



2021 Regional Response Team (RRT) 6 Spring Meeting Agenda

[Register Here](#)

Co-Chairs: Craig Carroll, USEPA Michael Sams, USCG	Coordinators: Bray Fisher, USEPA Todd Peterson, USCG
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[Adobe Connect](#)
Meeting Call-in Number: (210) 469-3886 -- **Passcode:** 143 885 939#

General Meeting **Thursday, May 6, 2021**

0800 – 0815	Welcome, Introduction, & Review of Minutes	Co-Chairs & Coordinators
0815 – 0845	Review RRT-6 Priority List	Michael Sams, USCG
0845 – 0900	Mercury Response Initiative Update	Paige Delgado, USEPA
0900 – 0945	Hurricane Season Preps	Various
0945 – 1005	Rapid Field Test to Evaluate Slick Dispersibility	Victoria Broje, Shell

1005– 1015 *10-minute break*

1015 – 1045	RRT-6 Co-Chair Report Outs: <ul style="list-style-type: none"> • U.S. Environmental Protection Agency (USEPA) • U.S. Coast Guard (USCG) 	Craig Carroll, USEPA Michael Sams, USCG
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1045 – 1215	State Agency Report Outs: <ul style="list-style-type: none"> • Arkansas: <ul style="list-style-type: none"> ○ Arkansas Department of Energy and Environment (ADEE) ○ Arkansas Division of Emergency Management (ADEM) • Louisiana: <ul style="list-style-type: none"> ○ Louisiana Department of Environmental Quality (LDEQ) ○ Louisiana Oil Spill Coordinator’s Office (LOSCO) ○ Louisiana State Police (LSP) • Oklahoma: <ul style="list-style-type: none"> ○ Oklahoma Department of Environmental Quality (ODEQ) • Texas: <ul style="list-style-type: none"> ○ Texas Railroad Commission (TRRC) ○ Texas General Land Office (TGLO) ○ Texas Commission on Environmental Quality (TCEQ) • New Mexico: <ul style="list-style-type: none"> ○ New Mexico Homeland Security and Emergency Management (NMHSEM) 	
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1215 – 1245 *Lunch*



2021 Regional Response Team (RRT) 6 Spring Meeting Agenda

General Meeting Continued

1245 – 1415 Federal Agency Report Outs:

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Region 6 Tribes 2. Dept. of Homeland Security (DHS): <ol style="list-style-type: none"> a. Federal Emergency Management Agency (FEMA) b. Cybersecurity and Infrastructure Security Agency (CISA) 3. Dept. of Commerce (DOC) 4. Dept. of the Interior (DOI) 5. Dept. of Transportation (DOT) 6. Dept. of Health and Human Services (DHHS) | <ol style="list-style-type: none"> 7. Dept. of Labor (DOL) 8. General Services Administration (GSA) 9. Dept. of Agriculture (USDA) 10. Dept. of Defense (DoD) 11. Nuclear Regulatory Commission (NRC) 12. Dept. of Energy (DOE) 13. Dept. of Justice (DOJ) 14. Dept. of State (DOS) |
|---|---|

1415 – 1425

10-minute break

1425 – 1525 USCG FOSC Reports (unit reps from each of the below will present ~10 min):

1. Sector Corpus Christi
2. Sector Houston-Galveston
3. MSU Port Arthur
4. MSU Houma
5. Sector New Orleans
6. Sector Lower Mississippi River

1525 – 1540

Open Forum

All

1540 – 1545

Closing Remarks

Co-Chairs

1545

Adjourn

Dates for next RRT Meetings

Fall 2021	Addison, TX Or 1-day virtual	Confirmed	03 – 04 Nov 2021
Spring 2022	Addison, TX	Confirmed	04 – 05 May 2022
Fall 2022	Addison, TX	Confirmed	02 – 03 Nov 2022
Spring 2023 <i>Joint Meeting with RRT-4</i>	Baton Rouge, LA	Proposed	Early May 2023



Priority List -- In Progress or Continuing

	Priority	Assigned	Status
1.	Monthly EC Teleconferences	Executive Committee	Ongoing
2.	Conduct Incident-Specific RRT (ISRRT) Teleconferences <i>(Document Results)</i>	RRT Function	Ongoing
3.	Develop Region 6 RRT Evaluation Job-Aids for Alternative Response Technologies	Preparedness Committee	On Hold
4.	Improved Coordination of Natural Resource Damage Assessment (NRDA) with Response	Preparedness Committee	On Hold
5.	Mercury Response Initiative	Executive Committee	In Progress
6.	Develop Non-Synthetic Loose Sorbent Guidance <i>(Determine if the RRT has the authority to require FOSCs to seek RRT Concurrence)</i>	Executive Committee	In Progress
7.	Develop Air Monitoring Best Practices	Executive Committee	In Progress
8.	Develop Fish and Wildlife and Sensitive Environments Plan (FWSEP)	Executive Committee	In Progress
9.	Develop Offshore Worst Case Discharge Appendix	Executive Committee	In Progress



2020/2021 Regional Response Team (RRT) 6 – Mercury Initiative
EPA Region 6 On-Scene Coordinator (OSC) Paige Delgado
Delgado.paige@epa.gov



Mercury Initiative Goals

(presented at Spring 2020 RRT Meeting)

1. Receive Remaining/Additional Needs Assessment Information from State Partners
2. Identify State-Specific “Gaps” for Mercury Response/Spill Prevention
 - a. Response Budget
 - b. Trained Personnel
 - c. Mercury Testing/Monitoring Equipment
 - d. Mercury Disposal Options (HHW, Fire Depts, etc.)
 - e. Outreach Programs
3. Identify Best Practices in State Programs to share
4. Develop Collaborative State-Specific Plan to address “Gaps” for Mercury Response/Spill Prevention
 - a. EPA in coordination with State Resources
 - b. Establish Schedule for Plan Implementation
5. Initiate State-Specific Mercury Response/Spill Prevention Plans



Region 6 State Agency Reps



- New Mexico Department of Health (NMDOH)
 - Srikanth Paladugu
- Oklahoma Department of Environmental Quality (ODEQ)
 - Jon Reid & Steven Gunnels
- Arkansas Department of Energy & Environment (ADEE)
 - Heather Saco (retiring) & Stephen Ratley (replacement)
- Louisiana Department of Environmental Quality (LDEQ)
 - Jerry Lang & Daniel Lambert
- Texas Commission on Environmental Quality (TCEQ)
 - Anthony Buck & Chris Wiatrek



Major Accomplishments/Milestones

1. Obtained Participation from all R6 States (April 2020)
2. Monthly Meetings with R6 State Partners (June – Dec. 2020) (now Bi-Monthly)
 - a. Recent Responses/Technical Discussion
 - b. State and Federal presentations on Best Practices with a Focus on:
 - Response Budget
 - Trained Personnel
 - Mercury Testing/Monitoring Equipment
 - Mercury Disposal Options (HHW, Fire Depts, etc.)
 - Outreach programs
3. Developed National Elemental Mercury Guidance Training
 - a. Presented during 6 sessions to State/Federal Partners
 - b. Monthly 60-90 minute training (~25 attendees)
4. Developed/Finalized State-Specific Mercury Response Plans
5. Website on response.epa.gov



Monthly Training Teams Meetings

1. Introduction
2. Human Health Effects
3. Initiation of Response (8/18)
4. OSC Initial Response
5. Initial Assessment and Screening/
Sampling of Air with a Handheld MVA
(12/8)
6. Additional Media Screening, Sampling,
and Analytical Methods (1/11)
7. Exposure Limits (8/18)
8. Relocation of Residents (3/16)
9. Cleanup Process (9/22)
10. Disposal (10/27)
11. Restoration, Replacement, and
Reimbursement (3/16)
12. Reoccupation (3/16)
13. Responder Health and Safety (8/18)

~25 Total Attendees (~10 State Reps)



State Specific Mercury Response Plans

1. Response Plans for each State completed, reviewed, and finalized (3/24/21)
2. Checklist/Printable “Grab and Go” Format (6 pages + Attachments)
3. Each Plan Includes:
 - a. Primary Response Agency Contacts
 - b. Notification/Call Down List for all agencies with jurisdictional authority
 - c. Mercury Response Resources and what entity has responsibility for them
 - Personnel/Equipment/PPE
 - State Agency/Local HAZMAT/Contractor
 - d. Mercury-Specific Screening/Action Levels
 - e. Trained/Authorized Mercury Assessment/Clean Up Contractors
 - f. Mercury Assessment Equipment Rental Vendors
 - g. Trained/Authorized Mercury Transportation Contractors
 - h. Licensed/Permitted Mercury Disposal Facilities
 - i. State/Local Charitable Organizations
 - j. Applicable References/Attachments (Guidance, Resource Documents, etc.)



State Specific Mercury Response Plan Example



State/Agency Mercury Response Plan

Activity Information

Activity Type (Check all that apply)	<input checked="" type="checkbox"/>	Mercury Response	<input checked="" type="checkbox"/>	Monitoring	<input checked="" type="checkbox"/>	Clean-Up Action
Plan Start/End Date(s)	1/15/2021					
Plan Prepared By:	Jon Reid, Environmental Program Specialist					

Responding Agency Information

Agency Name:	Oklahoma Department of Environmental Quality (ODEQ)					
Address:	707 N. Robinson Avenue					
City:	Oklahoma City					
State:	Oklahoma			ZIP:	73102	
Primary Contact:	Jon Reid, Environmental Program Specialist					
Telephone:	Cell: 405-250-9898 Desk: 405-702-5121					
Email:	jonathan.reid@deq.ok.gov					
Alternate Contact:	Steven Gunnels, Superfund Program Manager					
Telephone:	405-702-5173					
Email:	steven.gunnels@deq.ok.gov					

Notes/Comments:

Response Authority		Contact Information
Authority to Respond/Clean Up	What Agency in your State has the authority to respond to/clean up mercury spills?	405-702-0100
	Oklahoma Department of Environmental Quality (ODEQ) Statutory citation granting that authority :	
Alternate Agency with Authority	Is there an alternate Agency in your State with authority to respond to/clean up mercury spills?	405-271-5600
	Oklahoma State Department of Health (OSDH) Alternate Agency and Statute providing authority to respond to/clean up mercury spills:	
Notes/Comments: Outdoor air quality regulated by ODEQ. Indoor air quality regulated by OSDH.		

Local/State/Federal Agency Notifications (If contacted provide date/time of notification, contact name, and contact information)		Contact Information
Investigating agency:	Oklahoma Department of Environmental Quality (ODEQ)	405-702-0100
Local Hazmat Team:	Local Fire Department as Needed	
Local Health Department: (Provide Contact Info for both City and County if contacted)		
State Environmental Dept.	Oklahoma Department of Environmental Quality (ODEQ)	405-702-0100
State Health Dept.	Oklahoma State Department of Health: Don Smalling	405-271-5600
County Emergency Management:	Oklahoma Department of Emergency Management	405-521-2481
EPA:	EPA Region 6 EMB	1-800-887-6063
National Response Center:	Contact No. 1-800-424-8802 Date/Time Notified: NRC No:	1-800-424-8802
Was Poison Control notified by the caller or mentioned in the initial State or NRC notification	Oklahoma Poison Control Center http://www.aapcc.org/centers/ http://oklahomapoison.org/	1-800-222-1222 405-271-5062 Administrative Line
Notes/Comments:		

Mercury Response Resources		YES	NO	Responsible Agency
Personnel	<i>Trained/Authorized Agency/contractor names and contact information are provided in this plan</i>			
	Trained/Authorized State/Local Agency personnel will conduct the mercury assessment	X		ODEQ
	Trained/Authorized contractor personnel will conduct the mercury assessment (see contractor list below)	X		RC
	Trained/Authorized State/Local Agency personnel will conduct the mercury clean up	X		ODEQ
	Trained/Authorized contractor personnel will conduct the mercury clean up (see contractor list below)	X		RC
	<i>Trained/Authorized Agency/contractor/vendor names and contact information are provided in this plan</i>	X		
Mercury Monitoring Equipment	State/Local Agency will provide mercury monitoring equipment	X		ODEQ
	State/Local Agency contractor will provide mercury monitoring equipment	X		RC
	State/Local Agency will rent mercury monitoring equipment through an outside vendor		X	RC
State/Local Agency Provided PPE/ Appropriate Response Resources	Personal Protective Equipment (PPE):			
	chemical protective clothing,	X		ODEQ
	booties,	X		ODEQ
	gloves,	X		ODEQ
	air purifying respirator (APR),	X		ODEQ
	Mercury vapor cartridges,	X		ODEQ
	and self-contained breathing apparatus (SCBA) air packs		X	RC
	Monitoring Equipment:			
	mercury vapor analyzer,	X		ODEQ
	multi gas indicator,	X		ODEQ
	radiation meter.	X		ODEQ
	Cleanup Equipment (Partial List):			
	flashlight,	X		ODEQ
	tents,		X	RC
	chairs,	X		ODEQ
	tables,	X		ODEQ
	heaters,		X	RC
	thermometers,		X	RC
	thermo-gun temperature meter,		X	RC
	exhaust fans with filters,		X	RC
	mercury vacuum,	X		ODEQ
	zinc or sulfur cleanup compounds.	X		ODEQ
	Data Management Tools:			
	spreadsheet for personal items,		X	RC
	laptop,	X		ODEQ
	camera,	X		ODEQ
	video camera	X		ODEQ
guidance and mercury-specific documents.	X		ODEQ	
Obtain Signed Access Agreement	Obtained signed access agreement?	X		ODEQ
<p>Notes/Comments: Equipment may only be used by State personnel. Initial spill response will be managed by the responding local fire department who should have the appropriate PPE. Local fire department will supply Multi-gas indicator and radiation meter. Cleanup equipment is provided by **</p>				

Mercury-Specific Screening/Action Levels (if YES list State Action Level following statement after:)		Action Level					
		ng/m ³ (×1000)		µg/m ³ (×1)		mg/m ³ (÷1000)	
<i>Mercury-Specific Screening/Action Levels designated by: (State/Local Agency)</i>							
State/Local/ Agency-Specific	State-specific mercury screening level for residential properties:	1000		1		0.001	
	State-specific mercury screening level for school properties:	1000	3000	1	3	0.001	0.003
	State-specific mercury screening level for commercial/industrial properties including hospitals:	3000		3		0.003	
	State-specific mercury screening level for use of family vehicles and for residents belongings to remain in owners possession:	3000	6000	3	6	0.003	0.006
	State-specific mercury action/clean up level for residential properties:	1000		1		0.001	
	State-specific mercury action/clean up level for school properties:	1000	3000	1	3	0.001	0.003
	State-specific mercury action/clean up level for industrial properties:	3000		3		0.003	
<i>Mercury-Specific Screening/Action Levels designated by: EPA/ATSDR Suggested Action Level for Worker Safety</i>							
Federal Agency Specific	Federal mercury screening level for residential properties:	1000		1		0.001	
	Federal mercury screening level for school properties:	1000	3000	1	3	0.001	0.003
	Federal mercury screening level for commercial/industrial properties including hospitals:	3000		3		0.003	
	Federal mercury screening level for use of family vehicles and for residents belongings to remain in owners possession:	3000	6000	3	6	0.003	0.006
	Federal mercury action/clean up level for residential properties:	1000		1		0.001	
	Federal mercury action/clean up level for school properties:	1000	3000	1	3	0.001	0.003
	Federal mercury action/clean up level for industrial properties:	3000		3		0.003	
Notes/Comments: ATSDR Suggested Action Levels							

Trained/Authorized State/Local Mercury Assessment/Clean Up Contractors		Contact Information
Name and Contact info for Contractors	Environmental Management, Inc. 5200 NE Highway 33, Guthrie, Oklahoma 73044	405-282-8510
	Basin Environmental and Safety Technologies HQ 1117 NW 24th Street Suite 108, Oklahoma City, Oklahoma 73106	405-232-5737
	Boomer Environmental Services 2800 SE 29th St, Oklahoma City, Oklahoma 73129	405-601-1187
Notes/Comments: *No contractor hired out to date*		

Mercury Assessment Equipment Rental Vendors		Contact Information
List of Mercury Monitoring Equipment Rental Vendors	Northside Sales	1-800-467-9005
	Ohio Lumex 30350 Bruce Industrial Pkwy, Solon, OH 44139	440-264-2500 888-876-2611
	Pine Environmental 200, 440 Wrangler Dr, Coppell, Texas 75019	469-586-5918
Notes/Comments: ODEQ is not hiring or renting equipment, only giving recommendations		

Trained/Authorized State/Local Mercury Transportation Contractors (Note: If Mercury waste is classified as a D009 Characteristic RCRA Hazardous Waste a DOT Hazardous Materials Transporter is required for transport)		Contact Information
Waste Transporters	Lighting Resources 101 East Bowie Street, Fort Worth, Texas 76110	817-921-1440
	Environmental Management, Inc. 5200 NE Highway 33, Guthrie, Oklahoma 73044	405-282-8510
	Stericycle 8800 SW 8th St, Oklahoma City, Oklahoma 73128	405-838-1007
Notes/Comments: Clean Up Contractor and/or disposal facility will typically determine transportation vendor.		

State/Local Licensed/Permitted Mercury Disposal Facilities		Accepted Materials				
		CFLs	ICM	FT	MT	MCS
Disposal Facilities	Lighting Resources 101 East Bowie Street, Fort Worth, Texas 76110 817-921-1440	X	X	X	X	
	Oklahoma City Household Hazardous Waste Facility 8730 SE 15th St, Oklahoma City, Oklahoma 73110 405-682-7038	X	X	X	X	
	Midwest City Household Hazardous Waste Facility 8730 SE 15th St, Oklahoma City, Oklahoma 73110 405-739-1049	X	X	X	X	
	City of Edmond Curbside HHW Collection Program Edmond, OK 73013 800-449-7587 *For residents of Edmond only*	X	X	X	X	
	City of Norman Household Hazardous Waste Program Norman, OK 73069 405-292-9731 *For residents of Norman only*	X	X	X	X	
Recycling Facilities	Waste Management Recycle America Oklahoma City 5519 NW 4th St Oklahoma City, OK 73127 405-949-1149	X		X		
	Batteries Plus Bulbs - Various Locations	X		X		
	Lowe's - Various Locations	X				
	Home Depot - Various Locations	X				
Key:	CFLs: Compact Fluorescent Lightbulbs ICM: Items Containing Mercury FT: Fluorescent Tubes MT: Mercury Thermostats MCS: Mercury Contaminated Soils					
Notes/Comments:						

response.epa.gov/RRT6MercuryInitiative

RRT6 Mercury Initiative Website

- Open to State/Local/Federal Partners to collaborate
- Links to mercury resources
 - Maps
 - Disposal facilities
 - State/Federal websites
- State/EPA – specific guidance
- Outreach/Factsheets

EPA United States Environmental Protection Agency

Profile | Notices | Images | Documents | Contacts | Links | Account

RRT6 MERCURY INITIATIVE

DALLAS, TX - REGION VI

Hg 80 200.59

Mercury

KML | RSS | area map | bookmark

Sito Contact:
Paige Delgado
On-Scene Coordinator
delgado.paige@epa.gov

All Region 6 States
Dallas, TX 75270
response.epa.gov/RRT6MercuryInitiative

Edit Site Info | Edit Contaminants

The RRT6 Mercury Initiative is a collaborative effort between EPA/USCG and Arkansas, Louisiana, New Mexico, Oklahoma, and Texas State and Local Agencies with a focus on improving the efficiency of Mercury Spill Response and Mercury Spill Prevention. The Initiative focuses on:

- Protocols for Mercury Detection, Response, and Clean-up
- Training
- Equipment – Monitoring, Sampling, PPF
- Disposal Resources for Residents/Communities
- Gaps in Mercury response capabilities
- Outreach Programs to educate on the dangers of mercury and promote safe handling and disposal
- Plans/schedule to increase residential mercury clean-up capabilities

Delete Site

RESOURCES

Notices
None for this site

Images
None for this site

Documents
State Specific Mercury Respons...
Site Specific Mercury Response
Interactive Google Map - Therm...
Editable Fill in the Blank - M...
List All...

Contacts
On-Scene Coordinator
delgado.paige@epa.gov
RRT Co-Chair
carroll.craig@epa.gov
Section Chief
smallc.bryant@epa.gov
List All

Links
Don't Mess with Mercury – A re...
EPA Region 7 to Distribute "Me...
DVD of MERCURY AN EDUCATOR'S T...
ODFO Mercury Program
List All...

15

Mercury Initiative Maintenance Phase

1. Complete Requested Mercury Response Training to State/Local/Federal Partners
 - TX Request for Day of Mercury Training
 - AR Request for Mercury Awareness Training
 - Provide additional training (on request)
2. Regular collaboration with RRT6 Mercury Initiative State Representatives with a focus on State-Specific “Gaps” for Mercury Response/Spill Prevention:
 - Recent Responses
 - Response Budget
 - Trained Personnel
 - Mercury Testing/Monitoring Equipment
 - Mercury Disposal Options (HHW, Fire Depts, etc.)
 - Outreach programs
3. Provide Technical Support for State/Local/Federal Responders on Mercury Prevention/Response
4. Annual Mercury Response Plan revision



Comments/Questions?





Rapid Field Test to Evaluate Slick Dispersibility

Dr. Victoria Broje

Sr. Emergency Response Scientist
Shell Exploration & Production Company

Dr. Gina Coelho
Ann Slaughter

Sponson Group



Dr. Michel Boufadel

New Jersey Institute of
Technology

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Background

- Dispersants use is an effective way to respond to large offshore oil spills
- Dispersants have a limited “window of opportunity” for effective use, hence expediting regulatory approval for field application is a critical task during initial response
- Dispersibility of the slick is one of the questions that needs to be answered (and provided evidence for) as quickly as possible
- Oil slick dispersibility could be evaluated by:
 - Modeling
 - Pilot spray from a plane or a boat
 - Small sample test on a response boat

Existing Field Test Kits

- Field Dispersant Effectiveness Test (FDET) – EPA – USA (1987)
- Field Test (FET) – Norway (1999)
- National Plan Oil Spill Dispersant Effectiveness Field Test Kit (Nat-DET) – Australia (2012)
- 1-L Baffled Flask Field Test (BFFT) - BSEE – USA (2016)
- OSRL Dispersant Effectiveness Test Kit (2016)



Existing Field Test Kits

Some field tests kits (FDET [1987], FET [1999], OSRL [2016]) have simplified methods of preparing solutions, mixing and interpreting results; however, these basic processes:

- incorporate manual mixing that may result in variability among users; and
- may result in inconsistent interpretation of results.

Others (Nat-DET [2012] and BFFT [2017]) provide more scientific rigor; however, these methods:

- are not suitable for use by non-scientists;
- require more fragile and sophisticated test equipment; and
- require personnel training on a regular basis.



Project Goal

Develop a reliable rapid dispersant field test kit by incorporating an automated mixing system to standardize the mixing energy and ensure repeatability of the results.

- This kit is intended for use by OSRO personnel (first on-scene), with no scientific training beyond the "single page", pictorial-based instructions included in the kit.
- Collective components are packed in a Pelican case that is easily stored on the vessel and easily carried by one person.
- Sufficient volumes of oil and dispersant are easily dispensed by a lay person (e.g., using disposable pipettes – not auto-pipettors or gas-tight syringes).
- Rapid testing is accomplished in minutes not hours.
- Qualitative results are transmitted to experts for immediate review and interpretation.
- Components should not require regular maintenance or calibration, other than annual equipment power check and replacement of dispersant sample every few years.

Key Points

- **This kit IS:**

- meant to support real-time, incident-specific operational decisions; and
- intended to provide an indication that the surface oil is dispersible prior to mobilization of dispersant assets.

- **This kit is NOT:**

- an efficacy test;
- intended to replace existing practices, such as dispersant test application; and
- a substitute for scientific research that is likely initiated once science teams are mobilized.

