Incident Name: 2nd 80's Fire

Activity Log

Date/Time	*Events/Notes*
03/19/2019 12:29	Thunderstorm C6 1x3 foam ordered and enroute to incident location; most orders will be onsite between 16:00 and 22:00.
03/19/2019 22:30	EOC held an update call with the IC. IC provide update to status of all tanks: tanks 80-1; 80-4, 80-6, 80-7, 80-11 are out; 80-2, 80-3, 80-5, 80-14 still burning; 80-8, 80-10, 80-13 treated with a foam blank; 80-9 and 80-12 have collapsed.
03/19/2019 22:47	IC reported a responder had tripped resulting in lacerations. Injured person is being taking to local emergency room to address if any treatment beyond first aid is required.
03/19/2019 22:47	US Fire Pumps contacted to assist with fire suppression.
03/20/2019 00:19	Tank materials are as follows: 80-1 Base Oil; 80-2 GBS; 80-3 GBS; 80-4 Base Oil; 80-5 Xylene; 80-6 GBS; 80-7 Pygas; 80-8 Naptha; 80-9 Empty; 80-10 Pygas; 80-11 Base Oil; 80-12 Empty; 80-13 Toluene; 80-14 Pygas; 80-15 Pygas.
03/20/2019 01:25	IC reports tanks 3, 14 and 15 are the only remaining tanks with active fire. Fire plume has reduced significantly.
03/20/2019 02:26	IC reporting potential elevated benzene levels near foam runoff location. Air monitoring teams being directed to location to confirm readings.
03/20/2019 03:00	IC reports all fires have been extinguished. On scene operations will continue to cold and monitor for re-flash.
03/20/2019 04:45	EOC held update call with IC and discussed potential options for addressing the removal of water and tank products from the dike. 21 ITC personnel currently on scene. High odors reported at the site. One fire truck applying foam to maintain the foam blank but no water is being applied to cool other structures. Personnel air monitoring is being conducted north, south, east and west around the tank walls.
03/20/2019 05:02	IC reports that the current freeboard available inside the dike is 3 feet.
03/20/2019 05:10	5.25 ppm benzene report on Hollings Road.
03/20/2019 05:29	EOC Manager was told that no representative was needed for the Deer Park EOC.
03/20/2019 09:55	Boom in Channel has broken loose, causing product to move.
03/20/2019 10:28	Smoke reported coming from 80-5.
03/20/2019 10:45	No smoke confirmed from tank 80-5. Tank 7 though does not have foam
03/20/2019 11:26	Two Reps from Total have arrived to ICP to talk with RP IC about current conditions. Benzye has caused Total to shut down. David Sipe TPM & David Attoe OPM.
03/20/2019 11:33	CIMA & Williams will stay to help deploy foam and monitor conditions.
03/20/2019 11:53	– 7, 10, 14 & 15 – product needs to be removed. Product is leaking out. • Pulling off laterals, need to evaluate the conditions of the tanks. 1-2 inch of water throughout the farm. • Tank 7 has at least 20 feet (40,000 bbls) of product remaining in it. • Pipe rack that runs N to S and E to W is assumed compromised. Would need to test before using to move product to dock.
03/20/2019 11:55	4 Sheriffs are currently in the field, 1 more has been added to man the Command Trailer. Total of 5 Sheriffs.
03/20/2019 12:45	OMI objectives – Boat Ops, Picking Up Foam, Air Monitoring, Sheen Recovering/Monitoring USCG sitting between docks 6 & 3, sheen may have been seen on North side, ended up being soot and foam. Not being recovered using sorbent pads. Light green sheen reported under foam staged Dock 4 (2400ft Hard Boom) going towards DOW. 3000 ft Hard boom, 200 ft at DOW Bridge, 400 ft in drainage ditch, 2400 hard boom & sorbent.
03/20/2019 13:30	US Congressman Brian Babin arrived on site during 1330 conference.
03/20/2019 14:25	Run hose from 68 & 2nd 80's manifold, to break off pipe and tie that into 64 line. 80-3 has product spewing, 80-1 has pipe broken spewing product.
03/20/2019 16:27	1.93 PPM Benzene reported in Total facility

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03/21/2019 01:06	Miguel received report that OXY issued shelter in place due to elevated Benzene readings.
03/21/2019 01:44	OXY issued all clear
03/21/2019 01:47	80-10 has begun transfer to 100-28
03/21/2019 02:30	Reports of elevated Benzene air monitoring readings. Sending E-Notify.
03/21/2019 02:48	On Scene Commander reports that due to the elevated benzene readings responders are relocating to the Love's Truck Stop on Independence Parkway.
03/21/2019 02:52	Deer Park Police notified of shelter in place recommendation between ITC and Love Truck Stop on Independence Parkway
03/21/2019 03:15	Updated E-Notify message.
03/21/2019 03:27	21 totes of foam every 30 min at 3% being applied to apply foam blanket to suppress vapors. Looking to get more totes enroute.
03/21/2019 03:46	Carl requesting 600 totes of foam
03/21/2019 04:02	Lost transfer from 80-10.
03/21/2019 04:25	6th Civil Support Team from Texas National Guard is enroute to support air monitoring.
03/21/2019 04:27	Stephen Mason from EPA stated that he received reports from EPA Start Contractors: 1.5 Benzene air monitor readings in the community south of highway 225 at East Blvd and 13th street. Continuing to monitor south to locate end of above action levels.
03/21/2019 04:30	John (Liaison Officer) is deployed to Deer Park EOC.
03/21/2019 04:30	Report from David Wade: City of Deer Park OEM made decision to close Highway 225 is from Beltway 8 to Miller Cut Off Road.
03/21/2019 04:30	2nd update to E-Notify.
03/21/2019 04:59	Received call that ambulance enroute to respond to a police officer in need of medical attention at one of the road blocks.
03/21/2019 06:06	Held IC Shift change debrief. Off going IC emphasized the ongoing hot zone changes based on air monitoring readings and wind changes. Also, reported that an eNotify was released reporting those readings. Getting readings up to 1.8 benzene and due to that, operations have been slow overnight as responders have been required to shelter in place or work in SCBAs only.
03/21/2019 06:16	Operations reported that there is now a foam blanket in tank 80-7 which may be the source of the elevated benzene readings.
03/21/2019 07:21	Working to get access to valve on Tank 80-7. Sending meter to get benzene readings.
03/21/2019 08:25	Started pumping product out of Tank 80-7 into Tank 100-28.
03/21/2019 09:15	Hot Zone reduced.
03/21/2019 09:19	Submersible pump and crane enroute to Tank 80-7.
03/21/2019 09:35	Changed locations of Warm & Cold Zones.
03/21/2019 10:30	Gained approval for drone operations from Texas Parks and Wildlife. Drones activated for shoreline survey of ship channel and San Jacinto State Park.
03/21/2019 10:46	Shutdown transfer from 80-7 to 100-28. Pumping directly into 80-18.
03/21/2019 10:56	Pumps and hoses arrived from United Rentals.
03/21/2019 11:20	2 inch foam level in tank farm.
03/21/2019 11:48	Coordinating with the National Weather Service for forecasts (wind/lightning).
03/21/2019 11:58	City of Deer Park lifting shelter in place.
03/21/2019 12:13	TRG Drone in flight at San Jacinto State Park.
03/21/2019 12:48	Pump arrives to 80-15 to pump water.
03/21/2019 15:00	Pump truck arrives at 80-7.
03/21/2019 15:22	20 totes of foam being applied an hour.
03/21/2019 15:59	10 phones arrive at EOC for communication with field personnel (Backup for bad connection with field).
03/21/2019 17:00	Hot Zone enhanced North to cover Tidal Rd.

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03/21/2019 17:43	Drone overflights approved for overnight.
03/21/2019 18:00	Command staff meeting with Mayor of Deer Park and Chief Kidd of TDEM
03/21/2019 19:46	Flare up reported at 1st 80s manifold.
03/21/2019 19:50	Fire has been extinguished. Fresh foam has been applied.
03/21/2019 19:58	2 ppm reported by CTEH on the North side of Vopac.
03/21/2019 20:14	Mike Venegas reported that they were approached by Lt. Lopez from the Sherrif's Office and was asking questions.
03/21/2019 20:41	IC Carl Holley reported that the 20:00 estimated start time of pumping did not occur due to a bad fitting. In progress of getting a replacement fitting. ETA: 00:00 3/22. (4 Hours)
03/21/2019 21:06	Applied fresh foam sweep for tank farm
03/21/2019 22:19	OMI lining docks 1,2,3 and 4 with sorbent boom behind hard boom
03/21/2019 22:32	Report from Sherrif's Office: PTRA stated that a train crew reported smelling Benzene at Watco off of Federal Road NW of Incident Location. Wind is blowing to the NE. Sending CTEH to conduct air monitoring to confirm.
03/21/2019 23:01	Flowing foam at tank farm
03/21/2019 23:15	Foam complete at tank farm
03/21/2019 23:39	CTEH Jason Callahan confirmed no detects at the Watco Facility from the report from PTRA Train Crew.
03/22/2019 00:30	Flowing foam at tank farm
03/22/2019 00:45	Foam complete at tank farm
03/22/2019 02:19	Conducting drone flight over tank farm
03/22/2019 02:41	Foam totes punctured on Independence Prkwy
03/22/2019 03:05	Flowing foam at tank farm
03/22/2019 03:17	Foam complete at tank farm
03/22/2019 04:08	112 Totes of foam confirmed on site. 18 Totes enroute to arrive at 8:00. 18 additional totes enroute to arrive at 09:00, 18 totes enroute to arrive at 12:00, 86 Drums enroute to arrive at 16:00.
03/22/2019 04:20	Envent degasser hooking up. All hydraulic hoses are hooked up. Pumping truck hoses hooked up. Concrete Pumper Truck worker stated will not work until daylight. Transfer operation will not take place until daylight.
03/22/2019 04:24	CIMA Unit Log: News media arrived at Check Point 2
03/22/2019 04:37	Received report from Oxy Battle Ground Facility of a reading 140 ppm VOCs at the guard shack. The facility is taking shelter in place. CTEH air monitors confirmed 120 VOC at the same location. Wind direction is from the SW. Oxy facility is down wind.
03/22/2019 04:45	Flowing foam at tank farm.
03/22/2019 04:55	Foam application complete at tank farm.
03/22/2019 05:06	UAS IR overflight of tank farm take off.
03/22/2019 05:15	10.5 ppm benzene reported from air monitor at Tank 80-13.
03/22/2019 05:25	UAS IR overflight is complete.
03/22/2019 06:03	All notifications to neighboring facilities have been made to inform them of the product transfer to begin at approximately 06:30.
03/22/2019 07:00	Setup mats for area east of tank farm for cranes and equipment.
03/22/2019 07:07	Waste water power restored.
03/22/2019 07:08	Hydro cutting equipment is en-route to 80-7. Need to confirm ETA.
03/22/2019 07:10	Media presentation at 10:00. Requested to do a drive along ship channel. USCG can provide boat.
03/22/2019 07:11	125 totes of foam confirmed on site.
03/22/2019 07:12	Working on Plan for Tank 80-14 & 80-15.
03/22/2019 07:25	Having off site impacts. Shutdown at Check Point 2 (Independence and Miller Cutoff).

