



# 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
    - Extended 30 days on 14 September 2012
    - Extended 30 days on 12 October 2012
    - Extended 30 days on 9 November, 2012
    - Extended 30 days on 8 December, 2012
    - Extended 30 days on 4 January , 2013
    - Extended 30 days on 5 February, 2013
  - 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
  - Texas Brine issuing financial assistance for residents – Bayou Corne Incident Command Center - HOTLINE 1-877-281-7311
  - Facilitating the [askGOHSEP@la.gov](mailto:askGOHSEP@la.gov) for questions
  - Texas Brine has now installed cameras to observe Oxy Pad 3 and the Sinkhole (1-29-2013)



# Assumption Parish Operational Situation Summary

- **Public Safety:**
  - LSP providing air craft support
  - LSP providing HAZMAT support to parish as needed
  - LDWF providing air boat support to parish as needed
  - No market or recreational hunting or fishing in restricted area
  - LSA Command Post on site
  - An office trailer has replaced the GOHSEP vehicle and will serve as a consolidated command post for the Assumption Unified Command
  - All state agencies currently involved with the event will continue to be in attendance.



# 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 (OXY #3) pad
- Ordered Texas Brine to drill investigatory well
- Office of Conservation issues permit for well to be drilled
- Slurry area approximately 600 feet in diameter
- Hydrocarbons and salt water present at slurry area
- Staff has reviewed 23 hydrocarbon storage and 36 brine cavern wells and associated cavern files which represents 100% of the cavern wells on the dome
- Continuing source investigation and file reviews
- EPA conducted over flight to detect gas and radiation via specialized imagery on Saturday, 25 August 2012—no significant detections—report posted to DNR website
- Personnel on stand by to assist incident commander
- Coordinating and providing information to science team



# Assumption Parish Operational Situation Summary

- **Department of Natural Resources (continued):**
  - DNR provided 24/7 oversight of drilling operations starting 1800 hours on 8/17/12
  - Drilling Status: completed
  - Observation wellhead assembly installed on well
  - Snubbing unit moved off observation well site location
  - As of 1 October 2012, Texas Brine is moving to daylight operations
  - Ran pulse-neutron log, gauge tool (to determine depth of cavern), and sonar of cavern
  - Texas Brine supplied a split sample (solid material) to DNR (Shaw E&I)
  - Crosstex has discontinued entry of new product into their caverns and continues to move product from cavern 2 to cavern 1 or to market
  - Chevron has started the injection of water into their natural gas cavern in order to move natural gas out of their caverns
  - U.S. Department of Energy's Sandia National Lab has agreed to provide technical assistance through participation in our Science Work Group.



# Assumption Parish Operational Situation Summary

- **Department of Natural Resources (continued):**
  - 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
  - Natural gas detected at approximately 48' while installing geoprobe borehole -- observation well installed
  - On Friday, September 14, 2012, contractor encountered gas at 90' while drilling the water observation well--- unable to complete as observation well so the wellbore was plugged and abandoned
  - Shaw E&I will be overseeing the evaluation & removal of natural gas from the aquifer
  - Commissioner of Conservation issued an Order directing all Dome operators to immediately begin work to assess the presence of natural gas in both the ground water aquifer and the salt dome cap rock beneath their operations; capture, vent or flare any natural gas that is encountered; and analyze any potential impacts to ground water in the Mississippi River Alluvial Aquifer
  - DNR has requested and received assistance in finding property owners to place geoprobes and/or vent wells
  - LSU completed seismic noise test on the Dugas-LeBlanc and Triche property
  - Shaw E&I finalized their initial plan of action for natural gas evaluation and removal from the ground water aquifer and presented it to incident command and Bayou Corne Community
  - Texas Brine completed tests on two water wells to determine the presence of natural gas
  - Shaw E&I's contractor has installed 18 observations wells (geoprobe boreholes) as of 10-15-12
  - Shaw E&I's contractor completed the installation of casing for 3 observation/relief wells (184' on ORW-1, 199' on ORW-2, & 200' on ORW-3)
  - Shaw E&I's contractor logged the active salt water disposal well located on Dugas-Leblanc property---no gas was found