Absence of the test results from the kit should not delay dispersants operations

Project Advisory Committee

- USCG
- NOAA
- EPA
- BSEE
- TGLO
- Exxon
- BP
- Chevron
- Oxy
- MSRC
- CGA

Concepts Tested

VWR.com



Amazon.com



VWR.com



HannaInst.com



VWR.com



FisherSci.com



BabyBrezza.com



FisherSci.com



BraunHousehold.com



FisherSci.com



ColeParmer.com

Final Test Kit Design

Elements of Protocol

- Mixing Unit – Southwest Science Digital Orbital Shaker* with flask holders
- Bottle Shape – Dimpled Erlenmeyer Flask (DF)
- Speed – 200 RPM
- Mixing Time – 2 mins
- Settling Time – 1 min

*SBT300 Digital Orbital Shaker

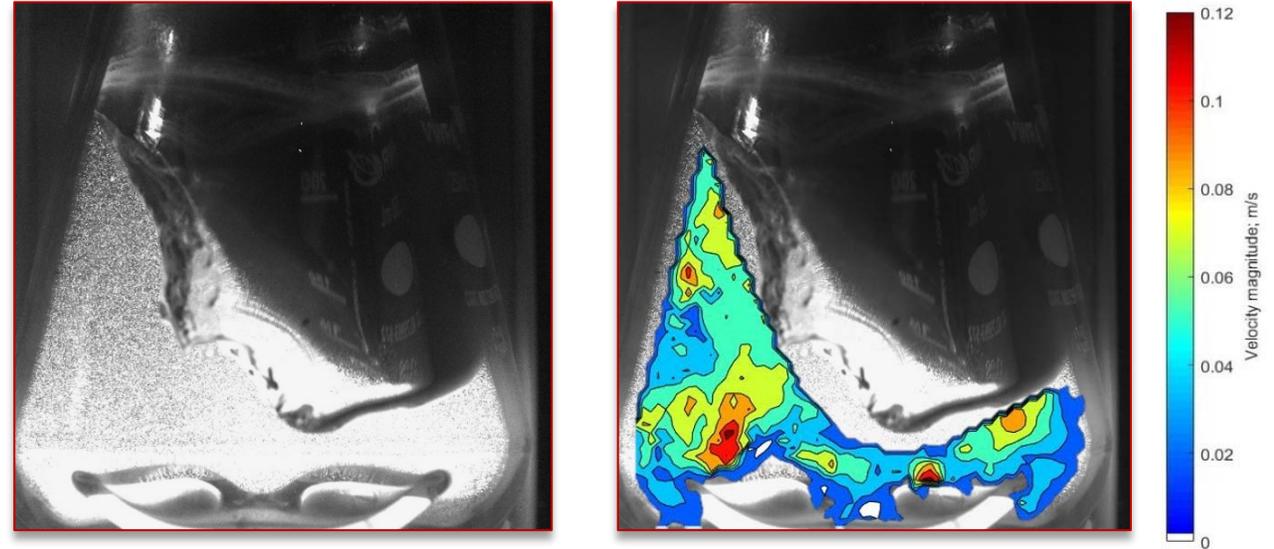
- Holds flask clamps up to 2 liters and tube racks up to 50 ml
- Speed Range: 50 to 300 rpm in 10 rpm steps
- Time setting: up to 99 hrs in 1 min steps or continuous
- Operates in cold rooms down to 4C and incubators to 50C
- Orbit diameter: 19 mm (3/4in)
- Max Load Capacity: 5 lbs
- Size: 11"w x 10"d x 5"h
- Weight: 12 lbs
- Electrical: 115VAC, 1.5A



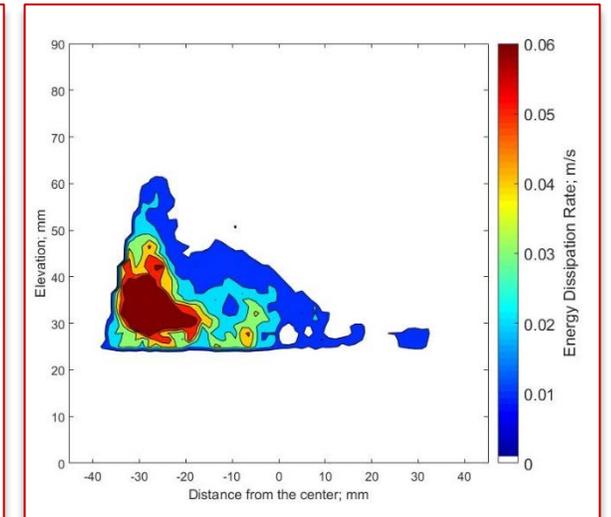
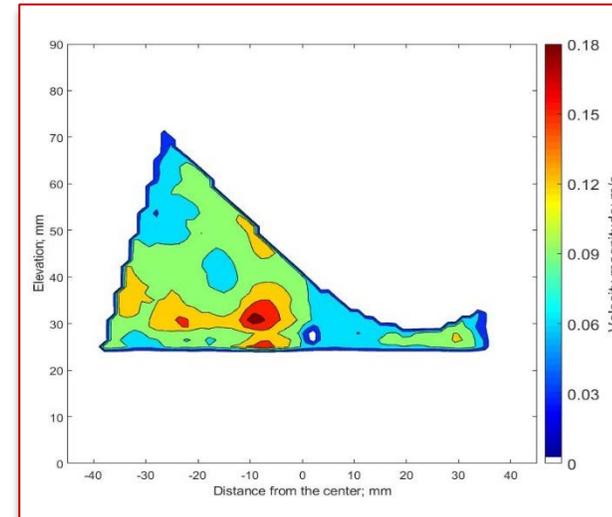
Orbital Shaker configured for 2 Dimpled flasks

Mixing Characterization

- Analyzed by the Boufadel group (NJIT)
- Scientific turbulence characterization
- Evaluated speeds of 150 RPM, 200 RPM, and 250 RPM
- 200 RPM speed was selected
- Lower energy dissipation rate than in a baffled flask test
- Comparable to surface ocean turbulence level under moderate waves (1 to 2 feet)



NJIT



Mixing Protocol Testing

CRUDE OIL	~ API Gravity
Canadian Sour	14
Rock	15
----Rock (1-day Weathered)	<i>unknown</i>
Zuata 300 Blend	20.8
----Zuata 300 (3-day Emulsion)	<i>unknown</i>
Maya	22
Coulomb-4, MC474	29
APC GC-680	30
BP Thunderhorse	32
Appomattox, MC437	37
---Appomattox (3-day Emulsion)	<i>unknown</i>
---Appomattox (7-day Emulsion)	<i>unknown</i>
LLS ST James	38
Agbami	48
DISPERSANT	
1) EC9500A	N/A
2) Accell DWD	N/A

Sponson

Experiment Number	Date	Title
1	Early July	Preliminary Experiments
2	7/27/20	Comparing Mixing Units
3	7/28/20	Comparing Bottle Shapes
4	7/28/20	Square Bottle Test
5	7/29/20	Shipboard Evaluation (Oxford Benchmate)
6	7/30/20	Oil Sample Collection
7	7/30/20	Baffled Flask Test
8	7/31/20	Norwegian FET Evaluation
9	9/9/20	Collapsible Bucket Evaluation
10	9/9/20	Shipboard Evaluation (SW Science Shaker)
11	9/9/20	Varying RPM Evaluation (SW Science Shaker)
12	9/10/20	Rock Oil Test (4 ml)
13	9/10/20	Rock (Fresh) Oil Validity Test (2 ml)
14	9/10/20	Thunderhorse (Fresh) Oil Validity Test (2 ml)
15	9/11/20	Z300 (3-Day Emulsion) Validity Test (2 ml)
16	9/11/20	Rock (1-Day Weathered) Test (2 ml)
17	9/11/20	Z300 (Fresh) Oil Validity Test (2 ml)
18	9/24/20	Shipboard field trial of Southwest Science Shaker
19	9/24/20	Appomattox (Fresh) Oil Validity Test at Sea (2 ml)
20	9/26/20	Appomattox (3-Day Emulsion) Validity Test (2 ml)
21	9/30/20	APC-680 (Fresh) Oil Validity Test (2 ml)
22	9/30/20	LLS St. James (Fresh) Oil Validity Test (2 ml)
23	9/30/20	Maya (Fresh) Oil Validity Test (2 ml)
24	9/30/20	Coulomb (Fresh) Oil Validity Test (2 ml)
25	9/30/20	Agbami (Fresh) Oil Validity Test (2 ml)
26	9/30/20	Canadian Sour (Fresh) Oil Validity Test (2 ml)
27	9/30/20	Appomattox (7-Day Emulsion) Validity Test (2 ml)

Total Oil Validity Tests - 14 (10 fresh, 1 weathered and 3 emulsified)

Protocol Testing

GOM Crude Oil (API ~37 for fresh oil)

Fresh oil

7-d Emulsion



Sponson

Protocol Testing

Visual Results for Other Oils at T= 1 min Settling Time

APC-680



Sponson

LLS St James



Sponson

Canadian Sour



Sponson

Z-300 Emulsion (3-day)



Kit Inventory



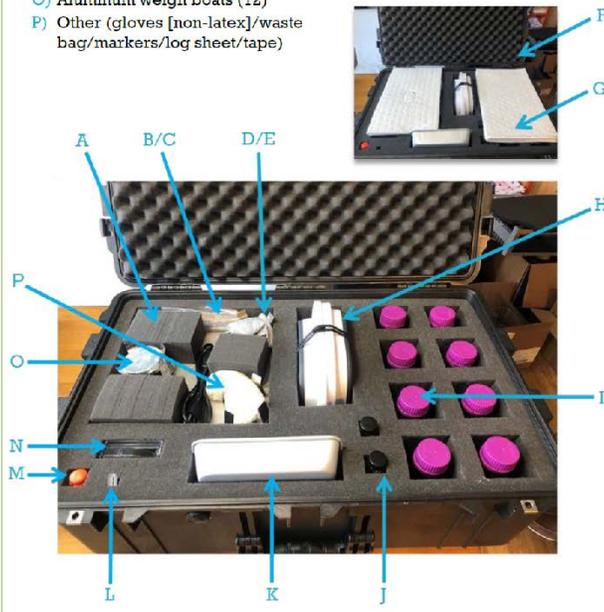
- Pelican 1650 Protector Case
- Interior: 28.6" x 17.5" x 10.7"
- 4 strong polyurethane wheels with stainless steel bearings
- Watertight, crushproof, and dustproof
- 2 level Pick N Pluck™ with convoluted lid foam
- Optional TrekPak Case Divider System
- Open cell core with solid wall design - strong, light weight
- Retractable extension handle
- Fold down handles
- Total weight including case and components ~50 lbs

Kit Inventory

KIT CONTENTS AND REORDER LIST

Contains supplies to conduct up to 4 tests.

- A) Orbital shaker (19 mm orbital) (1)
- B) Plunger syringes (1-mL & 3-mL) (4 of each size)
- C) Plastic pipettes (3-mL) (4)
- D) Wooden spatulas (4)
- E) Bamboo skewer (2)
- F) Case and foam insert (1)
- G) Oil adsorbent pads (12)
- H) Collapsible bucket w/ polypropylene line (2)
- I) Erlenmeyer dimpled flasks with lids (250-mL) (8)
- J) Dispersant product vials (20-mL) in resealable bags
- K) Aluminum pan (1)
- L) Thermometer (1)
- M) Screwdriver (1)
- N) Hydrometer (1)
- O) Aluminum weigh boats (12)
- P) Other (gloves [non-latex]/waste bag/markers/log sheet/tape)



Version 1 (November 2020)

	Item Name and Model Number	Website	Price (incl. tax) (11/2020)
A	1) Digital orbital shaker; 2) Platform; 3) 250-mL flask clamps (Southwest Science 1) #SBT300; 2) #SBT300-UNV; 3) F-CLAMP-250)	http://www.southwestscience.com/SBT300-Digital-Shaker.html http://www.southwestscience.com/SBT300-Accessories.html	1) \$229 2) \$53 3) \$21 ea
B	Plunger syringe, graduated (1-mL and 3-mL) (Model: Friends-Syringes)	https://www.amazon.com/Friends-Measurement-Scientific-Measuring-Refilling/dp/B0713NF7P8 https://www.amazon.com/Friends-Measurement-Scientific-Measuring-Refilling/dp/B0713NF7P8/ref=ast_s_photo?pf_rd_p=1554545454&pf_rd_r=1554545454	\$8.99 (Pack of 20) (Both sizes)
C	Plastic pipette, graduated (3-mL) (Model: Moveland #PP_SFCH)	https://www.amazon.com/moveland-Transfer-Graduated-Pipettes-Essential/dp/B08C138CL/ref=ast_s_photo?pf_rd_p=1554545454&pf_rd_r=1554545454	\$4.99 (Pack of 50)
D	Wooden spatulas 3.5" (Perfect Sux #PS300BA-100)	https://www.amazon.com/gp/product/B09E1FPM/ref=ppx_yo_dt_b_asin_title_007_s00%3DUTF8&psc=1	\$12.59 (Pack of 100)
E	Bamboo skewers (6") (Model: Hopelf #6)	https://www.amazon.com/Hopelf-Skewers-Cherry-100-Pack/dp/B0713NF7P8/ref=ast_s_photo?pf_rd_p=1554545454&pf_rd_r=1554545454	\$4.00 (Pack of 100)
F	Case with foam insert Model: Pelican #6130	https://www.pelican.com/us/en/product/cases/protector/6130	\$299
G	Oil adsorbent pads Model: Pig #MAT415	https://www.sewpig.com/pig-oil-only-adsorbent-mat-pad/p/MAT415	\$47 (Pack of 50)
H	Collapsible bucket (5 L/1.3 Ga) (Sammart #B07WKBBR7P)	https://www.amazon.com/SAMMART-5-Liter-Collapsible-Bucket-Rectangular/dp/B07WKBBR7P	\$12.96
I	Erlenmeyer dimpled flask (250-mL) (VWR #75993-372 [with lids])	https://www.vwr.com/atoz/catalog/product.jsp?product_id=22207138	\$140.85 (Case of 10 flasks)
J	Dispersant product vials (20-mL) Type: To be provided by OSRO	Dispersant samples have a shelf-life OSROs should replace these samples periodically (e.g., every few years).	--
K	Aluminum pan (Wilton #2108-8191)	https://www.amazon.com/Wilton-Perforated-Aluminum-Square-Brown/dp/B00007M5V0/ref=ast_s_photo?pf_rd_p=1554545454&pf_rd_r=1554545454	\$8.99
L	Thermometer and case (SP Scienceware #B60570-1500)	https://www.amazon.com/gp/product/B01W7TE1/ref=ppx_yo_dt_b_asin_title_002_s00%3DUTF8&psc=1	\$17.36
M	Screwdriver (Southwest Science)	Included with shaker	--
N	Hydrometer (Instant Ocean #TK-804)	https://www.amazon.com/gp/product/B05WY282/ref=ppx_yo_dt_b_asin_title_002_s00%3DUTF8&psc=1	\$12.95
O	Aluminum weigh boats (Heathrow Scientific #HS14521C)	https://www.amazon.com/gp/product/B01V03K3/ref=ppx_yo_dt_b_asin_title_002_s00%3DUTF8&psc=1	\$13.36 (Pack of 100)
P	Other consumables (waste bags, disposable gloves [latex free], markers, tape) (Any brands)	Any available (~13 gallon bag/large gloves, tape)	--

Version 1 (November 2020)

Instructions

Dispersibility Assessment Kit - Instructions

PREPARING EQUIPMENT AND SUPPLIES

Step 1: Place shaker directly on benchtop with bottom suction cups securely attached, surround with adsorbent mats, plug into power supply, and turn on switch in back. In addition, attach an adsorbent pad behind shaker to provide a white backdrop for photos/videos.

**Remember to use company-issued devices (e.g., cell phones/tablets) for any visual documentation that may become legal evidence.*

Step 2: For shaker set up, depress front button one time and then turn dial to 200 RPM.

Step 3: Press same button again to set mixing time at 2 minutes.

Step 4: Press and hold button two seconds to start unit to ensure proper setup. (Note: it takes several seconds to reach desired RPM setting.)

Step 5: Remove the following items and place on adsorbent pad next to shaker for later use:

- 1 1-ML PLUNGER SYRINGE 1 DISPERSANT VIAL 1 SET OF GLOVES



COLLECTING SEAWATER

Step 6: Remove following items from kit and take to ship's deck using 8" pan to transport:

- 1 COLLAPSIBLE BUCKET THERMOMETER 1 3-ML PIPETTE
 HYDROMETER 2 FLASKS ("OIL ONLY" AND "OIL AND DISPERSANT")



Step 7: Collect clean seawater in collapsible bucket. Record lat/long on log sheet and then coordinate vessel repositioning to encounter oil slick.

Step 8: Use thermometer to take temperature of water in bucket and record on log sheet.

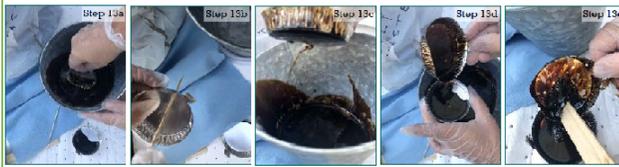
Step 9: Use hydrometer to measure salinity by submerging into bucket to fill with clean seawater and record on log sheet.

Step 10: Fill two flasks by dipping into bucket of clean seawater and filling to roughly 150 mL, using pipette to precisely adjust to 150 mL line. Replace caps on flasks. Do not dispose of clean seawater in the event a secondary test is requested. Leave clean seawater bucket on deck and carry everything else to shaker unit (while transiting to slick location).

COLLECTING OIL SAMPLES

Step 11: Remove following items from kit and take to ship's deck using 8" pan to transport:

- 1 COLLAPSIBLE BUCKET 1 BAMBOO SKEWER 1 WOODEN SPATULA
 2 SETS OF GLOVES 2 ADSORBENT PADS 1 3-ML SYRINGE
 1 WASTE DISPOSAL BAG 2 ALUMINUM WEIGH BOATS



Version 1 (November 2020)

Step 12: Once positioned in oil slick, lower bucket to collect oil sample (use gloves). Record lat/long.

Step 13: Using aluminum weigh boat, skim oil from water's surface. If it is necessary to remove water from weigh boat (a), use a bamboo skewer to puncture side to drain excess water (b/c). Transfer oil into clean weigh boat using wooden spatula, if necessary (d/e).



Step 14: Into each flask, measure 2 mL of oil with the 3-ml syringe and dispense oil slowly onto water's surface. Do not touch water with syringe. Dispose of oiled gloves and replace with clean gloves, if necessary. Attach lids and carry flasks steadily to shaker unit. Leave oily seawater bucket on deck. If it is necessary to bring the small sample of oil into vessel's interior, use the 8" aluminum pan as secondary containment during transport.

CONDUCTING TEST



Step 15: Carefully place flasks into flask holders on shaker unit (labels facing forward). Gently handle flasks to prevent oil from stranding on sides.

Step 16: Remove lid of "Oil and Dispersant" flask. Measure 0.1 mL of dispersant in the 1-ml syringe and dispense droplets slowly onto different locations on oil. Do not touch floating oil with syringe. Re-attach lids to dispersant bottle and flask.

Step 17: Start video recording before starting shaker. Press and hold button (for two seconds - until shaker starts moving). The shaker will automatically stop after two minutes.

Step 18: Once shaker stops, start timer for 1 minute. After 1 minute, arrange flasks with labels facing forward and take a photo of the two flasks shown side by side with white background.

REPORTING RESULTS

Step 19: Save and send photo/video to requester at Unified Command (UC).

Step 20: Record information on log sheet, then take photo of log sheet and send to UC.

CLEANING UP

Step 21: Remove flasks from mixer and empty contents into oil waste container and then discard bottles.

Step 22: Use adsorbent pads to clean 8" aluminum pan.

Step 23: Secure dispersant vial lid with included tape, place in resealable bag and return to case.

Step 24: Return shaker to case as well as any other unused kit components and restock kit after returning to shore.

Secondary Testing of Undispersed Oil (upon request)

This optional testing should only be conducted if requested. It is intended as secondary analysis if there is not clear indication of oil dispersion.

- Fill aluminum pan with ~1" of seawater saved from Step 10.
- Use wooden spatula to collect oil sample from previously mixed "Oil and Dispersant" flask.
- Drop oil sample in center of water and observe if oil disperses over a time period, as directed by UC.
- Take photo/video of oil behavior in pan.

Version 1 (November 2020)

Project Status

- Kit design was supported by the Advisory Committee.
- It was tested at sea several times including on Clean Gulf Associates vessel (OSRV Breton Island) in GOM in October 2020.
- CGA and MSRC staff received training, practiced with kit, sent test results to the shore and provided valuable recommendations.
- Kit and training materials were finalized: [Dispersibility Assessment Kit Training Video Dec 2020 - YouTube](#)
- Peer-reviewed publication is in progress
- Two kits were given to MSRC and CGA for future use (in TX and LA). One more kit will be given to OSRL (Florida)
- Anyone can make their own kit using instructions and component specifications.



Sponson

Questions and Answers

Q&A



Environmental Protection Agency (EPA)



RRT-6 2021 Spring Meeting

6 May 2021

U.S. Environmental Protection Agency



Role	RRT Member	Contact Info
Co-Chair	Craig Carroll	(214) 665-2220 carroll.craig@epa.gov
Coordinator	Bray Fisher	(214) 665-2712 fisher.kelsey@epa.gov
Alternate Co-Chair	Lyndsey Nguyen	214-665-3143 Nguyen.Lyndsey@epa.gov



Executive Summary

Challenges	COVID-19 Air Monitoring Action Levels FY21 Hurricane Season
Lessons Learned	Virtual Response Management
Best Practices	Virtual Response Management SE Texas CAMP Residential Hg Clean-up Initiative

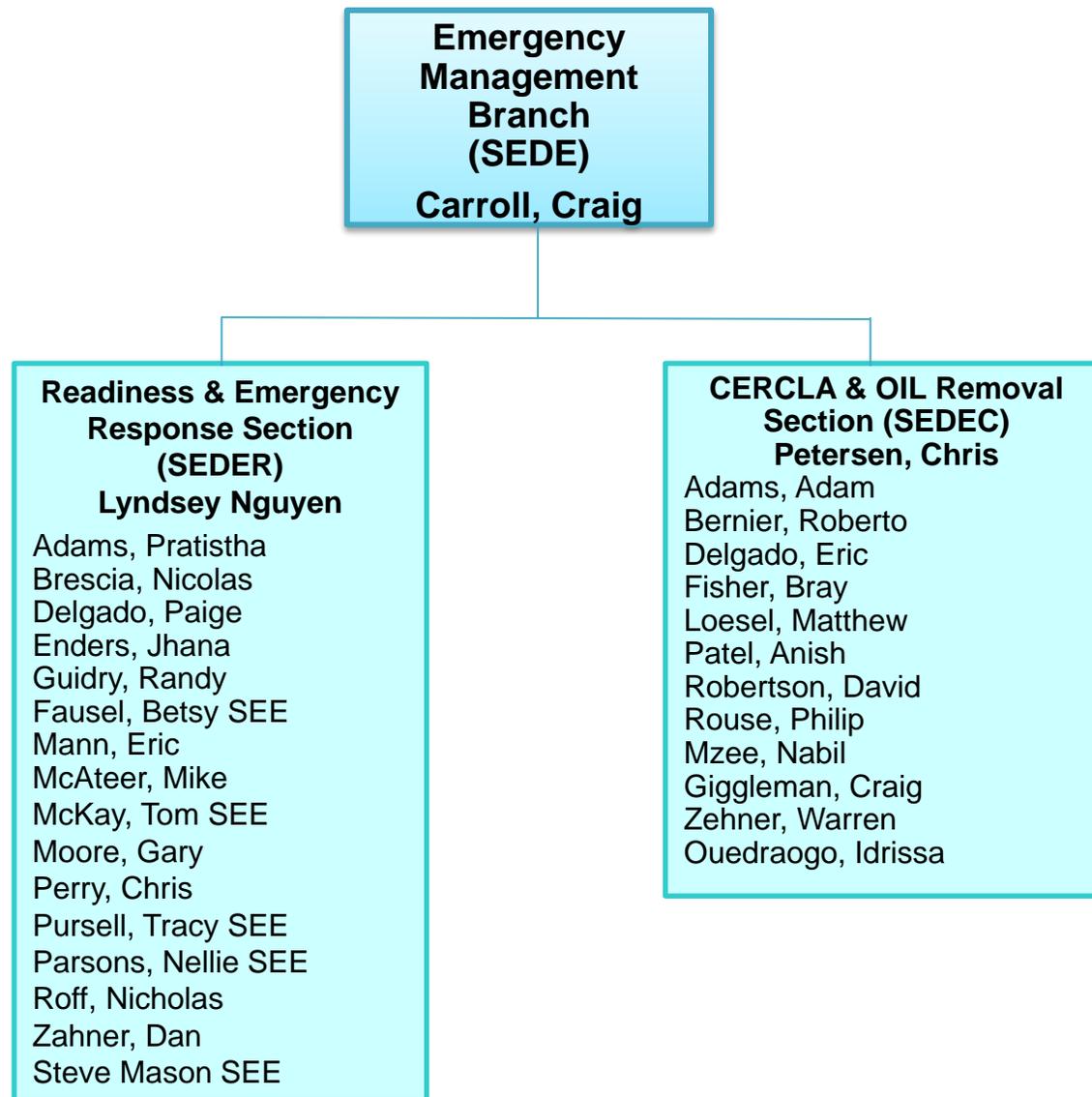


Key Personnel Changes

Role	Incoming	Outgoing
RRT Alt. Co-Chair	Lyndsey Nguyen	Nichole Foster
SEE Assistant	Steve Mason	N/A



EPA R6 Emergency Management Branch





Metrics/Trends/Challenges

- Success using MS Teams during virtual responses
 - Untested on large-scale events with multiple field activities
 - Untested with multiagency responses



Laws/Regulations/Policies

- UAS Platforms
- Residential Mercury Response Policy



Accomplishments

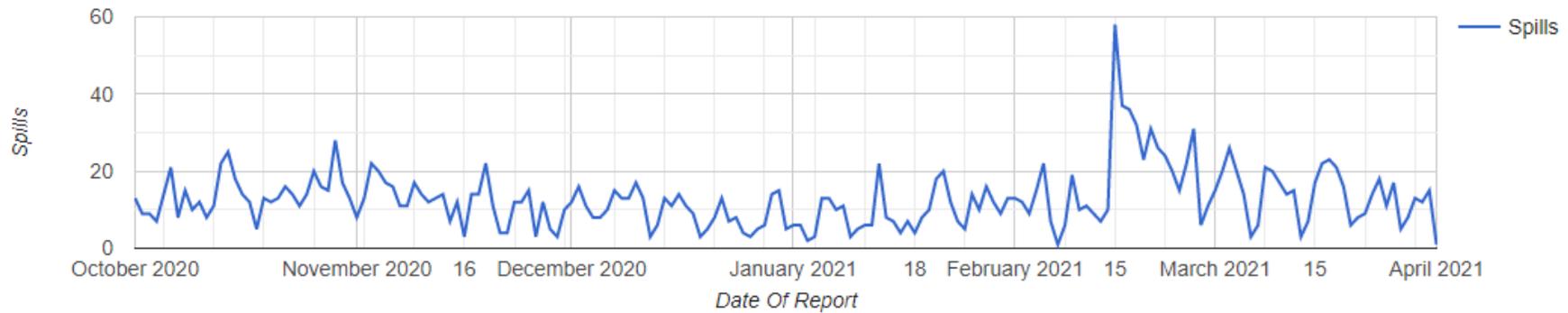
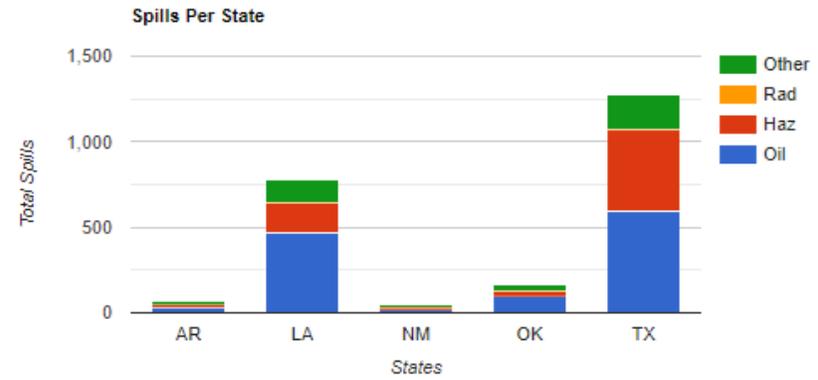
FY2021

Description
Closed out 2335 (706 haz; 1213 oil; 1 rad; 415 other) spill notifications received on the EPA Region 6 Spill line.
Completed 2 CERCLA Removal Actions (Regional commitment = 16) cost N/A (PRP oversight)
Initiated 0 OPA Responses
Completed 0 Facility Response Plan (FRP) inspections (Regional commitment = 5)
Completed 0 Spill Prevention, Control and Countermeasures (SPCC) inspections (Regional commitment = 25)
Maintained primary mission essential function capability for response to oil spills and hazardous materials releases during COVID-19 Pandemic.

