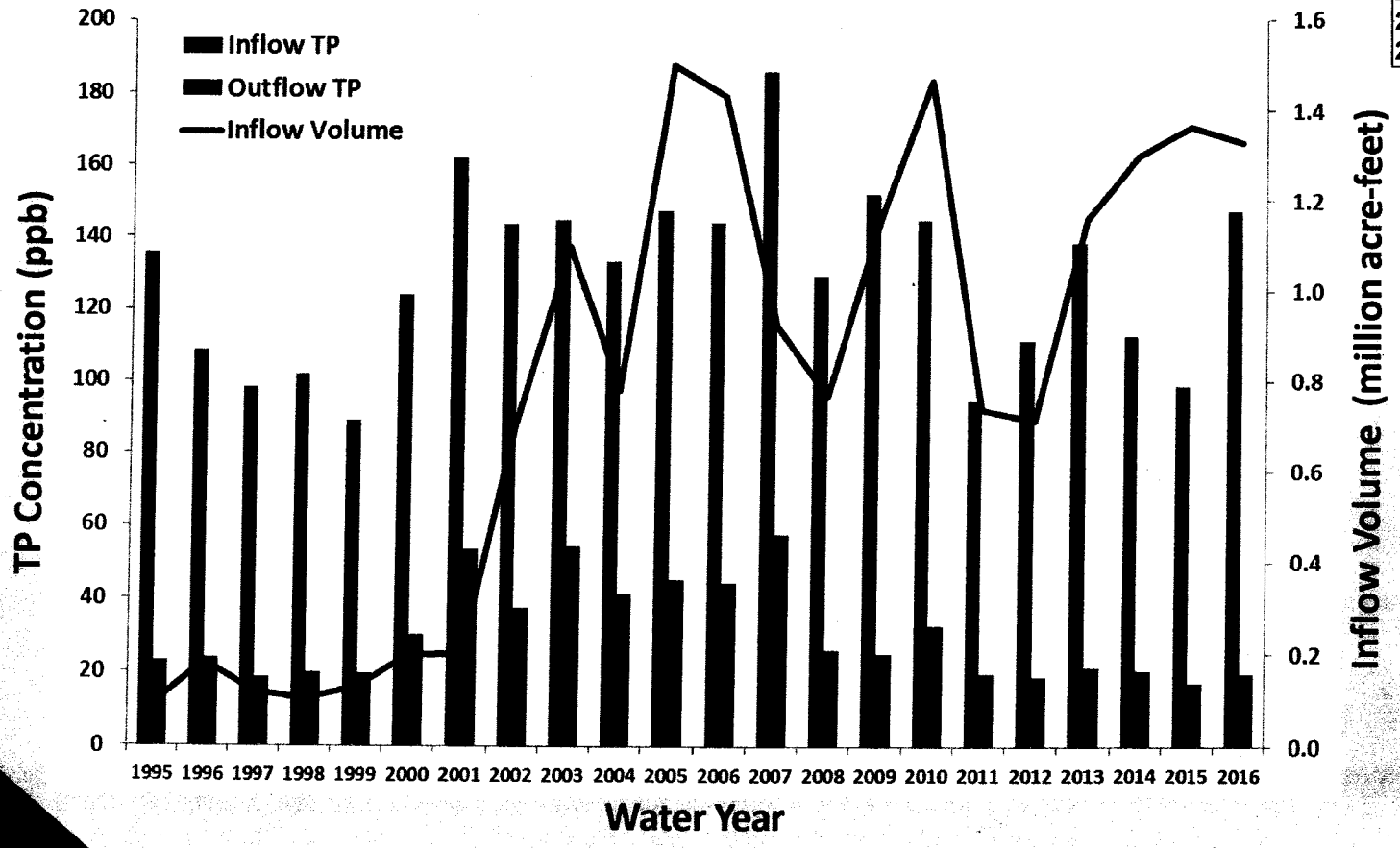



# Stormwater Treatment Areas
# Optimized Conditions



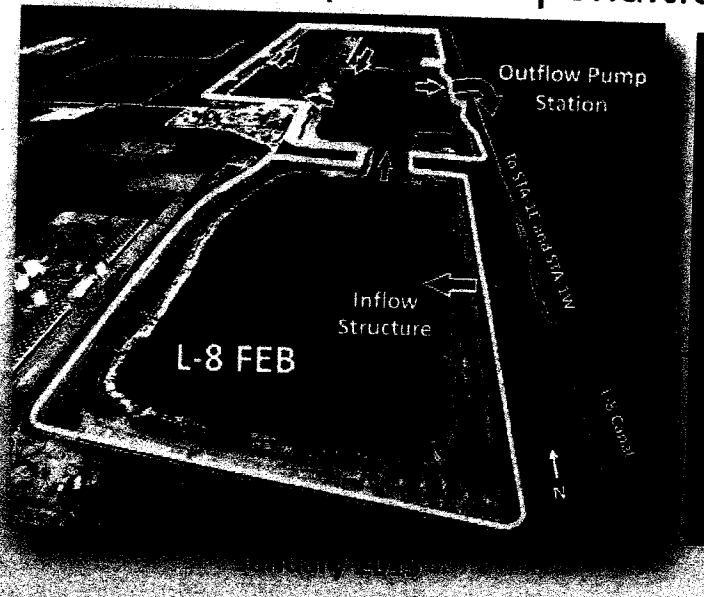
# STA Performance 1995-2016

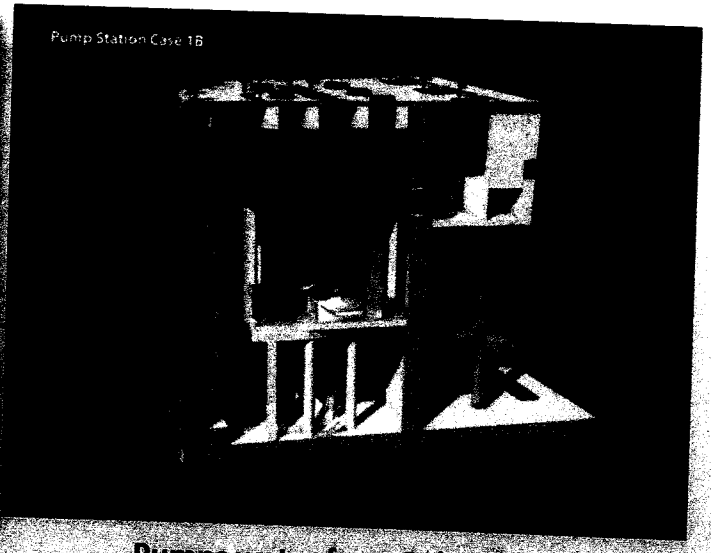



| Permitted STA Area |
|---|
| 1994: 4,000 acres |
| 1999: 9,000 acres |
| 2000: 18,000 acres |
| 2003: 35,000 acres |
| 2004: 40,000 acres |
| 2006: 45,000 acres |
| 2012: 57,000 acres |

# L-8 Flow Equalization Basin (FEB)

- Designed to improve performance of STA-1E and STA-1W
- 800 acres by 58 feet deep = ~ 45,000 acre-feet
- SFWMD missed construction completion deadline of December 31, 2016 due to pump issues. Completed summer 2017. FDEP may provide update on penalties (~$200K) and options.




Pumps water from 3 depths

# Additional Slides

# Litigation History

1988 Lawsuit filed by DOJ against Florida
(State allowing discharges causing harm to ENP & LNWR)

1992 US and FL Sign Consent Decree
(FL to adopt TP criterion, STAs & ag BMP program)

1994 FL Adopts Everglades Forever Act (EFA)
(Requires compliance with TP criterion by Dec 2003, BMPs & expanded STAs)

1995 US and State jointly move to amend CD to adopt EFA restoration numbers. Deadlines changed to 2006.

2003 – Court appoints Special Master to monitor Everglades Restoration under CD amid allegations state is not meeting requirements of CD and passage of EFA amendments.

