

Assumption Parish Operational Situation Summary

- Emergency Management:
 - Parish Emergency Declared – 19 June 2012
 - Extended 30 days on 19 July 2012
 - Extended 30 days on 17 August 2012
 - State Emergency Declared – 3 August 2012
 - LA Hwy 70 Open for traffic
 - Mandatory Evacuation still in effect
 - Security plans in place to secure slurry area
 - Parish continues blog to inform residents
 - Parish shelter still available for use by residents
 - Daily decontamination of water craft at Pad #3
 - Civil Air Patrol provided weekly overflight for photography
 - Texas Brine issuing financial assistance for residents – Sheriff Sub station in Pierre Part - HOTLINE 1-877-281-7311
 - Facilitating the askGOHSEP@la.gov for questions
 - Will participate in town hall meeting at 6:30 pm 24 Aug 12
 - Monitoring TS Isaac as it progresses

As of 24 August 2012

Assumption Parish Operational Situation Summary

- Public Safety:
 - LSP providing air craft support for daily over flight
 - LSP providing HAZMAT support
 - LSP HAZMAT Forward Command Post co-located at drill site as of 08/17/2012 for 24/7 operations
 - LDWF providing air boat support daily to parish
 - No market or recreational hunting or fishing in restricted area
 - LSA Command Post on site

As of 24 August 2012

Assumption Parish Operational Situation Summary

- Department of Natural Resources:
 - All pipelines shut in and empty; confirmed pipelines not source of bubbles
 - Investigation of plugged and abandoned oil and gas wells in area performed
 - Slurry area developed on 3 Aug 2012
 - Slurry area 200' northwest of Texas Brine pad
 - Ordered Texas Brine to drill investigatory well
 - Office of Conservation issues permit for well to be drilled
 - Slurry area currently 476' NW to SE; 640 NE to SW; 295 E to W
 - Diesel and salt water present at slurry area
 - Staff has reviewed 34 hydrocarbon storage and 23 brine cavern wells and associated cavern files which represents 97% of the cavern wells on the dome
 - Continuing source investigation and file reviews
 - EPA will be conducting low flying overflights to detect gas via infrared imagery – set for Saturday, 25 August 2012
 - Oxy Well #9 will conduct standard sonar test to check for presence of diesel pad

As of 24 August 2012

Assumption Parish Operational Situation Summary

- Department of Natural Resources (continued):
 - Personnel reporting daily for continuing operations and providing staff to assist incident commander
 - Coordinating and providing information to science team
 - Emergency Use Authorization issued by Coastal Management
 - Diesel clean up has been suspended until further notice
 - DNR LNO assigned to the LSP Forward Cmd Post at well site 1800 08/17/2012 providing 24/7 oversight of drilling operation
 - Drilling Status: Completed driving 20-inch drive pipe to 352 feet –Spud well 8/19/12— preparing to run 16-inch casing to 610'
 - Crosstex has discontinued entry of new product into cavern for the 15 day period and has started moving product from cavern 2 to cavern 1 or to market
 - Chevron is in the process of mobilizing equipment and reconfiguring their system in order to move natural gas out of their cavern by the injection of salt water
 - Science team confirms Commissioner of Conservation's decision requiring investigatory well is appropriate action based on information available and also raises no concerns regarding the stability of the Crosstex Caverns
 - DNR made an official request via WebEOC for the assistance of experts from the Geomechanics Department of the Sandia National Laboratory who are knowledgeable in salt cavern construction, stability and operation

As of 24 August 2012

Assumption Parish Operational Situation Summary

- Department of Environmental Quality
 - Monitoring and sampling for Naturally Occurring Radioactive Materials (NORM) with no dangerous readings to date.
 - Diesel and dissolved natural gas confirmed in water at slurry site; chlorides slightly elevated at surface samples; data for deep samples also shows elevated Salinity as well as indicators of Natural Gas condensate as expected.
 - Air monitoring for VOC's (Diesel) continues with no dangerous levels detected off site (1000' away).
 - Mobile Air Monitoring Lab (MAML) continues to collect daily air samples in the Bayou Corne community.
 - On going Water sampling/water quality monitoring in Bayou Corne and Grand Bayou indicates no water pollution associated with the incident to date.
 - Water quality monitoring in Bayou Lafourche indicates no water pollution associated with the incident to date.
 - Air monitoring has been conducted at 96 private properties with no dangerous readings to date.