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03/22/2019 07:35	Product removal from 80-7 remains main objective.
03/22/2019 07:42	Stopped foam application on Tank 80-7. Checking ratings prior to commencing pumping/transfer operations.
03/22/2019 07:43	Road between Tank Farm A & B between MCC 5 & 7 will be closed for the remainder of the day.
03/22/2019 08:21	80-18 is ready to begin pumping. Checking pressure on the truck. Moving into position to start suction
03/22/2019 08:33	United 3 ft gooseneck with hoses arrives.
03/22/2019 08:40	Started vac truck at 80-3 at the dyke wall. About to start de-gassing at 80-18. Once degas machine is on 80-18 we will start the pump truck.
03/22/2019 09:23	Lifting of the pump for placement for 80-7 product evacuation operation
03/22/2019 09:28	Hot Zone enhanced east to cover Independence Rd.
03/22/2019 09:30	Pumping has started at the dike wall for the tank farm into tank 80-18. There is a small leak in the pump hose, a kitty pool has been placed under the hose to contain the leak. Pumping operation will stop to repair hose and recommence.
03/22/2019 09:59	TRG UAS personnel deploy to tank farm for acquisition of ortho imagery.
03/22/2019 10:43	Kirby Marine reporting barges oiled. OMI sent for assessment.
03/22/2019 10:44	Dixie Chemical reports employees are experiencing headaches and a sweet taste in their mouth. Dixie Chemical Warehouse shutdown.
03/22/2019 11:19	Environmental Defense Fund and Galveston Bay Foundation taking water samples in ship channel.
03/22/2019 11:57	Swamp drains open to get level down.
03/22/2019 12:00	North dike wall collapsed by tank 80-7. Foam flowing in ditch towards Tucker Bayou.
03/22/2019 12:05	Initial Response: FOSC requested SCAT/RAT teams to evacuate the area.
03/22/2019 12:23	Initial Response: LNO notified neighbors.
03/22/2019 12:23	Initial Response: Notified OMI to boom Tucker Bayou.
03/22/2019 12:25	Initial Response: Updated E-Notify message and posted.
03/22/2019 12:35	Initial Response: 4 layers of containment boom are being deployed at 4Y
03/22/2019 12:35	Initial Response: Safety requested air readings in the released area. Safety requested head count for all personnel in the field.
03/22/2019 12:40	Initial Response: Environmental requested to mobilize the UAS drone for video of the containment breach area and boomed area in Tucker Bayou.
03/22/2019 12:49	Initial Response: 0.1ppm Benzene, 0 LEL @ Gate 20 6.8ppm Benzene, 0 LEL @ Tucker Bayou
03/22/2019 12:50	Initial Response: Working to provide escape packs for Cotton food service personnel
03/22/2019 12:54	Initial Response: EPA and TCEQ approved the press release.
03/22/2019 12:55	Initial Response: Sampling teams have been requested to sample areas in Tucker Bayou.
03/22/2019 13:00	Initial Response: SOSC received word that there are 0 readings in Jacinto Point and Sheldon Rd.
03/22/2019 13:01	Initial Response: Incident command was transferred from Deer Park to Pasadena at 1300
03/22/2019 13:04	Initial Response: Hot Zone Update: south side of CCR and training building requires full face respirators.
03/22/2019 13:10	Initial Response: Tony Stamper with NRC has arrived at the dock with OMI.
03/22/2019 13:15	Initial Response: USCG has currently closed the ship channel from DOW to Santa Anna Bayou Inlet.

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03/22/2019 13:18	Initial Response: Situation Status Update: -All contractors accounted for. 1 TRG sheltered in place in hot zone. Will be provided PPE and moved to Environmental Building to shelter in place. -Crews focused on recovering spilled material from Tucker Bayou back towards the release point. -OMI protective booming strategies requested 40-1 and 40-L. -NRC spill contractor has been notified for on water recovery operations. -NOAA working on providing a spill trajectory for the ship channel. -Air Quality - 1.5ppm at San Jacinto monument area. Lynchberg Ferry and San Jacinto monument have been shut down. -All impacted neighbors have been notified of the incident.
03/22/2019 13:18	Initial Response: Planned Actions: -Fire fighting capabilities stationed along east side of the tank farm - foam continues to be applied. A coffer dam is being constructed in the ditch. Jersey barriers and sand bags will be used to rebuild the dike wall and provide containment. -Air monitoring will continue -OMI and NRC will work to recover spilled material along Tucker Bayou and on-water in the ship channel.
03/22/2019 13:45	Initial Response: Team onsite to begin repairs on the concrete pumper
03/22/2019 14:16	Initial Response: Protection booming locations identified(GRPs): -54A -40J -40I -40K -54D -40L (Not enclosing channel, protective boom along shoreline only)
03/22/2019 14:38	Initial Response: confirmed till 6 inches of product/foam/water within the tank dike wall
03/22/2019 15:22	Initial Response: Started foaming tank 80-7.
03/22/2019 15:27	Initial Response: Dike wall coffer dam has been completed
03/22/2019 15:28	Initial Response: Completed temporary dam in the drainage ditch near Gate 13.
03/22/2019 15:34	Initial Response: Smoke reported coming out of tank 80-5.
03/22/2019 15:42	Initial Response: Tank farm re-ignited. Tanks 80-5, 80-2, 80-3
03/22/2019 15:47	Initial Response: Ditch reported to have caught fire outside of tank farm. Fire running down ditch near spheres. Deluge activated on spheres for cooling.
03/22/2019 15:51	Initial Response: All personnel at 4 Dock ordered to evacuate
03/22/2019 15:53	Initial Response: Power reported OFF at incident location
03/22/2019 15:54	Initial Response: Ruptured pipe reported in a pipe rack near Tank 80-3
03/22/2019 15:57	Initial Response: Additional hose brought to try and get closer to get foam applied on fire in ditch
03/22/2019 16:03	Initial Response: Fire boat enroute to Dock 1.
03/22/2019 16:19	Initial Response: Fire boat has arrived at Dock 1.
03/22/2019 16:22	Initial Response: Call to evacuate CCR
03/22/2019 16:22	Initial Response: VOPAK standing by with 5" lines to support fire response.
03/22/2019 16:33	Initial Response: National Response Corporation (NRC) en route to support on water recovery operations.
03/22/2019 16:46	Initial Response: Suncoast fuel trucks to stage at independence parkway at south side of railroad tracks.
03/22/2019 16:49	Initial Response: Grass fire reported in ditch. (2) 250lb extinguishers en route.
03/22/2019 16:51	Initial Response: Houston fire will keep fire boat on-scene for continued support
03/22/2019 17:08	Initial Response: USCG overflight is en route
03/22/2019 17:15	Initial Response: All re-ignited fires extinguished at 17:15
03/22/2019 17:26	Initial Response: Small fire re-ignited on the east side of tank 80-3 in manifold. Foam is being continuously applied.
03/22/2019 17:59	Initial Response: Latest Benzene ppm concentration 1.9 at traffic control building

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03/22/2019 18:25	Initial Response: Reported product leak at D&E track west of tank farm that smells like xylene.
03/22/2019 18:42	Initial Response: Forward operating base has moved from Training Building, to Traffic Control Building and now to the south side of the plant at the South Office (Administration Office)
03/22/2019 20:10	Initial Response: .5 Benzene reading from HFD Fire Boat at Ferry Landing
03/22/2019 21:37	Initial Response: Kirby Marine vessel crew reporting strong odors on Carpenters Bayou between Houston Fuel Oil Terminal and Kirby Training Facility. LNO notified TCEQ on complaint.
03/23/2019 00:56	Initial Response: US Fire Pumps delivered 2 Submersible pumps to tank farm
03/23/2019 01:08	Initial Response: Conducted IR drone overflight of the tank farm
03/23/2019 02:36	Initial Response: Foam count: 155 drums and 145 totes
03/23/2019 03:55	Initial Response: 1.7 Benzene reported at Jacinto Port
03/23/2019 04:05	Initial Response: Containment wall intact
03/23/2019 04:14	Initial Response: Re-apply foam blanket at tank farm
03/23/2019 07:00	Initial Response: Situation Status Update: -1 ITC personnel seen at First Aid (Tweak Back) -2 Kirby Marine personnel claiming benzene exposure -US Pump & Fire on site and staging foam and fire fighting equipment -155 drums, 159 totes on site (75 totes enroute today, 75 totes enroute tomorrow) -Building dike wall in tank farm (clay) - Building bridge across ditch -Entities to coordinate air data with IC at 07:45 -IC requesting Org Chart for each entity (Day & Night) -USCG Strike Team enroute (ETA this afternoon) -Repair of 2 24in pipe. Working on a 3rd -Updated Stakeholder Meeting Schedule: 2am, 8am, 2pm, 8pm -Hot Zone changed to north of ship channel -Requesting aerial recon for visuals
03/23/2019 08:44	Initial Response: Hot Zone has been reduced further south to Park Road 1836 & Independence
03/23/2019 08:56	Initial Response: Benzene levels at Dock 4: 4.25ppm
03/23/2019 10:01	Initial Response: 8" hose staged, getting actuators open, using trucks to move power unit and pump to southwest corner of tank farm
03/23/2019 10:14	Initial Response: (3) Skimmers are operating in the ship channel, anticipating skimming 22,000bbls/day of water/product (24hr period). Storage barges have been identified for skimmers to offload
03/23/2019 11:30	Initial Response: Decontainment Plan Version 2.0 approved
03/23/2019 13:45	Initial Response: Stolt Barge Facility on Carpenters Bayou are securing their facility for 24 hours. 9 personnel departed.
03/23/2019 14:00	Initial Response: USCG (Robin Lonnette Vessel) reports sheen in Carpenters Bayou by Target Dock.
03/23/2019 15:09	Initial Response: Texas Responder and NRC Admiral enroute.
03/23/2019 15:52	Initial Response: Kirby Marine personnel (Nathaniel Hough) confirmed evacuated.
03/23/2019 16:11	Initial Response: Shell Deer Park Port boomed off by Shell.
03/23/2019 16:40	Initial Response: Texas Responder arrives at Fred Hartman Bridge.
03/23/2019 16:41	Initial Response: Tank Transfer Plan approved.
03/23/2019 17:18	Initial Response: 2 vessels evacuated crew members on board (EMS Express - 4 crew members, Good Shepherd - 6 crew members). Both vessels evacauted members due to precaution. No one evacuated due to medical conditions.
03/23/2019 17:41	Initial Response: Per Houston Pilots: 26 inbound and 24 outbound commercial ships impacted.
03/23/2019 17:50	Initial Response: Cargill calls EOC regarding air readings. LNO notified.
03/23/2019 18:05	Initial Response: Entrainment found in Carpenters Bayou. Notified OMI.
03/23/2019 20:20	Initial Response: Completed foam application on north size 80-7 and on south side
03/23/2019 20:32	Initial Response: 50 ITC -- 34 Contractors 30 US Pumps

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03/23/2019 21:04	Initial Response: Foaming ditch
03/23/2019 21:13	Initial Response: Completed foaming
03/23/2019 21:20	Initial Response: Clean Channel (T&T) Barges Henry T and Bill Spence arrived.
03/23/2019 21:21	Initial Response: Drone landing for battery change
03/23/2019 21:23	Initial Response: Foaming south side
03/23/2019 21:26	Initial Response: LSC Secured light towers and they are enroute
03/23/2019 21:27	Initial Response: Safety needs SDS fro product in tanks and SDS for form - routed to John - scan to Jessie Devale and Hunter Willis
03/23/2019 21:30	Initial Response: Finished foaming on South side
03/23/2019 21:44	Initial Response: Drone on stand-by
03/23/2019 22:25	Initial Response: Foam application on southside
03/23/2019 22:26	Initial Response: FE-2 re-foaming
03/23/2019 22:46	Initial Response: Transfer operation stopped
03/23/2019 22:59	Initial Response: Light plants arrived
03/23/2019 23:00	Initial Response: Drone in air
03/23/2019 23:20	Initial Response: Drone landed
03/23/2019 23:43	Initial Response: 1461 bbl per hr on transfer 11-5 8/16th
03/23/2019 23:57	Initial Response: 8' 2/6 level
03/24/2019 00:18	Initial Response: Foaming complete south side
03/24/2019 00:19	Initial Response: Drone preparing to launch
03/24/2019 00:21	Initial Response: Drone airborn
03/24/2019 00:40	Initial Response: Drone landed
03/24/2019 00:44	Initial Response: 153-totes, 25-drums, 120-5 gallon pales of foam
03/24/2019 00:52	Initial Response: .75 Detection Sheldon / Jacinto Port Blvd
03/24/2019 00:56	Initial Response: 371 BBLS per hour --
03/24/2019 01:26	Initial Response: .75 detection near Carpenter Bayou & Sheldon rd
03/24/2019 01:27	Initial Response: 28 personnel working on the water
03/24/2019 01:47	Initial Response: 11 loads of oily/water mix total from the 130 bbl vac truck at Tucker's Bayou.
03/24/2019 01:58	Initial Response: Total bbls moved out of Tank 80-7: 12,647 bbls. Total volume in Tank 80-18 is 30,657.
03/24/2019 02:03	Initial Response: Drone takeoff for IR overflight of boom arm vacuum operations.
03/24/2019 02:13	Initial Response: Starting foaming ops
03/24/2019 02:14	Initial Response: Confirmed boom arm vacuum cannot be moved.
03/24/2019 02:19	Initial Response: Confirmed pumping has ceased on boom arm vacuum due to boom arm not being able to be moved.
03/24/2019 02:24	Initial Response: Drone IR overflight of boom arm vacuum operation is complete.
03/24/2019 02:31	Initial Response: 14,200 BBLS recovered
03/24/2019 03:38	Initial Response: 15 totes of foam arrived.
03/24/2019 03:38	Initial Response: 15 totes of foam arrived.
03/24/2019 04:00	Initial Response: Drone IR overflight of boom arm vacuum operation of tank 80-7.
03/24/2019 04:15	Initial Response: 2 inches of liquid in containment area, ~5ft of foam.
03/24/2019 04:19	Initial Response: Update on Foam numbers: 168 totes, 20 drums & 120 5-gallon buckets.
03/24/2019 04:21	Initial Response: Air monitor readings between 3:03 and 4:09 there was 16 readings above .5
03/24/2019 04:22	Initial Response: Drone landed from IR overflight of boom arm vacuum operation of tank 80-7.