2008 DOJ enters into Dispute Resolution
(State in violation of CD; TP exceeded in Refuge)

2017 Technically, Dispute Resolution continues however no activity.

1999 EPA approves Miccosukee Tribe's 10 ppb TP criterion

2003 FL Amends EFA (Authorizes moderating provision to 2016 & beyond)
Tribe/FOE sue EPA over EFA (EPA found amendments to not be WQS)

2005 FL Adopts and EPA approves TP criterion (10 ppb and moderating provision
Tribe/FOE sue EPA over criterion and moderating provision

2008 Gold Remands Decision to EPA (EFA is change to WQS and moderating provision in TP rule not consistent with CWA)

2009 Tribe files motion/EPA issues "Determination"
(Determination responds to Gold's 2008 order

2010 Gold order requiring Amended Determination
(Court unhappy about FDEP permits w/mod prov.)
EPA issued Amended Determination September 2010.

2011 EPA objects to FDEP permits for STAs

2012 FDEP Issues final NPDES permit & Consent Order
(Permit addresses EPA objections; CO includes schedule and milestones)

2017 SFWMD met 33 of 35 CO deadlines
STA NPDES/EFA permits re-issued

# Water Quality Requirements and Federal and State Laws Intended to Protect Species

- The Endangered Species Act (ESA) and Migratory Bird Treaty Act (MBTA) currently affect how STAs are operated
- ESA and MBTA will affect how STAs and FEBs are operated in the future
- ESA and MBTA have the potential to impact achievement of Everglades STA water quality criteria (i.e. WQBEL)

# A-1 Flow Equalization Basin (FEB)

- Designed to improve performance of **STA-2** and **STA-3/4**
- 15,000 acres by 4 feet deep = ~ **60,000 acre-feet** of storage
- 21 miles of levee; 15 water control structures (10 solar powered)
- Inflow operations began **August 2015**

***Operational Summary: Aug. 1, 2015 - Apr. 30, 2017***

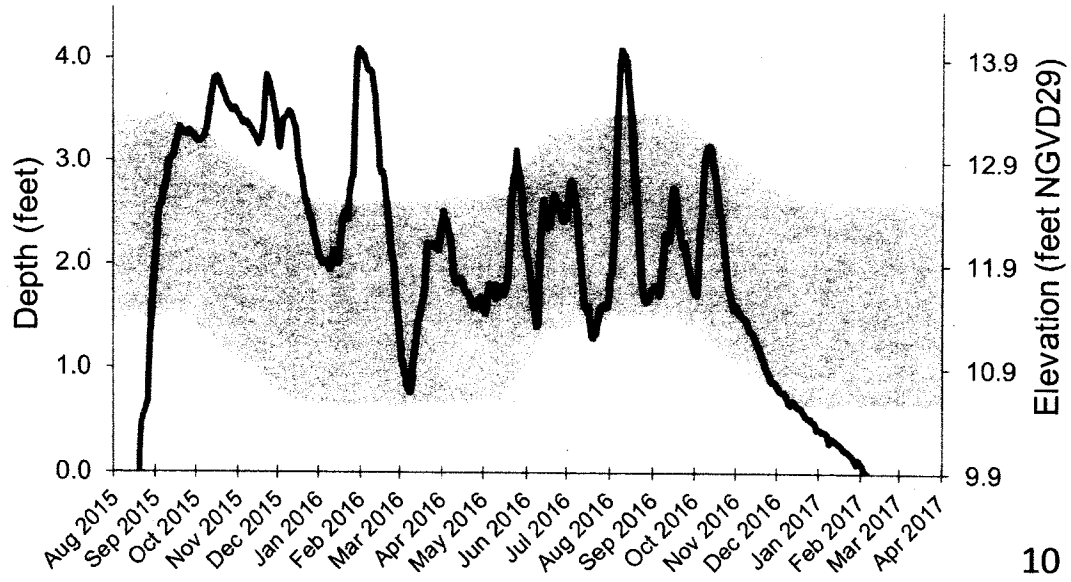
**Inflow Volume**
**542,000 acre-feet**

**Inflow P Conc.**
**88 ppb**

**Outflow P Conc.**
**20 ppb**

**P Load Reduction**
**85%**

**ontains provisional**
**is subject to change**



**United States Environmental Protection Agency, Region IV**
**Florida Department of Environmental Protection**
**Everglades Water Quality Restoration Strategies**
**Framework Agreement Principals Meeting #10**
**November 28, 2017 9:00 AM**

**United States Environmental Protection Agency, Region IV**
**Atlanta, GA**

**Call-in number: Passcode:**
**Webmeeting:**

## Agenda

1. **Welcome and Introductions (USEPA/FDEP)**
2. **Background and History (FDEP/SFWMD)**
3. **Stormwater Treatment Area Performance (SFWMD)**
4. **Stormwater Treatment Area Science Plan (SFWMD)**
5. **Downstream Monitoring (SFWMD)**
6. **Consent Order Milestone Report (SFWMD)**
7. **Enforcement Matters (FDEP)**
8. **Differing Opinions of the Technical Representatives (USEPA/FDEP/SFWMD)**
9. **Other Topics/Miscellaneous (USEPA/FDEP/SFWMD)**

**Everglades Water Quality Restoration Strategies Principals Meeting #10**

This is a required semi-annual update; there are no pending EPA decisions.

**Background:** There are 57,000 acres of constructed treatment wetlands (Stormwater Treatment Areas, STAs) that remove 80% of the total phosphorus (TP) before discharge into the Everglades. The initial STA requirements were in Florida's Everglades Forever Act and the Moreno Consent Decree. In 2012, EPA and Florida agreed on Water Quality Restoration Strategies. FDEP issued a CWA NPDES permit and Consent Order (CO) to the South Florida Water Management District (SFWMD). The CO projects ($880 million) include STA expansions, water storage areas (flow equalization basins, FEBs) that release water to the STAs, and conveyance and infrastructure improvements. The permit establishes a Water Quality Based Effluent Limit (WQBEL) that is equivalent to the 10 part per billion (ppb) water quality standard, monitoring and research to confirm STA performance and progress, and an implementation schedule based on the CO. Under the permit, EPA has direct enforcement of the WQBEL and implementation schedule. A 2012 Framework Agreement signed by the EPA R4 Regional Administrator and the Florida Department of Environmental Protection (FDEP) Secretary states that they shall meet twice annually to discuss water quality progress under Restoration Strategies until each STA meets the WQBEL.

**Attendees:** *FDEP*- Drew Bartlett, Deputy Secretary for Ecosystem Restoration; Ed Smith, Director of Everglades Programs. *SFWMD* - Ernie Marks, Executive Director; Brian Accardo, General Counsel and Chief of Staff; Eva Vélez, Division Director, Everglades Policy and Coordination; Jeremy McBryan, Principal Engineer, Everglades Policy and Coordination. *EPA* - Trey Glenn, Regional Administrator; Mary Walker, Director, Water Protection Division (WPD); Cesar Zapata, Deputy Director, WPD; Dan Scheidt, Senior Scientist Everglades, WPD, Phil Mancusi-Ungaro, Office of Water Legal Support.

**CO Project Status:** *Eastern Flow Path* (CO deadline 2024) discharges directly into Loxahatchee National Wildlife Refuge (USFWS). Projects underway: water structure modifications, STA expansion. Deep FEB completed in 2017. *Central Flow Path* (CO deadline 2018) discharges toward Everglades National Park (NPS). The 16,000 acre shallow A-1 FEB was completed in 2015. *Western Flow Path* (CO deadline 2025) discharges toward the Miccosukee Tribe of Indians Federal Reservation. Project status: FEB design to be initiated 2018.