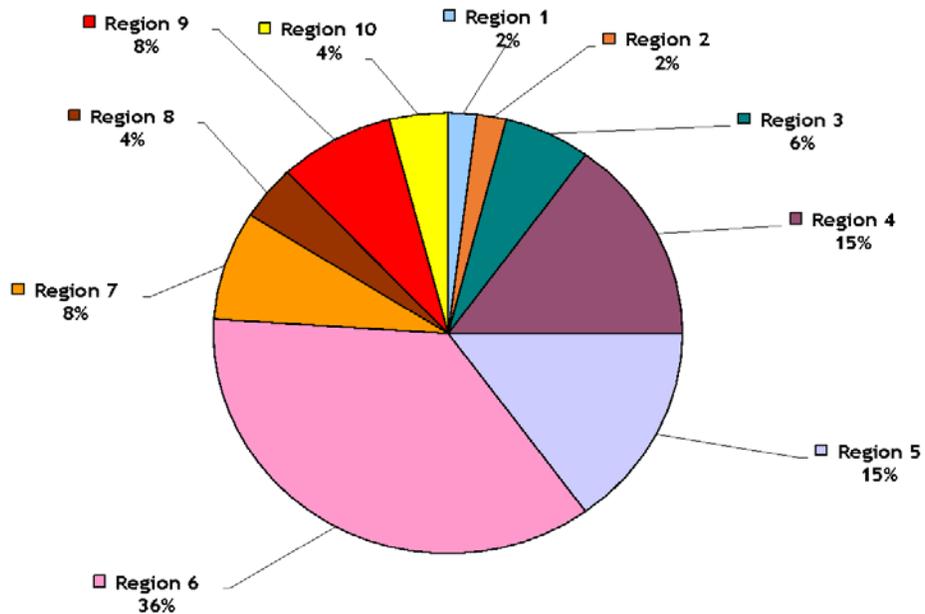
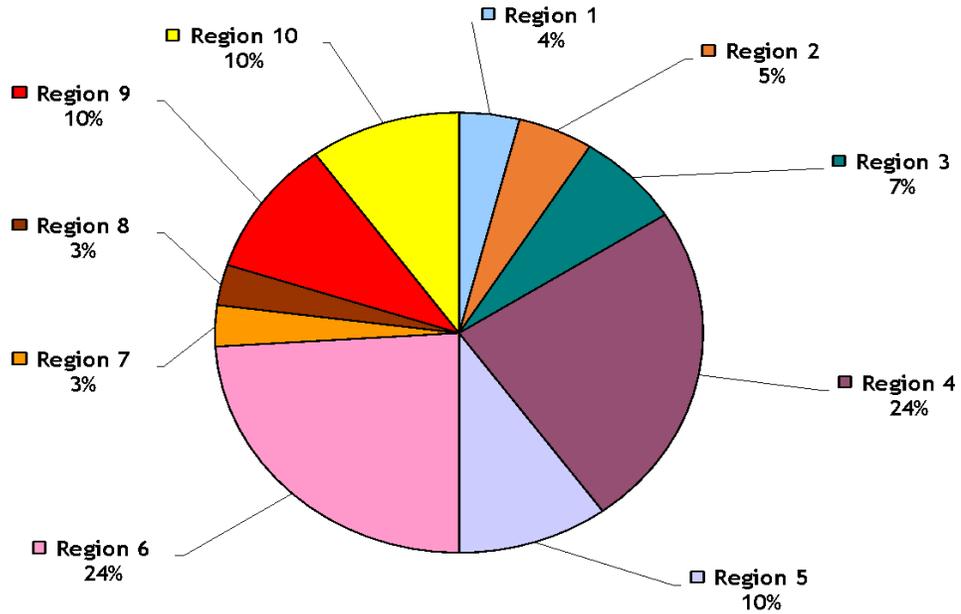
Spill Notifications

State	Oil	Haz	Rad	Other
AR	32	18	0	18
LA	470	168	0	144
NM	17	15	0	12
OK	95	34	0	37
TX	599	471	1	204

Total Spills: 2,335



**NRC Notifications
Nationally to EPA – All
releases -- % by Region
(2016 – 2020)**



**NRC Notifications
Nationally to EPA -- Air
Releases – % by Region
(2016 – 2020)**



Accomplishments

Training

Description	Dates
OSC Monthly Meetings	1 st Monday (6)
Residential Mercury Response	Multiple (3)
Planning Section Trainings	Multiple (3)
Data Bootcamp	May 05, 2021
Branch Planning Section Training	April 07, 2021

Exercises/Workshops

Description	Dates
Kinder Morgan WCD TTX	March 31, 2021
RRT-6 Incident-Specific Chevron WCD SSDI	May 4, 2021

Fed/State/Local planning and coordination efforts

Description	Dates
RRT6 Meeting	November 5, 2020



Outlook

Training

Description	Dates
OSC Monthly Meetings	1 st Monday (6)

Exercises/Workshops

Description	Dates
NDOW Exercise	May 18, 2021
IMT Exercise	Summer 2021

Fed/State/Local planning and coordination efforts

Description	Dates
ESF-10 Coordination with other EPA Regions	May 12, 2021
Pre and Post Landfall Hurricane Coordination	Various



Role	RRT Member	Contact Info
Co-Chair	Mr. Michael Sams	(504) 671-2234 Michael.K.Sams@uscg.mil
Co-Chair Alternate	LCDR Keyth Pankau	(504) 671-2235 Keyth.A.Pankau@uscg.mil
Coordinator	Mr. Todd Peterson	(228) 249-1105 Todd.M.Peterson@uscg.mil

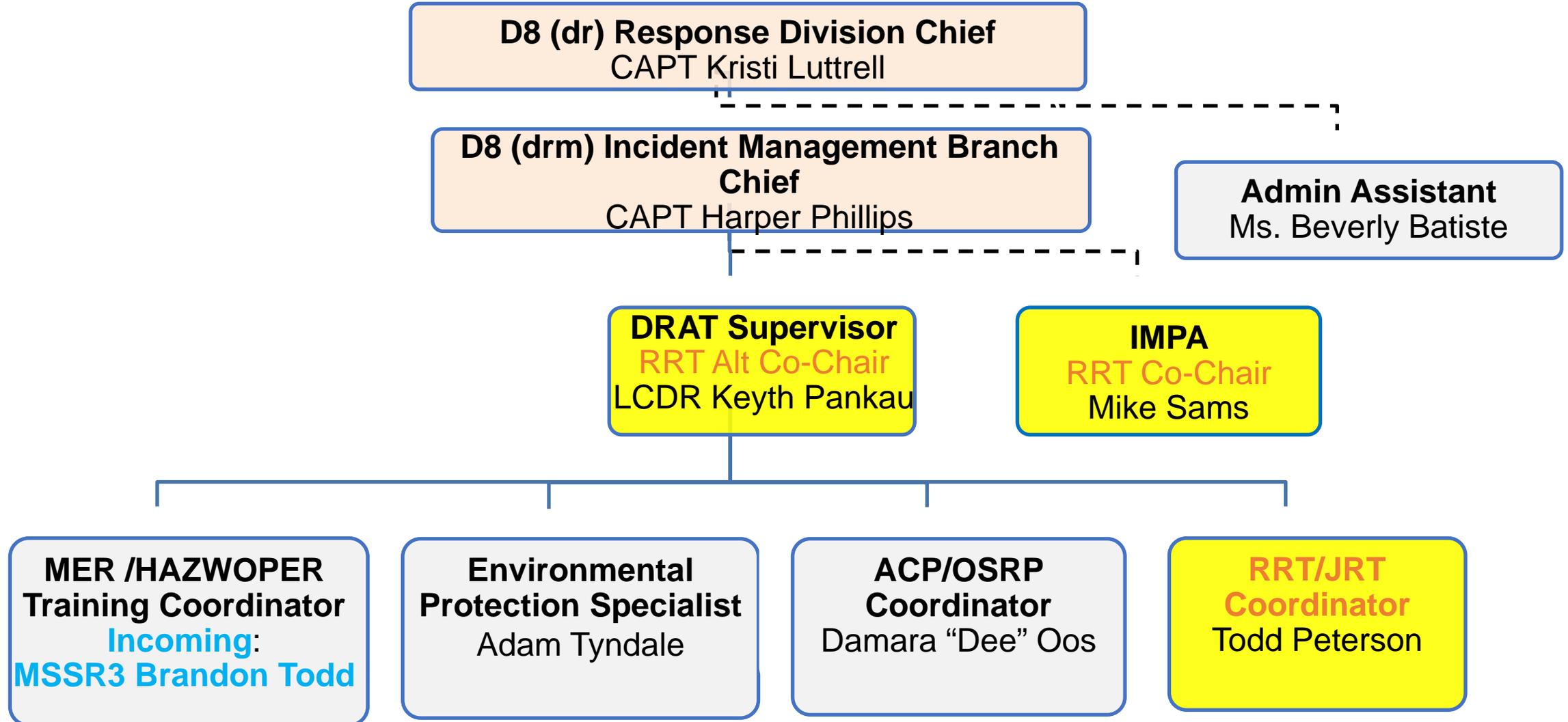


Overview

- COVID-19
- NRT-NEC Workgroup: ESA and NHPA
- NRT-ACP Workgroup: Task Force member and progress
- National Review Panel – coastal ACPs
- Environmental Consultations
- Fish and Wildlife and Sensitive Environments Plan – Annex in ACPs



D8 (drm) Incident Management Branch





Laws/Regulations/Policies

- **CG Headquarters:**
 - National Response Team – Area Contingency Planning (NRT-ACP) Workgroup
- **CGD 8:**
 - Supporting National COVID Vaccination Center efforts and planning
 - Environmental Consultations
 - Pollution Policy captured in the D8 Operational Planning Direction; will be revised annually
 - LA Statewide Area Committee Executive Steering Group
 - SpaceX operations in Boca Chica, TX



Accomplishments

Since last RRT meeting
5 Nov 2020

Federal, state, and local Planning and Coordination Efforts		
Description	Location	Dates
RRT-3 Meeting	Virtual	3 Dec 2020
EPA R7 OSC Training	Virtual	29 Jan 2021
RRT-4 Meeting	Virtual	9-10 Feb 2021
R7 Regional Interagency Steering Committee	Virtual	23 Mar 2021
MEXUSGULF Seminar	Virtual	25 Mar 2021
RRT-7 Meeting	Virtual	31 Mar 2021
RRT-8 Meeting	Virtual	21-22 Apr 2021



Outlook

Until Next RRT meeting
3-4 Nov 2021

Federal, state, and local Planning and Coordination Efforts		
Description	Location	Dates
NRT Co-Chairs Meeting	Virtual	20, 27 & 29 Apr 2021
RRT-7 Meeting	Kansas City, MO or Virtual	22-23 Sep 2021
RRT-8 Meeting	Denver, CO or Virtual	20-21 Oct 2021
5 th Annual Clean Waterways Conference	Louisville, KY	14-15 Sep 2021
30 th Clean Gulf Conference	San Antonio, TX	16-18 Nov 2021
MEXUSGULF Workshop	New Orleans or Virtual	16-17 Mar 2022

State Report Outs



RRT-6 Spring 2021 Meeting

Arkansas



Reminder: As of July 2019, the newly-created Arkansas Department of Energy and Environment (ADEE) replaces ADEQ as the primary agency for ESF10 in Arkansas. The former ADEQ is now DEQ, a division within ADEE.

PRIMARY	ADEE	Stephen	Ratley	ratley@adeq.state.ar.us
ALTERNATE	ADEE	Jamie	Belcourt	jamie.belcourt@adeq.state.ar.us
PRIMARY	ADEM	Chris	Foreman	chris.foreman@adem.arkansas.gov
ALTERNATE	ADEM	Latryce	Robinson	Latryce.Robinson@adem.arkansas.gov
PRIMARY	ADH	Lori	Simmons	lori.simmons@arkansas.gov
ALTERNATE	ADH	Ashley	Whitlow	ashley.whitlow@arkansas.gov



Other Key Personnel Changes

Arkansas

Agency	Role	Incoming Name	Outgoing Name
Arkansas Department of Energy and Environment (ADEE)	ADEE Alternate Contact	Jamie Belcourt	Heather Saco

Liquefied Petroleum Gas Truck Fire

England, AR

Date:	04/06/2021
LPG Transport	Fire involving truck carrying 390 full cylinders of LPG
Major Challenges:	Limited water supply, transport design
Key operational activities:	Forced to breach truck to apply water
Agencies Involved:	Department of Energy and Environment, Liquefied Petroleum Gas Board, DPS, ADEM, County OEMs, multiple FDs
Major lessons learned:	Rural FDs and OEMs not equipped to handle this type of incident; Discussions on transport changes to assist firefighting, public safety and resources.





Arkansas Department of Energy and Environment (ADEE)

Incident Category	Total
Total # Incidents (Nov 4, 2020 – April 22, 2021)	177
# Referred to DEQ Regulatory Programs	40
Environmental Media/Program Impacted	Total
# Water	67
# Air	28
# Hazardous Waste	27
# Regulated Storage Tanks	6
# Solid Waste	8
# Tire Accountability Program	5
# Multimedia	48

Accomplishments

Training

Description	Dates
RRT-6 Residential Mercury Response	Ongoing Monthly Trainings
HAZWOPER 8-Hour Refresher	November 2020
INSPARK Rapid Building Inspection	March 2021
ADEM ESF Training	March 2021
EMAC Training	April 2021

Exercises/Workshops

Description	Dates
Chemical Security Seminar	December 2020
Arkansas Governor's Earthquake Advisory Council Annual Meeting	January 2021
ADEM Training Workshop	March 2021
New Madrid Seismic Zone Earthquake Preparedness	Multiple

Fed/State/Local planning and coordination efforts

Description	Dates
RRT-6 Residential Mercury Initiative	Ongoing Monthly Meetings
Transportation Spill Guidance	In Progress

Outlook

Training

Description	Dates
ADEE Mercury Safety/Handling	TBD
ADEM ESF Trainings	Ongoing, TBD
HAZWOPER 8-Hour Refresher	Fall 2021
WebEOC Trainings	TBD

Exercises/Workshops

Description	Dates
ADEM Exercises	Multiple, TBD

Fed/State/Local planning and coordination efforts

Description	Dates
Residential Mercury Drop Off Program – Regional Expansion	Through end of 2021
Transportation Spill Guidance – Quick Reference Guide	Ongoing



Arkansas Division of Emergency Management (ADEM)

- **3128** facilities reported using the Tier II reporting system for reporting year 2020
- ADEM has resumed both Emergency Management and Hazardous Materials in-person training. Schedules can be found at: <https://www.dps.arkansas.gov/emergency-management/adem/training-exercise/training/>
- SEOC activation level remains at a continuous Level 2 - Increased Preparedness in the ongoing response to Covid-19



COVID-19 OPERATIONS

- State employees will return to full onsite operations beginning May 17, 2021
- Arkansas Department of Health (ADH) EOC remains activated, and ADH continues to lead the state's COVID-19 response

State Report Outs



RRT-6 Spring 2021 Meeting

Louisiana



PRIMARY	LDEQ	Jeff	Dauzat	jeff.dauzat@la.gov
ALTERNATE	LDEQ	Daniel	Lambert	daniel.lambert@la.gov
ALTERNATE	LDEQ	Jerry	Lang	jerry.lang@la.gov
ALTERNATE	LDEQ	Kevin	Borne	kevin.borne@la.gov



Executive Summary

Louisiana

Challenges-	Retaining well trained employees to respond to environmental incidents.
Best Practices-	Continued education classes for responders. Continued cooperation with Federal, State, and Local partners when responding to incidents in an effort to keep all key stakeholders and the public informed.



Eastman Chemical

Date:	2/22/2021
Type and amount of product spilled:	19 minute release of anhydrous ammonia at 290PSI
Cause of spill:	Leak started in a small piece of tubing that was overtightened causing the pipe to rupture.
Key operational activities:	Operator, Sheriff Deputy, and six offsite workers were exposed
Agencies Involved:	LDEQ, LSP, local police, and local fire fighters
Major lessons learned:	Rupture of a ½ inch line caused large release in a small amount of time





Winter Weather Event

Louisiana

Dates: 2/15/2021 -2/21/2021

48 weather related incidents logged



Metrics/Trends/Challenges

Louisiana

10/23/2020- 4/21/2020

Non-Emergency Notifications	820
Emergency Notifications	602
Complaints	1357



Accomplishments

Louisiana

Training

Description	Dates
Air Monitoring for Local/State Responders	Multiple

Exercises/Workshops

Description	Dates
Riverbend Nuclear Power Plant Graded Exercise	3/31/2021

Fed/State/Local planning and coordination efforts

Description	Dates
State Emergency Operations Plan Updates	Multiple



Outlook

Louisiana

Training

Description	Dates
Air Monitoring Training for Local/State Responders (JESTC)	Multiple
LDEQ Internal Responder Training	Multiple

Exercises/Workshops

Description	Dates
Waterford Three Power Plant Exercise	8/03/2021

Fed/State/Local planning and coordination efforts

Description	Dates
Parish LEPC Meetings	Virtual

State Report Outs



RRT-6 Spring 2021 Meeting

6 May 2021

Louisiana - LOSCO

PRIMARY	Sam Jones	LOSCO	Oil Spill Coordinator	Samuel.Jones@La.Gov
ALTERNATE	Karolien Debusschere	LOSCO	Deputy Coordinator	Karolien.Debusschere@La.Gov

Metrics/Trends/Challenges

Time Period	Total oil related reports
Calendar Year 2016	1,438
Calendar Year 2017	1,580
Calendar Year 2018	1,405
Calendar Year 2019	1,520
Calendar Year 2020	1,717
01/01/2021-04/20/2021	420



Louisiana Statewide Area Committee Executive Steering Group (LA SACESG)

Purpose:

Provide for maximum efficiency for pollution planning, preparedness and response across the three Area Committees within the coastal zone of Louisiana

Members:

- Louisiana Oil Spill Coordinator's Office (LOSCO)
- Louisiana Department of Environmental Quality (LDEQ)
- Louisiana State Police (LSP)
- USCG Sector New Orleans
- USCG Marine Safety Unit Houma
- USCG Marine Safety Unit Port Arthur
- USCG Marine Safety Unit Morgan City
- USCG Marine Safety Unit Lake Charles
- USCG District 8 (CGD 8)



LA Statewide Area Committee Executive Steering Group (LA SACESG)



Priority List -- In Progress or Continuing			
	Priority	Assigned	Status
1.	Conduct Three ESG Teleconferences Annually (Specifics TBD)	LA SACESG	Ongoing
2	Conduct One Annual Face-To-Face Meeting (Specifics TBD)	LA SACESG	In Progress
3	Prioritize ACP Updates (including Charters and Memberships)	LA SACESG	In Progress
4	Develop Surface Collecting Agents Guidance including Spill of Opportunity Parameters	LA SACESG	In Progress
5	Develop Geographic Response Strategies (GRS) Outreach Documents and Procedures	LA SACESG	In Progress
6	Develop Best Practices for State Historic Preservation Office (SHPO) Engagement	LA SACESG	In Progress
7	Training, Exercises, Lessons Learned Statewide Information Sharing	LA SACESG	In Progress
8.	Revise Emergency Support Function 10 (ESF-10) Operations Guidance	LA SACESG	In Progress
9.	Develop Abandoned Facilities/Wells Assessment and Mitigation SOP	LA SACESG	In Progress

Accomplishments

Training

Description	Dates
Compliance Workshop	11/17/2020
Railroad Response Training	3/16/2021
Coastal and Marine Operators Safety, Security and Emergency Response Workshop	3/25/2021
PHMSA Response Training	Various dates
Various Webinars	Multiple

Exercises/Workshops

Description	Dates
BP Virtual Drill	11/5/20
Fieldwood Energy Drill	11/10/20
LOOP Drill	11/19/20
Gaubert Oil USCG GIUE	12/7/20
Harvery Gulf Virtual TTX	12/8/20
Marathon Drill	12/9/20
Galliano Marine Virtual TTX	12/15/20
GOHSEP Rehearsal of Concepts Drill	3/24/21
MEXUSGULF Seminar	3/25/21

Fed/State/Local planning and coordination efforts

Description	Dates
LA Statewide Area Committee Executive Steering Group (LA SACESG) Meeting	3/22/2021
RRT-6 Fish and Wildlife and Sensitive Environments Plan	Multiple
SELA ACP	Multiple
LEPC coordination meetings	Multiple

Outlook

Training

Description	Dates
Chevron MS Teams Training	5/4/2021

Exercises/Workshops

Description	Dates
Chevron Hybrid Drill	5/19-20/21
BP Exercise	6/24/21
Shell Geismar	8/24-26/21
BP Exercise	7/22/21
LOOP Drill	10/7/21

Fed/State/Local planning and coordination efforts

Description	Dates
LA Statewide Area Committee Executive Steering Group (LA SACESG) Conference Call	7/28/21
Southeast Area Committee Meeting	8/18/21
RRT-6 Fish and Wildlife and Sensitive Environments Plan	Multiple
SELA ACP	Multiple

TPIC SP24 3 Inch Line

Date:	1/19/2021
Type and amount of product spilled:	40-50 Bbls crude oil
Cause of spill:	Leak developed in flowline
Key operational activities:	In situ burn
Agencies Involved:	LOSCO, LDEQ, LDWF, USCG, NOAA
Major lessons learned:	ISB required careful monitoring of wind direction and speed due to close proximity (~100 yards) to Mississippi River



Incident Location



Photo

Hackberry Well 42D

Date:	11/30/2020
Type and amount of product spilled:	10-20 Bbls crude oil
Cause of spill:	Well casing failure
Key operational activities:	Booming, hazing, bagasse
Agencies Involved:	LOSCO, LDEQ, LDWF, USCG
Major lessons learned:	<p>Test application of bagasse was useful in determining that bagasse was not appropriate for broad application in this incident</p> <p>Purpose: minimize wildlife contact with transferable oil</p> <p>Findings: Oil and weather conditions were not conducive for bagasse application (See next slide)</p>



Incident Location



Photo

Hackberry Well 42D

Pre Bagasse Application



Post Bagasse Application



State Report Outs



RRT-6 Spring 2020 Meeting

27 May 2020

Louisiana State Police

PRIMARY	Louisiana State Police	John	Porter	john.porter@la.gov
ALTERNATE	Louisiana State Police	Johnny	Sparks	johnny.sparks@la.gov
ALTERNATE	Louisiana State Police	Chris	Adams	christopher.adams@la.gov

Other Key Personnel Changes

Agency	Role	Incoming Name	Outgoing Name
Louisiana State Police	Colonel	Lamar Davis	Kevin Reeves
Louisiana State Police	LT. Colonel	Chaves Cammon	J.D. Oliphant

Metrics/Trends/Challenges

- Currently Hotline notifications at 1613 incidents
- 117 Responses during the first quarter of 2021
 - Note: Over the past 5 years we have seen a drop in Hotline notifications, and a drop in the severity of incidents.

Laws/Regulations/Policies

- Currently there are four (4) bills being introduced that may impact response efforts.
 - Senate Bill 2
 - Requires that the owner/operator of each facility must operate an air monitoring system at a location determined by the department, and requires that the cost of the air monitoring system be incurred by the owner/operator.

Laws/Regulations/Policies

- Senate Bill 44
 - Defines “emergency condition” as any condition that could reasonably expect to endanger the health and safety of the public, cause significant adverse impact to land, water, or air environment, or cause severe damage to property.
 - Defines “immediately” as that in case of emergency condition, “immediately” means as soon as possible not to exceed 15 minutes from the discovery of the condition.

Laws/Regulations/Policies

- House Bill 246
 - Currently the law allows for the storage of natural gas, liquid hydrocarbons, or carbon dioxide in underground salt domes.
 - The proposed statute would allow for the storage of hydrogen in addition to natural gas, liquid hydrocarbons, and carbon dioxide.

Laws/Regulations/Policies

- House Bill 549
 - Changes the definition of “facility” an “owner operator” under the Right-To-Know law in order to make explicit that natural gas pipelines are to be treated as “facilities” under this law and are subject to the reporting requirements, rather than being treated as a transport vehicle and subject to the reporting requirements of that statute.

State Report Outs

Oklahoma



RRT-6 Spring 2021 Meeting

6 May 2021

Oklahoma



PRIMARY	OEM	Bonnie	McKelvey	bonnie.mckelvey@oem.ok.gov
PRIMARY	ODEQ	Jennifer	Handley	jennifer.handley@deq.ok.gov
ALTERNATE	ODEQ	Ashley	Sebree	ashley.sebree@deq.ok.gov
ALTERNATE	ODEQ	Clifton	Hoyle	clifton.hoyle@deq.ok.gov
PRIMARY	OSDH	Rocky	McElvany	rockym@health.ok.gov
ALTERNATE	OSDH	Scott	Sproat	scotts@health.ok.gov



Key Personnel Changes

Oklahoma

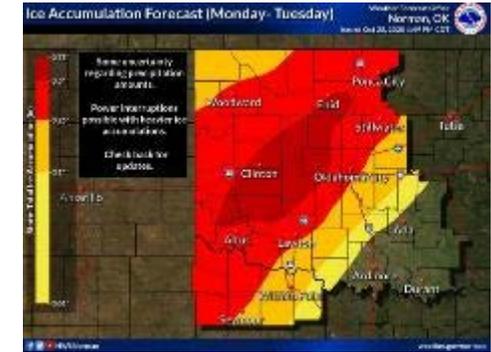
Agency	Role	Incoming Name	Outgoing Name
DEQ – Environmental Complaints and Local Services Division	Assistant Division Director	Travis Mensik	vacant
DEQ – Land Protection Division	Assistant Division Director	Clifton Hoyle	vacant
DEQ – Water Quality Division	Assistant Division Director	Karen Steele	vacant
DEQ – State Environmental Laboratory Services Division	Division Director	Jeff Franklin	Chris Armstrong
DEQ – State Environmental Laboratory Services Division	Assistant Division Director	Cody Danielson	Jeff Franklin



October 2020 Ice Storm & Recovery

Oklahoma

Date:	October 26-29, 2020 – Recovery ongoing
Event:	FEMA DR-4575-OK Historic early season ice storm, Governor declared a state of emergency in 47 of 77 counties.
Damage:	Critical infrastructure back to normal operations. 149 injuries & 1 death reported.
Key operational activities:	DEQ – water & wastewater systems returned to normal operations; still inspecting, registering, & monitoring emergency debris sites.
Agencies Involved:	Local (City/County) Emergency Managers Office of Emergency Management Oklahoma Department of Environmental Quality Oklahoma National Guard
Major lessons learned:	Additional hazard mitigation needed & partnerships developed.



Affected area



Icing & damage



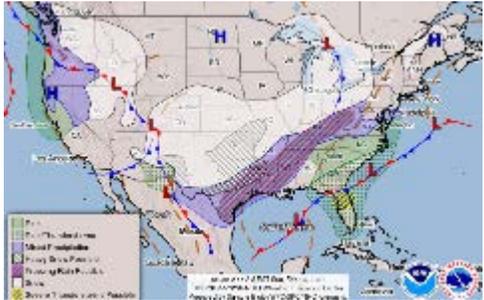
Aftermath



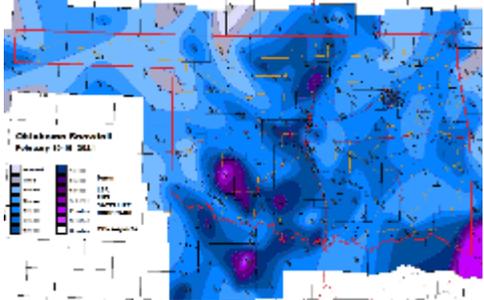
February 2021 Severe Winter Storms

Oklahoma

Date:	February 8-20, 2020 – Recovery ongoing
Event:	FEMA DR-4587-OK Historic winter storm, heavy snow, weeks of sub-zero temperatures.
Damage:	Electric, gas, water, & wastewater utilities sustained damage & 1 refinery damaged. Rolling black-outs with no notice to critical infrastructure entities caused additional damage.
Key operational activities:	DEQ – 255 public water supplies (PWS), 30 public wastewater systems (WWT), & 1 refinery damaged. 110 precautionary boil orders issued. Currently – 4 PWS & 3 WWT systems are still experiencing effects of heavy damage & long-term repairs are underway. Other infrastructure back to normal operations.
Major lessons learned:	Partnerships developed after the October 2020 Ice Storm improved communication & coordination efforts during this event.