# Assumption Parish Operational Situation Summary

- **Department of Natural Resources (continued):**
  - PDK log of the ORW-1 detected 4 feet of free gas, well perforated
  - PDK log of the ORW-2 detected 5 feet of free gas ---well perforated---shut in for 24 hours on 10-9-12
  - PDK log of the ORW-3 detected no free gas in the alluvial aquifer on 10-9-12, well perforated
  - Analytical results identified the hydrocarbon in the sink hole and cavern as formation hydrocarbon (crude oil)
  - Based on isotopic signatures and other data the following have been eliminated as the probable sources for the gas:
    - Chevron natural gas cavern;
    - Acadian natural gas cavern;
    - Crosstex butane caverns; and
    - Residual gas from the 2003 Gulf South blowout.
  - Probable source of gas and crude oil is from the oil and gas production zones that are the same elevation as the OXY GEISMAR NO. 3 cavern
  - Dissolved gas found in Domestic water wells confirmed to be swamp gas (Brule St. Vincent )
  - Bayou Drive bubbling site is confirmed to be swamp gas
  - Commissioner of Conservation issued an Order dated 11 Oct 2012 to Texas Brine to take the following action:
    - Monitoring pressure in the failed cavern
    - Install monitoring wells in the Bayou Corne community to monitor water quality and pressures, as well as elevation benchmarks within the community for subsidence monitoring
    - Install pressure monitor at wellhead of the cavern re-entry well, designed to provide real-time data to parish emergency response agencies of any rapid pressure change
    - Upgrade and expand seismic monitoring array to cover a wider area and include real-time data processing and interpretation of micro-seismic data, with seismic data reported in real-time to parish emergency response agencies
    - Install continuous water level monitoring station at the sinkhole
    - Collect and interpret geophysical data to determine the exact structure of the zone of failure and its impact on the surface and subsurface
    - Cease water production for the OXY No. 3 water well and begin use of this well for periodic water level determination and water quality sample and testing
    - Install observation/vent well in the vicinity of the Texas Brine core-hole well
  - Shaw E&I collected data on 14 Oct 2012 to determine next steps in venting of the natural gas from the aquifer
  - Working with DEQ to ensure integrity of the containment boom around the sink hole

As of Wednesday, February 13, 2013



# Assumption Parish Operational Situation Summary

- **Department of Natural Resources (continued):**
  - Texas Brine conducted the following operations on their investigatory well:
    - Collected a total of 4353 bbls(cumulative total as of 23 January 2013) hydrocarbons from the Oxy 3A Cavern.
    - Flared a total of 676 mcf of metered gas(cumulative total as of 23 January 2013)
    - Conducted sonar survey and ran a PDK log on 1 November 2012
  - Flared a total of 2798 mcf of metered gas from Texas Brine's No. 1 vent well as of 11 Feb (shut-in as of 22Jan 2013 – Flaring again as of 01 Feb) ORW-12 is also flaring at this same location
  - Flared a total of 172 mcf of metered gas from Texas Brine's No. 2 monitor/vent well as of 1 January 2013 (shut-in)
  - Flared a total of 201 mcf from ORW -12/TBC 2 as of 18 January, 2013 (Shut In).
  - Shaw E&I collected gas and hydrocarbon samples for analysis from the Oxy 3A cavern
  - Texas Brine contractor installed 14-inch observation/vent well – Perforated casing, 30 psi recorded as of 1 November 2012
  - Shaw E&I completed collection of water samples from the shallow water Geoprobes
  - Flaring commenced 2 November, 2012 at the vent well located on Texas Brine's property.
  - Flared a total of 911 mcf of metered gas from the ORW-1 vent well as of 11 Feb
  - Flared a total of 206 mcf of metered gas from the ORW-4 vent well as of 05 Feb
  - Flared a total of 1595 mcf of metered gas from the ORW-2 vent well as of 11 Feb
  - Shaw E&I collected gas samples from the ORW-2 & Texas Brine sonic/core well
  - Shaw E&I contractor perforated ORW-3 (as of 17 November).
  - Detected H2S in the Texas Brine Core/vent well --- well shut-in and area secured (19 Nov 2012)