As of 24 August 2012

Assumption Parish Operational Situation Summary

- Department of Environmental Quality (continued)

DEQ personnel reporting daily for continuing operations including collecting air samples and conducting air monitoring using handheld equipment in the community and in the areas of bubbling in Bayou.

- Collected additional water samples from water wells (9 wells) on several facility properties. Samples have been sent for analysis.
- Collected air samples for isotopic analysis as part of the gas collection activities at the gas seep (bubbling sites), well site, and potential industrial sources
- In conjunction with Assumption OEP and other state agencies, monitor Texas Brine's efforts to ensure that the slurry site is safe to resume diesel remediation
- Provide continual oversight of Texas Brine's air monitoring efforts during drilling operations. EPA START contractors are contributing to this effort as of 8/23/12.
- Provide oversight and review of Texas Brine's water quality monitoring efforts.
- Conduct air monitoring at the Texas Brine facility using hand held instruments with EPA START assistance.
- Continue to visually monitor conditions of the booms and general conditions of the slurry area from the well pad.
- DEQ LNO assigned to the LSP Forward Cmd Post at well site beginning 08/17/2012

Assumption Parish Operational Situation Summary

- DHH / Office of Public Health
 - Air Monitoring
 - The Section of Environmental Epidemiology and Toxicology has received and reviewed air monitoring data from 8/15/2012-8/21/2012
 - A letter summarizing the results is forthcoming.

As of 24 August 2012

Assumption Parish Operational Situation Summary

- DHH / Office of Public Health
 - Slurry Sampling
 - The Section of Environmental Epidemiology and Toxicology has received preliminary sample data for additional parameters for slurry samples collected on 8/15/12.
 - Letters are forthcoming on results of testing

As of 24 August 2012

Assumption Parish Operational Situation Summary

- DHH / Office of Public Health
 - Water Well Sampling
 - The Section of Environmental Epidemiology and Toxicology sent 1 letter to Assumption Parish for water well sampling data (sulfate and bromide)
 - Water Well (Industrial) (Letter 10, 8/23/12) stating that to date, no completed exposure As of 24 August 2012
 - pathway for the general public has been identified.

As of 24 August 2012

Assumption Parish Operational Situation Summary

- DHH / Office of Public Health
 - Naturally Occurring Radioactive Materials (NORM) Sampling
 - The Section of Environmental Epidemiology and Toxicology has not received any new NORM data.
 - All reviews have been completed and letters issued with no public health concerns identified

As of 24 August 2012

Assumption Parish Operational Situation Summary

- DHH / Office of Public Health
 - Safe Drinking Water
 - DHH completed the field survey of all registered active domestic water wells in Assumption Parish.
 - None were identified as being used for human consumption.

As of 24 August 2012

Assumption Parish Operational Situation Summary

- Department of Transportation and Development
 - Monitoring and surveying roadways and bridges in the area for ground movement
 - Developed a traffic contingency plan if needed
 - Establishing GPS monitoring system
 - Continuous monitoring stations are concentrated on Hwy 70 from the Bayou Corne bridge East to LA Hwy 996 to include a ½ mile stretch of LA Hwy 69 from the intersection of LA Hwy 70

Assumption Parish Scientific Situation Summary

- USGS:
 - Seismic tremors ceased at approximately 2:00 pm on 2 August 2012
 - Source of seismic activity estimated between 200 and 600 meters deep
 - Continuing to monitor seismic activity at the six seismograph locations w/ all activity detected since 8/2/12 believed to be man-made
 - USGS confirms no seismic activity in the area of the butane caverns
 - Representative of the science group discussed dome mechanics and surveys for investigatory well with representative of USGS and Sandia National Lab
- LGS:
 - Mississippi alluvial aquifer exists from 150' to 400' below surface above the salt dome