Affected area



Historic snowfall

Lowest Wind Chill by Station, Mesonet, since 1997

Site	Date	Wind Chill (F)
Medford	2/10/2011	-47
Cherokee	2/10/2011	-40
Marshall	2/10/2011	-39
Breckenridge	2/10/2011	-38
Blackwell	2/10/2011	-38
Redrock	2/10/2011	-38
Newata	2/10/2011	-38
Pryor	2/10/2011	-38

Historic wind chill



Metrics/Trends/Challenges

Oklahoma

Since the last meeting...

DEQ complaints

1,720

DEQ spills

114

DEQ fishkills

16

Referred complaints & spills

117





Accomplishments

Oklahoma

Training

Description	Dates
EPA Hazard Mitigation – Why Now?	December 10, 2020
WSP – Environmental Case Presentation	January 13, 2021
WSP – Environmental Case Presentation	February 24, 2021

Exercises/Workshops

Description	Dates
WebEOC Exercise	November 19, 2020

Fed/State/Local planning and coordination efforts

Description	Dates
Oklahoma Water Alliance Utilization in Emergency Response	November 2020
OEM State Hazard Mitigation Meeting	November 19, 2020 & February 13, 2021



Outlook

Oklahoma

Training

Description	Dates
Emergency Response Training	May 11, 2021

Exercises/Workshops

Description	Dates
WebEOC Exercise	May 20, 2021
Water Focused Field & Lab Exercise	June 2021
WebEOC Exercise	August 19, 2021

Fed/State/Local planning and coordination efforts

Description	Dates
Oklahoma Water Alliance Utilization in Emergency Response	Ongoing
DEQ – OEM Public Water Dashboard on WebEOC Platform	Ongoing

State Report Outs



RRT-6 Spring 2021 Meeting

05/06/2021

Railroad Commission of Texas



PRIMARY	RRC	Peter	Pope	peter.pope@rrc.texas.gov
ALTERNATE	RRC			TBD



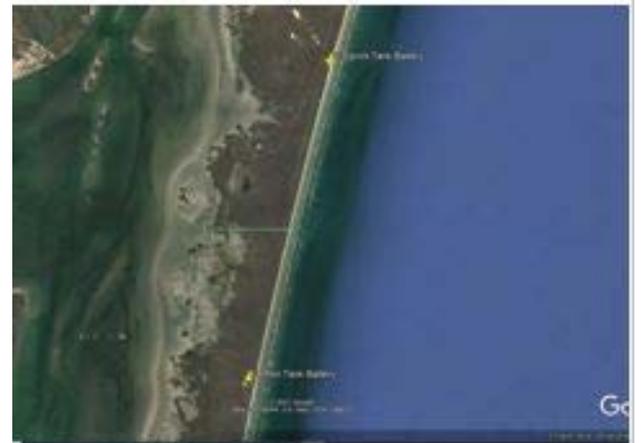
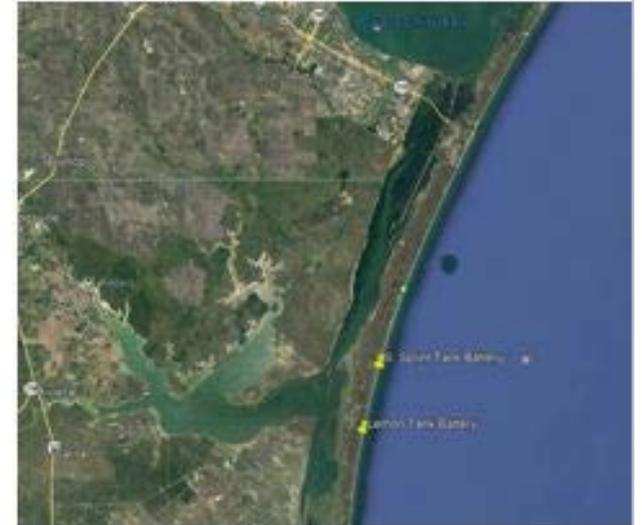
Personnel Changes

Agency	Role	Incoming Name	Outgoing Name
Railroad Commission of Texas	None to report		



Padre Island Nat'l Park

Date:	February – April, 2021
Type and amount of product spilled:	Not applicable. Preventative action. Plugging orphaned wells (11), removing surface equipment and waste (4).
Cause of spill:	No evidence of past spillage into the surrounding area.
Key operational activities:	Sensitive area, NPS coordination, turtle training, constructed temporary driving surfaces (mats).
Agencies Involved:	RRC, National Park Service, RESTORE funds.
Major lessons learned/Challenges:	Cost projections, coordinating mat usage between plugging and cleanup contractors, tides.



Padre Island



United States Department of the Interior

NATIONAL PARK SERVICE
Padre Island National Seashore
P.O. Box 181300
Corpus Christi, TX 78480-1300



Federal, State, and Migratory Bird Treaty Act Species of Concern

Federally Listed Species at Padre Island National Seashore					
Common Name	Scientific Name	Federal Status	State Status	County Occurrence	Notes
Reptiles					
Green Sea Turtle	<i>Chelonia mydas</i>	T	T	Kle, Ken, Wil	Occurs in the park
Hawksbill Sea Turtle	<i>Eretmochelys imbricata</i>	E	E	Kle, Ken, Wil	Occurs in the park
Kemp's Ridley Sea Turtle	<i>Lepidochelys kempii</i>	E	E	Kle, Ken, Wil	Occurs in the park
Leatherback Sea Turtle	<i>Dermochelys coriacea</i>	E	E	Ken	Occurs in the park
Loggerhead Sea Turtle	<i>Caretta caretta</i>	T	T	Kle, Ken, Wil	Occurs in the park

T = Threatened, E = Endangered
Kle = Kleberg County, Ken = Kenedy County, Wil = Willacy County

Padre Island



Padre Island



Padre Island



Padre Island

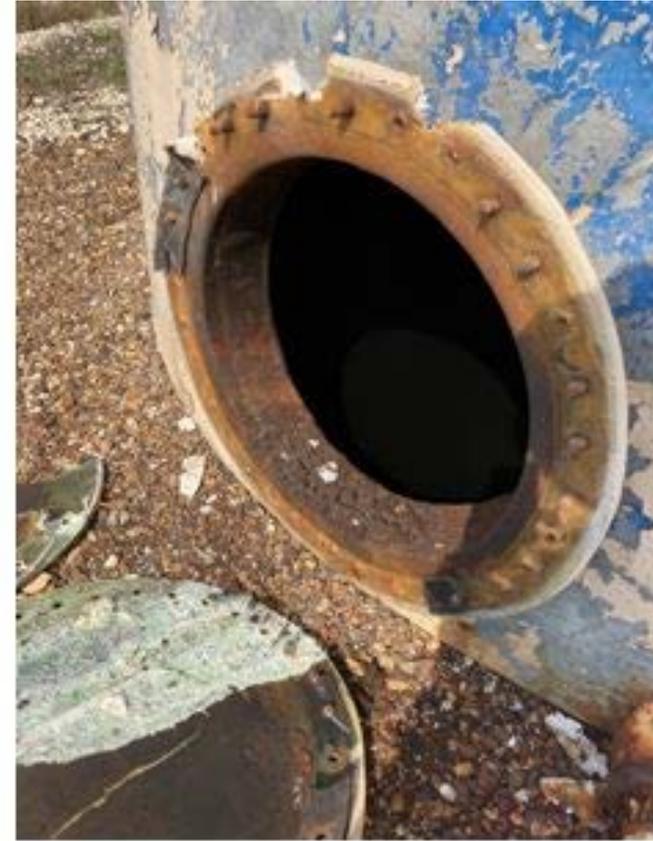


McCAMPBELL DUNN WELL 4A





Padre Island





Padre Island





Padre Island





Metrics/Trends/Challenges

Texas

FY 21 Oilfield Cleanup Program Work Plan

Plugging

Goal - 1,400 plugged wells

Performance – 1113 as of 4/22/2021

Cleanup

Goal - 230 completed activities

Performance – 159 as of 4/26/2021

FY 21 is Sept 1, 2020 through August 31, 2021



State Report

Jimmy Martinez - Primary
Steve Buschang - Alternate



RRT-6 Spring 2021 Meeting

May 6, 2021





Executive Summary – TGLO Oil Spill Program September 2020 to Current

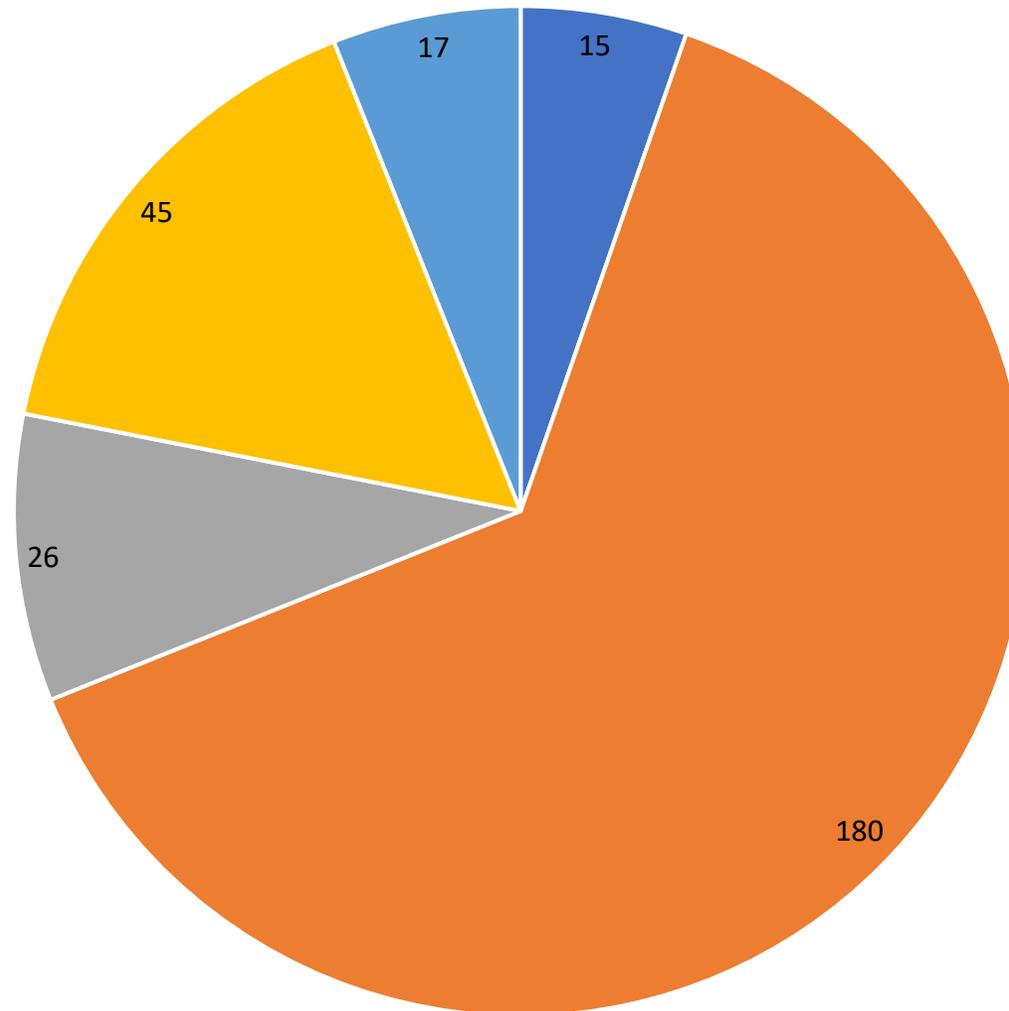
- The Oil Spill program continues to protect the coastal environment by promoting and enforcing the Oil Spill Prevention and Response Act during the COVID 19 pandemic.
- Compliance efforts continue to be modified to address pandemic safety protocols for both Oil Spill and OSPRA regulated community personnel. Staff conduct audits and inspections via telephone, using electronic media including Zoom, Teams and FaceTime, when physical distancing is not possible.
- Industry has cooperatively adapted to new methods of ensuring compliance to fulfill that our mutual goals are met in an environment that's safe for both parties.
- Spills continue to receive a physical response unless determined unsafe.
- The Oil Spill program is actively removing derelict vessels from Texas coastal waters using money allocated during the 2019 legislative session.





**Texas Spill Responses
FY 2021-1st Half
Sept. 1, 2020-Feb. 28, 2021**

**283 On Site Responses
Includes Drills,
Threats, Non
Jurisdictional Calls and
No Spill Found**



■ Drill

■ Spill Found

■ Threat

■ No Spill Found

■ Non JD by GLO

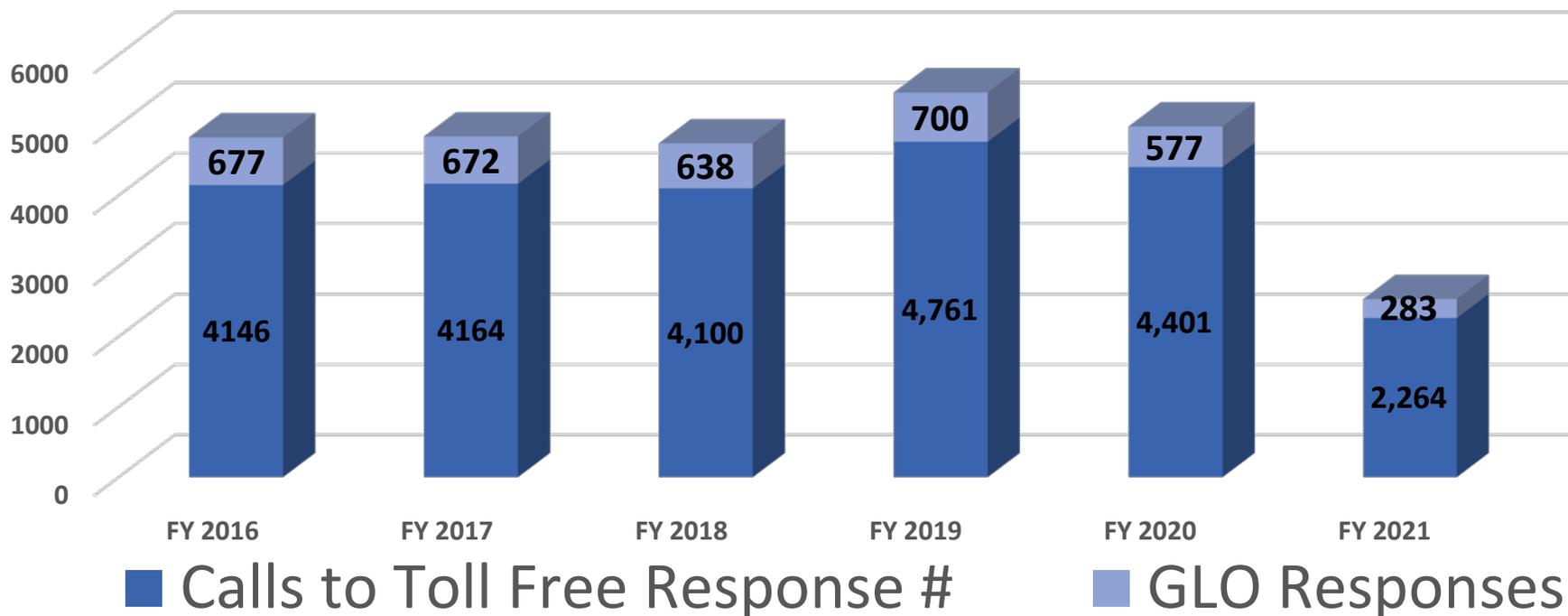
Texas General Land Office
George P. Bush, Commissioner



Historical Trends

Texas Spill Reports & Spill Responses FY 16-21 to 2/28/21

During FY 2020, the number of statewide calls to the TGLO response line was reduced by 360 calls, about 10 percent. The reduction was seen almost all within the 3rd and 4th quarters when the pandemic hit Texas, as well as when the state experiences markedly reduced per barrel prices. Statewide spill calls are 5 percent above target for first half; however, TGLO responses are only slowly increasing as transfers and traffic increase.



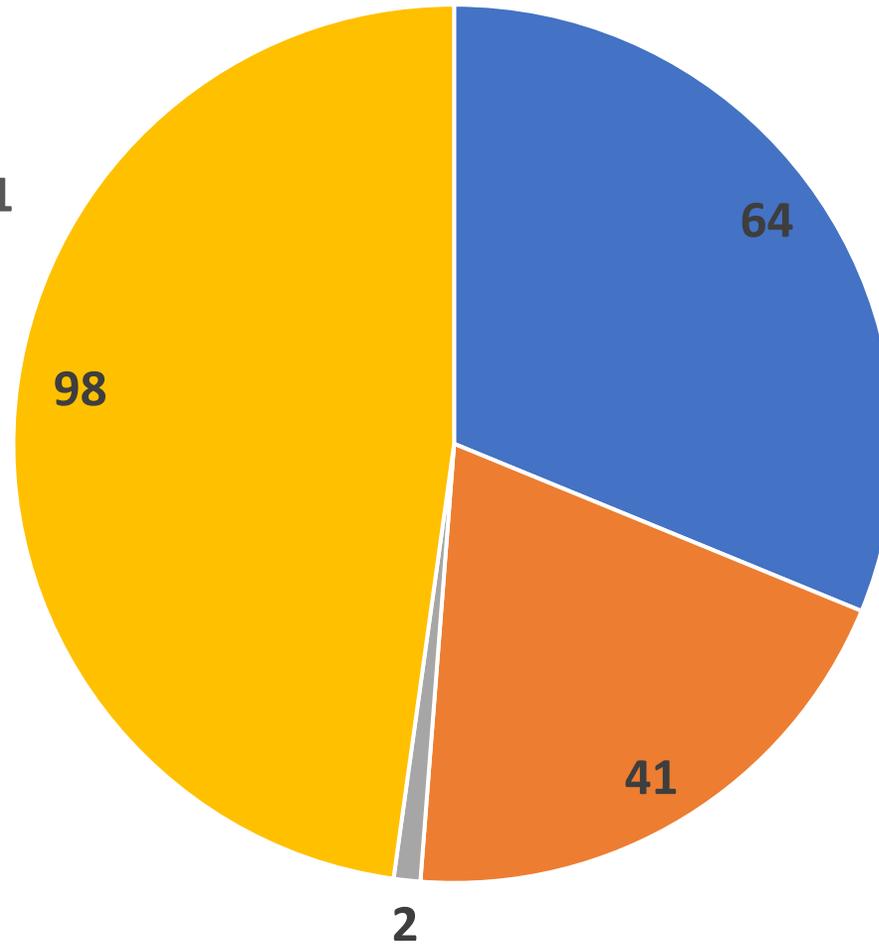


Texas Spill Sources

September 1, 2020-February 28, 2021
FY 2021-First Half

205 Responses

NOTE: Includes only Threats and Spill Found – Does NOT include No Spill Found



■ Vessels

■ Facilities

■ Other

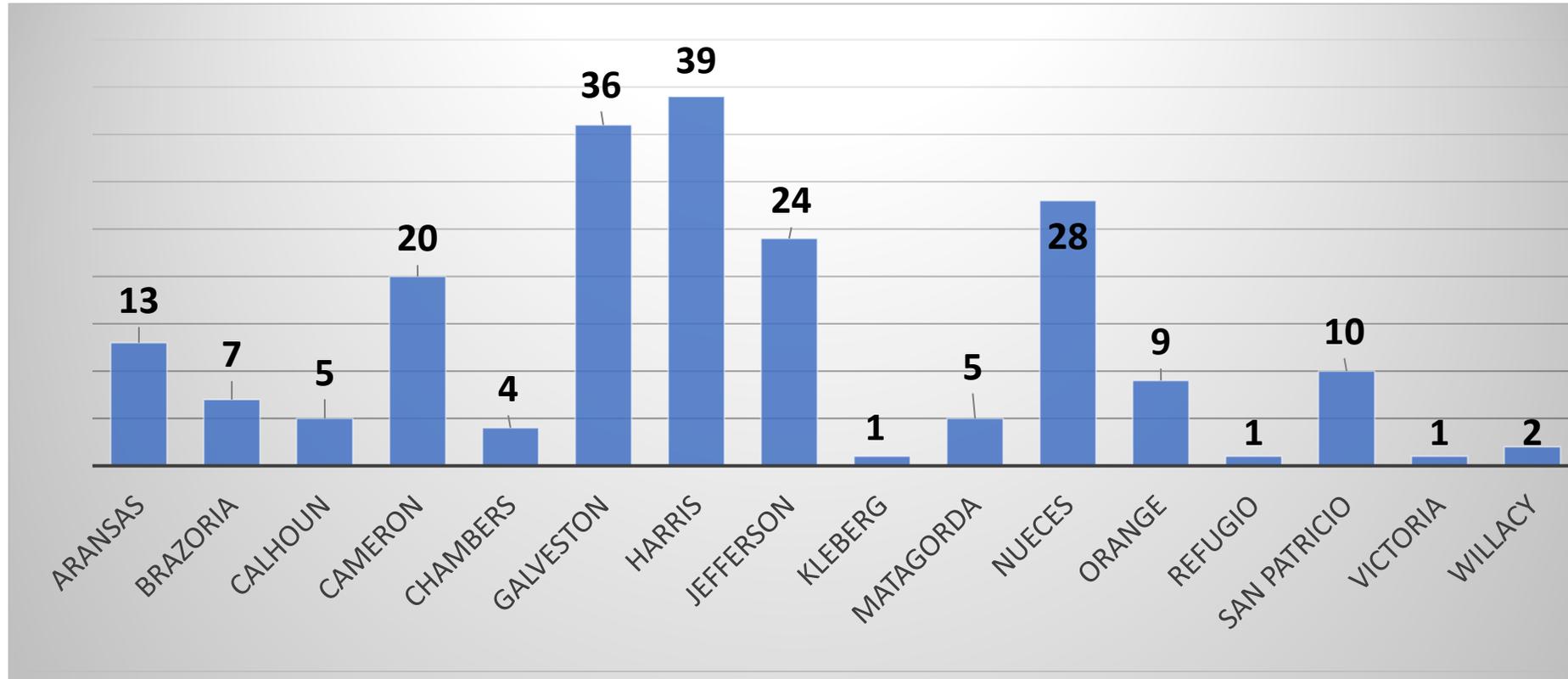
■ Unknown

Texas General Land Office
George P. Bush, Commissioner



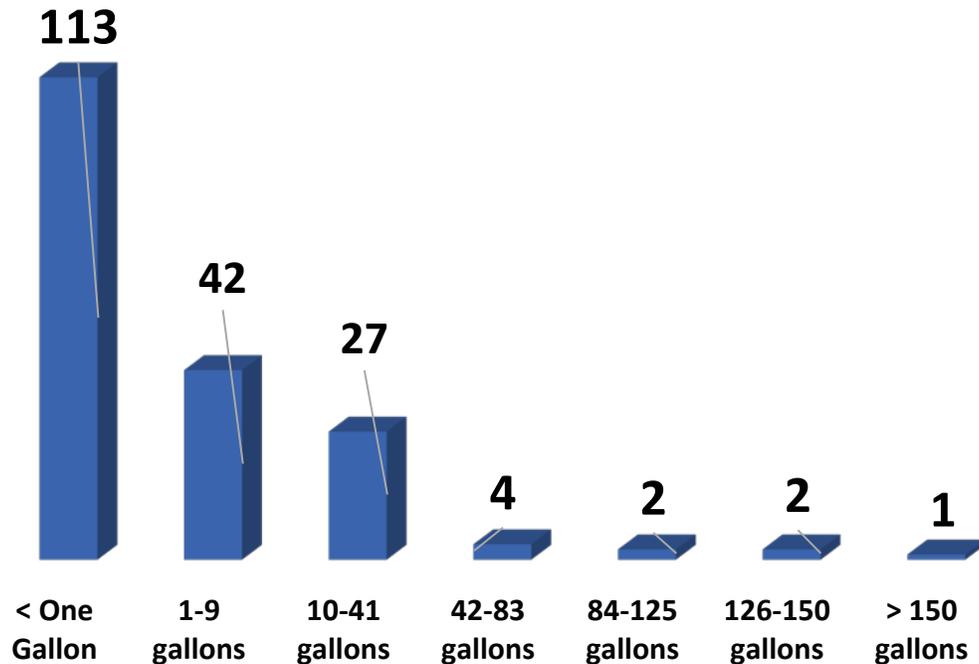
Texas Spill Locations

September 1, 2020 to February 28, 2021





FY 21 to date - GLO Jurisdiction Significant Spill Amounts



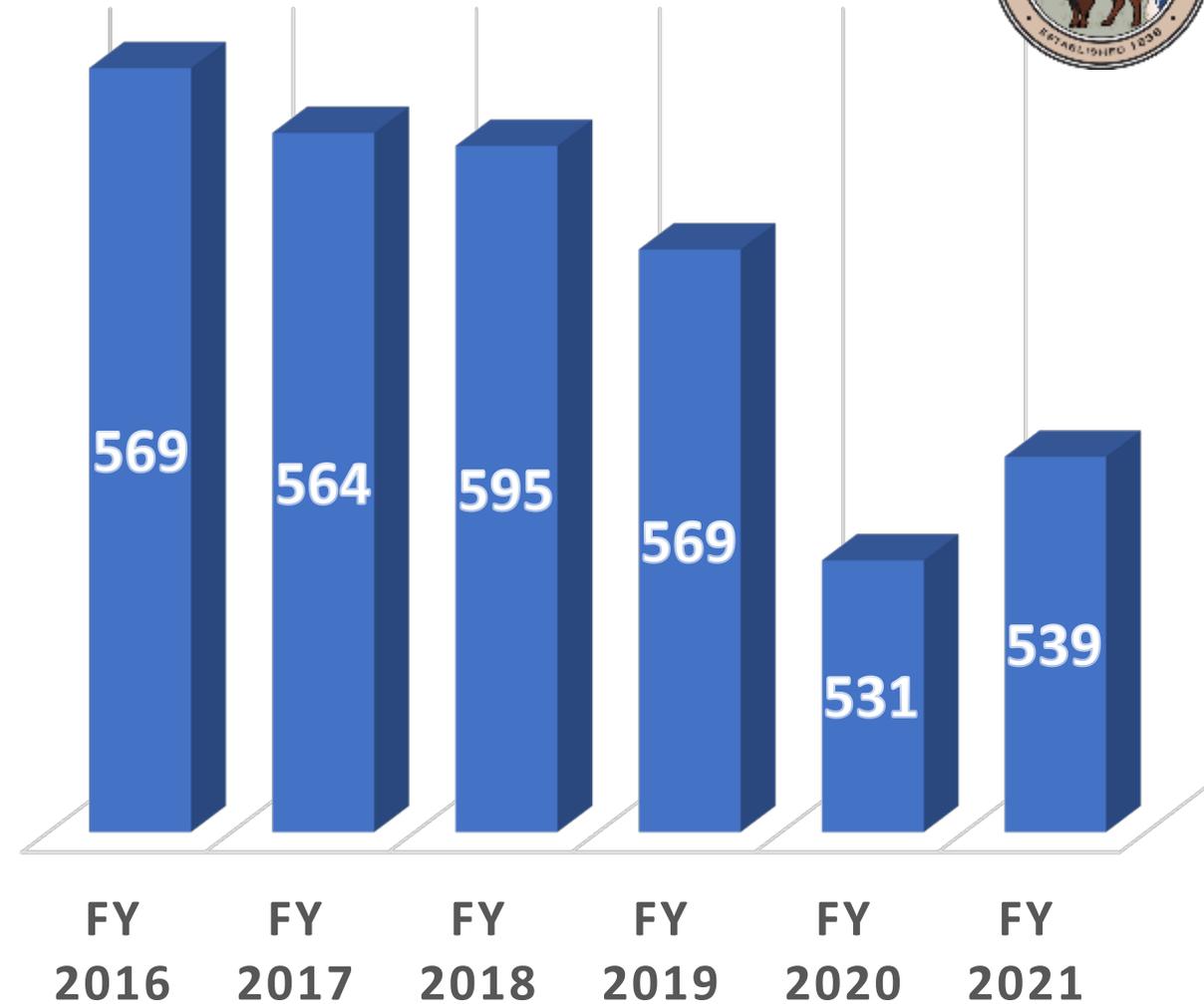
Only one spill of more than a barrel has taken place since 2021 began, but smaller spills between 1 gallon and 2 barrels have increased.