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03/24/2019 04:27	Initial Response: Drone IR overflight of tank 80-7 to view product volume within tank. Checking hot spots between 80-2, 80-3 & 80-6.
03/24/2019 04:42	Initial Response: Drone landed from IR overflight of tank 80-7 and checking hot spots between 80-2, 80-3 & 80-6.
03/24/2019 04:44	Initial Response: Starting foam application
03/24/2019 04:45	Initial Response: 12 additional totes of foam arrived. Total of 180 totes, 20 drums & 120 5-gallon buckets.
03/24/2019 04:52	Initial Response: NRC Admiral to stay at the battle ship being air monitor readings are below .1 at that location and they currently don't have enough ppe.
03/24/2019 05:06	Initial Response: Fire Boats reporting reading of 7.62 reading of Benzene located across from Cargill. (@11 and 12 dock)
03/24/2019 05:12	Initial Response: Update: 14,634 bbls in tank 100-28 from vac truck operations in ditch.
03/24/2019 05:24	Initial Response: Dow Chemical reporting a air monitor reading of 7.6 and they are sheltering in place.
03/24/2019 06:40	Foam deployment commenced on tanks.
03/24/2019 07:00	Hot Zone Established at 4 dock.
03/24/2019 08:59	American Commercial Barge Line (ACBL) resports oil slick in Carpenters Bayou.
03/24/2019 09:07	Tank Farm Field Operations - KLumpkin and PPritchard ARR FOB - Independence for field support
03/24/2019 09:32	Tank Farm Field Operations - Drone flying now over tank farm
03/24/2019 10:13	Tank Farm Field Operations - Drone flight terminated due to battery. Switch to Matrisse Drone after a foam application
03/24/2019 10:15	Foam deployment commenced on tanks.
03/24/2019 10:42	NRC Admiral currently deployed and actively conducting sweeps with sorbent boom and operating weir skimmers. Recovery from skimmers is 90-95% water mixed with product.
03/24/2019 10:42	Foam deployment complete.
03/24/2019 11:30	Vessel traffic operator calls Situation regarding booming of San Jacinto.
03/24/2019 11:33	OMI reports 756 gallons (18 bbls) recovered of product.
03/24/2019 11:51	SCAT: Product spotted outside of the divisions by Peggy Lake (60'x60').
03/24/2019 12:55	4 crew members evacuated Vessel Betty L. Reporting party J.A.M. Distributing.
03/24/2019 13:09	Tank Farm Field Operations - Matrisse Drone operational and flying
03/24/2019 13:30	Tank Farm Field Operations - Leakage detected in the tank farm wall repair, low in the wall structure
03/24/2019 13:34	Admiral and Sheila Jackson Lee deployed for an overflight.
03/24/2019 13:35	Tank Farm Field Operations - Second flight Matrisse Drone commencing
03/24/2019 13:45	Tank Farm Field Operations - Foaming of west tank farm began @ 13:45
03/24/2019 13:48	Tank Farm Field Operations - Second Matisse drone flight terminated due to foaming operation
03/24/2019 14:47	Tank Farm Field Operations - US Fire Pump pers in manlift over tank 80-7 to inspect submersible pump
03/24/2019 14:54	Tank Farm Field Operations - US Fire Pump pers have freed the boom arm suspended subsmersible pump and have identified a deeper sump area to change placement
03/24/2019 15:10	Tank Farm Field Operations - Power lost at ITC Admin building, comms contunue
03/24/2019 15:15	Tank Farm Field Operations - Power restored ITC Admin building
03/24/2019 15:15	Tank Farm Field Operations - Pumping started
03/24/2019 15:33	Cowgill Incorporated calls for update on benzene readings (16150 Peninsula St.)
03/24/2019 15:38	OXY reports product down Patrick's Bayou.
03/24/2019 15:49	Tank Farm Field Operations - Foam count update: 158 totes, 23 drums and 26 5 gallon buckets
03/24/2019 17:06	Opening San Jacinto to outbound towing traffic. They should be met by a small boat to do a loop around. Vessel to inspect for pollution then approve them to pass.
03/24/2019 17:10	Tank Farm Field Operations - Suspended foaming of tanks

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03/24/2019 17:26	RAT Team deployed to Patrick Bayou for assessment of product. Silver sheen verified outside of boom.
03/24/2019 18:07	Tank Farm Field Operations - 80-7 offloading rate=850 bbl/hr, 80-14=600 bbl/hr
03/24/2019 18:21	Tank Farm Field Operations - Foaming of tanks commences
03/24/2019 19:25	Tank Farm Operations: Current rate of 2,500bbls/hr out of 80-7 & 80-14.
03/24/2019 19:55	Tank Farm Field Operations - Night Ops manpower 45 ITC personnel & 73 contractors
03/24/2019 19:57	On Water Operations - NRC 10 vessels, 30 responders doing skimming, booming with Clean Channel barges in Divisions B & C. OMI has 4 vessels, 22 responders doing booming and boom replacement.
03/24/2019 20:19	Tank Farm Operations: Foaming Operations on the North Side complete.
03/24/2019 20:28	Tank Farm Operations: 17 totes of foam arrived.
03/24/2019 20:32	Tank Farm Operations: Foaming Operations on the North Side & South Side complete.
03/24/2019 20:36	Report received of possible exposure of crew member from Buffalo Marine on the San Rafael vessel located at Bostco. POC Shanna Castanie (713) 923-5571.
03/24/2019 21:00	Report that an individual called in with a report of foam and foam residue at Houston Fuel Oil. Contacted the individual and it was a wrong number given prior.
03/24/2019 21:09	Tank Farm Operations: Drone takeoff for IR overflight.
03/24/2019 21:13	Air Monitoring Detection Report: Benzene Div A - 5 - readings between .45 - 11.3 ppm Div B - 12 - readings between .05 - 11.75 ppm Div C - 5 - readings between .075 - 2.75 ppm Div D - 0 Div E - 58 - Highest reading was 64.4 ppm Industrial Area - 13 readings between 0.1 - 2.325 ppm Impacted tank farm - 13 readings between 0.1 - 33.75 ppm Butadiene: Div E - 13 readings between .08 - 1.35 ppm
03/24/2019 21:30	Tank Farm Operations: Drone landed from IR overflight.
03/24/2019 21:32	Tank Farm Operations - Foam Operations begin.
03/24/2019 21:41	Tank Farm Operations - Foam update: 220 totes, 24 drums, 32 - 5 gallon buckets.
03/24/2019 21:57	Tank Farm Operations - Foam Operations complete.
03/24/2019 21:59	NRC Admiral requesting CTEH monitor.
03/24/2019 22:10	Tank Farm Operations - 80-14 tank pumping stopped at level 1-10-3 (~2,520 bbls)
03/24/2019 22:59	Vac truck operations at Tucker Bayou report from 1900-2300: 9-130bbls vac trucks and 2-70bbls vac trucks; total of 1,310 bbls of oily/water mix offloaded into Tank 100-28
03/24/2019 23:27	Air Monitoring Detection Report: Benzene Div A - 0 readings Div B - 7 - readings between 4.025 - 14.5 ppm Div C - 1 - reading 1.25 ppm Div D - 0 Div E - 17 - readings between 0.54 - 30.33 - Highest reading was at Tidal by tank 80-10. Industrial Area - 2 readings 0.97 & 1.425 ppm - Tucker Bayou @ Dow property line. Impacted tank farm - 0 detected - 9 readings < 0.5 ppm Butadiene: Div E - 2 reading 1.28 & 2.3 ppm @ Tidal Rd.
03/24/2019 23:33	Tank Farm Operations - South Side Foaming Operations complete and starting on North Side.
03/24/2019 23:38	Tank Farm Operations - Test of 80-10 pump.
03/24/2019 23:47	Tank Farm Operations - North Side Foaming Operations complete.
03/24/2019 23:53	Tank Farm Operations - Pump is on at 80-10.
03/25/2019 00:00	Tank Farm Operations - 80-10 start up.

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03/25/2019 00:00	Tank Farm Operations - Pumping started on 80-14
03/25/2019 00:02	Tank Farm Operations - Good flow from 80-10.
03/25/2019 00:25	Tank Farm Operations: Current rate of 2,000bbls/hr out of 80-7 & 80-10.
03/25/2019 00:34	Tank Farm Operations - Report of an HMI individual getting sprayed with fluid. Gasket blows out while offloading truck to frac tank and sprayed on the individual. Individual was showered for Decon and provided fresh coveralls, there was no signs of blistering on the individual. Update 01:10 - Individual is going to get checked out by medic on ambulance on Tidal. Update 02:23 - Individual was taken to Community 1st ER on Sims Rd. for precautionary measures. Update 02:47 - Individual is being transported to HCA Houston SouthEast Hospital via ambulance.
03/25/2019 00:48	Air Monitoring Detection Report: Benzene Div A - 0 Div B - 4 - readings between 2.07 - 3.87 ppm Div C - 0 Div D - 0 Div E - 13 - readings between .575 - 5.87 Highest reading was @ Tidal Industrial Area - 0 Impacted tank farm - 0 Butadiene: No testing done.
03/25/2019 00:49	Tank Farm Operations - Foam operations starting on the ditch.
03/25/2019 00:57	Tank Farm Operations - Foaming operations complete on the ditch.
03/25/2019 01:30	Tank Farm Operations: Current rate of 1,832bbls/hr out of 80-7 & 80-10.
03/25/2019 01:30	Tank Farm Operations: Current storage amount in 80-18 is 29,093bbls
03/25/2019 02:26	Tank Farm Operations: Drone takeoff for IR overflight.
03/25/2019 02:30	Tank Farm Operations - Pressurizing line 70 (with air)
03/25/2019 02:40	Tank Farm Operations: 80-10 pump is turned off it was making noises and changing out pumps.
03/25/2019 02:50	Tank Farm Operations: Drone IR overflight complete.
03/25/2019 02:50	Tank Farm Operations - Foam operations started on the South side.
03/25/2019 02:50	Air Monitoring Detection Report: Benzene Div A - 0 Div B - 7 - readings between 0.62 - 40.0 ppm Highest reading @ Dock 4 Div C - 16 readings with 0 detections Div D - 0 Div E - 38 - readings with 3 detections between 0.57 - 1.67 Industrial Area - 84 readings with 1 detection of 3.225 ppm @ Tucker Bayou Restricted Community - 8 readings with 0 detections Community - 56 readings with 0 detections Butadiene: No testing done.
03/25/2019 02:58	Tank Farm Operations - Foam operations complete on the South side.
03/25/2019 03:02	Tank Farm Operations - Foam operations started on the North side.
03/25/2019 03:06	Received a phone call on SITL phone from VTS (Acosta (281) 464-4836) asking about air monitor readings at San Jacinto Port. Provided him with air monitor readings of 0.39 @ 12:14 and 0.18 @ 12:20.
03/25/2019 03:10	Tank Farm Operations - Foam operations complete on the North side.
03/25/2019 03:21	Update on Vacuum trucks for night shift - total of 13 - 150bbls and 2 -70bbls vac trucks - Total of 2,090 bbls
03/25/2019 03:55	Tank Farm Operations: Current rate of 640bbls/hr out of 80-7.
03/25/2019 03:55	Tank Farm Operations: Current storage amount in 80-18 is 31,928bbls
03/25/2019 04:00	Tank Farm Operations: 80-10 pump is changed out and is restarted.