**Agenda items**: *STA performance* (The STAs performed well during water year 2017 (May 2016-April 2017), STA 2 and 3/4 are approaching the WQBEL, STA3/4 annual outflow of 11 ppb is best ever. Extremely wet conditions during 2017 and hurricane Irma resulted in higher TP at STA discharges.; *science plan* to improve STA performance (9 studies ongoing, 6 technical reports); *downstream monitoring* to track phosphorus impacts in the Everglades (TP controls are working, impacts remain but are not expanding near STA discharges); *Consent Order milestone report* (35 CO milestones completed; all projects are on track or ahead of schedule); *enforcement matters* (SFWMD missed a 12/31/2016 CO deadline for the L8 FEB due to issues with a custom pump. FDEP fined SFWMD $1000/day. FDEP may provide an update.); *differing opinions* of the technical representatives (none). The 22nd Technical Representatives meeting is November 20, 2017.

**Other Potential Issues:** *a) Miccosukee Tribe's draft flow criteria as CWA Water Quality Standard.* FDEP, SFWMD and Army Corps provided informal comments. The Tribe is considering options. *b) Endangered Species.* SFWMD may reiterate a concern about FEB/STA operational constraints due to endangered or migratory bird nesting. SFWMD is discussing with USFWS.

**Contacts:** César Zapata 404-562-9744 or Dan Scheidt 706-676-0411.

# November 27, 2017 - December 3, 2017

November 2017

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December 2017

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## Monday, November 27

- **2:00pm - 2:30pm SD-1 Prep Call** (404-562-9997,(b)(6) - Glenn, Trey

## Tuesday, November 28

**8:00am - 1:00pm Regional Office Mission Measures Training** (EPA HQ North Building, Room 2530) - Darwin, Henry

- **9:00am - 10:30am Everglades Restoration Strategies Meeting** (RA's Conference Room ) - Glenn, Trey

## Wednesday, November 29

- **9:00am - 1:00pm HOLD: Dekalb County Meeting** (RA's Conference Room ) - Glenn, Trey

**1:30pm - 2:30pm Nov. Last session of 2017 - Monthly Internal Comms COP Meeting** (In person: WJC-N 2507| Online: 1-866-299-3188, code: [redacted] and https://epawebconferencing.acms.com/epainternalcomms/ ) - EPA Internal Comms

- **3:00pm - 4:30pm Meeting with Trey Glenn- USEPA Region 4** ( Galt House Hotel, Louisville KY 140 North 4th Street - Main Lobby Fire Place) - achaney@sd1.org

## Thursday, November 30

**Gulf Guardian Awards** (Grand Hotel and Resort Point Clear, Alabama)

- **7:00am - 8:00am Meeting with Stakeholders** (The Galt House Hotel (Louisville, KY)) - Glenn, Trey
- **8:30am - 10:00am Kentucky Farm Bureau Natural Resources Session** (Nunn Room The Galt House Hotel (Louisville, KY)) - Glenn, Trey
- **11:30am - 12:15pm Kentucky Farm Bureau Annual Meeting** (The Galt House Hotel (Lousiville, KY)) - Glenn, Trey
- **1:30pm - 2:30pm Meeting with External Stakeholders** (150 S. FIFTH STREET, LOUISVILLE, KY 40202) - Glenn, Trey

## Friday, December 1

## Saturday, December 2

## Sunday, December 3

- **8:00am - 4:30pm MONTGOMERY, AL** (ALABAMA FARMERS ASSOCIATION MEETING )

# December 4, 2017 - December 10, 2017

December 2017

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January 2018

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## Monday, December 4

**ALABAMA'S FARMERS ASSOCIATION** (Montgomery, Alabama)

**9:00am - 10:45am Alabama Farmers Federation Annual Meeting** (Montgomery Performing Arts Center, 201 Tallapoosa Street, Montgomery AL 36104)

**2:00pm - 4:13pm Flight from Montgomery AL to Atlanta, GA (Final Destination Pittsburgh PA)** - Hudson, Wanda

**5:25pm - 7:08pm Flight Atlanta GA to Pittsburgh PA** - Hudson, Wanda

## Tuesday, December 5

**9:00am - 10:30am Opening Plenary Session Featuring Dan French, Brownfield Listing** (David Lawrence Convention Center 1000 Fort Duquesne Blvd Pittaburgh PA 15222) - Hudson, Wanda

**9:00am - 10:00am Canceled: Management Report Discussion w/OPM Managers** (ARA Conference Room) - Lapierre, Kenneth

**12:30pm - 1:00pm FIP/SIP Issue for Mississippi and Alabama** (Mandy's Office + 1-866-299-3188; [redacted] Gunasekara, Mandy

**4:00pm - 4:30pm Oak Ridge Meeting** (RA's Conference Room for those in the Building/ Call-in Number (404) 562-9997 code [redacted] Glenn, Trey

## Wednesday, December 6

**8:00am - 8:30am Check-out of Hotel** - Hudson, Wanda

**8:30am - 10:00am Mayor's Roundtable** (David L. Lawrence Convention Center 1000 Fort Duquesne Blvd Pittsburgh PA, 15222) - Hudson, Wanda

**12:03pm - 1:35pm Flight Pittsburgh PA to Charlotte NC (Final Destination Nashville TN)** - Hudson, Wanda

**3:50pm - 5:10pm Flight Charlotte NC to Nashville TN** - Hudson, Wanda

## Thursday, December 7

**8:30am - 9:00am Parking Directions for TDEC** (POC: Kelly Clemons (615) 532-0106)

**9:00am - 11:00am TDEC/EPA Visit - DOE Meeting (This is the correct invite - it shows Central Time)** (312 Rosa L. Parks Avenue

**10:00am - 11:00am Canceled: Meet & Greet with TDEC Staff** (TDEC - 711 R.S. Gass Blvd Nashville TC 37216) - Hudson, Wanda

**11:00am - 1:00pm APTMD Holiday Celebration: December 7, 2017** - Davis, Amber

**11:15am - 12:00pm Town Hall with TDEC Staff (This is the Correct Invite - Shows Central Time)** (312 Rosa L. Parks Ave Will R. Snodgrass

[redacted]

**1:15pm - 2:00pm Lunch with TDEC Executives** (312 Rosa L. Parks Avenue Willaim R. Snodgrass Bldg 2nd Floor Conference Room B) -

**3:00pm - 3:30pm General Discussion** (Teleconference: (202)

## Friday, December 8

## Saturday, December 9

## Sunday, December 10

# EVENT INFORMATION SHEET

**(revised as of 08/28/2017)**

| | |
|---|---|
| **EVENT:** | Alabama Farmers Federation Annual Meeting – Dec 3-4, 2017 |
| **WHAT IS THE DEADLINE FOR ACCEPTANCE?** | September 15, 2017 |
| **WOULD YOU BE WILLING TO ACCEPT A SUBSTITUTE IN THE EVENT MR. GLENN IS UNAVAILABLE?** If so, what level of EPA representative are you looking for? | No |
| **INVITATION BY:** Also, please provide a brief description of your organization. | The Alabama Farmers Federation is Alabama's largest general farm organization representing nearly 360,000 member families. |
| **EVENT DATE:** | December 4, 2017 |
| **WILL MR. GLENN BE REQUIRED TO PAY A REGISTRATION FEE?** If yes, please provide specifics. | No |
| **TOPIC TO BE COVERED:** | General update on EPA activities, goals, etc. for Region 4; specifically how will the agency conduct outreach to the agricultural community |
| **TIMEFRAME:** When would you need Mr. Glenn to arrive and where should he report? What time would he be on the agenda? | Mr. Glenn should plan to arrive no later than 9:00 am and will be speaking at 9:45 am. The session ends at 10:45. |
| **LOCATION:** (include street address) | Montgomery Performing Arts Center<br>201 Tallapoosa Street, Montgomery, AL, 36104 |
| **INTRODUCTION BY:** | Jimmy Parnell, President, Alabama Farmers Federation |
| **FORMAT/AGENDA** (Please provide an agenda for the event.)<br><br>**WHAT ARE YOU LOOKING FOR, i.e., SPEECH, POWERPOINT PRESENTATION, BOTH?** | Speech __X___<br>Powerpoint _____<br>Panel Member _____ |
| **PLEASE PROVIDE SPECIFICS ON HOW THE SESSION WILL FLOW,** for example: total time allotted to Mr. Glenn, and if there will be questions | Mr. Glenn will be the first speaker in this session and we will likely have a second speaker. Mr. Glenn should expect to speak about 30 mins. If he would like to take questions, prepared remarks should be 20 minutes leaving 10 minutes for |