Incident Date	Source	County	Water Body	Amount in Water
1/11/21	Vessel	Cameron	Gulf of Mexico	2850
10/10/20	Vessel	Jefferson	Sabine-Neches Ship Channel	150
12/26/20	Unknown	Galveston	Gulf of Mexico	126
10/25/20	Vessel	Jefferson	Neches River	120
10/9/20	Other	Jefferson	Neches River	100
8/24/20	Unknown	Nueces	Gulf of Mexico	63
10/22/20	Facility	Orange	Cow Bayou	56
11/27/20	Vessel	Galveston	Galveston Bay	50
9/1/20	Unknown	Nueces	Gulf of Mexico	44



General Land Office Oil Spill Certified Facilities Fiscal Years 2016-2021 to date

- Notably, the facility number doesn't quantify the number of consolidations we've had for certified facilities as well as the increase in storage capacities





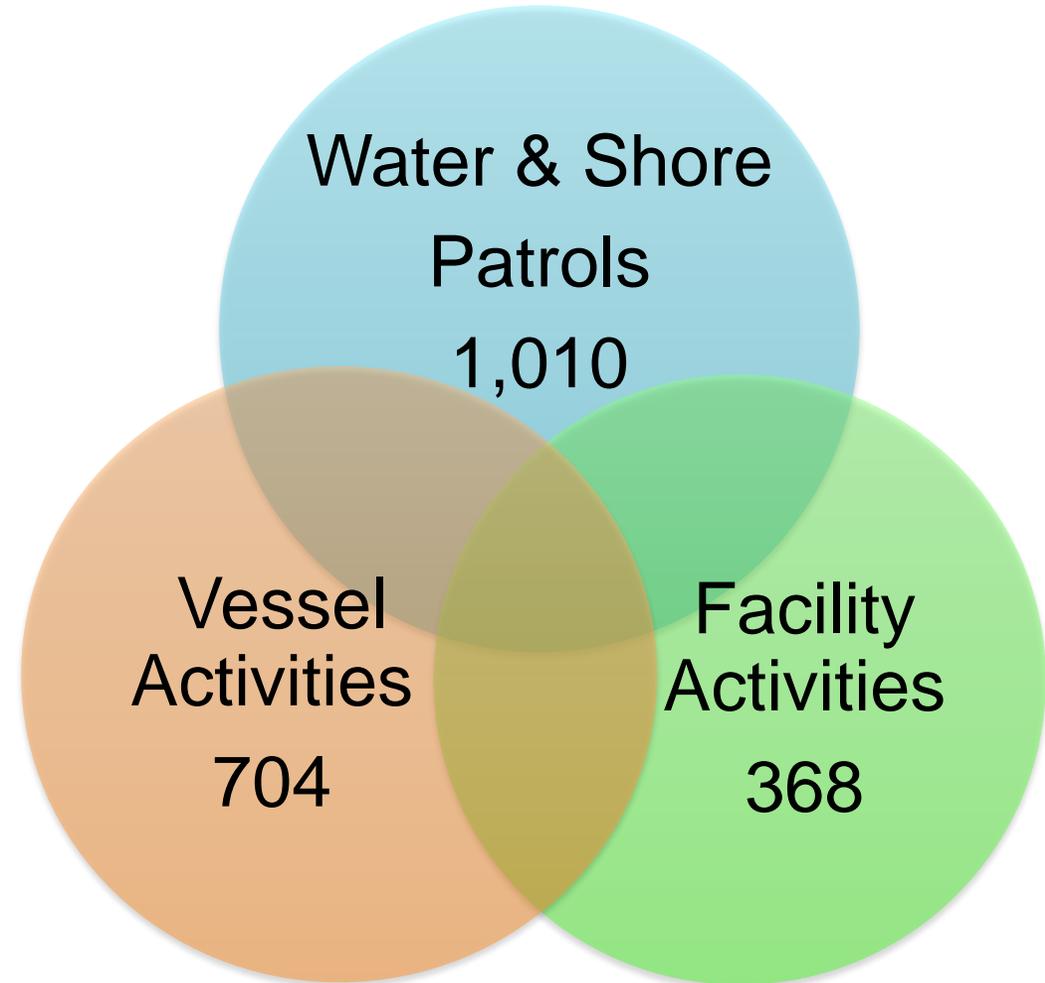
Texas Prevention Efforts

September 1, 2020-February 28, 2021



- Overall slowdown/pandemic protocols have slowed compliance efforts but business is picking up.

Mar. 1 - April 19	#
Patrols	250
Vessel Activities	284
Facility/DCO Activities	132





Oil Spill Vessel Removal Programs



The Oil Spill program coordinates opportunities to remove pollution and pollution threats by removing derelict vessels, in partnership with other agencies and by securing removal funds.

Vessel Turn in Program (VTIP) (as of March, 2021)

Date	County	Total Event Relinquishments	Total Event Footage	Total Program Relinquishments	Total Program Footage
Nov-20	Galveston County	83	1529	878	14,615.50
Mar-21	Brazoria County	39	598	917	15,213.50





SB 500 Vessel Removal Progress



Round 1

- **34 vessels** were removed and destroyed from the Houston/Galveston and Victoria/Port Lavaca areas during October-December, 2020 at a cost of \$726,000.

Round 2

- **21 vessels** are targeted for removal from the Corpus Christi and Brownsville areas at cost of \$264,764.
- All vessels in the Corpus Christi area should be removed by the last week of April.
- Upon completion of the Corpus Christi removals, operations will move to Brownsville for the removal of nine vessels.

Round 3

- **52+ vessels** are identified from all areas of the coast and were included in the final round of SB500 removals.
- The final RFP was issued and a vendor selected; removals will commence when final paperwork is complete.
- Round 3 will include up to seven vessels from the Port Arthur/Beaumont area.
- The total estimated cost to remove all 52+ vessels is more than the remaining budget. The RFP is written to allow targeted removal of specific vessels to maximize use of all SB 500 funding without going over budget.





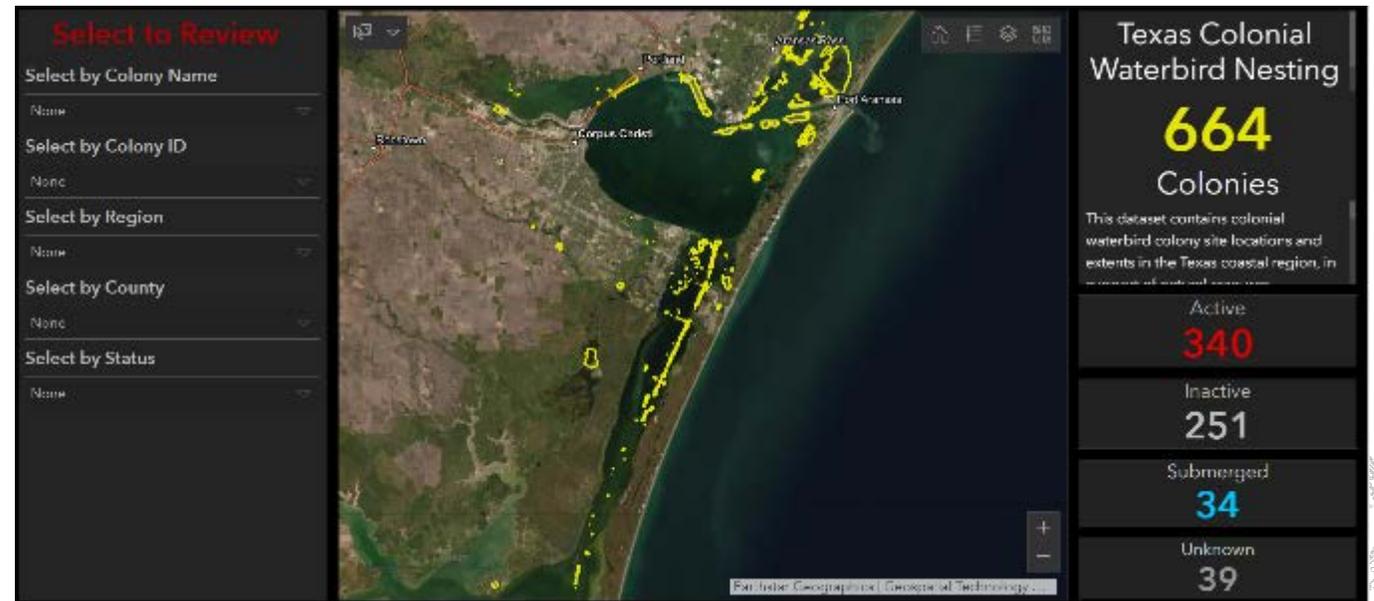
Oil Spill R&D/Scientific Support brief



FY2020-2021 R&D Projects

GLO Research and Development Report

- Project delays due to pandemic but most are accelerating their efforts in the remaining months of cycle
- Deliverables on updated ESI and data products for our GIS Oil Spill atlas and Toolkit.
 - RARs predeveloped for bay systems and nearshore waters
 - BMPs for same areas
 - ESI shoreline for impacted areas of Hurricane Harvey
- Offshore Structure Inventory updating
- Incremental updates to ESI layers
- Rookery Islands LiDAR data layer





Oil Spill R&D/Scientific Support brief



GLO Research and Development Report

FY2022-2023 R&D Projects

- RFA Closed March 5th · Funding should be approximately \$2.4 million for 2 years
- 20 Projects for funding have been received request just over \$5.7 million
- Evaluations beginning soon.

Operational Projects

- Continued Tarball Identification Similarity Project
- Continue incremental updates to ESI data
- Continue Funding Modeling for Texas Bays and Shelf currents
- Develop new website bringing all GLO Oil Spill Products to one place
- TABS Buoy Systems





Accomplishments

Texas



Training

Description	Dates
You Don't Know what you don't Know Remote Sensing, GIS, and Modeling in Texas: Remote Sensing, GIS, and Modeling in Texas	June 25.2020

Exercises/Workshops

Description	Dates
South Texas BP Exercise	December, 2020
GIUE E Squared Marine Channelview (Region 2)	January 28, 2021
Port of Brownsville Response Drill	January 28, 2021
NDOW Annual Training Comms Exercise	April, 2021
USCG GIUE – ITC Deer Park	April 29, 2021

Fed/State/Local planning. Presentations and coordination efforts

Description	Dates
Fulton Harbor Surge Ops (Region 3)	January, 2021
CTCAC (Region 2)	February 4, 2021
Bahia Grande Hydrologic Restoration Project (Corpus Christi/Region 4)	February 5, 2021
Texas City Plant Managers Quarterly Meeting (Region 2)	April, 2021



Outlook

Texas



Training

Description	Dates
2021 IOSC Short Course: “An Introduction to the Environmental Unit (EU) for Non-EU Personnel” Trumbull, Tarpley, Doelling Buschang	May 10-13, 2021
2021 IOSC Paper: “RESOURCES AT RISK: MAKING THE MOST OF THE ICS 232 FORM”, H. Dubach/Buschang	May 10-13, 2021
Oil Spill Training Academy	May, 2021

Exercises/Workshops

Description	Dates
Energy Transfer Tabletop Exercise	June, 2021

Fed/State/Local planning and coordination efforts

Description	Dates
Hurricane Planning Efforts	
Oil Spill On-line Toolkit Update: 22 nd edition	November 2020
Deepwater Port Application process : Risk Assessment	

Questions

State Report Outs



RRT-6 Spring 2021 Meeting

00 XXX 2018



Texas



PRIMARY	TCEQ	Anthony	Buck	anthony.buck@tceq.texas.gov
ALTERNATE	TCEQ	Tom	Erny	Tom.Erny@tceq.texas.gov



Executive Summary

Texas



Challenges-	Wintergeaddon Several large events Mercury Mercury Mercury COVID-19
Lessons Learned-	Continue to improvise and adapt and overcome
Best Practices-	Keep in touch with your Local, State, and Federal partners



Personnel Changes

Texas



None to report



Winter Storm Uri

Texas



Date:	February 13-17 2021
Type and amount of product spilled:	Various small spills with most of the concerns being drinking water and wastewater
Cause of spill:	Massive Winter Storm causing hundreds of water outages across the State
Key operational activities:	Water, wastewater, with some spill issues
Agencies Involved:	Everyone
Major lessons learned:	We need to be more aggressive on winterizing critical infrastructure Many of our employees were responding while being affected by the storm themselves





Victoria Diesel Spill

Texas



Date:	February 21, 2021
Type and amount of product spilled:	Red dyed Diesel 18,094
Cause of spill:	Undetermined Somehow a valve was left open on a FRAC Tank
Key operational activities:	Regulatory Oversight and sensitive area surveys
Agencies Involved:	TDEM, TXDPS, TPWD, NOAA, EPA, and local jurisdictions
Major lessons learned:	Putting forth proper response strategies in a timely manner





Advanced Foam Fire

Texas



Date:	February 25, 2021
Type and amount of product spilled:	Firefighting water runoff Approximately 10,000 Gallons into the Trinity River with approximately 60,000 Gallons collected
Cause of spill:	Industrial Fire
Key operational activities:	Regulatory oversight with State lead runoff protection
Agencies Involved:	TCEQ, EPA, and local jurisdictions
Major lessons learned:	Communications with PRP Ensure proper procedures are followed





Metrics/Trends/Challenges

Texas



1665 ER Spill Reports entered November to April

501 Environmental Complaints entered November to April

Tier 2 78,312 total facility reports (75,083 Annual reports and 3,229 Initial reports)

31 of them being Agriculture Ammonium Nitrate



Laws/Regulations/Policies

Texas



There have been a number of Bills filed to overhaul the Texas Power Grid



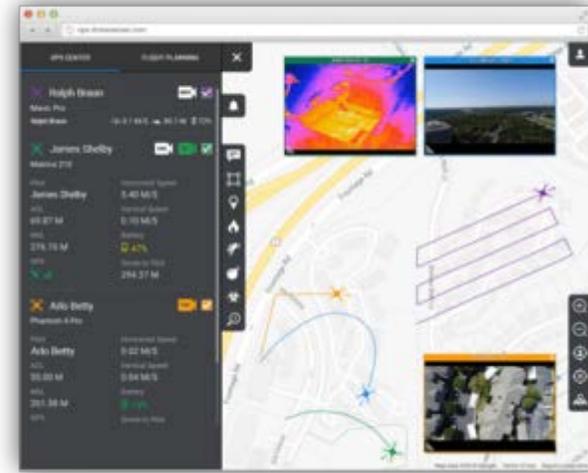
Accomplishments

Texas

UAS Program



TCEQ's new Mini 2 Drone



Mavic 2 Zoom – The Flagship for TCEQ's new UAS Fleet.



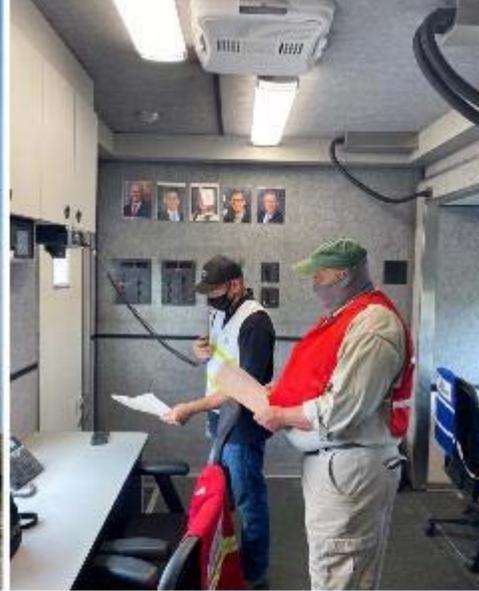
TCEQ's new Autel EVO II Dual Drone w/thermal imaging and 8x Optical Zoom





Accomplishments

Texas



**NDOW
Communications Exercise
April 19-22**



Outlook

Texas



NDOW Hurricane

Exercise

End of July



New Mexico



PRIMARY	NMED	Stephen	Connolly	Stephen.Connolly@state.nm.us
ALTERNATE	NMED	John	Kieling	john.kieling@state.nm.us
ALTERNATE	NMED	Janine	Kraemer	janine.kraemer@state.nm.us
PRIMARY	NMHD			
PRIMARY	NMHSEM	Julie	Jolly	julie.jolly@state.nm.us
ALTERNATE				



Executive Summary

New Mexico

Challenges-	Covid-19, the 2021 Annual SERC Report to the Governor, working at home, 2020 ERG Distro, 2021 HMEP Grant
Lessons Learned-	Getting the ERG out while social distancing and using Zoom to get training out
Best Practices-	Virtual Webinars with Zoom



Personnel Changes

New Mexico

Agency	Role	Incoming Name	Outgoing Name
NM DHSEM	Cabinet Secretary	Bianca Ortiz-Wertheim	Jackie Lindsey



Metrics/Trends/Challenges

New Mexico

COVID-19 continues to be a challenge in 2021 and will probably continue to be a challenge throughout the rest of this year



Laws/Regulations/Policies

New Mexico

- **New Mexico Hazardous Materials Emergency Response Plan (HMER)**
- **Annual Update 28 October 2021**



Accomplishments

New Mexico

Training

Description	Dates
None	

Exercises/Workshops

Description	Dates
2020 Virtual LEPC 101	30 Oct – 1 Nov
2021 HMEP Grant Workshop	8 April 2021

Fed/State/Local planning and coordination efforts

Description	Dates
New Mexico Hazardous Materials Emergency Response Plan (HMER)	28 October 2020
2020 Annual NM State Emergency Response Commission (SERC) Report	Dec 2020



Outlook

New Mexico

Training

Description	Dates
2020 ERG 101 and Updates	Jun 2021

Exercises/Workshops

Description	Dates
LEPC 101	June 2021

Fed/State/Local planning and coordination efforts

Description	Dates
2021 Annual NM State Emergency Response Commission (SERC) Report	Dec 2021

Federal Report Outs



RRT-6 Spring 2021 Meeting

6 May 2021

Region 6 Tribes



FEMA

Primary	US DHS / FEMA	Shannon	Moran	Shannon.moran@fema.dhs.gov
Alternate	US DHS / FEMA	Christine	Hanson	Christine.hanson@fema.dhs.gov
Alternate	US DHS / FEMA			TBD
Alternate	US DHS / FEMA	Kevin	Jaynes	kevin.jaynes@fema.dhs.gov

Executive Summary

Challenges-	<ul style="list-style-type: none">• Continuous activations for 13 months• Staffing shortfalls
Lessons Learned-	<ul style="list-style-type: none">• Acknowledged a need for education and training for our ESF and OFA partners regarding Resource Request Forms and Mission Assignments – specifically, training for writing statements of work, cost estimates, and cost breakdowns.• Utilized non-traditional capabilities within the federal family to meet the requirements for vaccination campaign.
Best Practices-	<ul style="list-style-type: none">• Virtual platforms

Key Personnel Changes

Role	Incoming	Outgoing
Operations Integration Branch – Emergency Manager	In the process of hiring	Dave Bell
Operations Integration Branch – Team Lead	Amanda Cain	Christine Hanson

Metrics/Trends/Challenges

- Continuous activations for 13 months during which time Region 6 responded to multiple disasters while supporting the vaccine distribution campaign and preparing for the upcoming hurricane season
- 2 states in Recovery
 - Louisiana, last year's multiple hurricanes
 - Texas, Winter Weather

Accomplishments

Fed/State/Local planning and coordination efforts

Description	Dates
Successfully worked with the Parishes and States to develop a post-landfall medical institution evacuation plan (MIEP)	13 April 21

Outlook

Training

Description	Dates
Hurricane Readiness virtual training event	04-06 May 21

Exercises/Workshops

Description	Dates
RRCC Exercise	8 June 21 (tentative)

Fed/State/Local planning and coordination efforts

Description	Dates
Planning and Operations informal hurricane brief to ESF partners	04 May 21
Regional Interagency Steering Committee Meeting (RISC) – Hurricane focused	18 May 21



CISA

Primary	U.S. DHS	Steven	Shedd	Steven.Shedd@cisa.dhs.gov
Alternate	U.S. DHS	Shawn	Perceful	Shawn.a.Perceful@cisa.dhs.gov



Executive Summary

Challenges-	<ul style="list-style-type: none">• Regional (field) ALAN access (current firewalls & policies on both sides prohibitive)
Lessons Learned-	
Best Practices-	<ul style="list-style-type: none">• Continued coordination and information sharing• Crosswalk with EPA lists• Safely restart inspection process and in-person engagements



Key Personnel Changes

Role	Incoming	Outgoing
Title change	Office of Chemical Security	ISCD
Title change	Cybersecurity & Infrastructure Security Agency (CISA)	National Programs and Protection Directorate (NPPD)
Title change	Chief of Chemical Security	Chief of Regulatory Compliance



Metrics/Trends/Challenges

- Naming conventions for facilities regulated under multiple authorities/agencies.



Laws/Regulations/Policies

- Chemical Security Voluntary Program
- Hurricane preparation and notifications to CFATS facilities to maintain security measures and communicate changes
- Cyber Security Awareness and Directives
- Monitoring facilities during COVID-19 to maintain compliance of security measures



Accomplishments

Fed/State/Local planning and coordination efforts

Description	Dates
LEPCs	Throughout the year
Joint Chemical Security Regional Hurricane EX	Annual
FEMA Response ESF Discussions	May 2021



Outlook

Training

Description	Dates

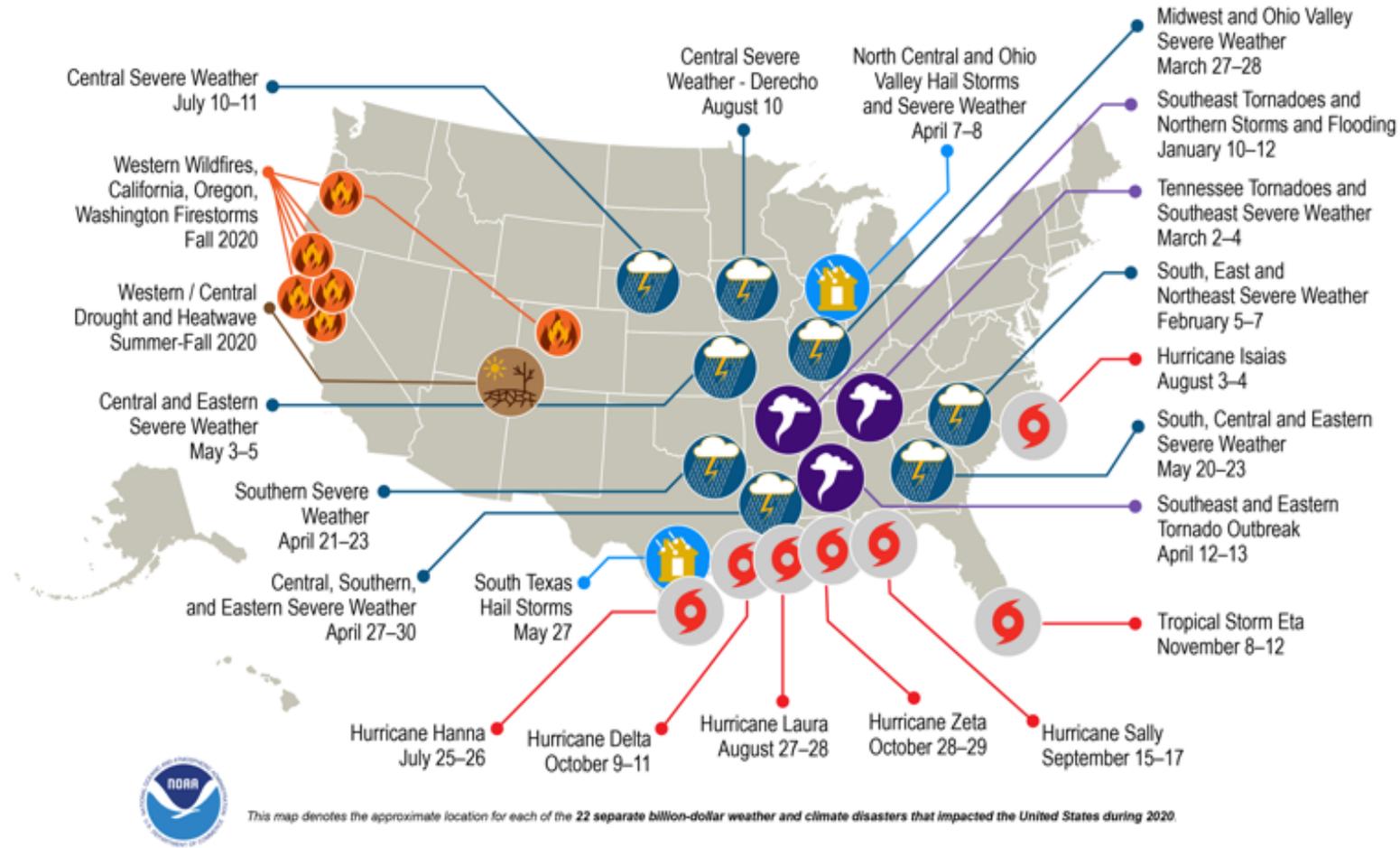
Exercises/Workshops

Description	Dates
Active Shooter Preparedness	June 2021
Region VI and IV Hurricane TTX	June 2021

Fed/State/Local planning and coordination efforts

Description	Dates
LEPCs	Throughout the year
Joint Chemical Security Regional Hurricane EX	Annual