Assumption Parish Scientific Situation Summary

- Scientific Workgroup theories of cause:
 - Salt Dome moving – natural migration of gas
 - Failed cement casing in OXY #3 well
 - Cavity Failure
 - Salt / Caprock falling from top of the cavern
 - Natural
 - Man-made (including penetration into sediments by cavern)
 - Gas storage cavern connections, communications by fractures
 - Low permeability seepage of gas into OXY #3 (source unknown)
 - Regional Tectonic activity (movement on growth faults)
 - A combination of above events

Next Operational Period (24-27 Aug 2012)

Incident Action Plan

- DNR :
 - Drilling of investigatory well to conduct cavern integrity test being conducted by Texas Brine pursuant to Office of Conservation order
 - Perform 24/7 oversight of drilling operation
 - Staff on standby to assist Assumption Parish Incident Commander with monitoring of bubble sites and other duties
 - Reviewing analysis of water samples from water wells screened in Mississippi River Alluvial aquifer
 - Continue source investigation and file reviews
 - Coordinate and provide information to science team
 - DNR LNO assigned to the LSP Forward Cmd Post at well site 1800 08/17/2012
 - Maintain contact with EPA for overflight data received

As of 24 August 2012

Next Operational Period (24-27 Aug 2012)

Incident Action Plan

- DEQ:
 - Continue to conduct air monitoring in the community and in the area of the bubbling in Bayou
 - Continue to monitor air quality daily using the Mobile Air Monitoring Lab (MAML)
 - Conduct any test required by scientific group to aid in source/cause identification
 - Provide oversight of Texas Brine's efforts to resume diesel remediation at the slurry site.
 - Provide continual oversight of Texas Brine's air monitoring efforts during drilling.
 - Provide oversight and review of Texas Brine's water quality monitoring efforts.
 - Continue to visually monitor conditions of the booms and general conditions of the slurry area from the well pad.
 - Conduct air monitoring using hand held instruments to verify air monitoring data collected at the drilling site and to conduct air monitoring around the site.
 - Focusing on flow measurements from abandoned water well.

As of 24 August 2012

Next Operational Period (24 - 27 Aug 2012)

Incident Action Plan

- DHH / Office of Public Health
 - DHH will continue to review and analyze environmental sample data as provided by the Louisiana Department of Environmental Quality (LDEQ), for any chemical findings that would indicate a potential public health risk.
 - DHH Safe Drinking Water Program will continue to monitor the incident for any reports of the expansion of the slurry/hole to ensure that water distribution underground piping is not compromised.

As of 24 August 2012

Next Operational Period (24 - 27 Aug 2012)

Incident Action Plan

- DHH / Office of Public Health:
 - DHH/OPH will continue to participate in meetings with GOHSEP and Assumption Parish to maintain visibility and operational readiness for any potential public health concerns.
 - DHH will be participating along with the other state agencies in the open house for citizens being held on Friday night, at 6:30 p.m. at St. Joseph the Worker Church in Pierre Part.

As of 24 August 2012

Next Operational Period (24-27 Aug 2012)

Incident Action Plan

- **Scientific Group:**
 - Scientific Group phone conference is scheduled for 8/29/2012
 - Analyzing groundwater sample analyses
 - Evaluate issues as they arise
 - Continue to provide information to the UCG
 - Anyone can submit information at any time for science team evaluation by sending an email to askgohsep@la.gov
 - Additional members added to the team as needed

Assumption Parish Long Range Plan

- **DNR:**

- Texas Brine conducts drilling of well in accordance with order
- Scientific Group conference calls/meetings will be scheduled weekly to review new data and issues that arise
- Continue source investigation and file review
- Evaluate results of monitoring data and take necessary action
- Monitor drilling operations of investigatory well 24/7
- Staff on standby to assist incident commander
- Total remediation of the entire site
- Evaluating the optimal location to install ground water observation wells in the Mississippi Alluvial aquifer to determine the presence of natural gas

- **DEQ:**

- Continue to conduct sampling on air and water in area of operation
- Monitor drilling operations of investigatory well 24/7 including assistance with EPA START (Superfund Technical Assessment and Response Team)
- Total remediation of the entire site