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03/25/2019 04:00	Air Monitoring Detection Report: Benzene Div A - 0 Div B - 5 readings with 2 detections 3.075 - 7.5ppm Div C - 16 readings and 0 detections Div D - 0 Div E - 54 readings with 6 detections between 1.375-8.39ppm - Highest reading @ Tidal & Independence Industrial Area - 84 readings and 1 detection of 3.225 ppm @ Tucker Bayou Impacted Tank Farm - 10 readings with 0 detections Community - 53 readings with 0 detections Butadiene: Div E - 6 readings with 0 detections
03/25/2019 04:05	Tank Farm Operations: Diaphragm pump was leaking on Independence.
03/25/2019 04:10	Tank Farm Operations: Diaphragm pump is fixed on Independence.
03/25/2019 04:17	Tank Farm Operations: Foaming operations on the South Side started.
03/25/2019 04:17	Tank Farm Operations: Measurement was taken of the fluid level inside the containment area with a average of 5 1/2 inches.
03/25/2019 04:28	Tank Farm Operations: Foaming operations on the South Side complete.
03/25/2019 04:30	Tank Farm Operations: Foaming operations on the North Side started.
03/25/2019 04:35	Tank Farm Operations: Current storage amount in 100-28 is 33,912bbls
03/25/2019 04:40	Tank Farm Operations: Foaming operations on the North Side complete.
03/25/2019 04:49	Tank Farm Operations - Foam update: 215 totes, 24 drums, 26 - 5 gallon buckets.
03/25/2019 05:00	Tank Farm Operations: Foaming operations near Tidal Road started.
03/25/2019 05:00	Tank Farm Operations: Current storage amount in 100-28 is 38,634bbls
03/25/2019 05:00	Tank Farm Operations: Current storage amount in 80-18 is 34,189bbls
03/25/2019 05:08	Tank Farm Operations: Foaming operations near Tidal Road completed.
03/25/2019 05:46	Tank Form Operations: Line 70 is not holding pressure. Pressuring line 75 is being pressurized now with air and is currently at 40 psi.
03/25/2019 06:51	Tank Farm Operations - Call to US Fire to foam tank farm. Avg liquid level 5.5 inches.
03/25/2019 07:19	Tank Farm Operations - South side of tank farm foaming complete, foaming north side now.
03/25/2019 07:20	Tank Farm Operations - Foaming operation complete.
03/25/2019 07:56	Orion Marine Group: (17300 Market St. Dock) reported sheen in area.
03/25/2019 08:02	Tank Farm Operations - T&T starting pumps from 80-10 to the 80-18
03/25/2019 08:28	Tank Farm Operations - Foaming operation begins south side of farm.
03/25/2019 08:38	Tracy Sherry (Florida Marine Transportation) reported at Old River Fleet/Sheryl Kay - strong smell (clear sheen on water) no readings on monitor.
03/25/2019 08:48	VTS reports T/V Louisiana was going from San Jac to Kinder Morgan - needs boom removed to continue transit.
03/25/2019 09:08	Tank Farm Operations - Drone ops underway, identifying aspects of tanks 80-7, 80-10, 80-15 and 80-15.
03/25/2019 10:14	Tank Farm Operations - Foam on hand, update 211 totes, 23 drums, 32 5 gal buckets
03/25/2019 10:30	MV Jerry Torok at the ACBL Boat Dock Carpenter's Bayou reports sheen in area.
03/25/2019 10:42	Tank Farm Operations - 2 Shell facility pers arrive at FOB requesting dock access to air monitor and match readings. DOSC has refused their entry and is sharing our readings.

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03/25/2019 11:45	Situation Unit phone conference with VTS, COTP, and pilots: -COTP opened the channel from San Jac outbound for day light transits -Requested additional boom around San Jac for more protection -COTP permitted one ship transit every hour to allow time for inspection and potential decon. -COTP permitted one tug barge transits every 40 minutes to allow time for inspection and potential decon. -Requested MSIB for daylight operations
03/25/2019 11:50	CG LOFR, LCDR Damon, requested SITL to receive status updates from division members in field. Water Ops Branch Chief, Reid McLelland, provided the following: -wind pushing product back into docks in the vicinity of ITC -crews are adding extra protection on previously identified upper pockets of product such as extra boom and addition skimming -M/V Admirals is skimming along San Jac river and two Clean Channel barges are skimming along Old River -The two Channel barges reported collection of approx. 6 bbl of product each -MSRC vessels are currently placing boom and have not started skimming
03/25/2019 12:09	Tank Farm Operations - Thunderstorms to the North around Huntsville coming southerly. Decision made to relocate FOB to the San Jacinto Monument Park (USS Texas parking lot)
03/25/2019 12:15	Division B status update provided to SITL by Amos Carroll: -Estimated time for completion for 67-inch boom deployment at Tucker Bayou is 1400 -Texas Responder detected high benzene level while conducting boom deployment and moved away from the area -Completed deployment of 500 feet of 18-inch boom located across from ITC dock
03/25/2019 12:15	Division C status update provided to SITL by Amos Carroll: -Boomed off Carpenters Bayou -No ops conducted in Old River because too shallow -Identified product on NITA ECHO
03/25/2019 12:15	COTP requested benzene readings at facilities across the waterway from ITC. SITL consulted CTEH. CTEH found readings over last two hours were mostly below the detectable limit of 0.25 ppm; however, a few readings were over the action level of 0.5 ppm. Identified a benzene level of 0.7 ppm at Buffalo Bayou. Received another reading of 1.35 ppm along Buffalo Bayou from a skimmer and a third reading of 1.9 ppm in the vicinity of Channel View Shipyard. SITL passed information to CG LOFR to pass to COTP.
03/25/2019 12:30	SITL received notification MITSRU that VOPAK reported they are no longer able to operate due to lack of product.
03/25/2019 12:45	Tank Farm Operations - All FOB personnel ARR new FOB location 29 45 17.1N, 95 05 18.8W
03/25/2019 12:45	SITL received report for Division C supervisor, Chris Kyser, requesting an additional air monitoring person for an OMI assest marco vessel that was scheduled to start recover ops. PSC took for action.
03/25/2019 13:00	SITL received report of sheen from Ken at Enterprise Marine (985-226-4327). SITL requested he follow up with an email and pictures to J Kolek.
03/25/2019 13:26	Texas Responder received high benzene readings. Reported to CTEH.
03/25/2019 13:30	COTP requested SITL have the decon plan updated to reflect more logistical and operational information (ex. locations of decom, number of personnel required, line handling crew, logistics of cleaning, ect.). SITL consulted Env. Unit Leader (Helen) and Ops Support Staff (Lance) on the COTP's request. Lance stated he would pass request at tactics meeting. Also, spoke with OMI rep, John Temperalli, who stated he would consult his staff on providing an update to the decon plan.
03/25/2019 13:45	Monitoring Brief update: awaiting approval of waste management plan. Currently one 70 bbl capacity vac truck holding 30 bbl and two full roll off boxes of used sorbent at KSOLV. The vac truck is expected to be full by tonight.
03/25/2019 14:11	FOB relocating to parking lot by the USS Texas. Pre-work Level A entry to Tank Farm. Verify/close main line valves and open sump lines.
03/25/2019 14:30	SITL received report of sheen from Chris at Blessy Marine (504-201-5431). SITL requested he follow up with an email and pictures to J Kolek.

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03/25/2019 14:37	Tank Farm Operations - Preparations being made for a Level A entry to the tank farm to verify valve line up of tanks 80-13 and 80-14. Drone OPS with accompanying air monitoring from the west will be concurrently operated.
03/25/2019 15:02	Tank Farm Operations - Drone in place awaiting entry team
03/25/2019 15:02	Orion Marine Group (Chris) Old River decontamination of this area.
03/25/2019 15:47	Tank Farm Operations - Begin Level A entry to secondary containment
03/25/2019 15:54	Tank Farm Operations - Level A team exits the tank farm containment. Team not able to open sump valve on tank 80-15.
03/25/2019 16:05	Tank Farm Operations - Start foam application
03/25/2019 16:30	Division C and B status update provided to SITL by Amos Carroll: - 52 bbls of product recovered from three marco skimmers - MSRC did not do any skimming - deployed 1,300 feet of boom - used 5 bundles of sorbent pads - used 100 feet of sorbent boom
03/25/2019 17:15	Tank Farm Operations - Foam update: 201 totes, 23 drums, 32 - 5 gallon buckets.
03/25/2019 17:49	Tank Farm Operations - Foaming tanks 80-7, 80-14 and 80-15
03/25/2019 17:52	Tank Farm Operations - Drone flight to inspect Tucker Bayou to Dock 4, for Carl Holley.
03/25/2019 19:00	Tank Farm Operations - Current flow rate: 80-7 : 200bbls/hr 80-10 : 553bbls/hr 80-14 : 500bbls/hr
03/25/2019 19:45	Air Monitoring Detection Report: Benzene Div A - 5 readings with 0 detections Div B - 28 readings with 0 detections Div C - 40 readings and 1 detection of 0.75ppm @ Lynchberg landing near Monument Div D - 3 readings with 0 detections Div E - 106 readings with 13 detections between 0.525-12ppm - Highest reading @ Tidal rd area between 1st and 2nd. Industrial Area - 279 readings and 4 detections between 0.5-1.85ppm Highest on road to Clean Harbors next to Railroad tracks Impacted Tank Farm - 72 readings with 15 detections between 0.525-6.2ppm Community - 55 readings with 0 detections On-Water - 55 readings with 0 detections
03/25/2019 19:55	Tank Farm Operations - Tank 80-7 flow rate of 229bbls/hr
03/25/2019 20:40	Tank Farm Operations - Entry team 1 (3 man team) entered into tank farm to see if they can get valves open on 80-10 and 80-14 and 80-15.
03/25/2019 20:48	Air Monitoring - Reading at Dow on Tucker Bayou of 3.25ppm
03/25/2019 20:50	Tank Farm Operations - Tank 80-10 sump valve is confirmed open.
03/25/2019 20:50	OMI resource numbers for night shift - 30 manpower, 3 vessels.
03/25/2019 20:55	Tank Farm Operations - Entry team 1 exited tank farm. Complete task: Opened sump valve on tank 80-10.
03/25/2019 21:10	Tank Farm Operations - Entry team 2 (3 man team) entered into tank farm to see if they can get valves open on 80-14 and 80-15.
03/25/2019 21:25	Tank Farm Operations - Entry team 2 (3 man team) exited tank farm to see if they can get valves open on 80-14 and 80-15.
03/25/2019 21:28	Tank Farm Operations - Tank 80-14 sump valve is confirmed open.
03/25/2019 22:00	Tank Farm Operations - T&T restarting up pump transfer operations on tank 80-7.

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03/25/2019 22:15	Air Monitoring Detection Report: Benzene Div A - 0 readings Div B - 12 readings with 2 detections with readings between 0.6-1.5ppm Div C - 7 readings and 0 detections Div D - 0 readings Div E - 54 readings with 10 detections between 0.625-3.670ppm - Highest reading @ Tidal rd area between 1st and 2nd. Impacted Tank Farm - 20 readings and 3 detections between 0.525-10.150ppm Highest @ 80's tank farm Industrial Area - 94 readings with 6 detections between 0.860-7.350ppm Highest @ Tucker Bayou inside DOW Community - 47 readings with 0 detections On-Water - 4 readings with 1 detections 2.340ppm Restricted Community - 10 readings with 0 detections
03/25/2019 23:00	Tank Farm Operations - Update on tank 80-18 is currently 45,264bbls.
03/25/2019 23:00	Additional boom was deployed on Tucker Bayou.
03/25/2019 23:08	Tank Farm Operations - Foaming operations started.
03/25/2019 23:09	Tank Farm Operations - Tank 80-18 lost 10 inches. Shutting valves on tank. No leak visible.
03/25/2019 23:12	Tank Farm Operations - Hold on drone and foaming operations until further notice due to inspection of tank 80-18.
03/25/2019 23:17	Tank Farm Operations - T&T shut down pump transfer operations on tank 80-7.
03/25/2019 23:28	Tank Farm Operations - Foaming operations complete. 3 totes used.
03/25/2019 23:32	Vac Truck Operations Update - 3 vac trucks (130bbl) offloaded between 19:00-23:30. (390bbls)
03/25/2019 23:39	Tank Farm Operations - Update on tank 80-18 is currently 45,295bbls.
03/26/2019 00:00	Tank Farm Operations - Drone IR overflight taking off for 80-7, 80-10, 80-15, the ditch and Tucker Bayou.
03/26/2019 00:00	Air Monitor reading of 170ppm @ gate 3
03/26/2019 00:15	Air Monitoring Detection Report: Benzene Div B - 11 readings Div C - 21 readings and 0 detections Div E - 49 readings with 12 detections between 0.500-4.975ppm. Impacted Tank Farm - 18 readings and 8 detections between 0.525-3.100ppm Industrial Area - 110 readings with 9 detections between 0.600-5.250ppm Community - 54 readings with 0 detections On-Water - 14 readings with 1 detections 2.430ppm Restricted Community - 54 readings with 0 detections
03/26/2019 00:19	Tank Farm Operations - Update on tank 80-18 is currently 45,602bbls.
03/26/2019 00:20	Tank Farm Operations - Drone IR returned from overflight for 80-7, 80-10, 80-15, the ditch and Tucker Bayou.
03/26/2019 00:27	Phone call received from Total EOC reporting a reading of 1.7ppm. Deployed CTEH to collect readings.
03/26/2019 00:29	Tank Farm Operations - Tank 80-07 and 80-14 for a combined flow rate of 950bbls/hr.
03/26/2019 00:59	Phone call received from Total EOC reporting an all clear.
03/26/2019 01:04	Phone call received from DOW reporting all clear.
03/26/2019 01:23	Tank Farm Operations - Foaming Operations complete on the south side. 8 totes used.
03/26/2019 02:13	Deer Park PD reported of smell at Deer Park EOC. CTEH was dispatched to collect readings. Update @ 2:28 - CTEH reporting no detections.