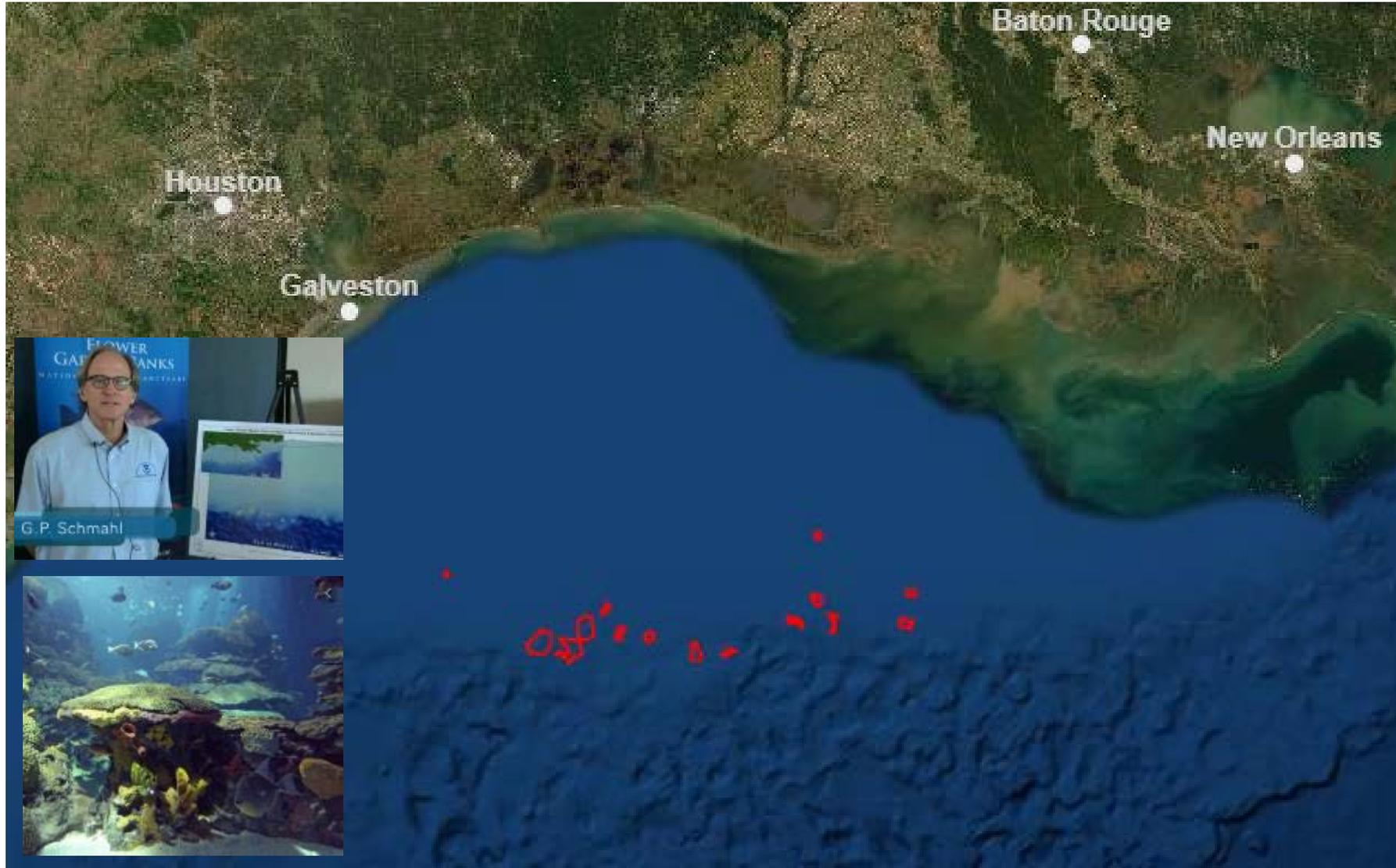
U.S. 2020 Billion-Dollar Weather and Climate Disasters



Alternate	U.S. DOC -- NOAA	Paige	Doelling	paige.doelling@noaa.gov
Primary	U.S. DOC -- NOAA	Charlie	Henry	charlie.henry@noaa.gov
Alternate	U.S. DOC -- NOAA	Brandi	Todd	brandi.todd@noaa.gov



NOAA Flower Garden Banks NMS Expanded 22 March 2021



56 square miles to 160 square miles

Federal Report Outs – Department of the Interior (DOI)



RRT-6 Spring 2021 Meeting



DOI Primary, Alternate, Backup	REO – Albuquerque REO – Denver REPS – Denver	Susan King Courtney Hoover Glenn Schroeder	susan_king@ios.doi.gov courtney_hoover@ios.doi.gov glenn_schroeder@ios.doi.gov
BSEE – GOM	Senior Preparedness Analyst	Gary Petrae	gary.petrae@bsee.gov
FWS-Spill Response	National Spill Response Coordinator/EPA R6 advisor	Barry Forsythe	barry_forsythe@fws.gov
FWS-Spills/Contam	Regional Contaminants NM, TX, OK/Regional LA, AR	Lynn Wellman Rob Tawes	lynn_wellman@fws.gov robert_tawes@fws.gov
FWS-TX	Spill Response/ESA- Coast, Inland	Denise Ruffino Erik Orsak Heather Biggs	denise_ruffino@fws.gov erik_orsak@fws.gov heather_biggs@fws.gov
FWS-OK	Spill Response/ESA	Susanne Dunn Jonathan Fischer	suzanne_dunn@fws.gov jonathan_fischer@fws.gov
FWS-NM, AR	Spill Response/ESA	Lynn Wellman Melvin Tobin	lynn_wellman@fws.gov melvin_tobin@fws.gov



FWS-LA SE	LA Oil & Gas, SE Refuges	Jimmy Laurent Chelsea Stringfield	jimmy_laurent@fws.gov chelsea_stringfield@fws.gov
FWS-LA SW	LA Oil & Gas Specialist, SW Refuges	Patrice Betz	patrice_betz@fws.gov
FWS-LA ESA	LA- Endangered Species	Brigette Firmin	brigette_firmin@fws.gov
FWS-GOM	Senior Biologist, Interior Region 2-GOM support	Felix Lopez	felix_lopez@fws.gov
Other DOI	NPS BLM BIA	Dave Anderson Terry Gregston Waylon Denny	david_anderson@nps.gov tgregston@nps.gov waylon.denny@bia.gov



Executive Summary

Challenges	<ul style="list-style-type: none">• COVID-19 control measures• TX deep freeze
Best Practices	<ul style="list-style-type: none">• Virtual Compliance Activities: Exercises, Equipment Inspections• Coordination among REO, DOI Field Special Assistant for TX, NPS regarding rescue/recovery of sea turtle cold-stunning



Metrics/Trends/Challenges

BSEE (FY21)

- 71 Oil Spill Response Plans submitted and reviewed
- 0 Government Initiated Unannounced Exercises (GIUEs)
- 33 Equipment preparedness verification inspections (depots)
- 31 Functional or Full-scale exercises evaluated
- 5 Response team training and equipment deployment exercises evaluated
- 9 Incident Management Team training audits

REO Albuquerque

- 2,275 NRC notifications reviewed
- 116 distributed to FWS



Laws/Regs-Endangered Species Act

Final

- Northern Mexican Garter snake, Critical Habitat: SW NM, Apr 2021
- Yellow-Billed Cuckoo, Critical Habitat: Central-SW NM, 1 TX county

Proposed

- Peppered chub, Endangered; and Critical Habitat- NE NM, TX Panh.
- Georgetown salamander, Critical Habitat- Central TX
- Salado salamander, Critical Habitat- Central TX

Other

- Lesser prairie chicken – FWS must make decision on whether to list as Endangered by May 26, 2021- East NM, TX, OK Panhandles



New Proposed/Other



US Fish and Wildlife
@USFWSInfoPlease

Today, peppered chub populations are only found in one river. The Service is proposing to protect the species as endangered & designate approximately 1,068 river miles as critical habitat. The public will have 60 days to review & comment. More: [ow.ly/vRsv50Cymyd](https://www.fishbase.org/species/peppered-chub) @USFWS





Accomplishments

Training/Presentations

Description	Date
FWS- Presentation to EPA R 6 OSCs on FWS services, consultations	May 2021
BSEE- Presentation to NRT-RRT Co-Chairs Virtual Platforms and Inspections/Exercises	May 2021

Exercises/Workshops

Description	Dates
Subsea Dispersant Injection exercises- Incident Specific RRT calls	Nov 2020, May 2021

Fed/State/Local planning and coordination efforts

Description	Dates
Fish, Wildlife and Sensitive Environments Plan, ACP	Continuing
Presidential Memorandum on Improving Tribal Consultations- national DOI consultation sessions, draft implementation plan	Feb-May 2021
BSEE Offshore Response Information for Area Contingency Plans	FY2020 – FY2023
Historic Preservation Working Group, National Response Team, developing national guidance for Spill Response Prog. Agreement	Continuing
In-Situ Burn Incident-Specific RRT Call, South Pass, LA	Jan 2021



Outlook

Training

Description	Dates
DOI Inland Oil Spills course – Denver	FY 2021??
Historic Properties Specialist training, NPS	FY 2022

Exercises/Workshops

Description	Dates
SSDI exercises	Fall 2021, Spr 2022
Natural Resources Damage Assessment & Restoration Seminars	Ongoing

Fed/State/Local planning and coordination efforts

Description	Dates
Fish, Wildlife and Sensitive Environments Plan Working Group	May 2020 - continuing
IOSPP Detail – BLM Archaeologist to lead IOSPP project to improve SHPO/THPO coordination	July 2021-Nov 2021

U.S. Navy Region Southeast





(U) Key Personnel Changes & Points of Contact

N40 Region Environmental Coordinator and Branch Head

John E. Baxter, PE

Direct: +1 904 542 2882 (DSN 942)

Mobile: +1 904 482 8397

john.baxter3@navy.mil

Navy On-Scene Coordinator

Sarah Murtagh

Direct: +1 904 542 8044

NEW Mobile: +1 904 832 0045

Sarah.Murtagh@navy.mil

***Upcoming Job Opening* N45 Environmental Program Manager and Business Line Leader**

Advertisement anticipated week of 26 April

Naval Facilities engineering Command (NAVFAC SE)



(U) Executive Summary

Challenges-	<ol style="list-style-type: none">1. Approval time for landfill causing delays2. Unable to get DOT Oversize load waiver on weekends3. Establishing contact with appropriate LLE agencies in off base incidents in remote locations for site security
Lessons Learned-	<ol style="list-style-type: none">1. Submit press releases through local LE or existing command PAO relationships
Best Practices-	<ol style="list-style-type: none">1. Coordinate with state agencies early in incident2. Determine if affected residents are renters or homeowners and get contact info for both



(U) Metrics/Trends/Challenges

- COVID-19 Restrictions continue:
 - The Navy has been very conservative with reopening in order to protect operational mission
 - Travel is being allowed with individual waivers



(U) Navy OSC Activation

Incident:	T-45 MISHAP_ Orange Grove, TX
Date:	24-31 March 2021
Location:	~1.5 miles North of OLF
Substance / Quantity:	JP-5 / 130 Gal plus hydraulic oil and remnants of ejection seat explosives
Cause:	Investigation Pending
Key Operational Activities:	<ul style="list-style-type: none">- EOD sweep- Aircraft recovery- Sampling and excavation of 90T soil- Property restoration
Agencies Involved:	Coordination with TCEQ, Jim Wells sheriffs office, Navy EOD and Corpus Christi Bomb Squad
Conclusion:	No cultural or natural resource impacts





(U) Accomplishments

Training

Description	Location	Dates
ICS 300	NAS JRB Fort Worth	APR 7-8
ICS 300	NAS JRB New Orleans	APR 19-20

Exercises

Description	Location	Dates
Medium FTX	NAS Corpus Christi	APR 13

* conducted virtually due to COVID-19



(U) 2021 Outlook

Training

Description	Dates
ICS 300 and ICS 400: NAS Corpus Christi	June 2021

Exercises/Workshops

Description	Dates
Small scenario FTX: NAS New Orleans	19 May
Small Scenario FTX: NAS Kingsville	3 June



Questions?





Sector Corpus Christi

Captain Edward Gaynor
Sector Commander



NRC Notifications	RRT Activations	Federal Projects	CERCLA Projects
318	0 Surface Washing Agents 0 In-situ Burns 0 Dispersants	5	1

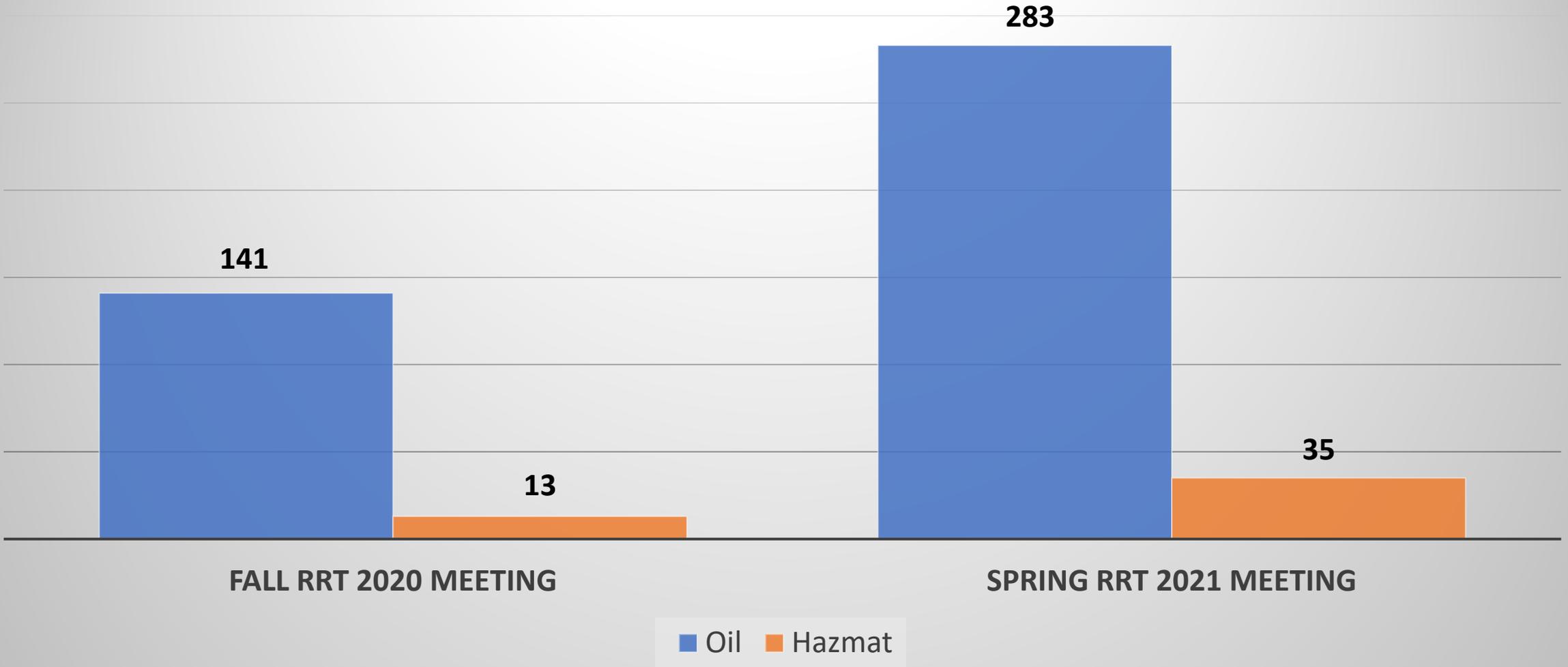


Executive Summary

Challenges-	SEC CC FOSCR continues coverage for MSD Brownsville AOR. Adapting to alternating duty sections due to pandemic while retaining aggressive operational posture. Lost 60% of FOSCRs to advancements and/or transfers.
Lessons Learned-	Gained experience and expertise in virtual IMT planning and operational execution. Increased appreciation for in person communication.
Best Practices-	Establishing and bolstering strong relationships between agencies allowed for effective response throughout pandemic and shortage of personnel.



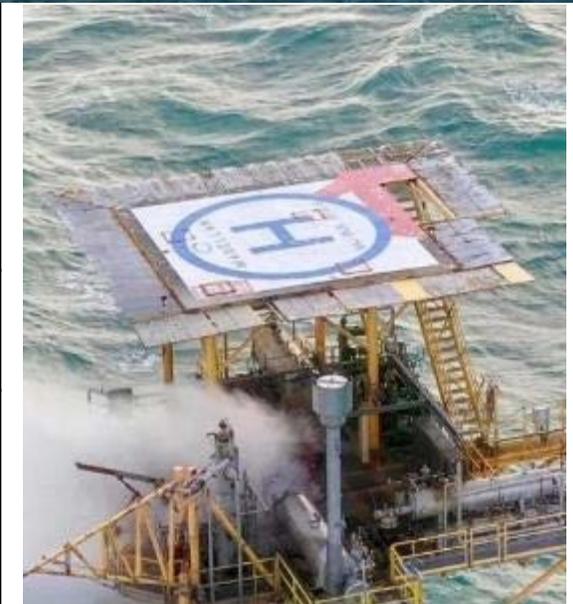
NRC Notifications



RRT Activation / Notification



Date (xx/xx/xxxx):	09/1/2020 – 12/18/2020	Activation	N	Notification	N
Incident Name:	Magellan Mustang Island Well 926				
Location:	Offshore North Padre Island; 27.5664 N 97.1964 W				
Responsible Party:	Magellan				
Type and amount of product spilled:	Natural gas condensate, Amount TBD				
Issue / Concern:	Initial air release on 9/1/2020 in close proximity to heavily populated North Padre Island beach also created sheen on the water. Unknown volume released due to corrosion on platform. After initial attempt to secure, a drone picked up image of new sheen from platform on December 8, 2020. The platform leak was completely secured as of December 18th, by using a mechanical plug.				
Agencies Involved:	USCG, NWS, TGLO, TCEQ, & TRRC				
Decisions Made:	USCG and TGLO personnel conducted a helicopter survey of the well and RRC personnel monitored the release from the shoreline. RP led response with plans to assess and repair platform. Delays due to weather and equipment availability led to longer response times.				





Sector / Air Station Corpus Christi

Mustang Island 926 Platform



Overview:

- Sector CC IMD had been monitoring ongoing Mustang Island 926 platform repair operations since initial air release on 9/1/2020. Weekly conference calls in place.
- The morning of 12/8/20 MQ-9 drone flight observed what was suspected to be sheen originating from the Mustang Island 926 platform. Drone image kick started investigation. Upon investigation it was discovered, as per Magellan's QI, to be a small amount of condensate from well "burp" from the water column in the pipe. USCG MH-65 provided images from overflight. Sector IMD and State Agencies responded on scene and confirmed sheen. No recoverable product.
- Had MQ-9 not captured this image, pollution investigation would not have been started.

Current/ Future Operations:

- Platform repair operations are ongoing. USCG and State Agencies continue to monitor.



MQ-9 captured image. Time: 0530



MH-65 image. Time: 1300



On scene w/ TLGO. Time: 1440



On Scene Fed/ State Partners	
USCG	2
TGLO	2
TRRC	1

Total Discharged	
Estimated Total Discharged	> 1 bbl
Total Sheen Size (On Scene Estimate)	1nm x 400 yds



RRT Activation / Notification

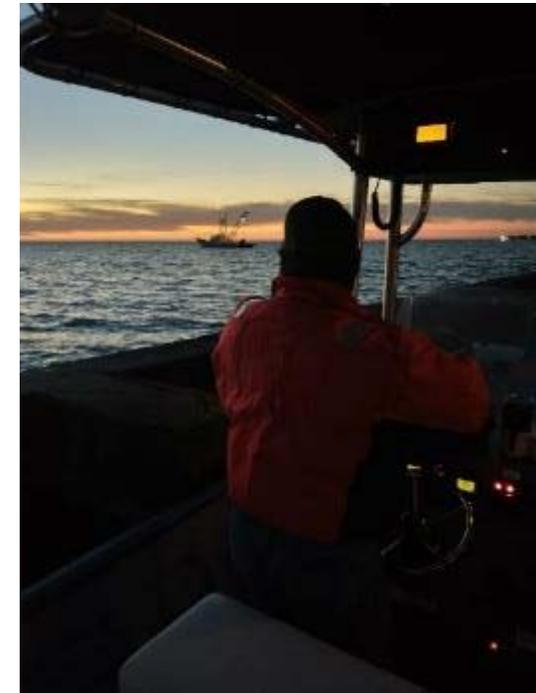
Date (xx/xx/xxxx):	03/25/2021	Activation	N	Notification	N
Incident Name:	Citgo Coker Feed Spill				
Location:	Oil Dock 6				
Responsible Party:	Citgo				
Type and amount of product spilled:	Coker Feed - 3bbls				
Issue / Concern:	Coker feed discharged from transfer hose spraying out at Citgo Dock #6. Thick, black, tar-like product spilled in the water and on the deck of tanker/barge creating recovery challenges. 2 to 3 barrels of coker feed entered into the water and additional product remained on barge.				
Agencies Involved:	USCG, TGLO				
Decisions Made:	Product recovered from water and determined manual recovery was the best option for the hull. Product on deck recovered to remove threat of discharge and allow transit to Bludworth Shipyard. Further cleanups of residual material on the hull and deck were conducted at shipyard.				





RRT Activation / Notification

Date (xx/xx/xxxx):	01/14/2021	Activation	N	Notification	N
Incident Name:	Operation Oily Oyster				
Location:	Fulton Harbor				
Responsible Party:	Multiple vessels				
Type and amount of product spilled:	mystery sheens, bilge oil unknown amount				
Issue / Concern:	Multiple mystery sheens, bilge oil dumps are a continuing cause for concern as multiple cases occur during oyster season. Weekly harpats were conducted to establish USCG/ TGLO presence and educate oyster boat fleet in Fulton harbor, leading up to the surge op, "Oily Oyster".				
Agencies Involved:	USCG, TGLO, TCEQ				
Decisions Made:	11 personnel with 2 state partner agencies and 3 state mobile assets participated. Shoreside and on-water teams monitored an estimated 50 transiting vessels for possible pollution offenses. Op achieved 100% success as there 0 pollution events due to the significant impact of IMD patrols & education mariners on environmental compliance.				



Consultations



Unit	Incident Name	Start Date	Stop Date	With	Phase	For	Response Actions	Species (Common Name)	Type	Federal Listing Status	Critical Habitat at	General Cost	Land Cost	Total Cost
NSTR														



Accomplishments

Since last RRT meeting
5 Nov 2020

Training		Exercises / Workshops		Federal, state, and local planning and coordination efforts	
Description	Dates	Description	Dates	Description	Dates
NDOW	Apr 15	GIUE	Dec 2020	STCZ ACM	Delayed due to winter storm
		Lydia Ann Barge Fleeting Spill Drill	Apr 1		
		GIUE MSD Victoria	Apr 7		

Outlook

Until Next RRT meeting
3-4 Nov 2021

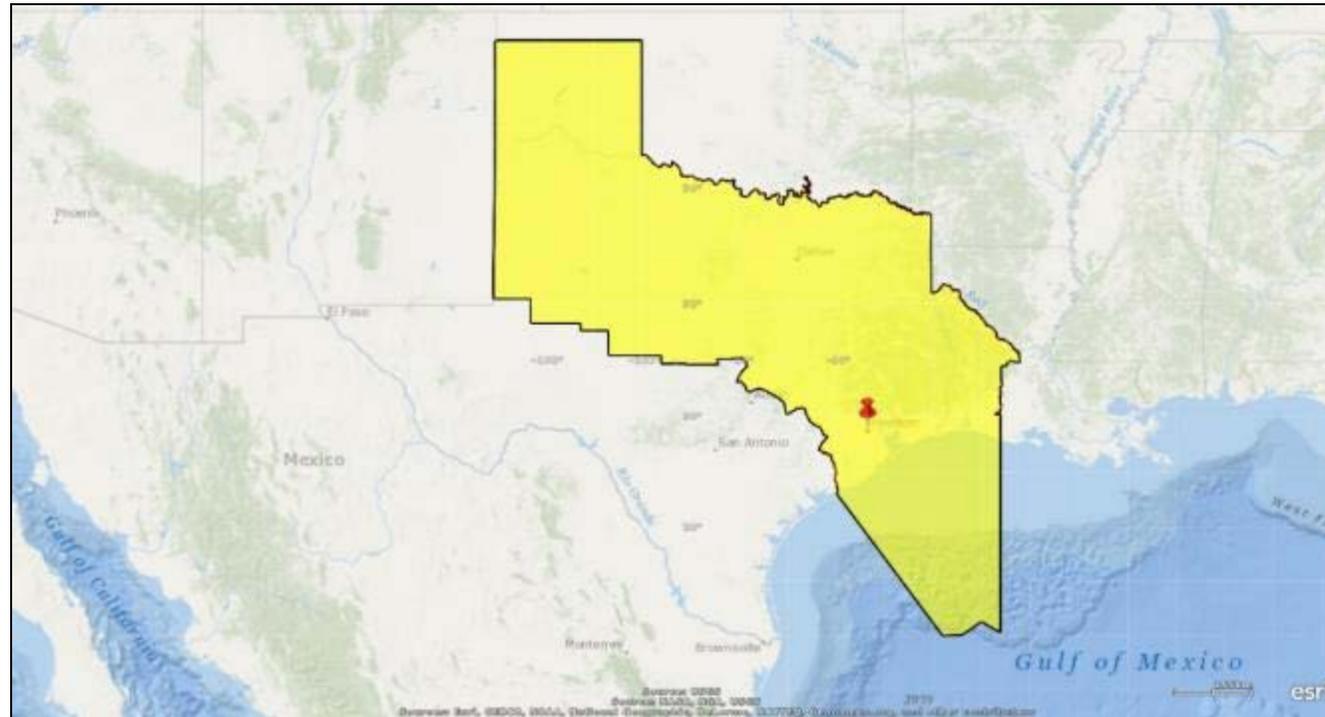


Training		Exercises / Workshops		Federal, state, and local planning and coordination efforts	
Description	Dates	Description	Dates	Description	Dates
IOSC	10-14 May	NDOW Full Scale	Jul 2021	STCZ ACM	TBD



Sector Houston-Galveston

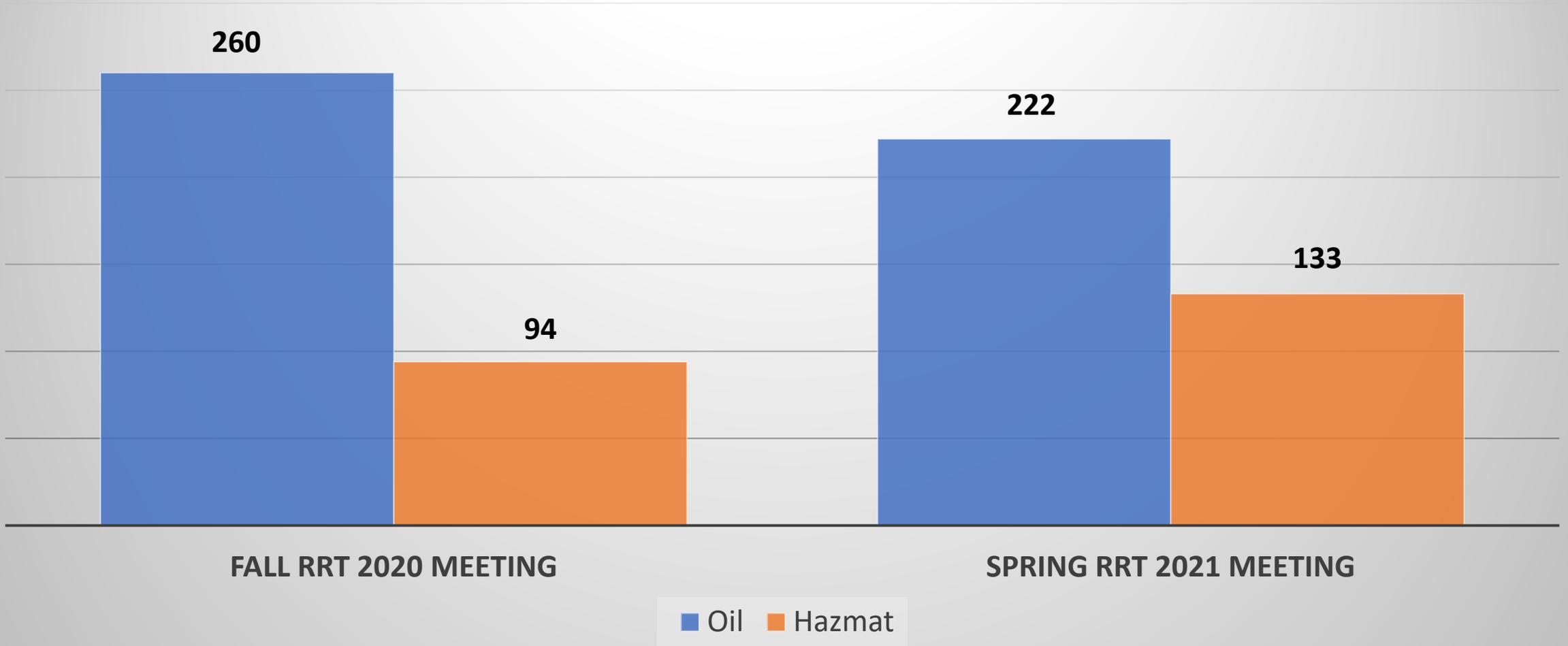
Captain Jason Smith
Sector Commander



NRC Notifications	RRT Activations	Federal Projects	CERCLA Projects
355	0 Surface Washing Agents 0 In-situ Burns 0 Dispersants	07	03



NRC Notifications





RRT Activation / Notification

Date (xx/xx/xxxx):	02/24/2021	Activation	N	Notification	N
Incident Name:	Kemah House Fire – Unknown Green Liquid Release				
Location:	Kemah, TX				
Responsible Party:	Unknown; homeowner claimed that Fire Dept. and USCG were responsible.				
Type and amount of product spilled:	Unknown; testing identified it as non-hazardous and non-toxic.				
Issue / Concern:	A house-fire and subsequent fire fighting efforts resulted in a release of an unknown, vibrant green, substance into the storm drain system leading to Clear Lake in Kemah, TX. Local residents had placed sandbags to prevent the substance actually entering the navigable waterway but there was still a potential threat to the waterway.				
Agencies Involved:	USCG, EPA, Texas General Land Office, Texas Commission on Environmental Quality				
Decisions Made:	USCG Sector Houston-Galveston opened CERCLA Project C21024 for \$10,000 and hired Oil Mop, LLC to remove and dispose of the substance.				