| | |
|---|---|
| afterward….Example: 30 minutes for speech; 15 minutes for Q&A. | Q&A. Following this session, if Mr. Glenn's schedule permits, we would like to have a small group meeting over lunch to discuss nutrient management on animal feeding operations. |
| **PLEASE DESCRIBE AUDIENCE/ATTENDEES:** | Audience will be farm families, staff, and invited guests of the Alabama Farmers Federation. |
| **PRESS/MEDIA** (Indicate if open or closed press; if open, please provide specifics) | Press are notified of the meeting, but rarely cover this morning session. If press do attend, Mr. Glenn will be notified prior to making his remarks. |
| **BACKGROUND/COMMENTS:** | |
| **DRESS:** | Business (Coat & Tie) |
| **IS THE EVENT CONSIDERED FUNDRAISER OR/SPONSORSHIP? YES OR NO. (If Yes, please explain.)** | No |
| **ARE YOU A REGISTERED LOBBYIST?** | Yes |
| **EVENT POC** (AND TELEPHONE/CELL #): (Also, please include name and cell phone number of someone who will be at the event) | Mitt Walker<br>(334) 451-2893 |
| Internal EPA:<br>EPA SPEECH POC:<br><br>EPA SUBJECT POC:<br><br>STAFF PERSON ACCOMPANYING RA: | |
| **OTHER COMMENTS YOU WOULD LIKE TO PROVIDE:** | |

# TDEC/EPA Visit

312 Rosa L. Parks Avenue
William R Snodgrass Bldg., 2nd Floor
December 7, 2017

| Itinerary | Meeting Information | Location |
|---|---|---|
| **8:00-10:00** | DOE Meeting<br><br>Participants:<br>Trey Glenn, EPA<br>Anne Heard, EPA<br>Jay Mullis, DOE<br>Commissioner Bob Martineau, TDEC<br>Deputy Commissioner, Shari Meghreblian, TDEC | 2nd Floor<br>Commissioner's Conference Room |
| **10:15-11:00** | Town Hall with TDEC Staff | 3rd Floor<br>Tennessee Room #2 |
| **11:15-12:15** | Roundtable with Stakeholders | 30th Floor<br>(Take elevator to 27th Floor – someone will direct you to the elevator to 30th Floor) |
| **12:15-1:00** | Lunch with TDEC Executives | 2nd Floor<br>Conference Room B |

*Any questions, please contact Kelley Clemons at Kelley.Clemons@tn.gov or 615-354-7297

# December 11, 2017 - December 17, 2017

December 2017

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January 2018

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## Monday, December 11

- **10:30am - 11:30am FW: R4 Cares & Shares CFC Event** (Gary White Conference Rooms 9D & E) - Reese, Tondia
- **12:30pm - 1:00pm Discussion: Interim FTE Allocations** (RA's Small Conference Room) - Glenn, Trey
- **2:00pm - 4:00pm Meeting w/ Stakeholders** (Bank of America Tower Building at 600 Peachtree St., NE) - Glenn, Trey

## Tuesday, December 12

- **9:00am - 9:30am Briefing: Delegation of Authority for Federal Plan requirements applicable to SSI sources to the NCDEQ and the WNCRAQA** (RA's Conference Room (additional information added)) -
- **9:30am - 10:00am Region 4 Stormwater Enforcement Program and National Association of Home Builders Meeting Follow-up**
- **10:00am - 11:00am BF Goodrich Prebrief** (RA's Conference Room Callin Number (404) 562-9997 Code: (b)(6) Glenn, Trey
- **11:10am - 11:20am OGR Position** (RA's Small Conference Room) - Glenn, Trey
- **11:30am - 12:00pm SD1 Conversation** (RA's Small COnference Room) - Glenn, Trey
- **1:00pm - 5:00pm Meeting with Stakeholders: BF Goodrich Call-in Number has been added** (RA's Conference Room ) - Glenn, Trey
- **1:00pm - 2:00pm**
- **1:00pm - 2:00pm**

## Wednesday, December 13

**Washington, D.C**

- **9:00am - 9:30am Meeting with Susan Bodine** (Rm 3204-WJC South) - Glenn, Trey
- **9:30am - 10:00am Meeting w/ Blake Ashbee R4 Chief of Staff and Regional Administrator Trey Glenn** (3426-A) - Richardson, RobinH
- **12:00pm - 1:00pm Troy/Ken Lunch** - Lyons, Troy
- **1:45pm - 2:00pm Meet with Region 4 RA Trey Glenn (Confirmed)** (WJC-N 5400) - Wehrum, Bill

## Thursday, December 14

- **8:00am - 8:30am Discussion: Title VI and ADEM** (RA's Small Conference Room) - Glenn, Trey
- **9:00am - 10:00am Discussion: Interim FTE Allocations w/Directors**
- **10:00am - 10:45am Laboratory Enterprise Kaizen Project** (RA's [redacted]
- **11:50am - 12:20pm Dekalb County Check-in** (RA's Conference
- **12:30pm - 1:00pm Emphasis Discussion: Trey & Suzanne (ORC)**
- **1:00pm - 1:30pm Regional Science Program/State Engagement**
- **1:30pm - 2:00pm One on One: Trey & Alan** (RA's Small Conference
- **2:00pm - 4:00pm Emphasis Discussions** (RA's Small Conference
- **2:00pm - 2:30pm Emphasis Discussion: Trey & Scott (OEC)** (RA's
- **2:20pm - 2:50pm Emphasis Discussion: Trey & Beverly (AIR)** (RA's
- **2:50pm - 3:20pm Emphasis Discussion: Trey, Alan & Carol (RCRD)**
- **3:20pm - 3:50pm Emphasis Discussion: Trey & Denise (OEJS)** (RA's

## Friday, December 15

- **8:00am - 8:30am Reminder Pay for December's Parking**

## Saturday, December 16

## Sunday, December 17

**Official Meeting/Briefing Request for the RA or DRA**

**Has your Division Director been briefed on this subject, and is she aware of your request to set up this meeting? Yes**

Date of Request: November 17, 2017

Requestor: Jason Dressler
Phone No.: x2-9208

**Name of Meeting**: Delegation of authority for Federal Plan requirements applicable to Sewage Sludge Incineration (SSI) sources to the North Carolina Department of Environmental Quality (NCDEQ) and the Western North Carolina Regional Air Quality Agency (WNCRAQA).

**Purpose of Meeting**: Discuss the state and local air agencies' request for delegation of the Federal Plan and the purpose of the Memoranda of Agreement (MOAs).

| Is the Meeting Date Sensitive? Yes ☐ No X | Deadline Date: N/A | |
|---|---|---|
| Meeting Date/Time Preference #1 | **12/06/17** | **Anytime** |
| Meeting Date/Time Preference #2 | **12/08/17** | **Anytime** |
| Meeting Date/Time Preference #3 | **12/12/17** | **Anytime in the Morning** |

Duration of Meeting: 1 hour
**(for substantive meetings, schedule at least 1 hour)**

**Background**: SSI sources in North Carolina are currently subject to the SSI Federal Plan. The NCDEQ submitted a formal request for delegation of the Federal Plan in December 2016, and the WNCRAQA similarly submitted a request in February 2017. MOAs that serve as the mechanism for transferring Federal Plan administration and enforcement authority have been developed.