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03/26/2019 02:15	Air Monitoring Detection Report: Benzene Div B - 2 readings Div C - 19 readings with 0 detections Div E - 45 readings with 6 detections between 0.500-5.150ppm. Impacted Tank Farm - 7 readings with 6 detections between 0.6600-3.470ppm Industrial Area - 83 readings with 9 detections between 0.500-1.650ppm Community - 37 readings with 0 detections On-Water - 4 readings with 0 detections
03/26/2019 02:24	Vac truck update: In last 4 hours - 3-130bbs & 2-70bbls for a total of 530bbls.
03/26/2019 02:30	Tank Farm Operations - Drone IR overflight taking off for 80-7, 80-10, 80-15.
03/26/2019 02:42	Tank Farm Operations - Update on tank 80-18 is currently 48,175bbls.
03/26/2019 02:53	Tank Farm Operations - Drone IR overflight complete for tanks 80-7, 80-10, 80-15.
03/26/2019 03:07	Tank Farm Operations - Foaming operations begin for ditches.
03/26/2019 03:07	Tank Farm Operations - Tank 80-7 pump restarted.
03/26/2019 03:08	Tank Farm Operations - Foaming operations begin for North side.
03/26/2019 03:10	Tank Farm Operations - Update on tank 80-18 is currently 48,439bbls.
03/26/2019 03:38	Tank Farm Operations - Foaming operations concluded for North side. 7 totes used.
03/26/2019 03:40	Tank Farm Operations - Update on tank 80-18 is currently 48,985bbls. The water cut is 12,971bbls.
03/26/2019 04:04	Tank Foam Operations - Foam Update : 188 totes, 23 Drums & 30 - 5 gal buckets.
03/26/2019 04:30	Air Monitoring Detection Report: Benzene Div A - 0 readings Div B - 15 readings with 0 detections Div C - 21 readings with 0 detections Div D - 0 readings Div E - 60 readings with 3 detections between 0.5-0.9ppm. Impacted Tank Farm - 7 readings with 6 detections between 0.66-8.3ppm Community - 54 readings with 0 detections On-Water - 3 readings with 0 detections
03/26/2019 04:45	Tank Farm Operations - Tank 80-7 pump shut down.
03/26/2019 05:00	Tank Farm Operations - Tank 80-10 pump started. Manifold swap.
03/26/2019 05:02	Tank Farm Operations - Update on tank 80-18 is currently 49,972bbls.
03/26/2019 05:06	Tank Farm Operations - Tank 80-14 pump shut down.
03/26/2019 05:15	Tank Farm Operations - Foaming operations begin for 80-7 & 80-14. North end.
03/26/2019 05:44	Tank Farm Operations - Update on tank 100-28 is currently 52,100bbls.
03/26/2019 09:44	VTS reports GRP 54-D boom not secured.
03/26/2019 10:15	Hot Zone at incident location updated.
03/26/2019 10:43	FOB: Drone back up to observe foaming operation.
03/26/2019 11:43	FOB: Boat operations will begin spraying water to push product into the 4 dock slip.
03/26/2019 11:46	FOB: Tank farm completely foamed.
03/26/2019 11:59	FOB: Drone up for foam check.
03/26/2019 12:13	FOB: Drone flights suspended, HCSD in the air with a helo.
03/26/2019 12:15	FOB: Shut down of submersible pump from tank 80-7. Foaming of tanks 80-3 and 80-5.
03/26/2019 12:45	Division B recovery - 12,600 gal (300 bbls)

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03/26/2019 12:59	FOB: HCSD helo ops secured. Drone ops underway to inspect tank 80-8.
03/26/2019 13:19	FOB: Drone secured, imagery copied.
03/26/2019 14:03	FOB: Drone flight ops secured, HCSD helo ops underway.
03/26/2019 15:03	Spotted Deceased Turtle, Location and exact time to be updated.
03/26/2019 15:14	FOB: Drone up for foaming operation observation
03/26/2019 16:06	Sheen reported west of Tucker Bayou. (Shell Deer Park)
03/26/2019 16:09	FOB: Drone ops secured, HCSD flying helo again.
03/26/2019 17:09	FOB: Drone ops for foam observation.
03/26/2019 17:40	FOB: Pumping through the tank farm storm water system.
03/26/2019 17:55	FOB: Removing pump crane arm from 80-7.
03/26/2019 19:39	Tank Foam Operations - Foam Update : 212 totes, 261 Drums & 30 - 5 gal buckets of 6% AFFF concentrate on hand. Total 72,805gal.
03/26/2019 19:48	Tank Farm Operations - Tank 80-13 transfer to Tank 80-18 hoses connected and pump turned on. 80-18 current tank level 32-11-0/ 55,010bbls.
03/26/2019 19:58	Tank Farm Operations - Foaming Operations for tank 80-2, 80-3, & 80-5 Begin.
03/26/2019 20:00	Air Monitoring Detection Report: Benzene Div B - 1 reading @ 0.150ppm Div E - 2 readings ranging from 0.150-0.5ppm. Impacted Tank Farm - 4 readings ranging from 2.075-3.975ppm
03/26/2019 20:03	Tank Farm Operations - Tank 80-13 transfer to Tank 80-18 transfer began.
03/26/2019 20:12	Tank Farm Operations - Foaming Operations for tank 80-2, 80-3, & 80-5 complete. 5 totes used.
03/26/2019 20:28	Personnel Accountability Report (PAR) for night shift - 57 ITC, 59 Contractors for the entire facility.
03/26/2019 20:28	Night Ops Equipment - 2 skimmers, 5 vac trucks working on Tucker Bayou and 6 trucks working on facility ditches.
03/26/2019 20:59	Air Monitoring Report - reading of 0.9 voc on East Blvd & 225. Winds currently coming from the NE @ 5kts
03/26/2019 21:00	Air Monitoring Detection Report: Benzene Div B - 2 readings 3.0ppm & 256.250ppm Div E - 3 readings ranging from 0.100-0.525ppm. Impacted Tank Farm - 6 readings ranging from 1.275-7.900ppm Industrial Area - 7 readings ranging from 0.225-.650ppm
03/26/2019 21:01	Air Monitoring Report - DOW EOC (Chris B.) reporting odors at Tidal and Tucker Bayou. Winds currently coming from the NE @ 5kts.
03/26/2019 21:05	FOB: Benzene levels 0.6; FOB moved to Battleship parking lot and resumed ops from Hazmat Support vehicle). Generator not on site; operating on 12 VDC. Re-established internet and IAP software comms.
03/26/2019 21:19	Tank Farm Operations - Foaming Operations for north side begin.
03/26/2019 21:26	Tank Farm Operations - Foaming Operations for north side complete. 7 totes used.
03/26/2019 21:30	Tank Farm Operations - Update on tank 100-28 is currently 55,256bbls. Current flow 182bbls/hr.
03/26/2019 21:42	18 totes of foam arrived.
03/26/2019 22:00	Air Monitoring Detection Report: Benzene Div B - 8 readings ranging from 0.100-3.580ppm Div E - 8 readings ranging from 0.08-4.0ppm Impacted Tank Farm - 9 readings ranging from 0.100-7.90ppm Industrial - 4 readings ranging from 0.350-.530ppm

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03/26/2019 22:34	Tank Farm Operations - Pumping operations on tank 80-13 - pump lost prime.
03/26/2019 22:36	FOB: Vac Truck overflowed @ 4 dock; 2 ppm Benzene.
03/26/2019 22:52	Tank Farm Operations - Foaming operations for tanks 80-2, 80-3 & 80-5 beginning.
03/26/2019 23:00	Air Monitoring Detection Report: Benzene Div B - 2 readings @ 0.200 & 2.75ppm Div E - 8 readings ranging from 0.10-2.075ppm. Impacted Tank Farm - 2 readings @ 0.250-30.750ppm Industrial - 1 reading @ 0.120ppm
03/26/2019 23:02	Tank Farm Operations - Foaming operations on the South side foaming complete and will start North Side shortly. 6 totes used.
03/26/2019 23:20	Tank Farm Operations - Foaming operations on the North side complete. 6 totes used.
03/27/2019 00:00	Air Monitoring Detection Report: Benzene Div B - 2 readings @ 0.120 & .750ppm Div E - 7 readings ranging from 0.100-3.30ppm Impacted Tank Farm - 1 reading @ 0.125ppm Industrial - 9 readings ranging from 0.110-2.950ppm
03/27/2019 00:50	Tank Farm Operations - Foaming Operations for North and South side begin.
03/27/2019 01:00	Air Monitoring Detection Report: Benzene Div E - 2 readings @ 0.35ppm & 2.80ppm Industrial - 2 readings @ 0.350ppm & 0.600ppm
03/27/2019 01:10	Tank Farm Operations - Foaming Operations for North and South side complete. 6 totes used.
03/27/2019 01:30	FOB: Tank Farm Liquid Level: 6 inches between 80-9 & 80-12 and 3 inches by 80-1.
03/27/2019 02:00	Air Monitoring Detection Report: Benzene Div B - 1 reading @ 0.420ppm Industrial - 4 readings ranging from 0.110ppm & 0.410ppm
03/27/2019 02:30	Tank Farm Operations - Drone IR overflight to view tanks 80-3, 80-5, & 80-13 begin.
03/27/2019 02:45	Tank Farm Operations - Drone IR overflight to view tanks 80-3, 80-5, & 80-13 complete.
03/27/2019 03:00	Air Monitoring Detection Report: Benzene Div B - 1 reading @ 0.420ppm Div C - 1 reading @ 0.175ppm Div E - 1 reading @ 3.730ppm Industrial - 6 readings ranging from 0.110ppm & 4.050ppm
03/27/2019 03:15	Tank Farm Operations - Foaming Operations Begin.
03/27/2019 03:45	Tank Farm Operations - Foaming Operations Complete. 9 totes foam and 15,090gal of bugs
03/27/2019 04:11	FOB: Tank 80-34 level is 38-4-4.
03/27/2019 04:18	Tank Farm Operations - Update of Tank 100-28 current storage 71,197bbls. Available storage left 29,100bbls.
03/27/2019 04:30	FOB: Liquid level in tank farm is 4 1/2" between 80-9 and 80-12.
03/27/2019 04:53	Tank Farm Operations - Update of Tank 80-18 current storage 56,138,197bbls. Currently flowing 88bbls/hr. Available storage left 15,369bbls.
03/27/2019 05:04	Tank Foam Operations - Update report that Independence Rd has been cleared.
03/27/2019 05:15	Tank Farm Operations - Foam update: 196 totes, 261 drums, 30 - 5 gallon buckets.
03/27/2019 05:20	Tank Farm Operations: Foam operations started, beginning at the south side and moving to the north side focusing on tanks 80-2, 80-3, & 80-5.
03/27/2019 05:44	Tank Farm Operations: Foam operations complete, beginning at the south side and moving to the north side focusing on tanks 80-2, 80-3, & 80-5. 9 totes used.