As of Wednesday, February 13, 2013



# Assumption Parish Operational Situation Summary

## • Department of Natural Resources (continued):

- Shaw E&I collected gas samples from the tubing and the casing of Texas Brine's core/vent well on 29 Nov.
- Office of Conservation fined Texas Brine \$100, 000 for failure to comply with the emergency order directives (12/7/12).
- Shaw E&I contractor reworked ORW-4 (9 December 2012)
- The drill rig used to install the geophone well near Oxy Geismar #3 well location was rigged down over the weekend and removed (9 December 2012)
- Office of Conservation issued the 5th Amendment to the emergency order directing Texas Brine to install two geophysical wells to a depth of approx. 6000 feet.
- Shaw E&I collected gas and hydrocarbon samples to test for H2S from Oxy 3A
- Office of Conservation fined Texas Brine \$160, 000 for failure to comply with the emergency order directives (12/17/12).
- Shaw E&I performed pressure step test on ORW – 1 & 2 (18 December)
- Shaw E&I split gas sample with Texas Brine from OXY 3A (18 December)
- Texas Brine installed temporary geophones in their well (December)
- Texas Brine pulled the 4-inch pipe out of the Oxy 3A well (24 December)
- Texas Brine contractor completed pressure monitoring on Geoprobes (December 2012)
- PDK log was run on Texas Brine vent well #1 as of 26 December.
- Seismic equipment near the sinkhole detected the Alaska earthquake at approximately 3:00AM on Saturday, 5 January, 2013.
- Texas Brine has filed for injunctive relief from the directive to drill to 6,000ft. seismic wells.
- Texas Brine Contractor began VSP Surveying on January 9, 2013 on OXY 3A
- Texas Brine Contractor has complete four of the six Surface Seismic Casings as of January 9, 2013.
- VSP on OXY2 was completed on the 14<sup>th</sup>.
- VSP on OXY 1 began today (1-15-13)
- Texas Brine contractor completed installation of the casings for ORW 12 on 1/13/13
- Texas Brine contractor completed PDK log on ORW 12 on 1/14/13
- Texas Brine contractor began drilling MRAA #3 cluster well on 1/14/13
- Texas Brine contractor installed first in-home monitoring device on 16 January, 2013
- Texas Brine contractor began drilling MRAA #1 on 16 January, 2013.
- Texas Brine contractor began logging OXY 3A On 17 January, 2013.

As of Wednesday, February 13, 2013





# Assumption Parish Operational Situation Summary

- **Department of Natural Resources (continued):**
  - Texas Brine Contractor has started building up rig road and 1000' well pad (started January 17)
  - Texas Brine Contractor has completed the VSP on Oxy 3A on Tuesday January 15.
  - Texas Brine Contractor has completed the VSP on Oxy 2 on Wednesday January 16.
  - Texas Brine Contractor has completed the VSP on Oxy 1 on Thursday January 17.
  - University of Austin Texas (T-Rex) started logging the deep Geophone on Friday January 18.
  - On January 19 Oxy 3 well was evacuated due to seismic activity
  - On Friday January 18, ORW 12 and TBC-2 was shut in on Oxy 3 pad.
  - University of Houston started the Mini-Vib on January 21 on the Texas Brine facility.
  - Texas Brine Drilling contractor started installing ORW 13 casing set at 160'
  - Texas Brine contractor completed the installation of **38 pairs/16 properties** (H2S & LEL) of in-home monitors on **07 Feb 2013 (corrected)**
  - PDK Log on ORW 13-14
    - (13 – 28 January/ perforated)
    - (14 – 25 January/perforated, 28 January/log)
    - (1,2,4 – 26 January)



# Assumption Parish Operational Situation Summary

- **Department of Natural Resources (continued):**

- Geotechnical Boring completed on 26 January on Oxy Pad 3 for stability review
- MRAA (1-M) has been installed
- Surface conductor casing (20") has been driven on Geophone 3
- **Cased and Cemented to 420' on Geophone 3**
- LA-15 and 16 seismic casings were installed 04 Feb
- **Cased and cemented first 807' of hole on 1000' Geophone well as of 11 Feb**
- ORW 4 was shut-in due to proximity to drilling operations of Geophone 3 (1000' well)
- **PDK's OR 15& 16 as of 06 Feb**
- **Installed casing on ORW-22 as of 05 Feb**
- **Installed casing on ORW-11 as of 06 Feb**
- **ORW 14 has Flared 73 mcf cumulative as of 011 FEB**
- **ORW 23 and 24 casing has been installed 10 FEB**
- **Boone has completed 23% of surveying activity for property with access granted and 2% of drilling for the 3D Seismic as of 11 FEB**



# Assumption Parish Operational Situation Summary

- **DHH / Office of Public Health:**
  - Section for Environmental Epidemiology and Toxicology
    - Air Monitoring Sample Data
      - SEET has received and is analyzing community ambient air sampled 1/2-9/2013, and 1/11/2013-**2/7/2013** (MultiRAE). SEET will issue a letter to the parish in reference to these findings once the review of the data has been completed.
      - SEET has received and is analyzing sample results for air at bubble sites collected 1/2/2013, 1/4, 1/7, 1/9, 1/11, 1/18, 1/21, 1/23, 1/25, 1/28, 1/30, 2/1, and **2/6** (MultiRAE). SEET will issue a letter to the parish in reference to these findings once the review of the data has been completed.