**Expectations from Meeting**: Obtain the Regional Administrator's approval to send the MOAs to the NCDEQ and the WNCRAQA for signature.

| No. of Participants: | Names of Required Invitees: | Optional Invitees: |
|---|---|---|
| 10 | Beverly Banister<br>Carol Kemker<br>Beverly Spagg<br>Todd Russo<br>Ken Mitchell<br>Jason Dressler<br>Mark Bloeth<br>Valerie Nowell<br>Gretchen Frizzell<br>Brandon Cobb | Carrie Griffith<br>Megan Arias |

Requested Meeting Location: Regional Administrator's Conference Room

Will there be any type of computer presentation? Yes X No ☐

**Agenda for Regional Administrator**
**Delegation of Federal Plan / Memoranda of Agreement Between EPA and the State of North Carolina and Western North Carolina**
**December 12, 2017**

**Purpose:** Review the state and local air agency's requests for delegation of the Clean Air Act Section 129 Sewage Sludge Incinerator Federal Plan and associated Memoranda of Agreement (MOA).

**Anticipated Outcome:** Obtain Regional Administrator's approval to send the MOAs to the NC Department of Environmental Quality and the Western NC Regional Air Quality Agency for signature.

**Meeting Participants / Roles**

| Participant | Role | Office |
|---|---|---|
| Beverly Banister | Recommender | APTMD/IO |
| Carol Kemker | Recommender | APTMD/IO |
| Ken Mitchell | CAA Section 129 Team Leader | APTMD/IO |
| Beverly Spagg | Section 129 Program Branch Chief | APTMD / AETB |
| Todd Russo | Section 129 Program Section Chief | APTMD / AETB / SAETS |
| Jason Dressler | Briefing Presenter/Section 129 Team | APTMD / AETB / SAETS |
| Mark Bloeth | Briefing Note Taker/Section 129 Team | APTMD / AETB / SAETS |
| Valeria Nowell | Section 129 Legal Supervisor | ORC |
| Gretchen Frizzell | Legal Counsel / Section 129 Program | ORC |
| Brandon Cobb | Legal Counsel / Section 129 Program | ORC |
| Carrie Griffith | Environmental Engineer / Section 129 Team | APTMD / AETB / SAETS |
| Megan Arias | Environmental Engineer / Section 129 Team | APTMD / AETB / SAETS |

**Enclosed:**

Briefing Paper
Briefing Powerpoint
Draft MOAs (2)

**Regional Administrator Briefing Sheet**
**SSI Federal Plan Delegation to NC**
**December 12, 2017**

**Requested Action:** Concurrence to move forward with Memoranda of Agreement (MOAs) between EPA Region 4 and the NC Department of Environmental Quality (NCDEQ) and the Western NC Regional Air Quality Agency (WNCRAQA) delegating implementation and enforcement of the Federal Plan for Sewage Sludge Incinerators (SSIs) from EPA to these entities.

**Background:**

- Pursuant to Sections 111(d) and 129(b) of the Clean Air Act, EPA is required to promulgate Emission Guidelines (EG) for existing solid waste incineration units. These EGs are implemented once EPA approves a state plan developed by a state in response to the EGs or when EPA delegates authority to a state or local agency to implement the EPA's federal plan. EPA implements the federal plan in the absence of a state plan or delegation of the federal plan. (Unlike certain NAAQS FIPs, Section 129 Federal Plans have no associated sanctions.)

- EPA encourages states and local agencies to request delegation of the federal plan in the absence of an approved state plan. States may subsequently replace a delegated federal plan with an approved state plan.

- Currently, EPA is the implementing authority for the SSI federal plan in NC (the entire state) since the State has not submitted a plan for EPA review.

**Delegation Status:**

- Both NCDEQ and WNCRAQA have submitted the required documentation to request delegation of the SSI federal plan for SSI units located in their respective jurisdictions. There is no required timeframe for submittal of a delegation request or for EPA to act on it.

**Next Steps:**

- A signed MOA between EPA and NCDEQ and between EPA and WNCRAQA will transfer the authority to implement and enforce the federal plan to these entities.
- Subsequent to MOA signature, EPA Region 4 will publish a notice in the Federal Register which incorporates the delegation of authority into 40 C.F.R. 62.

**Future Actions:**

- NCDEQ intends to eventually submit a state plan for EPA approval, but the timing of the state's submittal is uncertain.

**Contacts:** Program Issues -- Todd Russo (x9194); Legal Issues – Valerie Nowell (x9555)

State of NC and Western NC Air Quality Agencies Requests for Delegation

Briefing for Trey Glenn dated December 12, 2017

Withheld Exemption 5

**MEMORANDUM OF AGREEMENT**
Between
The Western North Carolina Regional Air Quality Agency
and
The United States Environmental Protection Agency, Region 4

Sewage Sludge Incinerators Federal Plan Delegation

## I. GENERAL

A. This Memorandum of Agreement (hereinafter MOA) defines policies, responsibilities, and procedures pursuant to 40 C.F.R. § 60.5045 and 40 C.F.R. Part 62, Subpart LLL (Federal Plan Requirements for Sewage Sludge Incineration Units), by which the Federal Plan Requirements for Sewage Sludge Incineration Units (Federal Plan) will be administered by both the Western North Carolina Regional Air Quality Agency (WNCRAQA) and the U.S. Environmental Protection Agency, Region 4 (EPA). This MOA will be maintained consistent with the Clean Air Act (hereinafter "Act") and its regulations. The provisions of this MOA include the terms, conditions, and the effective date of the delegation of the Federal Plan. This MOA shall serve as the mechanism for the transfer of authority to administer and enforce the Federal Plan to WNCRAQA. The delegation of the Federal Plan to WNCRAQA shall be in effect until there are no sewage sludge incinerator (SSI) facilities within the jurisdiction of the Federal Plan in Buncombe County and the City of Asheville, North Carolina, the EPA publishes an approval of an applicable State Plan submitted by the state of North Carolina, or the EPA withdraws delegation of the Federal Plan according to the provisions of this MOA, whichever occurs first.

B. This MOA is entered into between the WNCRAQA and the EPA. In a letter dated February 7, 2017, the WNCRAQA requested from the EPA delegation of authority for the WNCRAQA to implement and enforce the Federal Plan. The geographic area covered by this MOA is Buncombe County and the City of Asheville. This MOA encompasses responsibilities of all agencies who will administer any part of the Federal Plan covered by this MOA.

C. This MOA does not limit the EPA's authority to fulfill its oversight and enforcement responsibilities under the Act or contravene any provision of 40 C.F.R. Part 62, Subpart LLL or the EPA's other approvals and/or delegations under the Act.

D. If the WNCRAQA does not properly administer or enforce the Federal Plan, the EPA may revoke all or part of this delegation.

E. The delegation of the Federal Plan to WNCRAQA shall become effective upon authorized signature of both the WNCRAQA and the EPA.

F. This MOA may be modified only after mutual consent of both parties for any purpose. Any revisions or modifications to this MOA must be in writing and must be signed by both the WNCRAQA and the EPA.

## II. Policy Statement

A. Each party is responsible for ensuring that the obligations under 40 C.F.R. Part 62, Subpart LLL are met. Both parties agree to maintain a high level of communication, cooperation, and coordination between their respective staffs to assure successful and effective administration of the Federal Plan.

B. The WNCRAQA shall have primary responsibility for:

1. Administering and enforcing the Federal Plan in accordance with 40 C.F.R. Part 62, Subpart LLL, applicable State/local law, objectives of the Act, and this MOA.

2. Making any changes to its administration and enforcement of the delegated Federal Plan necessitated by changes to the regulations comprising the Federal Plan.

3. Sharing information with the EPA regarding administration and enforcement of the program.

C. The EPA shall have responsibility for:

1. Providing effective oversight of the Federal Plan to ensure consistency with 40 C.F.R. Part 62, Subpart LLL and this MOA, and to promote national consistency in implementation of the Act.

2. Providing ongoing technical and other assistance on SSI matters as requested.

3. Informing the WNCRAQA as soon as possible about the EPA's new regulations and any related litigation results or settlements, new Federal standards, implementation and enforcement information and related Federal policies, the effect of these new requirements, and the action needed by the WNCRAQA.

4. Informing the WNCRAQA as soon as possible about the EPA's decision to revoke any or all of the authority granted to the WNCRAQA for delegation purposes.