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03/27/2019 08:06	Commissioner Precinct 2 reports north side Lynchburg ferry docks located at the junction of the San Jacinto River and Houston Ship Channel have product trapped between the boom and our sheet pile wall that needs to be absorbed.
03/27/2019 10:46	Division C Supervisor reports product in Old River marsh.
03/27/2019 15:14	Wildlife Impacts: 13 fish, 1 turtle, 1 frog.
03/27/2019 15:16	Tank Farm Operations: 3 vac trucks of 130 bbls recovered - 390 bbls total.
03/27/2019 16:00	Air Monitoring Detection Report: Benzene Div A - 1 reading @ 0.25 Div B - 3 readings ranging from 0.10-0.36ppm Div C - 1 reading @ 0.23ppm Div E - 14 readings ranging from 0.01-22.95ppm Industrial - 1 reading @ 1.77ppm On-Water - 3 readings ranging from 0.02-0.05ppm
03/27/2019 17:00	Air Monitoring Detection Report: Benzene Div B - 3 readings ranging from 0.14-0.28ppm Div E - 28 readings ranging from 0.04-42.50ppm Industrial - 2 readings ranging from 0.10-0.63ppm impacted Tank Farm - 1 reading @ 01.45ppm
03/27/2019 17:53	Division C Supervisor reports one (1) OMI personnel cut his finger and was attended by first aid. Two (2) other OMI personnel fell into the water.
03/27/2019 18:00	Air Monitoring Detection Report: Benzene Div C - 1 reading @ 0.13ppm Div E - 16 readings ranging from 0.01-20.65ppm Industrial - 1 reading @ 0.53ppm
03/27/2019 18:11	Loose boom reported enroute to I-10 bridge by M/V Galveston (Division C).
03/27/2019 19:00	Air Monitoring Detection Report: Benzene Div E - 22 readings ranging from 0.03-20.35ppm Industrial - 1 reading @ 0.35ppm
03/27/2019 19:45	Foam Tank Operations - Tank farm entry for air monitoring.
03/27/2019 19:51	Foam Tank Operations - Drone observation for tank farm entry team.
03/27/2019 20:00	USCG night SITL reported @ 20:00 - Div A - 200' of 18" boom & 0 bbls recovered Div B - 400' of 18" boom & 1,750bbls recovered Div C - 0' of boom & 144bbls recovered Div D - 12,000' of 18" boom & 0 bbls recovered
03/27/2019 20:09	FOB: Tank Level 80-34 is 38-5-15 and 50-2 12-0-0.
03/27/2019 20:11	Foam Tank Operations - Drone observation of tank farm entry team ended.
03/27/2019 20:15	Foam Tank Operations - Tank farm exit. No LEL's detected.
03/27/2019 20:29	Foam Tank Operations - Foam Update: 273 totes, 337 drums and 30 5-gal buckets.
03/27/2019 20:30	Personnel Accountability Report (PAR) - Manpower numbers for tank farm operations 60 ITC and 83 contractors.
03/27/2019 20:38	Tank Farm Operations - Tank Farm liquid level ~6 inches.
03/27/2019 20:40	Staging OMI - River Terrace Park: Vessel arrived and splashed. 35' Barge Boat. LA -9414 FR Quality First Marine
03/27/2019 20:50	Tank Farm Operations - Foam & Bug Operations beginning starting at the South side and working towards the North side.

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03/27/2019 21:05	Tank Farm Operation - Foam & Bug Operations have finished for the tank farm. 6 totes & 16 drums of foam used. 6 totes of bugs used.
03/27/2019 21:13	Tank Farm Operations - Update on tank 80-18 volume level - 60,438bbls.
03/27/2019 21:43	FOB: Environmental Restoration reports worker fell getting into vehicle; struck head and scraped arm; more details to follow; Will be seen at Medical Room; will advise if greater than first aid; Evaluated and released to supervisor.
03/27/2019 23:00	Foam Tank Operations - Update on tank 80-13 volume level 6,127bbls. Flow rate of 473bbls/hr
03/27/2019 23:15	USCG Night SITL received a call reporting that Mary Jane (Kirby) evacuated Hot Foot 3 dock. Air monitoring strike team was deployed to air monitor they area over at Houston Fuels.
03/28/2019 00:00	Tank Farm Operations - Foam Update: 287 totes, 342 drums and 30 5-gal buckets.
03/28/2019 00:00	Air Monitoring Detection Report: Benzene Div B - 2 readings ranging from 0.05-0.20ppm Div E - 18 readings ranging from 0.04-9.54ppm Industrial - 6 readings ranging from 0.35-12.85ppm
03/28/2019 00:14	FOB: Tank Level for 50-2 is 13-0-0 and 80-34 is 37-7-10.
03/28/2019 00:38	Foam Tank Operations - Drone observation for tank farm begin.
03/28/2019 00:47	Foam Tank Operations - Drone observation for tank farm complete.
03/28/2019 01:00	Air Monitoring Detection Report: Benzene Div B - 3 readings ranging from 0.23-0.43ppm Div E - 16 readings ranging from 0.10-6.96ppm Impacted Tank Farm - 7 readings ranging from 0.10-16.50ppm Industrial - 5 readings ranging from 0.25-2.75ppm
03/28/2019 01:01	Foam Tank Operations - Update on tank 80-18 volume level 62,342. Flow rate of 476bbls/hr.
03/28/2019 01:20	FOB: Stopped transfer from tank farm to 100-28; awaiting further collection of liquids.
03/28/2019 01:55	Foam Truck arrived
03/28/2019 02:00	Air Monitoring Detection Report: Benzene Div E - 22 readings ranging from 0.05-9.40ppm Industrial - 4 readings ranging from 0.19-20.15ppm On Water - 1 reading @ 0.11ppm
03/28/2019 02:15	Foam Tank Operations - Foam application on tank farm begins.
03/28/2019 02:28	Foam Tank Operations - Foam application on tank farm complete. 7 totes and 4 drums used.
03/28/2019 03:00	Air Monitoring Detection Report: Benzene Div B - 4 readings ranging from 0.125-0.750 Div E - 30 readings ranging from 0.90-5.04ppm Impacted Tank Farm - 5 readings ranging from 0.650-1.75ppm Industrial - 2 readings ranging from 0.80-2.95ppm On Water - 1 reading @ 0.310ppm
03/28/2019 03:12	Foam Tank Operations - Update on tank 80-18 volume level 63,276. Flow rate of 467bbls/hr.
03/28/2019 03:15	Foam Truck arrived
03/28/2019 04:00	Air Monitoring Detection Report: Benzene Div E - 22 readings ranging from 0.125-8.12ppm Industrial - 5 readings ranging from 0.450-5.225ppm
03/28/2019 04:56	Foam Tank Operations - Update on tank 80-18 volume level 62,342. Flow rate of 467bbls/hr.

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03/28/2019 05:00	Air Monitoring Detection Report: Benzene Div B - 1 reading @ 0.090 Div E - 17 readings ranging from 0.60-8.00ppm Impacted Tank Farm - 5 readings ranging from 0.110-6.35ppm Industrial - 4 readings ranging from 1.25-9.85ppm
03/28/2019 08:28	The Lynchburg Ferry docks and facilities located at 1001 Independence Parkway North (Lat 29-45 North, Long 95-04 West) are still boomed in. Requesting update. LNO notified.
03/28/2019 11:31	Reports of elevated benzene readings in port. UPDATE: information was not accurate.
03/28/2019 11:49	Decanting plan has been disapproved by the Agencies; all waste on site is considered hazardous waste.
03/28/2019 11:53	Vessel near Barbers Cut Decon seen taking pictures of operations.
03/28/2019 15:25	Tank Farm Operations: 15 Trucks - 70 bbls; 5 Trucks - 130 bbls.
03/28/2019 17:18	Tank Farm Operations: Tank 80-13 pumping completed.
03/28/2019 17:27	Tank Farm Operations: Valve open on Tank 80-2 & 80-3. Gravity feed to secondary containment.
03/28/2019 18:00	Air Monitoring Detection Report: Benzene Div A - 2 readings @ 0.440 Div B - 2 readings @ 0.125ppm Div E - 15 readings ranging from 0.100-9.390ppm Industrial - 2 readings ranging from 0.670-1.720ppm
03/28/2019 18:35	On-Water Operations: 1,700 ft of boom deployed in Division A; 2,900 ft of boom deployed in Division B.
03/28/2019 19:00	Air Monitoring Detection Report: Benzene Div E - 11 readings ranging from 0.110-7.675ppm Industrial - 10 readings ranging from 0.090-9.350ppm
03/28/2019 20:00	Air Monitoring Detection Report: Benzene Div B - 1 reading @ 0.4600ppm Div E - 8 readings ranging from 0.400-0.9900ppm Industrial - 1 reading 0.3500ppm
03/28/2019 20:03	Tank Farm Operations - Foaming Operations started.
03/28/2019 20:08	Personnel Accountability Report (PAR) for night shift - 51 ITC, 87 Contractors for the entire facility.
03/28/2019 20:18	Tank Farm Operations - Foaming Operations complete.
03/28/2019 20:18	Tank Farm Operations - Drone overflight for tank entry team on southeast corner of the facility to open tank 80-15.
03/28/2019 20:24	Tank Farm Operations - Tank entry team to enter on southeast corner of the facility to open tank 80-15.
03/28/2019 20:27	Tank Farm Operations - Tank 80-15 valve is open and draining.
03/28/2019 20:34	Tank Farm Operations - Drone overflight for tank entry team on southeast corner of the facility to open tank 80-15 is complete.
03/28/2019 20:34	Tank Farm Operations - Tank entry team on southeast corner of the facility to open tank 80-15 is complete. LEL spiked to 7%.
03/28/2019 20:40	Tank Farm Operations - Tank volume update: 50-2: 19,843bbls, 60-1: 47,351bbls, 80-34: 42,431.

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03/28/2019 21:00	Air Monitoring Detection Report: Benzene Div B - 4 readings ranging from 0.130-.700ppm Div C - 1 reading @ 0.025ppm Div E - 10 readings ranging from 0.150-2.425ppm Impacted Tank Farm - 1 reading @ 0.675ppm Industrial - 2 readings @ 0.125ppm & 0.650ppm
03/28/2019 21:08	Tank Farm Operations - Air Monitor Reading report of 0.6ppm Benzene at the tank farm.
03/28/2019 21:13	Tank Farm Operations - Tank entry team to enter on southeast corner of the facility to open tank 80-14.
03/28/2019 21:13	Tank Farm Operations - Drone overflight for tank entry team on southeast corner of the facility to open tank 80-14. When tank 80-14 valve is opened drone to view the manifolds on tank 80-2, 80-3, 80-14 & 80-15.
03/28/2019 21:21	Tank Farm Operations - Tank 80-14 valve is opened and draining.
03/28/2019 21:24	Tank Farm Operations - The tank entry team to open tank 80-14 has exited the containment area.
03/28/2019 21:31	Tank Farm Operations - Drone overflight for tank entry team on southeast corner of the facility to open tank 80-14 is complete.
03/28/2019 21:56	Foam Tank Operations - Foam Update: 205 totes and 417 drums.
03/28/2019 22:00	Air Monitoring Detection Report: Benzene Div B - 8 readings ranging from 0.160-1.060ppm Div E - 21 readings ranging from 0.125-5.880ppm Impacted Tank Farm - 1 reading @ 0.620ppm Industrial - 4 readings ranging from 0.175ppm & 0.825ppm
03/28/2019 22:18	Tank Farm Operations - Tank Volume Updates - 100-28: 62,099bbls 100-31: 23,185bbls
03/28/2019 23:00	Air Monitoring Detection Report: Benzene Div B - 14 readings ranging from 0.120-1.110ppm Div E - 17 readings ranging from 0.130-2.580ppm Industrial - 2 readings @ 0.425ppm & 1.250ppm
03/28/2019 23:18	FOB: Received notification of VAC Truck driver with no scrubber parked in an atmosphere of 100 ppm. CTEH advise driver needs medical evaluation. Driver being taken to Safety Building. FOB awaiting trucking company supervisor to return call.
03/28/2019 23:35	Tank Farm Operations - Tank 80-33 stripped and relieving to 100-57. Pigging line to 100-57.
03/29/2019 00:00	Air Monitoring Detection Report: Benzene Div B - 10 readings ranging from 0.07-0.82ppm Div C - 1 reading of 0.05ppm Div E - 19 readings ranging from 0.06-13.10ppm Industrial - 5 readings @ 0.15ppm & 3.65ppm On Water - 2 readings 0.15ppm & 2.15ppm.
03/29/2019 00:19	Report of 1.025ppm Benzene detection on Jacinto Port. 1.25miles east of Sheldon road and Market Street. Air Monitoring strike team was deployed and received reading of 0.0ppm.
03/29/2019 00:41	FOB: CTEH personnel that discovered the VAC Truck driver are deemed to be exposed to 100 ppm. Personnel will be medically evaluated.
03/29/2019 00:45	Tank Farm Operations - Foaming operations begin.