# Assumption Parish Operational Situation Summary

- **DHH / Office of Public Health**
  - Section for Environmental Epidemiology and Toxicology
    - Industrial Water Well Sampling Data
      - No new water well data received during this operational period.



# Assumption Parish Operational Situation Summary

- **DHH / Office of Public Health**
  - Section for Environmental Epidemiology and Toxicology
    - Slurry Water Sampling Data
      - No new slurry data received during this operational period.



# Assumption Parish Operational Situation Summary

- **DHH / Office of Public Health**
  - Section for Environmental Epidemiology and Toxicology
    - Surface Water at Bubble Sites
      - No new surface water data received during this operational period.



# Assumption Parish Operational Situation Summary

## • Department of Environmental Quality

- Air monitoring for VOC's continues with no dangerous levels detected off site (1000' away).
- 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.
- To date outdoor air monitoring has been conducted in response to the receipt of 97 rights of passage.
- **53** indoor air monitoring inspections have been conducted in response to citizen requests.
- Private residence air monitoring is available for scheduling upon citizen completion of the Right of passage form. Please call (225) 219-3015 to notify DEQ if you desire monitoring..
- LDEQ Command Post on site. Mobile Air Monitoring Lab (MAML) scheduled to be on site on a recurring basis collecting continuous data on methane/non-methane VOCs and H2S.
- DNR continues to assist with community air monitoring
- **MAML is on-site and will remain in place until 14 FEB**



# Assumption Parish Operational Situation Summary

- **Department of Transportation and Development**
  - Regular monitoring and surveying roadways and bridges in the area for ground movement
  - Developed a traffic contingency plan if needed
  - Studying the feasibility of alternative alignments for LA 70
  - Has developed a long term plan for automated, continuous monitoring for roadway and bridge movement and subsidence





# Assumption Parish Scientific Situation Summary

- **USGS:**

- Source of seismic activity estimated between 200 and 600 meters deep
- Continuing to monitor seismic activity at the six seismograph locations
- USGS reported limited seismic activity---average of one tremor a day---direction NW of sinkhole and other side of the pipeline right-of-way---Dr. Horton stated the science behind the recent events does not suggest a heightened level of risk at this time.
- 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
- In response to Texas Brine's assertion that region seismic activity caused their cavern to be compromised, USGS stated (on 25 Sept. 2012) that it is their belief that the seismicity is a consequence of the collapse of the cavern, and not the cause of the collapse of the cavern and the formation of the sinkhole
- Based on the sinkhole water level transducer, the "burp" that occurred on 11/20/2012 @2245 moved approximately 15,000 ft<sup>3</sup> of water (100,000 gal; 2,700 bbls). This was 0.04 foot instantaneous water level change over the area of the sinkhole of about 8 acres. The 0.08 foot change on 11/27/12 moved approximately 30,000 ft<sup>3</sup> of water (200,000 gal; 5,400 bbls). The event on 11/20/12 was preceded by a rapid water level rise of approximately 0.01 foot when a gas bubble reached the surface, though the gas dissipated upon reaching surface. A similar rise was not recorded for the 11/27/12 seismic event . Both water level changes were recorded by the water level transducer in the one inclinometer equipped with such a transducer.
  - Dr. Horton and the USGS indicated that there was a seismic event recorded at station LA08 at 11:38 am on 11/27/12. The activity was shallow and northeast of station LA08 and northwest of station LA09.
  - Recent seismic activity is possibly contributable to VSP activity or the unusually high water, according to Dr. Horton (1/16/13)
- USGS has removed its 6 monitoring stations. Texas Brine is now operating 7 stations in place of the USGS monitors



# Assumption Parish Scientific Situation Summary

- **USGS (cont'd):**

- On 1/19/2013 there was about a 0.04 foot water level change during the burp at 10:00. The volume of water moved as similar to the previous events—about 15,000 cubic feet. This burp was somewhat different than previous events in that the water level recovered immediately after the burp. This is likely because the water level in the surrounding swamp is much higher than on previous events and there is now plenty of water in the swamp to flow into the sinkhole when it burps. The water level data also show that from 1/15/13 to 1/21/13, the Oxy 3 pad settled approximately 0.55 feet relative to the IP-2 tilt meter station with the majority of the settlement from 1/17/13 to 1/19/13. The settlement stopped shortly after the 1/19/13 10:00 burp event.
- As of 2/4 Dr. Steve Horten reported above normal seismic activity happening in the vicinity of the sinkhole. This is similar to past seismic activity, and could be indicative of a potential burp. All activity on the Pad 3 and the sinkhole has been suspended until the above normal seismic activity subsides. Dr. Horten will continue to monitor and update.
- The Bayou Corne Helicorders registered the seismic activity that occurred in the Solomon Islands on 09 FEB
- Dr. Hecox also reported VLP seismic activity is ongoing and being recorded by the Bayou Corne Helicorders