Accomplishments

Since last RRT meeting - 5 Nov 2020

Training		Exercises / Workshops		Federal, state, and local planning and coordination efforts	
Description	Dates	Description	Dates	Description	Dates
IMSS Training	12 Jan	GIUE (MSU TXC)	10 Dec	TCEQ ER Conference	5 Jan
FEMA EOC Training	1-5 Feb	GIUE (SHG)	28 Jan	Galveston Bay Council	20 Jan
MWCC Source Control Training	24 Feb	TK Shipping TTX	10 Mar	CTCAC Meeting	4 Feb
CG-IMAT Workshop	12-14 Mar	MEXUS Seminar	25 Mar	HSC Meeting	5 Feb
FOSCR College	19-23	ACOE TTX	31 Mar	NDOW Meeting	16 Mar
		PREP TTX	26-28 Apr		
		GIUE (SHG)	29 Apr		

Outlook

Until Next RRT meeting
3-4 Nov 2021



Training		Exercises / Workshops		Federal, state, and local planning and coordination efforts	
Description	Dates	Description	Dates	Description	Dates
Spill Response Training	11-14 May	BP FE	24 Jun	TX SOC Site Visit	27 May
NDOW Training	18 May	Crowley TTX	21 Jul	CTCAC ESG Meeting	3 Jun
Science of Disasters	15-17 Jun	BP FE	22 Jul	CTCAC Meeting	2 Sep



MSU Port Arthur

Captain Molly Wike

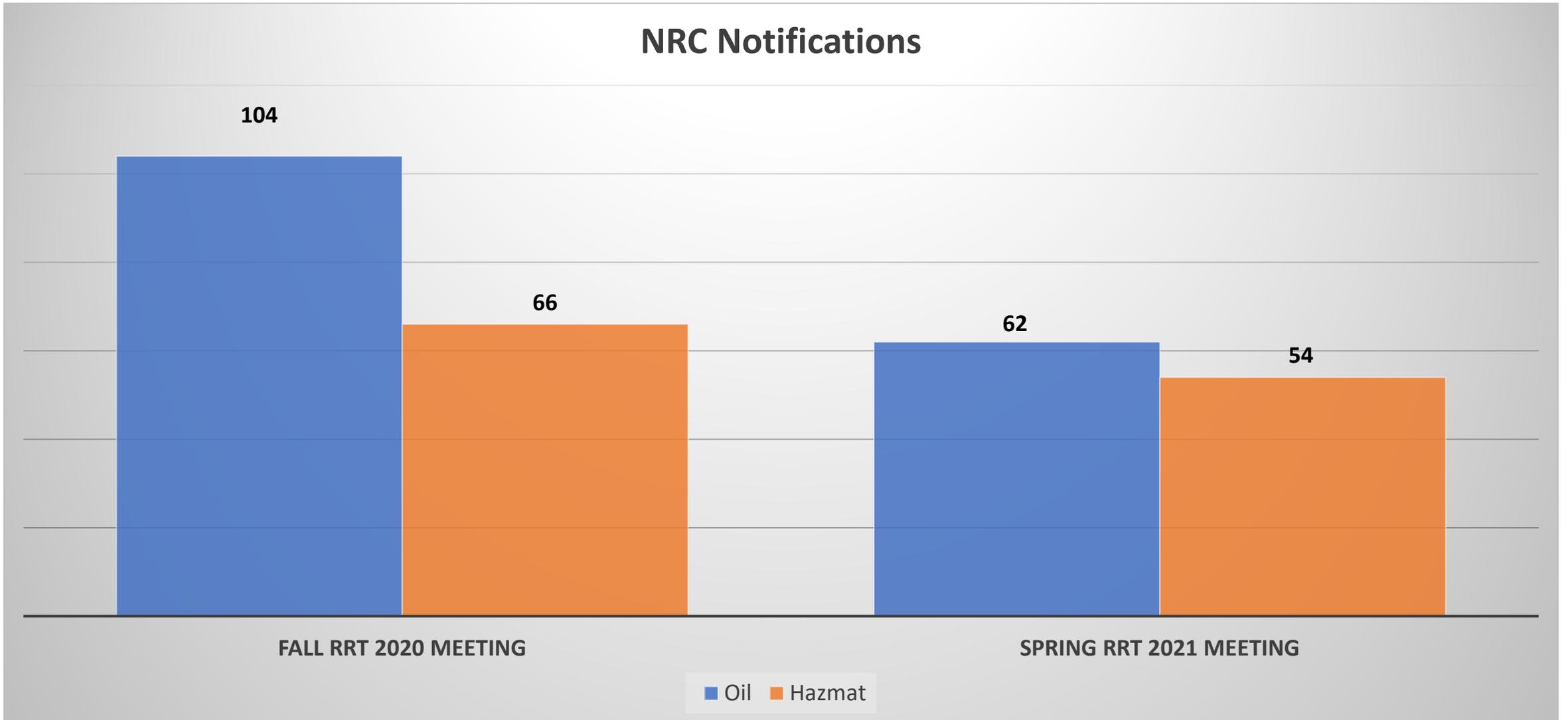
MSU Commanding Officer



NRC Notifications	RRT Activations	Federal Projects	CERCLA Projects
116	0 Surface Washing Agents 0 In-situ Burns 0 Dispersants	2	1



NRC Notifications





RRT Activation / Notification

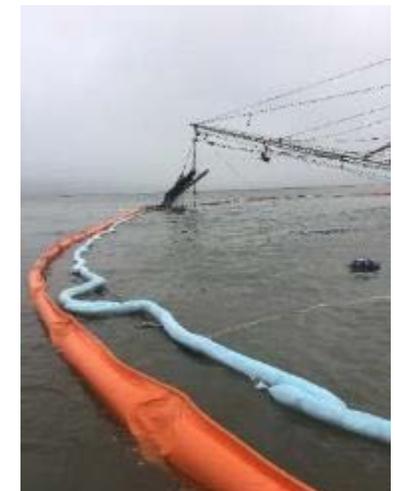
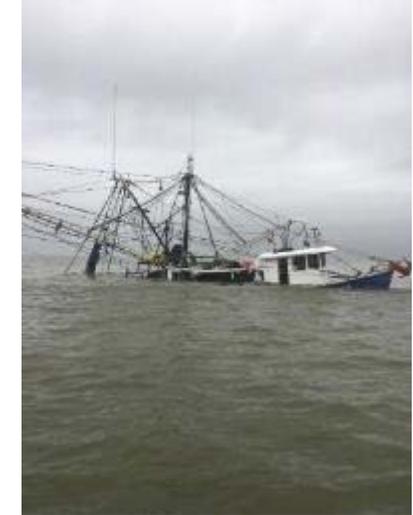
Date:	03/29/2021	Activation	N	Notification	N
Incident Name:	Kingwood Exploration				
Location:	JD Murphree Wildlife Management Area, Port Arthur TX				
Responsible Party:	Kingwood Exploration				
Type and amount of product spilled:	4 bbls: crude oil				
Issue / Concern:	Spill was discovered by RP on 22Mar, however RP failed to make proper notifications to the NRC at time of discovery. RP also initially used natural sorbents without any way to contain/collect oiled material until USCG and Texas General Land Office (TGLO) became involved. On 29MAR21 Texas Parks & Wildlife discovered the spill and notified TGLO, who in turn contacted MSU Port Arthur, 7 days after the spill occurred.				
Agencies Involved:	USCG, TGLO, and Texas Parks and Wildlife				
Decisions Made:	After USCG and TGLO became involved, the RP enacted a spill response plan on 30MAR and contracted OMI to conduct clean up and recovery ops. As of 08APR, operations continued passive recovery utilizing sorbent and hard booming strategies. Due to the amount of USCG involvement over multiple days FPN 21017 was created to track USCG personnel costs. Case ongoing.				





RRT Activation / Notification

Date:	03/26/2021	Activation	N	Notification	N
Incident Name:	Captain 7 2				
Location:	Gulf of Mexico: 0.25 miles offshore of Grand Chenier, LA				
Responsible Party:	Kevin Nguyen				
Type and amount of product spilled:	500 gallons of diesel fuel				
Issue / Concern:	MSU Lake Charles received a report that the fishing vessel Captain 7 2, containing approximately 500 gallons of diesel, sank in the Gulf of Mexico offshore of Grand Chenier, LA. Vessel ran aground in approximately 11' of water. Cause is still under investigation.				
Agencies Involved:	USCG, USFWS, NOAA				
Decisions Made:	MSU Lake Charles IMD opened the OSLTF for \$25,000 and hired Environmental Safety and Health Consulting Services, LLC (ES&H). Due to environmental hazards causing delays in cleanup and recovery, the ceiling was increased to \$120,000. Divers confirmed the fuel tanks where compromised, full of water, and no product was recovered.				





Consultations

Unit	Incident Name	Start Date	Stop Date	With	Phase	For	Response Actions	Species (Common Name)	Type	Federal Listing Status	Critical Habitat	General Cost	Land Cost	Total Cost
MSU Port Arthur, TX	Hurricane Laura ESF-10	9/28/2020	1/19/2021	DOC/NMFS	Response	Emergency Consultation	Booming/Salvage Ops	ESA: Green hawksbill, Kemp's Ridley, loggerhead & leatherback sea turtles, & black rail. EFH: shrimp, reef fish, red drum, coastal migratory pelagics, & stone crab.	ESA & EFH	Threatened	No	\$200	\$0	\$200
MSU Port Arthur, TX	Hurricane Laura ESF-10	9/28/2020	1/19/2021	DOI/USFWS	Response	Emergency Consultation	Booming/Salvage Ops	West Indian Manatee, Red-cockaded woodpecker	ESA	Threatened	No	\$200	\$0	\$200



Accomplishments

Since last RRT meeting
5 Nov 2020

Training		Exercises / Workshops		Federal, state, and local planning and coordination efforts	
Description	Dates	Description	Dates	Description	Dates
Oil Spill Control	2/15-2/19, 3/15-3/19, 4/26-4/30	Q1 GIUE (PA)	12/2	SETX/SWLA AC ESG	3/22
FOSCR Course	2/22-3/12	Q2 GIUE (LC)	2/26	MEXUSGULF Seminar	3/25
HAZMAT Incident Response	3/15-3/19, 3/29-4/2	Natural Disaster Operational Workgroup virtual training	4/15		
HAZWOPER	12/2 & 12/10				
FOSCR	4/19-4/23				
ICS-430	3/9-3/13				
FOSCR College	4/26-4/30				

Outlook

Until Next RRT meeting
3-4 Nov 2021

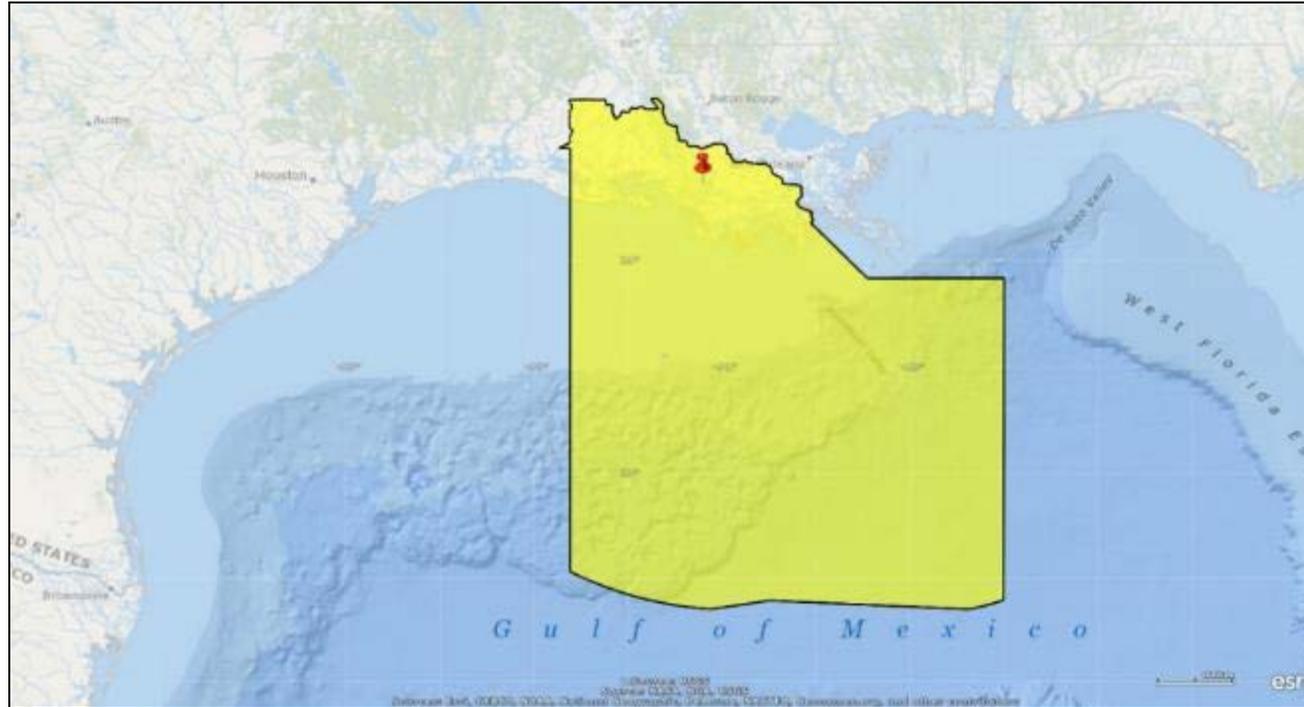


Training		Exercises / Workshops		Federal, state, and local planning and coordination efforts	
Description	Dates	Description	Dates	Description	Dates
FOSCR	5/10-5/29, 8/9-8/28	Q3 GIUE (PA)	TBD	International Oil Spill Conference	5/10-5/14
ICS-430	5/18-5/22, 6/22-6/25	Q4 GIUE (LC)	TBD	Clean Gulf Annual Conference	7/15
Oil Spill Control	5/24-5/29, 6/7-6/12				
ICS-410	8/10-8/14				
PIR	8/16-9/4				

MSU Houma

Captain Jerrel Russell

MSU Commanding Officer



NRC Notifications	RRT Activations	Federal Projects	CERCLA Projects
424	0 Surface Washing Agents 0 In-situ Burns 0 Dispersants	6	1

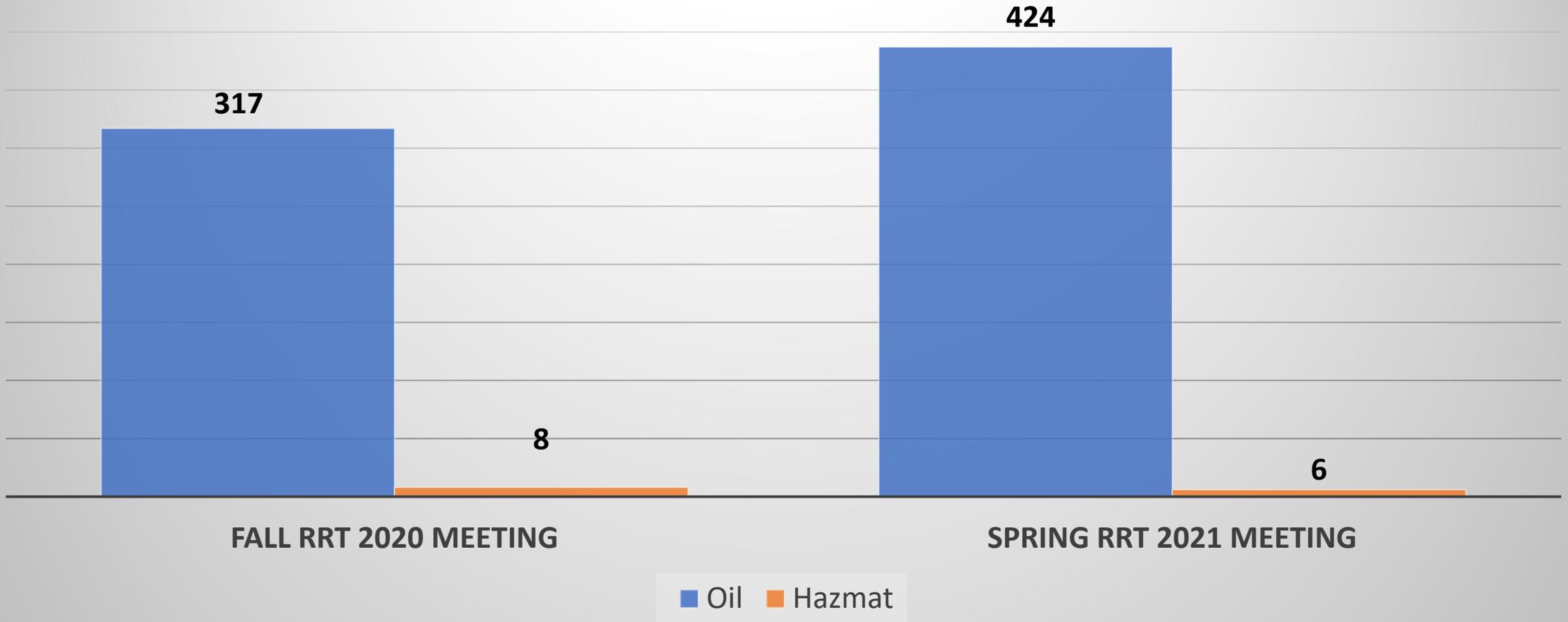
Executive Summary



Challenges-	<ul style="list-style-type: none">• Access to inshore facilities or pollution threats for preliminary investigations or post storm assessments is limited due to lack of organic surface assets. Continued coordination with OSRO(s)/RP is required for responder access to remote/marsh locations.• The pandemic continues to challenge communication capabilities between non-government organizations and industry. The virtual environment has broadened our range of communication.
Lessons Learned-	<ul style="list-style-type: none">• The virtual environment (Microsoft Teams) has broadened our initial communication with RPs, OSRO(s), and the establishment of ICPs.• The creation of target lists for pre-storm aerial overflights has increased our coordination with Sector assets to maximize our assessments for hard to reach areas.• The creation of an emergency response contact list will allow for continued communication with state agencies, trustees, OSROs, etc. during ICS operations.
Best Practices-	<ul style="list-style-type: none">• Discuss with D8 DRAT and NOAA SSC for requirements and other considerations for response strategies that are not often used by industry and response organizations.• Communicate with each federal, state, local partner agency within AOR to discuss pre/post storm concerns and anticipated response actions to determine need for collaborative efforts.

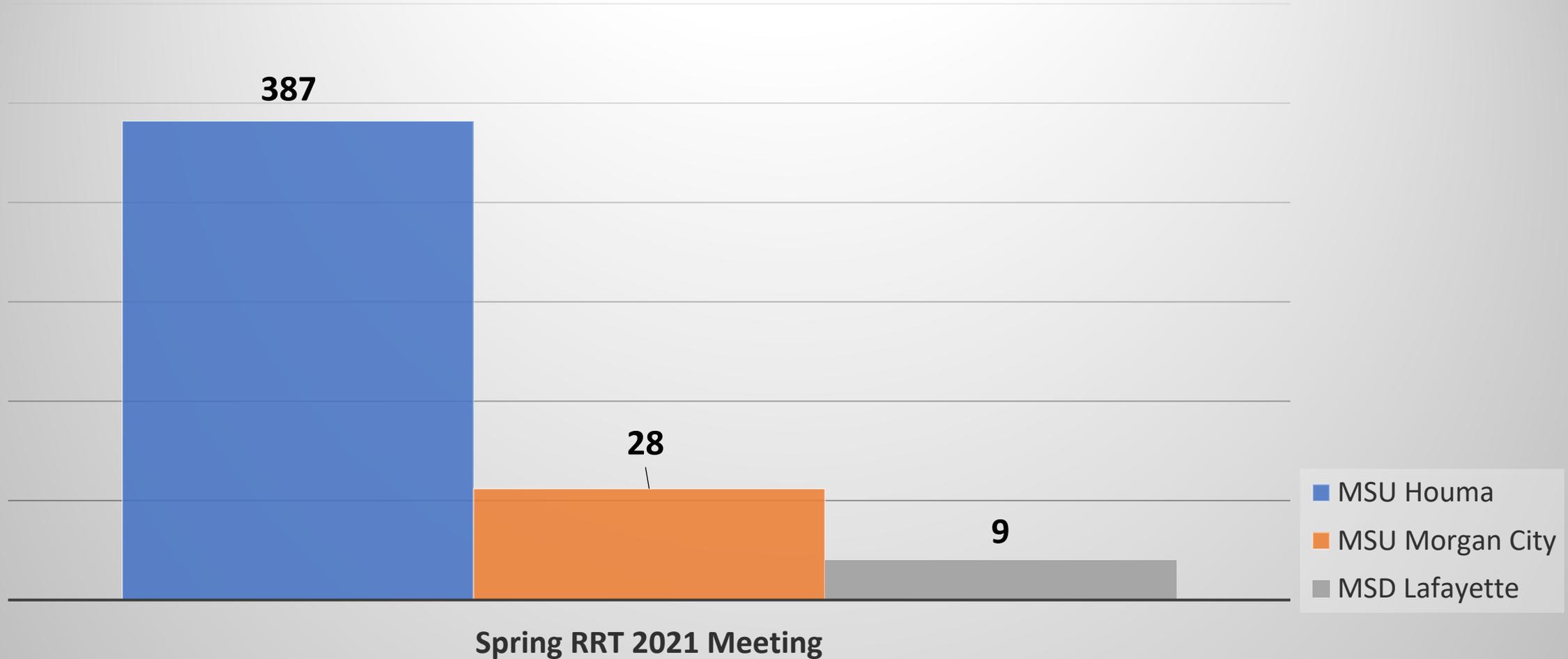


NRC Notifications





NRC Notifications





RRT Activation / Notification

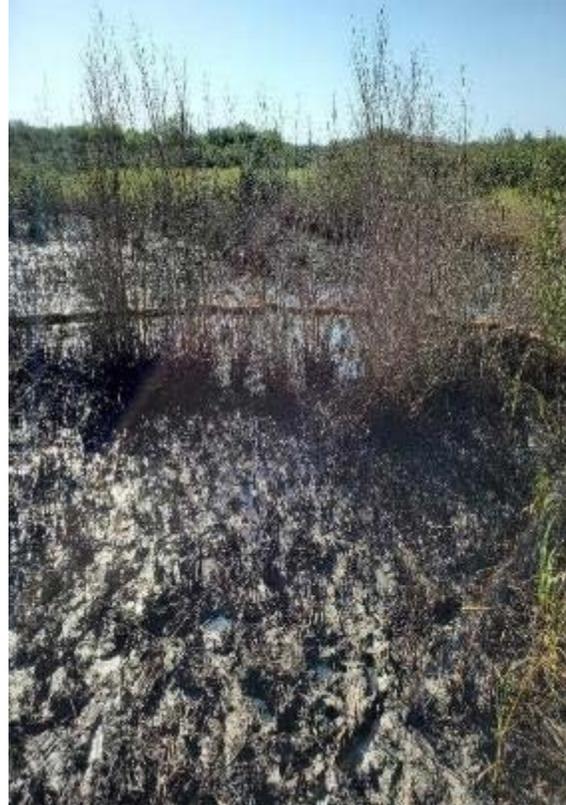
Date (xx/xx/xxxx):	03/04/2021	Activation	N	Notification	N
Incident Name:	TB# 1 Leeville				
Location:	29° 14' 25.04" N, 90° 12' 43.20"W, East-West Canal				
Responsible Party:	Marquis Resources				
Type and amount of product spilled:	1 bbl of crude oil				
Issue / Concern:	<p>Approximately 1 bbl of crude oil discharged from Tank Battery #1 due to corrosion on a union joint on the pipeline. The discharge never entered the waterway and was contained to the marsh. OMIES personnel cut affected vegetation and transferred trimmings into collection bags. OMIES commenced flushing operations to lead the crude oil into the containment boom surrounding the marsh. Passive recovery is the best management practice due to the impact mechanical recovery will have on the marsh.</p>				
Agencies Involved:	USCG, LOSCO				
Decisions Made:	USCG & LOSCO maintain communication with RP to coordinate joint weekly site visits to observe progress and address remediation concerns.				