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03/29/2019 01:00	Air Monitoring Detection Report: Benzene Div B - 6 readings ranging from 0.78-3.18ppm Div C - 2 readings 0.03ppm & 0.15ppm Div E - 23 readings ranging from 0.05-11.50ppm Impacted Tank Farm - 1 reading @ 34.70ppm Industrial - 6 readings @ 0.08ppm & 1.07ppm On Water - 1 reading @ 0.20ppm
03/29/2019 01:05	Tank Farm Operations - Foaming operations complete.
03/29/2019 02:00	Air Monitoring Detection Report: Benzene Div B - 8 readings ranging from 0.010-1.470ppm Div E - 11 readings ranging from 0.125-5.860ppm Industrial - 6 readings @ 0.175ppm & 4.550ppm
03/29/2019 02:40	Tank Farm Operations - Drone overflight to view the manifolds on tank 80-2, 80-3, 80-14 & 80-15 started.
03/29/2019 02:58	Tank Farm Operations - Drone overview to view the manifolds on tank 80-2, 80-3, 80-14 & 80-15 complete.
03/29/2019 03:00	Air Monitoring Detection Report: Benzene Div B - 8 readings ranging from 0.090-0.940ppm Div E - 11 readings ranging from 0.110-2.475ppm Industrial - 4 readings ranging from 0.025ppm & 0.675ppm On Water - 2 readings 0.330ppm & 0.430ppm
03/29/2019 03:10	Foam Tank Operations - Foam Update: 216 totes and 417 drums.
03/29/2019 03:46	Tank Farm Operations - Update on tank volume levels tank 80-34 is at 32-5-6 and Tank 80-52 is at 18-0-0 - transferring 178 gpm.
03/29/2019 04:00	Air Monitoring Detection Report: Benzene Div B - 3 readings ranging from 0.140-3.080ppm Div C - 1 reading @ 0.075ppm Div E - 17 readings ranging from 0.20-3.880ppm Industrial - 1 reading @ 0.225ppm
03/29/2019 04:28	FOB: Truck with axle locked-up offloading to 100-28 blocked access.
03/29/2019 04:40	Air Monitoring report of a 1.125ppm reading at 1653 Jacinto Port road. Strike team deployed to monitor. Update @ 05:00 Strike team received a 0.225ppm reading.
03/29/2019 04:49	Truck with axle locked-up offloading to 100-28 blocked access is now out of the way.
03/29/2019 05:00	Air Monitoring Detection Report: Benzene Div B - 2 readings @ 0.40ppm & 2.28ppm Div E - 13 readings ranging from 0.175-4.250ppm Impacted Tank Farm - 8 readings ranging from 0.370-5.100ppm Industrial - 5 readings ranging from 0.070-1.125ppm
03/29/2019 05:09	Air Monitoring report of a 0.775ppm reading at 1653 Jacinto Port road. Update @ 05:14 CTEH received a 0.85ppm reading.
03/29/2019 11:44	Received call from Jacinto Port that they are receiving elevated benzene readings. Readings indicate 0.5ppm at corner of office building approximately 200 meters from dock and 0.6ppm at Houston Fuel.
03/29/2019 12:52	FOB: Safety stand down - Division E at the docks.
03/29/2019 13:05	The FAA approved a 30 day Temporary Flight Restriction (TFR) and increase altitude to 1500ft.

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03/29/2019 16:28	FOB: Objectives for FOB night shift - let the open 4 tanks flow and keep foam blanket on the tank farm. No entries at this time. Vac trucks to clean manhole entries to water syatem in grassy area directly east of the tank farm between the dike and Independence Parkway.
03/29/2019 16:36	FOB: Division E to work 5 skimmers off the docks all night. Docks 4, 5 and 1.
03/29/2019 18:00	Air Monitoring Detection Report: Benzene Div B - 2 readings @ 0.40ppm & 2.28ppm Div E - 23 readings ranging from 0.08-29.55ppm Industrial - 4 readings ranging from 0.030-3.23ppm
03/29/2019 19:00	Tank Farm Operations - Tank Volume Update: Tank 100-32 has a currently at 25,067bbls, Tank 80-33 has current volume of 3,748bbls with a flow rate of 625bbls/hr, Tank 100-28 has a current volume of 77,814bbls with a flow rate of 1,122bbls/hr.
03/29/2019 19:00	Air Monitoring Detection Report: Benzene Div B - 1 reading @ 2.50ppm Div E - 15 readings ranging from 0.08-29.55ppm Industrial - 3 readings ranging from 0.10-19.10ppm
03/29/2019 19:15	FOB: PAR Complete; 48 ITC associates and 84 contractors.
03/29/2019 19:35	FOB: Drone flight started for overflight of tanks 18-15, 18-14, 18-2, 18-3.
03/29/2019 19:53	FOB: Drone flight ended.
03/29/2019 20:00	Air Monitoring Detection Report: Benzene Div B - 5 readings ranging from 0.850-4.725ppm Div E - 7 readings ranging from 0.250-8.160ppm
03/29/2019 20:17	Tank Farm Operations - Tank Volume Update: Tank 80-11 currently at 47,420bbls with a flow rate 635bbls/hr.
03/29/2019 20:35	Air Monitoring - CTEH received a Benzene reading of 2.20ppm on Jacintoport Blvd in front of GE. Update @ 21:20 - CTEH is at the location and is receiving a Benzene reading of 1.00ppm.
03/29/2019 20:44	Tank Farm Operations - Foaming Operations on tank farm started.
03/29/2019 21:00	Air Monitoring Detection Report: Benzene Div B - 9 readings ranging from 0.03-7.30ppm Div E - 25 readings ranging from 0.08-81.50ppm Impacted Tank Farm - 2 readings @ 1.65-23.70ppm Industrial Area - 5 readings ranging from 0.18-2.20ppm
03/29/2019 21:53	Air Monitoring - 1.05 ppm benzene on Jacintoport Blvd and 0.5 – 2.5 ppm benzene at Care Terminal gate off of Jacintoport Blvd. Update @ 22:04 -UC Strike Team reported approximately 1.5 to 1.6 ppm benzene on Jacintoport Blvd
03/29/2019 22:00	Tank Farm Operations - Tank Volume Update: Tank 80-33 has current volume of 5,011bbls with a flow rate of 632bbls/hr, Tank 100-28 has a current volume of 79,470bbls with a flow rate of 828bbls/hr, Tank 100-31 has a current volume of 25,232bbls and Tank 80-11 has a current volume of 46,150bbls with a flow rate of 635bbls/hr.
03/29/2019 22:00	Air Monitoring Detection Report: Benzene Div B - 15 readings ranging from 0.02-4.925ppm Div E - 13 readings ranging from 0.04-2.85ppm Industrial Area - 7 readings ranging from 0.175-2.50ppm
03/29/2019 22:30	VTS called and reported there has been approval granted for the following vessels to travel through incident area. Christolph Schulte - Enterprise Dock 1 Chembulk Kobe - Stolthaven Dock 3 Enterprise - Channelview Dock 1
03/29/2019 22:55	ITC contacted Vopak EOC about current elevated air monitor readings on Jacintoport blvd.

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03/29/2019 23:00	Air Monitoring Detection Report: Benzene Div B - 2 readings @ 2.70ppm & 7.60ppm Div C - 1 reading @ 0.0ppm Div E - 10 readings ranging from 0.00-118.3ppm Industrial Area - 4 readings ranging from 0.10-1.60ppm
03/29/2019 23:00	Tank Farm Operations - Tank Volume Update: Tank 80-33 has current volume of 16,438bbls with a flow rate of 440bbls/hr, Tank 100-28 has a current volume of 80,332bbls with a flow rate of 431bbls/hr, Tank 100-31 has a current volume of 25,331bbls and Tank 80-11 has a current volume of 46,304bbls with a flow rate of 423bbls/hr.
03/29/2019 23:10	Tank Farm Operations - Foaming Operations on North side of tank farm started.
03/29/2019 23:15	Tank Farm Operations - Pump at Tank 003 malfunctioned and was turned off.
03/29/2019 23:18	Tank Farm Operations - Foaming Operations on North side of tank farm completed.
03/29/2019 23:18	Tank Farm Operations - Foaming Operations on South Side of tank farm started.
03/29/2019 23:21	FOB: E-Notify Level 3 sent, "ITC is experiencing Benzene levels North of the affected tank farm. Monitoring indicates levels are elevated in the Industrial area around 16535 Jacinto Port. We recommend to take appropriate precautions that may include shelter in place or appropriate PPE. We are monitoring and will update changes in conditions."
03/29/2019 23:26	Tank Farm Operations - Foaming Operations on the South side of tank farm completed.
03/30/2019 00:00	Air Monitoring Detection Report: Benzene Div B - 1 reading @ 1.73ppm Div C - 9 readings ranging from 0.03-3.98ppm Div E - 16 readings ranging from 0.12-30.75ppm Industrial Area - 4 readings ranging from 0.28-3.08ppm
03/30/2019 00:02	ITC called Wayne Price (713) 201-1310 with Monument Chemical to advise him of the air monitoring situation.
03/30/2019 00:10	Tank Farm Operations - Approval sent to field operations to turn on pumps for chem drains to send product to waste water treatment tanks.
03/30/2019 00:18	Tank Farm Operations - Tank Volume Update: Tank 60-1 has current volume of 47,339bbls & Tank 80-34 has a current volume of 36,639bbls.
03/30/2019 00:54	Tank Farm Operations - Foaming operations started on North side of the tank containment area.
03/30/2019 01:00	Air Monitoring Detection Report: Benzene Div B - 2 readings @ 1.70ppm & 0.870ppm Div C - 5 readings ranging from 0.021-2.750ppm Div E - 4 readings ranging from 0.310-2.49ppm Industrial Area - 5 readings ranging from 0.100-1.200ppm
03/30/2019 01:05	Tank Farm Operations - Foaming operations finished on North side of the tank containment area.
03/30/2019 01:06	Tank Farm Operations - Foaming operations started on South side of the tank containment area.
03/30/2019 01:15	Tank Farm Operations - Foaming operations finished on South side of the tank containment area.
03/30/2019 01:28	FOB: VOPAK sheltering-in-place in accordance with E-Notify message.
03/30/2019 01:44	FOB: CTEH advised FOB to stage associates on Tidal Road and South of 36-3. ITC associates will notify personnel of PPE requirements in area.
03/30/2019 02:00	Tank Farm Operation - Foam Update: 213 totes & 472 drums.
03/30/2019 02:00	Air Monitoring Detection Report: Benzene Div B - 8 readings @ 0.010ppm & 1.470ppm Div E - 11 readings ranging from 0.125-5.860ppm Industrial Area - 6 readings ranging from 0.175-4.550ppm
03/30/2019 02:14	Tank Farm Operations - Drone IR overflight to view foam blanket on the containment area of the tank farm, begin.