## III. Delegation of Authorities

A. By means of this MOA, the EPA delegates to the WNCRAQA the authority to implement and enforce the Federal Plan, with the exception of the seven authorities below which, pursuant to 40 C.F.R. § 62.16050, are not delegated to state, local, or tribal agencies. The EPA also retains authority to implement and enforce the Federal Plan.

B. The following authorities are retained by the EPA pursuant to 40 C.F.R. § 62.16050(a)–(g):

1. Approval of alternatives to the emission limits and standards in Tables 2 and 3 of the Federal Plan and operating limits established under 40 C.F.R. § 62.15965 or § 62.15985.

2. Approval of major alternatives to test methods.

3. Approval of major alternatives to monitoring.

4. Approval of major alternatives to recordkeeping and reporting.

5. The requirements in 40 C.F.R § 62.15965.

6. The requirements of 40 C.F.R. § 62.15945(b)(2).

7. Performance test and data reduction waivers under 40 C.F.R. § 60.8(b).

## IV. Program Administration and Enforcement

A. The WNCRAQA agrees to do the following:

1. Enforce the Federal Plan in accordance with the provisions of 40 C.F.R. Part 62, Subpart LLL.

2. Take actions to ensure affected Buncombe County and City of Asheville facilities comply with the "operator training requirements" of the Federal Plan, 40 C.F.R. §§ 62.15920 through 62.15950.

3. Take actions to ensure facility compliance with the establishment of operating parameters for SSI units as stipulated in Table 4 of the Federal Plan

4. Take actions to ensure facility compliance with the reporting requirements for SSI units as stipulated in Table 6 of the Federal Plan.

5. Take actions to ensure final compliance with the compliance schedule of facilities as stipulated in Table 1 and 40 C.F.R. § 62.16025(b) of the Federal Plan.

6. Administer and oversee compliance reporting and recordkeeping requirements.

7. Administer and oversee performance testing and monitoring requirements.

8. Inspect all Sewage Sludge Incinerators in accordance with the current work plan developed pursuant to the Clean Air Act Stationary Source Compliance Monitoring Strategy (CMS), issued October 4, 2016, or any subsequent revisions, and report the minimum data requirements to the EPA via the Integrated Compliance Information System for air (ICIS-AIR) with a special emphasis on updating the facility compliance status.

9. Perform follow-up inspections or review of facility records to insure correction of violations discovered during routine inspections.

10. Address violations that meet the definition of "High Priority Violations," (HPV) in accordance with the EPA's Enforcement Response Policy identified in the "Timely and Appropriate Enforcement Response to High Priority Violations – Revised 2014," issued August 25, 2014, or any subsequent revisions.

11. Address and report violations in ICIS-AIR consistent with the Guidance on Federally-Reportable Violations (FRV) for Clean Air Act Stationary Sources, issued September 23, 2014, or any subsequent revisions.

12. Submit reports to the EPA containing the information described in 40 C.F.R. §§ 60.25(e) and (f) on progress in Federal Plan enforcement on an annual basis commencing with the first full report period after delegation of the Federal Plan.

13. Notify the EPA when the WNCRAQA proposes to transfer all or part of the delegation to any other state and/or local agency and identify a new division of responsibilities among the agencies involved, with such transfer occurring only upon the EPA's approval.

14. If submitting information to the EPA that was obtained under a claim of confidentiality, submit that claim to the EPA when providing that information. Any information obtained from the WNCRAQA and subject to a claim of confidentiality will be treated in accordance with the regulations in 40 C.F.R. Part 2.

B. The EPA agrees to do the following:

1. Expeditiously review and appropriately respond to all information submitted by the WNCRAQA.

2. Publish an approval notice in the Federal Register to incorporate the delegation of authority in 40 C.F.R Part 62, Subpart II.

3. Provide technical support and assistance, and training opportunities for interpretation of national regulations.

4. Make reasonable efforts to communicate to the WNCRAQA when additional legal, technical, and financial resources may be necessary to implement new Clean Air Act Section 111(d) requirements as they become applicable.

5. Cooperate with the WNCRAQA by allowing appropriate flexibility when determining the most effective and expeditious means of implementing the EPA's policy and guidance.

C. Both the EPA and the WNCRAQA agree that:

1. The EPA will assess the WNCRAQA's administration of the Federal Plan on a continuing basis for consistency with 40 C.F.R. Part 62, Subpart LLL, Title V of the Act, New Source Review under the Act, New Source Performance Standards under the Act, and all other requirements of the Act. This assessment will be accomplished by the EPA review of information submitted by the WNCRAQA, permit overview, and compliance and enforcement overview.

   a. On a continuing basis, the EPA will consider written comments that are received from regulated persons, the public, and Federal, State, and local agencies in assessing the WNCRAQA delegation of the Federal Plan. Copies of any comments received from such sources will be provided to the WNCRAQA within ten (10) working days of receipt.

   b. The EPA may review the WNCRAQA program to implement and enforce the Federal Plan by examining relevant files and documents at the WNCRAQA offices. Program reviews will be conducted on an as needed basis and the EPA will give 30 calendar days' notice to the WNCRAQA prior to initiating the review.

c. If the EPA determines that the WNCRAQA is not adequately administering or enforcing the Federal Plan, the EPA will notify the WNCRAQA of the determination as soon as possible and provide the reasons for the determination; the WNCRAQA and the EPA will then determine the process and time frame for correcting the deficiencies in an expeditious manner.

d. The WNCRAQA agrees to allow the EPA access to all files and other requested information deemed necessary by the EPA to ensure management of the delegated Federal Plan is consistent with the EPA's policies, subject to the confidentiality provisions of this MOA.

## V. Reporting and Transmittal of Information

A. The WNCRAQA agrees to submit to the EPA the following information on the affected SSI facilities:

| Description | Frequency |
|---|---|
| Copies of all air related permits for affected facilities. | Upon the EPA's request. |
| Emission reports submitted pursuant to WNCRAQA Code 17.0207. | Annually to the EPA's Emissions Inventory System pursuant to the EPA's Emissions Reporting Rule. *See* 80 FR 8787 (February 19, 2015). Upon request, individual facility files will be submitted to Region 4. |
| All facility full compliance evaluations. | Ongoing basis in ICIS-AIR as established under the current Information Collection Request (ICR) and any subsequent revisions.[1] |
| All legal documents related to enforcement actions. | Ongoing basis in ICIS-AIR as established under the current ICR and any subsequent revisions. |
| WNCRAQA review of stack tests. | All reviews of stack test will be reported to the EPA via ICIS-AIR. |
| Copies of annual compliance certifications and results of the WNCRAQA review of these certificates. | Upon the EPA's request. |
| Any information obtained or used in the administration of the Federal Plan. | Upon the EPA's request. |
| Summary report on progress in plan enforcement. Specifically, submit reports to the EPA containing the information described in 40 C.F.R. §§ 60.25(e) and (f) on progress | Annually (calendar year) basis to the EPA, commencing with the first full report period after delegation of the Federal Plan as described in 40 C.F.R. §§ 60.25(e) and (f). |

[1] EPA's current ICR, titled "Air Stationary Source Compliance and Enforcement Information Reporting," was approved by the Office of Management and Budget on January 31, 2016. This ICR may be found at: https://www.regulations.gov/document?D=EPA-HQ-OECA-2014-0523-0014.

| | |
|---|---|
| in Federal Plan enforcement on an annual basis commencing with the first full report period after delegation of the Federal Plan. | Reports shall be submitted to the Region 4 Air Enforcement and Toxics Branch Chief. |

B. The EPA agrees to submit the following information on the affected SSI facilities to the WNCRAQA:

| **Description** | **Frequency** |
|---|---|
| Copies of any transmittal letters for Section 113 or 114 actions by the EPA, subject to the terms of 40 C.F.R. Part 2. | Within 5 working days of transmittal. |
| Any other relevant information, as requested by the WNCRAQA, needed to implement the delegated Federal Plan, subject to the terms of 40 C.F.R. Part 2. | Upon the WNCRAQA's request. |