Photos from Reporting Party – Forefront Emergency Management



Photos from Forefront Emergency Management 2nd Assessment





RRT Activation / Notification

Date (xx/xx/xxxx):	03/25/2021	Activation	N	Notification	N
Incident Name:	ITV LADY EDWINA Response				
Location:	Intersection of MM 35 of the ICW and Bayou Lafourche				
Responsible Party:	LA Carriers				
Type and amount of product spilled:	Small, silver sheen observed when vessel was partially submerged. No discharge of the estimated 16,000 gallons of oil products onboard.				
Issue / Concern:	MSU Houma received notification that ITV LADY EDWINA (O/N: 951999) was listing to her starboard side and stern was partially submerged just north of the Ted Gisclair floodgate. Duty team deployed to scene to assess vessel, on scene conditions, and coordinate efforts with the owner/operator. With the vessel's stern touching bottom, but vessel upright, owner contacted OSRO ES&H and a salvage company from Baton Rouge. Additional tugs were on scene to maintain control of the vessel.				
Agencies Involved:	USCG, LA Carriers, ES&H				
Decisions Made:	ES&H deployed containment boom around the vessel to mitigate/contain any potential discharge. MSU Houma initiated a safety zone IVO of vessel to allow for salvage operations to commence on 28MAR2021.				



RRT Activation / Notification



Date (xx/xx/xxxx):	04/13/2021	Activation	N	Notification	N
Incident Name:	Port Fourchon LB - Salvage				
Location:	Port Fourchon				
Responsible Party:	Seacor Marine LLC				
Type and amount of product spilled:	Potential of 34,933 gallons of fuel/hydraulic/lube oil/waste oil				
Issue / Concern:	SEACOR POWER capsized during heavy weather in South Timbalier Block 26 of GOM 8 miles south of Port Fourchon. At the time of the marine casualty, the vessel had 19 POB confirmed by crew manifest. Onscene conditions were 80-90kt winds, 7-9 ft seas. MSU Houma IMD is monitoring the situation for pollution concerns, vessel movement IVO pipelines, and stability.				
Agencies Involved:	Seacor Marine, USCG, NRC, NOAA				
Decisions Made:	Continue to monitor vessel for any discharge or movement. Continue to monitor platforms and pipelines IVO vessel for drops in pressure, anomalies, or discharges. Continue communication with nearby pipeline owners for operational concerns. Continue to communicate with NRC and Seacor Marine for mitigation and fuel offload procedures during the MER phase of the response. Continue to work with NOAA SSC on WCD spill and fate trajectories. OSRO has an OSRV staged in Grand Isle if significant discharge does occur.				



Consultations



Unit	Incident Name	Start Date	Stop Date	With	Phase	For	Response Actions	Species (Common Name)	Type	Federal Listing Status	Critical Habitat	General Cost	Land Cost	Total Cost
MSU Houma	Port Fourchon LB - Salvage	20APR21	21APR21	DOI/USFW	Response	Emergency Consultation	Booming/Sorbent Materials	Green sea turtle, Hawksbill sea turtle, Kemp's ridley sea turtle, Leatherback, and Loggerhead	ESA	Threatened	No	Pending	0	Pending



Accomplishments

Since last RRT meeting
5 Nov 2020

Training		Exercises / Workshops		Federal, state, and local planning and coordination efforts	
Description	Dates	Description	Dates	Description	Dates
Biological Evaluation Consultation Training	DEC 2020	LOOP Emergency Response Drill & Equip Deployment	19NOV2020	LA SACESG Virtual Call	22MAR2021
Scheduled Oil Spill Response Course	10-14MAY2021	1 st and 2 nd Quarter GIUEs	9DEC20/26MAR21	SCLA ACP Conversion Meeting	05APR2021
		Witt O Brien's and IMR Source Control Readiness Exercise	24MAR2021		
		ISRRT Chevron SSDI Concurrence Call	4MAY2021		

Outlook

Until Next RRT meeting
3-4 Nov 2021



Training		Exercises / Workshops		Federal, state, and local planning and coordination efforts	
Description	Dates	Description	Dates	Description	Dates
Oil Spill Response Course	10-14MAY2021	3 rd and 4 th Quarter GIUEs	TBD	AC Meeting	TBD
		Chevron SSDI Exercise Initiation	6MAY2021	State Wide Area Committee Meeting	TBD

Sector New Orleans



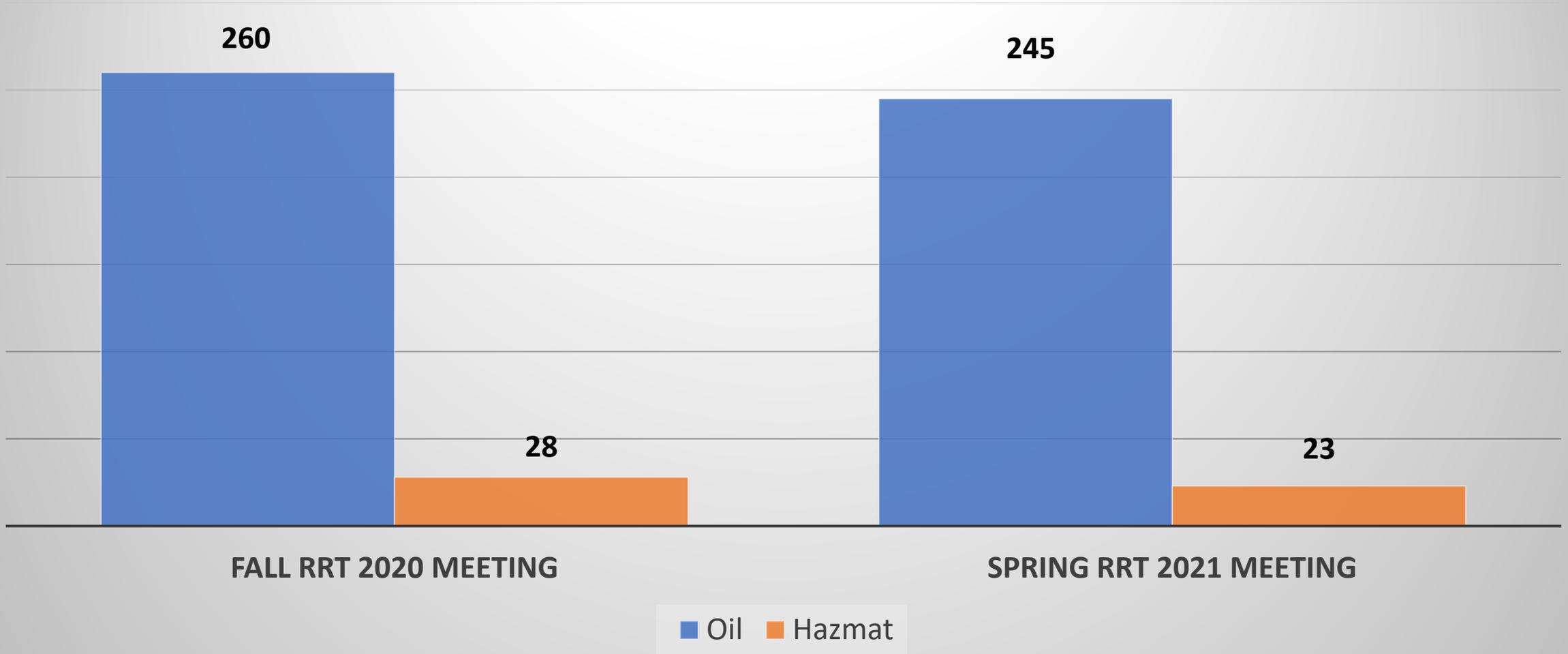
Captain Will Watson
Sector Commander



FY21 NRC Notifications	RRT Activations	Federal Projects	CERCLA Projects
268	00 Surface Washing Agents 01 In-situ Burns 00 Dispersants	03	01



NRC Notifications

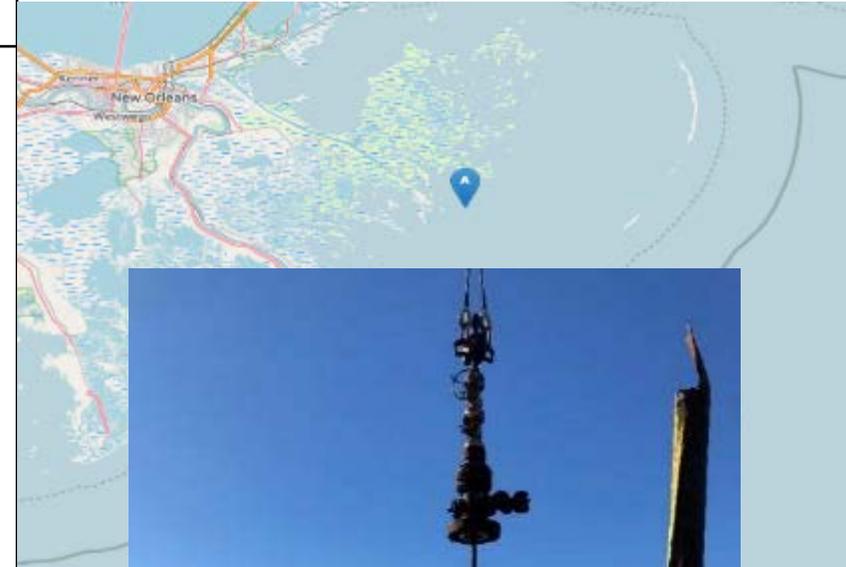


YUMA Breton Sound #4



Date:	02/03/2021	No RRT-6 Activation
Incident Name:	Breton Sound Block 4 YUMA	
Issue/Concern:	<ul style="list-style-type: none"> • Post-storm assessments following Hurricane Zeta, identified a silver and rainbow sheen originating from an abandoned wellhead in Breton Sound (near shore environment). • RP failed to comply with DNR issued compliance orders. • LADNR Orphaned/Abandoned well program funding constraints didn't allow for timely P&A. • NOAA fate & trajectory models indicated potential for shoreline impacts if the volume increased and/or sheen persisted. • Compromised wellhead integrity - severe pitting & corrosion on the well, a breach in the well surface casing and missing valves. • Site assessments indicated significant well intervention would be required to secure the source of discharge. 	
Agencies Involved:	USCG, LOSCO, LADEQ, LADWF, LADNR, NOAA, SHPO, GOHSEP & Parish.	
Decisions Made:	<ul style="list-style-type: none"> • FOSC assumed response actions and contracted Couvillion Group using the OSLTF to secure the source. • Removed affected wellhead and piping infrastructure to permanently secure the source – 2 months prep/coordination & 5 weeks of field response ops. 	

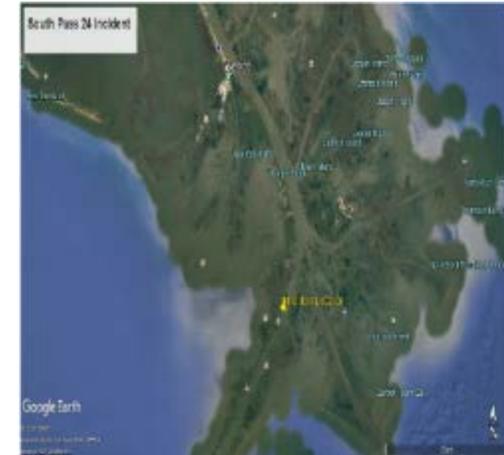
Incident Location



In-Situ Burn SP 24



Incident Location



Photo

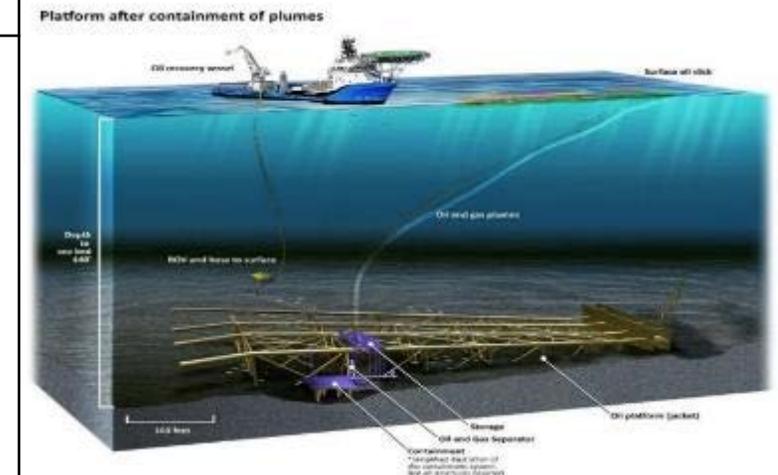


Date:	01/22/2021	RRT-6 Pre-Approval
Incident Name:	ISB South Pass Block 24	
Issue/Concern:	Discharge of ~2100 gallons of crude oil into a sensitive near shore marsh region in Southeast Louisiana from a Texas Petroleum Investment Co oil and gas platform.	
Agencies Involved:	USCG, LOSCO, LADEQ, NOAA, TPIC, OMI and T&T Salvage	
Decisions Made:	<p>Actions taken/Monitor:</p> <p>Effective coordination with industry, federal and state partners allowed the Unified Command to take advantage of short but ideal weather window to employ the in-situ burn technique. One burn was completed and lasted 4.5 hours. No burning agent was used. The in-situ burn was successfully ignited during damp conditions. The rainy conditions aided in reducing smoke particulates accumulating in the immediate area, further reducing inhalation hazards.</p> <p>90-95% effective: ~ 2,000 gallons burned. 42 of 126 gallons of crude oil remained and was removed via passive recovery techniques. Post burn monitoring of the site is on-going. The Responsible Party intends to replant the site in the Spring to ensure proper vegetation regrowth in the area.</p> <p>RRT activation and the successful use of the in-situ burn technique will promote rapid vegetation recovery in a sensitive near shore marsh area. RRT-6 ISB policy located in the SE Louisiana ACP was very valuable during the response – the in-situ burn check-list greatly streamlined the RRT process.</p>	

Taylor Energy MC-20 Pollution Incident



Date:	Current IAP Operational Period: 16 JUL 20 – 15 JUL 21	No RRT-6 Activation
Incident Name:	Taylor Energy MC-20 Response	
Ops Update:	<ul style="list-style-type: none"> • The subsea containment and storage system continues to work as designed, collecting most of the oil discharging from the seafloor and preventing entry into the water column. Average daily rate: 1,000-1,300 gals. • Pump-off evolutions conducted every 28 days (on average & weather dependent). 5-day evolution: mobilization to shore-side off-load. Off-load operations in Port Fourchon, LA. • At sea pump-off #27 completed in April. • 711K gallons of resalable oil collected since April 2019. 	
Agency Roles:	<p>Coast Guard: Oversees execution of IAP objectives - directs response actions ISO containment and recovery of oil leaking from the MC-20 site using the OSLTF to fund response activities.</p> <p>Taylor Energy: RP under the NCP. Maintains an offshore OSRO if dark oil is detected. Contracts Southern Seaplane to conduct overflights of site.</p> <p>BSEE: Leads all efforts to achieve permanent source control.</p> <p>NOAA: Conducts analysis to drive operations. Environmental satellite imagery of site – captures surface anomalies.</p>	



Consultations



Unit	Incident Name	Start Date	Stop Date	With	Phase	For	Response Actions	Species (Common Name)	Type	Federal Listing Status	Critical Habitat	General Cost	Land Cost	Total Cost
Sector New Orleans	LOBO Lake Fortuna	01-Nov-20	01-Nov-20	DOI/USFW	Response	Technical Assistance	Booming and Skimming	Manatee	ESA	Threatened	No	0	0	0
Sector New Orleans	TPIC Romere Pass	05-Nov-20	05-Nov-20	DOI/USFW	Response	Emergency Consultation	Booming and Skimming	Manatee	ESA	Threatened	No	0	0	0
Sector New Orleans	YUMA Platform BS2	10-Nov-20	Ongoing	DOI/USFW/ NMFS	Response	Emergency Consultation	Booming, Skimming, Bioremediation	Multiple	ESA	Endangered and Threatened	No	0	0	0
Sector New Orleans	TPIC SP 24	19-Jan-21	31-Mar21	DOI/DOC/ USFW/ NMFS	Response	Emergency Consultation	In-situ Burning	Manatee	ESA	Threatened	No	\$87	0	\$87
Sector New Orleans	YUMA MP4	18-Feb-21	16-Mar-21	DIO/USFW/ NMFS	Response	Emergency Consultation	Booming	Multiple	ESA	Endangered and Threatened	No	\$87	0	\$87

Accomplishments

Since last RRT meeting
5 Nov 2020



Training		Exercises / Workshops		Federal, state, and local planning and coordination efforts	
Description	Dates	Description	Dates	Description	Dates
FOSCR College	19-23 Apr 21	GIUE – Kinder Morgan Seven Oaks Terminal	12 Mar 21	LEPC's(St. James, St. Charles, St. John, Plaquemines, Jefferson, St. Tammany, St. Bernard)	Suspended due to COVID-19
SOCR – NOAA	26-30 Apr 21			CAMO	25 March 2021
				CAMO	16 April 2021

Outlook

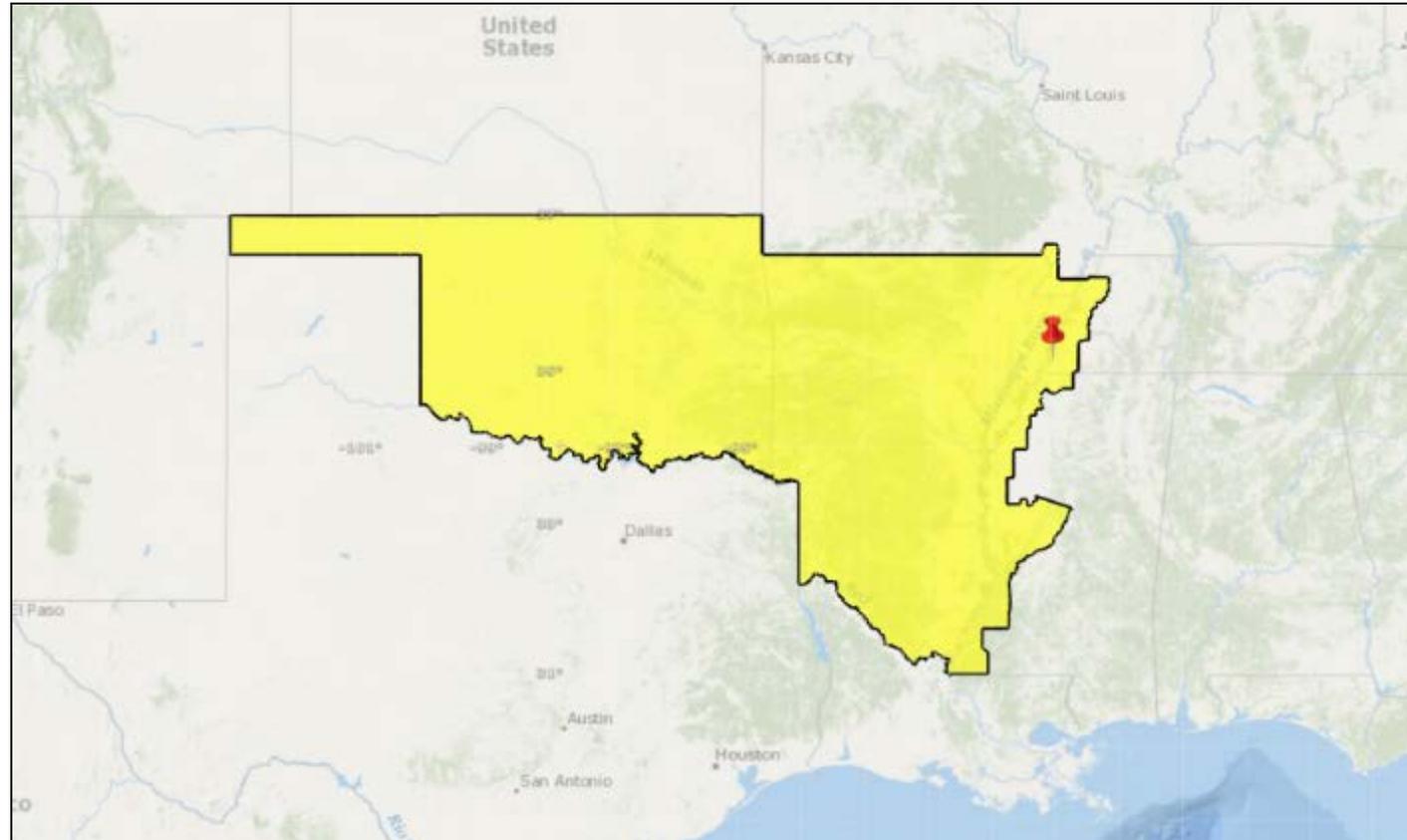
Until Next RRT meeting
3-4 Nov 2021



Training		Exercises / Workshops		Federal, state, and local planning and coordination efforts	
Description	Dates	Description	Dates	Description	Dates
				LEPC's (St. James, St. Charles, St. John, Plaquemines, Jefferson, St. Tammany, St. Bernard)	Suspended due to COVID-19
				SELAC Meeting	18 Nov 21

Sector Lower Mississippi River

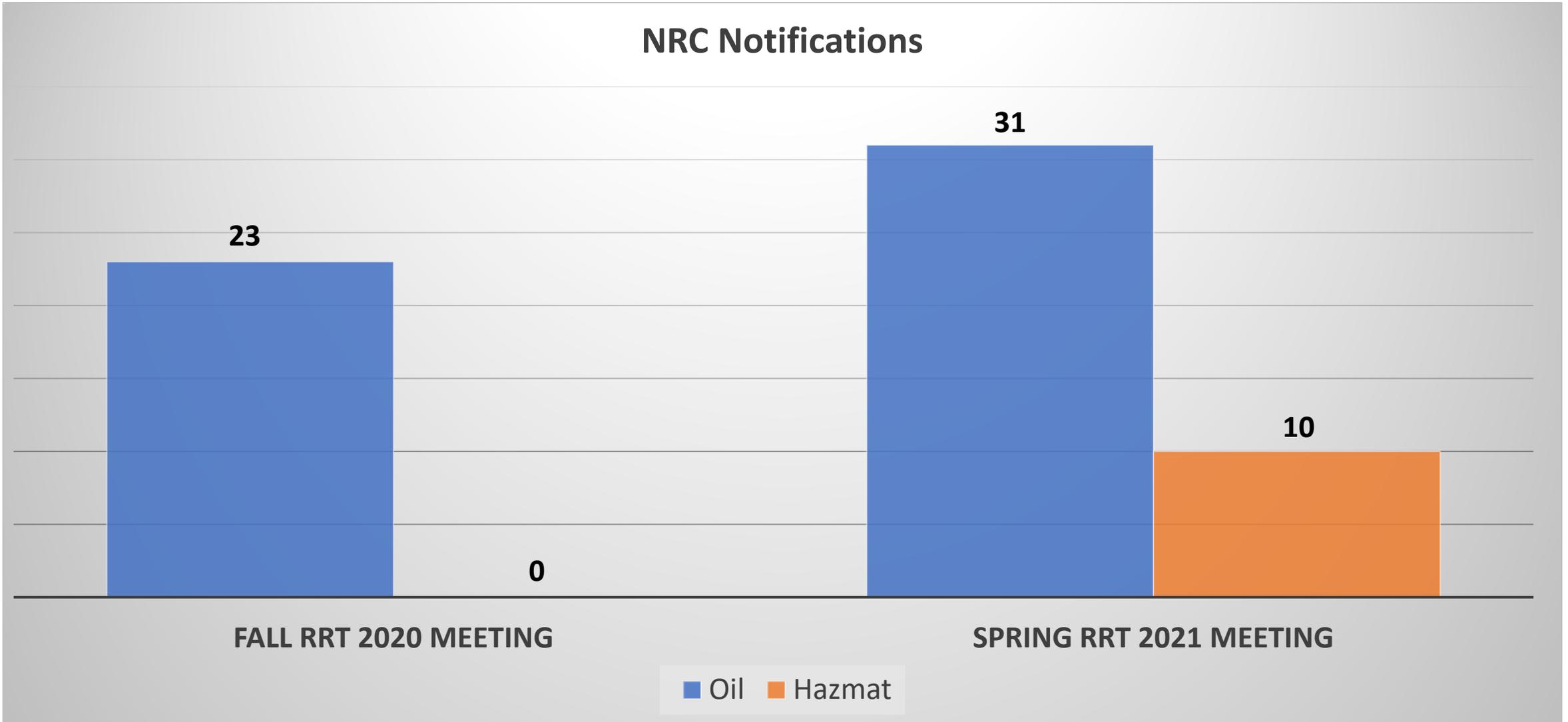
Captain Ryan Rhodes
Sector Commander



NRC Notifications	RRT Activations	Federal Projects	CERCLA Projects
41	00	01	00



NRC Notifications



Consultations



Unit	Incident Name	Start Date	Stop Date	With	Phase	For	Response Actions	Species (Common Name)	Type	Federal Listing Status	Critical Habitat	General Cost	Land Cost	Total Cost
Sector Lower Mississippi River, TN	MS. DEBBIE	12/27/2020	12/27/2020	State Historic Preservation Office (SHPO)	Response	Emergency Consultation	Booming	Multiple	NHPA	N/A	No	62	0	62
Sector Lower Mississippi River, TN	MS. DEBBIE	12/27/2020	12/27/2020	DOI/USFWS	Response	Emergency Consultation	Booming	Multiple	ESA	Endangered	No	310	0	310
Sector Lower Mississippi River, TN	MARTY BASKERVILLE Bridge Allision + 02 Barge Sinkings	3/1/2021	3/1/2021	DOI/USFWS	Response	Emergency Consultation	Vessel Salvage	Multiple	ESA	Endangered	N/A	135	0	135
Sector Lower Mississippi River, TN	MARTY BASKERVILLE Bridge Allision + 02 Barge Sinkings	3/1/2021	3/1/2021	State Historic Preservation Office (SHPO)	Response	Emergency Consultation	Vessel Salvage	Multiple	NHPA	N/A	N/A	135	0	135
Sector Lower Mississippi River, TN	ITV LINDSAY ANN ERICKSON	4/9/2021	4/20/2021	DOI/USFWS	Response	Emergency Consultation	Vessel Salvage	Multiple	ESA	Endangered	N/A	62	0	62
Sector Lower Mississippi River, TN	ITV LINDSAY ANN ERICKSON	4/9/2021	4/20/2021	State Historic Preservation Office (SHPO)	Response	Emergency Consultation	Vessel Salvage	Multiple	NHPA	N/A	N/A	62	0	62



Accomplishments

Since last RRT meeting
5 Nov 2020

Training		Exercises / Workshops		Federal, state, and local planning and coordination efforts	
Description	Dates	Description	Dates	Description	Dates
Incident Commander Training	11 FEB 2021	GIUE – Sector LMR	19 NOV 2020	Region 7 OSC Training	29 JAN 2021
		GIUE – MSD Vicksburg	04 MAR 2021	RRT-4 Meeting	9-10 FEB 2021
		Auxiliary TTX	20 MAR 2021	LEPC Meetings	Monthly
				RRT-7 Meeting	31 MAR 2021

Outlook

Until Next RRT meeting
17-18 Nov 2021



Training		Exercises / Workshops		Federal, state, and local planning and coordination efforts	
Description	Dates	Description	Dates	Description	Dates
Incident Commander Training	Monthly – 2 nd Tuesday	GIUE – MSD Vicksburg	JUN 2021	LEPC Meetings	Monthly
		GIUE – Sector LMR	TBD	RRT-4 Meeting	17-19 AUG 2021
				RRT-7 Meeting	22-23 SEP 2021