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03/30/2019 02:52	Tank Farm Operations - Foam application started on the tank farm containment.
03/30/2019 02:52	Tank Farm Operations - Drone IR overflight to view foam blanket on the containment area of the tank farm, end.
03/30/2019 03:00	Air Monitoring Detection Report: Benzene Div B - 10 readings @ 0.01ppm & 0.940ppm Div E - 12 readings ranging from 0.110-2.475ppm Industrial Area - 4 readings ranging from 0.025-4.50ppm
03/30/2019 03:11	Tank Farm Operations - Air monitor reading of 1.25ppm Benzene at the separator.
03/30/2019 03:11	Tank Farm Operations - Pump at Tank 003 was restarted.
03/30/2019 03:13	Tank Farm Operations - Foam application completed on the tank farm containment.
03/30/2019 03:44	Reported that River Terrace Park Staging has been evacuated due to 0.925ppm Benzene reading.
03/30/2019 04:00	Air Monitoring Detection Report: Benzene Div B - 10 readings ranging from 0.090-2.23ppm Div C - 5 readings ranging from 0.08-1.63ppm Div E - 24 readings ranging from 0.10-22.10ppm Industrial Area - 1 reading @ 0.23ppm On Water - 1 reading @ 25.00ppm
03/30/2019 04:05	FOB: Areas West of the 80s Tank Farm up to 36s Tank Farm now requires a full face respirator. Tidal Road from Safety Lane to Independence requires SCBA.
03/30/2019 04:44	Tank Farm Operations - Foam application started on the tank farm containment.
03/30/2019 04:45	FOB: All areas North of Tidal Road on Independence require full face APR.
03/30/2019 05:00	Air Monitoring Detection Report: Benzene Div B - 2 readings @ 0.125ppm & 1.54ppm Div E - 14 readings ranging from 0.90-6.300ppm Industrial Area - 1 reading @ 1.25ppm Restricted Community - 1 reading @ 1.450ppm
03/30/2019 05:04	Tank Farm Operations - Foam application complete on the tank farm containment.
03/30/2019 06:00	Air Monitoring Detection Report: Benzene Div B - 4 readings ranging from 0.1000ppm & 2.500ppm Div C - 1 reading @ 0.4250 Div E - 11 readings ranging from 0.0300-0.7400ppm Industrial Area - 1 reading @ 0.1750ppm
03/30/2019 07:00	Air Monitoring Detection Report: Benzene Div B - 5 readings ranging from 0.030ppm & 0.170ppm Div E - 21 readings ranging from 0.01-8.10ppm Impacted Tank Farm - 2 readings @ 15.75ppm & 71.20ppm Industrial Area - 1 reading @ 0.25ppm Restricted Community - 4 readings ranging from 0.28-10.55ppm
03/30/2019 10:49	Air Monitoring Detection Report: Benzene Mouth of Old River - 2 readings @ 1.4ppm & 2.6ppm
03/30/2019 12:39	Tidal and Independence BLVD checkpoints evacuated due to high benzene levels.
03/30/2019 13:01	Air Monitoring Division reported 1.600 ppm benzene middle channel between Old River and San Jac River.
03/30/2019 13:17	City of Pasadena activated their EOC as a precaution due to the wind shift.
03/30/2019 14:26	With the shift in tides and wind, a large amount of product became a threat to move into Division D. Operations is redirecting focus for now to contain product to Division C. After Division C is secure, resources will continue to boom environmental resources at risk.

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03/30/2019 14:39	Forward Operations Base relocated to Training Building near Gate 20.
03/30/2019 16:38	Checkpoint 1 evacuated due to high levels of Benzene.
03/30/2019 16:56	The feeder road to 225 to Independent Blvd. has been blocked by local PD due to high levels of Benzene. Officers report a strong odor of Benzene in the air. CTEH has been notified, and are on the way.
03/30/2019 17:00	Tank Farm Operations - Tank Volume Update: Tank 80-33 has current volume of 5,891bbls with a flow rate of 643bbls/hr, Tank 100-28 has a current volume of 91,710bbls with a flow rate of 1,199bbls/hr, Tank 100-31 has a current volume of 27,713bbls, Tank 80-11 has a current volume of 34,871bbls with a flow rate of 635bbls/hr.
03/30/2019 17:09	On Water Air Monitoring reports 1.900 ppm Benzene between battleship monument and ITC and 1.300 ppm Benzene at entrance to Old River.
03/30/2019 18:00	Air Monitoring Detection Report: Benzene Div E - 12 readings ranging from 0.04-30.19ppm Industrial Area - 8 readings ranging from 0.39-15.25ppm
03/30/2019 18:59	Tank Farm Operations - Foam application started on the tank farm containment.
03/30/2019 19:00	Tank Farm Operations - South of Tidal Rd is currently SCBA only.
03/30/2019 19:00	Tank Farm Operations - Tank Volume Update: Tank 80-33 has current volume of 16,878bbls with a flow rate of 220bbls/hr, Tank 100-28 has a current volume of 94,163bbls with a flow rate of 1,227bbls/hr, Tank 100-31 has a current volume of 27,834bbls, Tank 80-11 has a current volume of 34,449bbls with a flow rate of 211bbls/hr.
03/30/2019 19:15	Tank Farm Operations - Foam application finished on the tank farm containment.
03/30/2019 19:46	Phone call received from George Kazamis (sp.?) about the vessel Atlantic Elm, currently docked at Cemex Termial, needing decon, the vessel is to set sail at the end of the week. George was provided a contact email of MTSRU.itc.fire@gmail.com.
03/30/2019 19:50	PAR Report - 44 ITC and 104 Contractors.
03/30/2019 20:00	Tank Farm Operations - Tank Farm Containment area gauged 10" of water and 2" of product.
03/30/2019 20:24	FOB: ERT member sent to evaluates Vac Truck driver at 100-28.
03/30/2019 20:45	FOB: Vac Trucker possibly suffering food poisoning; released to supervisor; statement forthcoming.
03/30/2019 21:00	Tank Farm Operations - Tank Volume Update: Tank 80-33 has current volume of 18,199bbls with a flow rate of 661bbls/hr, Tank 100-28 has a current volume of 96,672bbls with a flow rate of 1,255bbls/hr, Tank 100-31 has a current volume of 28,142bbls, Tank 80-11 has a current volume of 33,180bbls with a flow rate of 635bbls/hr.
03/30/2019 21:15	Tank Farm Operations - Tank Farm Containment area gauged 5" of water and 3" of product.
03/30/2019 21:20	Tank Farm Operations - Foaming application started on the tank farm containment area.
03/30/2019 21:30	Tank Farm Operations - Foaming application ceased due to US Fire Pumps equipment issues.
03/30/2019 21:47	Tank Farm Operations - Foaming applications restarted on the tank farm containment area.
03/30/2019 22:00	Air Monitoring Detection Report: Benzene Div B - 4 readings ranging from 0.080-0.130ppm Div E - 13 readings ranging from 0.30-9.425ppm Industrial Area - 5 readings ranging from 0.125-3.55ppm
03/30/2019 22:15	Phone call received from Kyle Doughty (sp.?) from Houston Pilots in concern of the decon status of Eagle San Juan. Kyle was advised that the vessel was half complete on decon operation and the decon operations would commence in the morning. Kyle requested to be notified (281) 323-3941 in the morning when decon operations are complete.
03/30/2019 22:25	FOB: High level alarm activated on Tank 100-28; tank gauged at 22:40 & showed 47-2-0; Charlie Fehl directed ITC associate to swap transfer to 100-31.

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03/30/2019 22:40	Air Monitoring reporting of a reading of 1.125ppm at Love's truck stop. Question was asked about what side of the property was the readings taken from due to the current wind direction and speed.
03/30/2019 23:00	Tank Farm Operations - Tank Volume Update: Tank 80-33 has current volume of 19,820bbls with a flow rate of 810bbls/hr, Tank 100-28 was topped off at 22:45. Tank 100-31 has a current volume of 29,047bbls with a flow rate of 2,116/hr Tank 80-11 has a current volume of 31,559bbls with a flow rate of 811bbls/hr.
03/30/2019 23:00	Air Monitoring Detection Report: Benzene Div E - 12 readings ranging from 0.010-5.625ppm Industrial Area - 8 readings ranging from 0.075-1.750ppm
03/30/2019 23:05	Tank Farm Operations - Foaming application started on the tank farm containment area.
03/30/2019 23:26	Phone call from Braskem reporting high Benzene detections, an individual is vomiting and that individual is on their way to the hospital. Update @ 4:12 - 5 individuals went to the clinic and no exposure was determined. 1 individual went to the hospital, blood work was done and deemed non-exposure.
03/30/2019 23:40	Tank Farm Operations - Foaming application finished on the tank farm containment area.
03/31/2019 00:00	Air Monitoring Detection Report: Benzene Div E - 14 readings ranging from 0.200-7.100ppm Industrial Area - 6 readings ranging from 0.100-2.850ppm
03/31/2019 00:27	Air Monitoring - 4.375ppm reading at GEO Specialties. Update @ 1:11 reading of 1.075ppm.
03/31/2019 01:00	Tank Farm Operations - Tank Volume Update: Tank 80-33 has current volume of 21,264bbls with a flow rate of 722bbls/hr, Tank 100-28 was topped off at 22:45. Tank 100-31 has a current volume of 32,134bbls with a flow rate of 1,599/hr Tank 80-11 has a current volume of 30,079bbls with a flow rate of 740bbls/hr.
03/31/2019 01:00	Air Monitoring Detection Report: Benzene Div E - 8 readings ranging from 0.020-1.060ppm Industrial Area - 10 readings ranging from 0.075-4.375ppm
03/31/2019 01:17	Tank Farm Operations - Foaming application started on the tank farm containment area.
03/31/2019 01:27	FOB: Two contractors working for USA Environmental were attended by a supervisor. The first contractor declined medical evaluation and chose to go home. The second contractor received, and a Texas Workers' Compensation Work Status Report was processed at the medical clinic. He was released with no restriction and authorized to return to work on 3/30/19 but elected to go home. Follow-up appointment scheduled with physician on Monday, 4/1/19.
03/31/2019 01:30	Tank Farm Operations - Foaming application complete on the tank farm containment area
03/31/2019 02:00	Air Monitoring Detection Report: Benzene Div B - 2 readings 0.050ppm & 0.210ppm Div E - 12 readings ranging from 0.040-4.630ppm Industrial Area - 3 readings ranging from 0.070-1.225ppm
03/31/2019 02:20	Tank Farm Operations - Drone IR overflight to view tank 80-11 level in the containment area of the tank farm, begin.
03/31/2019 02:20	FOB: Shutdown VAC Truck operations at the 80s separator; Benzene levels too high. Air bank will be placed in the area.
03/31/2019 02:29	Tank Farm Operations - Foaming application started on the tank farm containment area
03/31/2019 02:40	Tank Farm Operations - Drone IR overflight to view tank 80-11 level in the containment area of the tank farm, end.
03/31/2019 03:00	Tank Farm Operations - Tank Volume Update: Tank 80-33 has current volume of 22,762bbls with a flow rate of 749bbls/hr, Tank 100-28 was topped off at 22:45. Tank 100-31 has a current volume of 35,187bbls with a flow rate of 1,527/hr Tank 80-11 has a current volume of 28,581bbls with a flow rate of 749bbls/hr.

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03/31/2019 03:00	Air Monitoring Detection Report: Benzene Div E - 13 readings ranging from 0.040-0.980ppm Impacted Tank Farm - 1 reading @ 0.083ppm Industrial Area - 6 readings ranging from 0.10-12.55ppm
03/31/2019 03:07	Tank Farm Operations - Foaming application complete on the tank farm containment area.
03/31/2019 04:00	Air Monitoring Detection Report: Benzene Div E - 11 readings ranging from 0.300-5.700ppm Industrial Area - 4 readings ranging from 0.125-4.375ppm
03/31/2019 04:02	Tank Farm Operations - Foaming application started on the tank farm containment area
03/31/2019 04:36	Tank Farm Operations - Foaming application complete on the tank farm containment area.
03/31/2019 05:00	Air Monitoring Detection Report: Benzene Div E - 20 readings ranging from 0.210-8.040ppm Industrial Area - 4 readings ranging from 0.250-4.725ppm
03/31/2019 05:00	Tank Farm Operations - Tank Volume Update: Tank 80-33 has current volume of 23,976bbls with a flow rate of 607bbls/hr, Tank 100-28 was topped off at 22:45 on 3/30. Tank 100-31 has a current volume of 38,175bbls with a flow rate of 1,495/hr Tank 80-11 has a current volume of 27,401bbls with a flow rate of 590bbls/hr.
03/31/2019 05:11	Tank Farm Operation - Foam Update: 125 totes & 242 drums.
03/31/2019 05:50	Tank Farm Operations - Foaming application complete on the tank farm containment area.
03/31/2019 07:38	DECON Group reports unable to get boats underway due to low water and prevailing winds from the North pushing water out of channel.
03/31/2019 10:00	Briefed COTP that no DeCon is currently being conducted on the Houston Ship Channel. Currently one Coast Guard TAMB, and one OMI vessel are U/W conducting evaluations.