## VI. Signatures

For the United States,

United States Environmental Protection Agency, Region 4

By: _____ Date: _____
Onis "Trey" Glenn, III
Region 4 Administrator

For the Western North Carolina Regional Air Quality Agency

By: _____ Date: _____
David A. Brigman
Director

# MEMORANDUM OF AGREEMENT

Between
The North Carolina Department of Environmental Quality Division of Air Quality
and
The United States Environmental Protection Agency, Region 4

Sewage Sludge Incinerators Federal Plan Delegation

## I. GENERAL

A. This Memorandum of Agreement (hereinafter MOA) defines policies, responsibilities, and procedures pursuant to 40 C.F.R. § 60.5045 and 40 C.F.R. Part 62, Subpart LLL (Federal Plan Requirements for Sewage Sludge Incineration Units), by which the Federal Plan Requirements for Sewage Sludge Incineration Units (Federal Plan) will be administered by both the North Carolina Department of Environmental Quality, Division of Air Quality (NCDAQ) and the U.S. Environmental Protection Agency, Region 4 (EPA). This MOA will be maintained consistent with the Clean Air Act (hereinafter "Act") and its regulations. The provisions of this MOA include the terms, conditions, and the effective date of the delegation of the Federal Plan. This MOA shall serve as the mechanism for the transfer of authority to administer and enforce the Federal Plan to NCDAQ. The delegation of the Federal Plan to NCDAQ shall be in effect until there are no sewage sludge incinerator (SSI) facilities within the jurisdiction of the Federal Plan in North Carolina, the EPA publishes an approval of an applicable State Plan submitted by the state of North Carolina, or the EPA withdraws delegation of the Federal Plan according to the provisions of this MOA, whichever occurs first.

B. This MOA is entered into between the NCDAQ and the EPA. In a letter dated December 9, 2016, the NCDAQ requested from the EPA delegation of authority for the NCDAQ to implement and enforce the Federal Plan. The geographic area covered by this MOA is the State of North Carolina, except those areas in which a local agency has taken delegation to implement and enforce the Federal Plan. This MOA encompasses responsibilities of all agencies who will administer any part of the Federal Plan covered by this MOA.

C. This MOA does not limit the EPA's authority to fulfill its oversight and enforcement responsibilities under the Act or contravene any provision of 40 C.F.R. Part 62, Subpart LLL or the EPA's other approvals and/or delegations under the Act.

D. If the NCDAQ does not properly administer or enforce the Federal Plan, the EPA may revoke all or part of this delegation.

E. The delegation of the Federal Plan to NCDAQ shall become effective upon authorized signature of both the NCDAQ and the EPA.

F. This MOA may be modified only after mutual consent of both parties for any purpose. Any revisions or modifications to this MOA must be in writing and must be signed by both the NCDAQ and the EPA.

## II. Policy Statement

A. Each party is responsible for ensuring that the obligations under 40 C.F.R. Part 62, Subpart LLL are met. Both parties agree to maintain a high level of communication, cooperation, and coordination between their respective staffs to assure successful and effective administration of the Federal Plan.

B. The NCDAQ shall have primary responsibility for:

1. Administering and enforcing the Federal Plan in accordance with 40 C.F.R. Part 62, Subpart LLL, applicable State/local law, objectives of the Act, and this MOA.

2. Making any changes to its administration and enforcement of the delegated Federal Plan necessitated by changes to the regulations comprising the Federal Plan.

3. Sharing information with the EPA regarding administration and enforcement of the program.

C. The EPA shall have responsibility for:

1. Providing effective oversight of the Federal Plan to ensure consistency with 40 C.F.R. Part 62, Subpart LLL and this MOA, and to promote national consistency in implementation of the Act.

2. Providing ongoing technical and other assistance on SSI matters as requested.

3. Informing the NCDAQ as soon as possible about the EPA's new regulations and any related litigation results or settlements, new Federal standards, implementation and enforcement information and related Federal policies, the effect of these new requirements, and the action needed by the NCDAQ.

4. Informing the NCDAQ as soon as possible about the EPA's decision to revoke any or all of the authority granted to the NCDAQ for delegation purposes.

## III. Delegation of Authorities

A. By means of this MOA, the EPA delegates to the NCDAQ the authority to implement and enforce the Federal Plan, with the exception of the seven authorities below which, pursuant to 40 C.F.R. § 62.16050, are not delegated to state, local, or tribal agencies. The EPA also retains authority to implement and enforce the Federal Plan.

B. The following authorities are retained by the EPA pursuant to 40 C.F.R. § 62.16050(a)–(g):

1. Approval of alternatives to the emission limits and standards in Tables 2 and 3 of the Federal Plan and operating limits established under 40 C.F.R. § 62.15965 or § 62.15985.

2. Approval of major alternatives to test methods.

3. Approval of major alternatives to monitoring.

4. Approval of major alternatives to recordkeeping and reporting.

5. The requirements in 40 C.F.R § 62.15965.

6. The requirements of 40 C.F.R. § 62.15945(b)(2).

7. Performance test and data reduction waivers under 40 C.F.R. § 60.8(b).

## IV. Program Administration and Enforcement

A. The NCDAQ agrees to do the following:

1. Enforce the Federal Plan in accordance with the provisions of 40 C.F.R. Part 62, Subpart LLL.

2. Take actions to ensure affected facilities comply with the "operator training requirements" of the Federal Plan, 40 C.F.R. §§ 62.15920 through 62.15950.

3. Take actions to ensure facility compliance with the establishment of operating parameters for SSI units as stipulated in Table 4 of the Federal Plan.

4. Take actions to ensure facility compliance with the reporting requirements for SSI units as stipulated in Table 6 of the Federal Plan.

5. Take actions to ensure final compliance with the compliance schedule of facilities as stipulated in Table 1 and 40 C.F.R. § 62.16025(b) of the Federal Plan.

6. Administer and oversee compliance reporting and recordkeeping requirements.

7. Administer and oversee performance testing and monitoring requirements.

8. Inspect all Sewage Sludge Incinerators in accordance with the current work plan developed pursuant to the Clean Air Act Stationary Source Compliance Monitoring Strategy (CMS), issued October 4, 2016, or any subsequent revisions, and report the minimum data requirements to the EPA via the Integrated Compliance Information System for air (ICIS-AIR) with a special emphasis on updating the facility compliance status.

9. Perform follow-up inspections or review of facility records to insure correction of violations discovered during routine inspections.

10. Address violations that meet the definition of "High Priority Violations," (HPV) in accordance with the EPA's Enforcement Response Policy identified in the "Timely and Appropriate Enforcement Response to High Priority Violations – Revised 2014," issued August 25, 2014, or any subsequent revisions.

11. Address and report violations in ICIS-AIR consistent with the Guidance on Federally-Reportable Violations (FRV) for Clean Air Act Stationary Sources, issued, September 23, 2014, or any subsequent revisions.

12. Submit reports to the EPA containing the information described in 40 C.F.R. §§ 60.25(e) and (f) on progress in Federal Plan enforcement on an annual basis commencing with the first full report period after delegation of the Federal Plan.

13. Notify the EPA when the NCDAQ proposes to transfer all or part of the delegation to any other state and/or local agency and identify a new division of responsibilities among the agencies involved, with such transfer occurring only upon the EPA's approval.

14. If submitting information to the EPA that was obtained under a claim of confidentiality, submit that claim to the EPA when providing that information. Any information obtained from the NCDAQ and subject to a claim of confidentiality will be treated in accordance with the regulations in 40 C.F.R. Part 2.

B. The EPA agrees to do the following:

1. Expeditiously review and appropriately respond to all information submitted by the NCDAQ.

2. Publish an approval notice in the Federal Register to incorporate the delegation of authority in 40 C.F.R Part 62, Subpart II.