# 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 (11 - 14 Feb 2013) Incident Action Plan

- **DNR:**

- Texas Brine conducting hydrocarbon removal operations
- Perform oversight of operations at investigatory well, observation/vent well and sink hole (day light hours)
- Staff providing assist Assumption Parish Incident Commander and DEQ with bubble site monitoring, community air monitoring, and in-home monitoring
- 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
- Dome operators proceeding to implement their Shallow Geology, Aquifer, and Caprock Characterization Plan
- Shaw E&I to collect pressure readings from the shallow water Geoprobes
- Shaw E&I continues to evaluate the production of formation gas from the vent wells
- November 12, 2012 emergency order from the Commissioner of Conservation:
  - Homes – Ventilation improvements in unventilated, unoccupied, enclosed spaces
    - Gas Monitors
  - Texas Brine's contractor is Installing pressure monitoring wells with DNR oversight.
  - Develop plan for mitigation problem over area
  - Contain dissolved contamination from flowing into Bayou Corne



# Next Operational Period (11 - 14 Feb 2013) Incident Action Plan

## •DNR (Cont'd)

- Texas Brine's contractor is installing two surface seismic casings pending landowner approval.
- Texas Brine contractor will continue installation of the MRAA #'s 1 clustering monitoring wells.
- Texas Brine contractor to install antennas & repeaters for in-home monitoring
- Texas Brine contractor to install in-home monitors.
- Texas Brine contractor continues clearing of trees for the containment
- Texas Brine contractor continues to survey area for the 3D seismic study.
- Texas Brine contractor conducting GPR and subsurface analysis (pending)
- Preparing to begin flaring for **ORW-15, 22**
- Geophone 3 Rig will continue to sample cores
- **Will begin installation of ORW 8 and 16**
- **Will continue work on access road into Dugas-LeBlanc Property south of Hwy 70**
- **ORW 23 and 24 will be logged and perforated**



# Next Operational Period (11 - 14 Feb 2013) Incident Action Plan

- **DEQ:**

- Continue to conduct air and water monitoring in the community and in the area of the bubbling in Bayou Corne, Triche Canal, and Grand Bayou
- Continue to offer indoor air monitoring to residents who complete the Rite of Passage form from the Parish. Residents desiring indoor home monitoring may call DEQ @ (225) 219-3015
- Pursuant to the DNR press release dated 11/7/2012 regarding the pressure in some geoprobes, LDEQ will conduct indoor air monitoring as requested at residential homes in the Bayou Corne community.
- Conduct any test required by scientific group to aid in source/cause identification
- Provide oversight of Texas Brine's efforts to conduct hydrocarbon removal at the slurry site. DEQ is requesting written plan from Texas Brine with timeline for removal operations.
- Provide oversight and review of Texas Brine's air and water quality monitoring efforts.
- Continue to visually monitor conditions of the booms and general conditions of the slurry area from the well pad.
- Conducting water quality monitoring at bubbling sites
- DNR will continue to assist DEQ with air monitoring activities



# Next Operational Period (11 - 14 Feb 2013) 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.



## Next Operational Period (11 - 14 Feb 2013) 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.





# Next Operational Period (11 - 14 Feb 2013) Incident Action Plan

- **Scientific Group:**

- 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](mailto:askgohsep@la.gov)
- Additional members added to the team as needed



# Assumption Parish Long Range Plan

- **DNR:**
  - Conducting testing of investigatory well to determine cavern condition and root cause
  - 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 operations at investigatory, observation/vent well and sink hole (day light hours)
  - Staff on standby to assist incident commander
  - Ensure total remediation of the entire site
  - Continue to pursue landowner access agreements
  - Implement Shaw E&I's Plan of Action
    - Conduct industrial well sampling bi-weekly and bubble sites as reported in general vicinity of operations.
  - Dome operators to identify presence of natural gas and vent as necessary
  - Ensure Texas Brine fully complies with the Commissioner of Conservation's Orders dated 11 Oct 12, Nov 2012, 7 Dec 2012, and 14 Jan 2013.
- **DOTD:**
  - Investigating bypass to 70 around the Salt Dome
  - Installation of Bridge Collapse Early Warning Monitoring System (pilot project)
- **DEQ:**
  - Continue to conduct sampling on air and water in area of operation
  - Continue oversight of ongoing remedial activities
  - Continue to conduct hazard assessment monitoring with APSD in resident homes and properties when requested.