3. Provide technical support and assistance, and training opportunities for interpretation of national regulations.

4. Make reasonable efforts to communicate to the NCDAQ when additional legal, technical, and financial resources may be necessary to implement new Clean Air Act Section 111(d) requirements as they become applicable.

5. Cooperate with the NCDAQ by allowing appropriate flexibility when determining the most effective and expeditious means of implementing the EPA's policy and guidance.

C. Both the EPA and the NCDAQ agree that:

1. The EPA will assess the NCDAQ's administration of the Federal Plan on a continuing basis for consistency with 40 C.F.R. Part 62, Subpart LLL, Title V of the Act, New Source Review under the Act, New Source Performance Standards under the Act, and all other requirements of the Act. This assessment will be accomplished by the EPA review of information submitted by the NCDAQ, permit overview, and compliance and enforcement overview.

a. On a continuing basis, the EPA will consider written comments that are received from regulated persons, the public, and Federal, State, and local agencies in assessing the NCDAQ delegation of the Federal Plan. Copies of any comments received from such sources will be provided to the NCDAQ within ten (10) working days of receipt.

b. The EPA may review the NCDAQ program to implement and enforce the Federal Plan by examining relevant files and documents at the NCDAQ offices. Program reviews will be conducted on an as needed basis and the EPA will give 30 calendar days' notice to the NCDAQ prior to initiating the review.

c. If the EPA determines that the NCDAQ is not adequately administering or enforcing the Federal Plan, the EPA will notify the NCDAQ of the

determination as soon as possible and provide the reasons for the determination; the NCDAQ and the EPA will then determine the process and time frame for correcting the deficiencies in an expeditious manner.

d. The NCDAQ agrees to allow the EPA access to all files and other requested information deemed necessary by the EPA to ensure management of the delegated Federal Plan is consistent with the EPA's policies, subject to the confidentiality provisions of this MOA.

## V. Reporting and Transmittal of Information

A. The NCDAQ agrees to submit to the EPA the following information on the affected SSI facilities:

| Description | Frequency |
|---|---|
| Copies of all air related permits for affected facilities. | Upon the EPA's request. |
| Emission reports submitted pursuant to 15A NCAC 02Q .0207. | Annually to the EPA's Emissions Inventory System pursuant to the EPA's Emissions Reporting Rule. *See* 80 FR 8787 (February 19, 2015). Upon request, individual facility files will be submitted to Region 4. |
| All facility full compliance evaluations. | Ongoing basis in ICIS-AIR as established under the current Information Collection Request (ICR) and any subsequent revisions.[1] |
| All legal documents related to enforcement actions. | Ongoing basis in ICIS-AIR as established under the current ICR and any subsequent revisions. |
| NCDAQ review of stack tests. | All reviews of stack test will be reported to the EPA via ICIS-AIR. |
| Copies of annual compliance certifications and results of the NCDAQ review of these certificates. | Upon the EPA's request. |
| Any information obtained or used in the administration of the Federal Plan. | Upon the EPA's request. |
| Summary report on progress in plan enforcement. Specifically, submit reports to the EPA containing the information described in 40 C.F.R. §§ 60.25(e) and (f) on progress in Federal Plan enforcement on an annual basis commencing with the first full report period after delegation of the Federal Plan. | Annually (calendar year) basis to the EPA, commencing with the first full report period after delegation of the Federal Plan as described in 40 C.F.R. §§ 60.25(e) and (f). Reports shall be submitted to the Region 4 Air Enforcement and Toxics Branch Chief. |

[1] EPA's current ICR, titled "Air Stationary Source Compliance and Enforcement Information Reporting," was approved by the Office of Management and Budget on January 3, , 2016. This ICR may be found at: https://www.regulations.gov/document?D=EPA-HQ-OECA-2014-0523-0014.

B. The EPA agrees to submit the following information on the affected SSI facilities to the NCDAQ:

| **Description** | **Frequency** |
|---|---|
| Copies of any transmittal letters for Section 113 or 114 actions by the EPA, subject to the terms of 40 C.F.R. Part 2. | Within 5 working days of transmittal. |
| Any other relevant information, as requested by the NCDAQ, needed to implement the delegated Federal Plan, subject to the terms of 40 C.F.R. Part 2. | Upon the NCDAQ's request. |

## VI. Signatures

For the United States,

United States Environmental Protection Agency, Region 4

By: _____ Date: _____

Onis "Trey" Glenn III
Region 4 Administrator

For the North Carolina Department of Environmental Quality Division of Air Quality

By: _____ Date: _____

Michael Abraczinskas
Director

## Official Meeting/Briefing Request for the RA or DRA

Has your Division Director been briefed on this subject, and is he/she aware of your request to set up this meeting? Yes __x__ No ____

Date of Request: November 20, 2017

Requestor: Dawn Taylor
Phone No.: 404-562-8575

Name of Meeting: Regional Science Program/State Engagement Pilot

Purpose of Meeting: To provide an update on the Regional Science Program and State Engagement Pilot and determine path forward for state engagement in Region 4.

| Is the Meeting Date Sensitive? Yes X No ☐ | Deadline Date: 12/15/17 | |
|---|---|---|
| Meeting Date/Time Preference #1 | Date:12/12/17 | Time: anytime between 9 am and 3:30 pm |
| Meeting Date/Time Preference #2 | Date: 12/14/17 | Time: anytime between 9 am and 3:30 pm |
| Meeting Date/Time Preference #3 | Date: 12/15/17 | Time: anytime between 9 am and 3:30 pm |

Duration of Meeting: 1 hour
(for substantive meetings, schedule at least 1 hour)
Conference Number Required: Yes ___x__ NO____
IT Equipment Required: Yes ____ NO ____

**Background**:
Region 4 working with the Office of Research and Development's Office of Science Policy has developed a state engagement pilot for the 2018 Regional Applied Science programs. A decision is needed regarding the process the Region will use to inform the states and select participants. See attached briefing sheet for additional information.
**Expectations from Meeting** (Please be specific: Are you looking for a decision, guidance?)
If you are looking for a decision, give a date by when this decision must be made. _12/15/17___
Decision regarding process for reaching out on state engagement.

| No. of Participants: **(It is very important that the RA's office is aware of how many and whom...no surprises; i.e., we were told 2 staff members and 10 show up)** | Names of Required Invitees: Anne Heard<br>Jeaneanne Gettle<br>Dawn Taylor | Optional Invitees: |
|---|---|---|

Requested Meeting Location: RA conf room
***Please send briefing papers, slides, background documents etc., to **R4_ORA_Briefing_Materials@epa.gov**. You will have ***2 DAYS (48 Hours)***, to submit this information prior to the meeting. Also, please send information to RA/DRA Special Assistants and Executive Assistants. Please save your presentation on the "F" Drive, under "My Documents." You will be able to login on the Conference Room laptop as you would your own computer and pull up your presentation. ***Any critical issues that need to be elevated, please email the Special Assistants.***

# December 18, 2017 - December 24, 2017

December 2017

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January 2018

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## Monday, December 18

**12:00am Out of the Office** →

## Tuesday, December 19

← **Out of the Office** →

## Wednesday, December 20

← **12:00am Out of the Office**

## Thursday, December 21

## Friday, December 22

## Saturday, December 23

## Sunday, December 24

# December 25, 2017 - December 31, 2017

December 2017

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January 2018

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| 28 | 29 | 30 | 31 | | | |

## Monday, December 25

**Christmas Day**

## Tuesday, December 26

## Wednesday, December 27

## Thursday, December 28

[redacted]

- **1:00pm - 1:30pm Additional Information re: Mobile App Conference Call** (Information only) - Hudson, Wanda
- **1:00pm - 1:30pm Check in with Alan and Carol** (Call in number (404-562-9997;[redacted] - Ashbee, Blake
- **1:00pm - 1:30pm Mobile App Request** (Confrence Call --- 1(855) 564-1700, Conference Ext: 110 4379; Participant Code: [redacted] Fine, Steven

## Friday, December 29

## Saturday, December 30

## Sunday, December 31