



# Texas Brine Company, LLC

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Belle Rose, LA 70341  
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February 7, 2014

Commissioner James H. Welsh  
P.O. Box 94275  
Baton Rouge, LA 70804

**RE: In response to State of Louisiana Department of Natural Resources Office of Conservation's Second Amendment to Declaration of Emergency and Directive**

Commissioner Welsh,

In response to the Second Amendment and Declaration of Emergency and Directive order issued by the Louisiana Department of Natural Resources (LDNR), Office of Conservation on September 25, 2012, Texas Brine Company, LLC (TBC) understands the seven items listed in the document.

In the above mentioned, TBC was specifically directed and ordered to perform certain tasks outlined in the above mentioned document. Below are the required responses, as directed.

1. TBC's counsel provided LDNR legal counsel with a response to Directives 1-3 on September 28, 2012.
2. TBC understands Directive 4, which is to provide all daily logs and field notes from all contractors conducting investigation into subsidence and natural gas bubbling. The Daily Action Summary and results for current information can be found in the Attachment section of this report.
3. TBC understands Directive 5, which directs TBC to immediately allow for split or share any sample taken on site related to Well 3A (Serial Number 974265), the cavern, other wells facilities or other site locations. The Daily Action Summary of today's collection can be found in Attachment section of this report.
4. TBC understands Directive 6, which directs TBC to immediately report the results (final and preliminary) of any tests, logs samples or data collection performed on Well 3A, the cavern, other wells, facilities or site locations that indicate a change in any previously known conditions related to the investigation of the subsidence or natural gas bubbling

events, and continue to report any such results. The Daily Action Summary and the Results related to this Directive can be found in Attachment section of this report.

5. TBC understands the Directive 7, which states that TBC will provide a daily summary of all tests, or logs performed or samples taken from Well 3A and the cavern as well as any results of those tests or logs, including preliminary as of September 25, 2012 and going forward. The Daily Summary and Results related to this Directive can be found in Attachment section of this report.

Please note that the drilling rig used for the Observation Well 3A has been removed and the site is being rigged down and returned to pre-drilling condition. As such, daily drilling reports for this well have ceased. Plans are being made for longer term potential gas venting/flaring requirements and possible hydrocarbon material recover from Well 3A.

In addition, previous daily summary reports issued to LDNR have included significant duplicate information as there is a fair amount of overlap in the information requested in each of the Directives included in the September 25, 2012 order. All requested information associated with the Directives issued in the September 25, 2012 order are included in the Attachment section of this report.

TBC believes that the submittal of this report satisfies the requirements of the Declaration of Emergency and Directive issued on September 25, 2012. As directed this report is submitted by email to [conservationorder@la.gov](mailto:conservationorder@la.gov), ref. "Emergency Declaration-Texas Brine Company LLC-9/25/2012.



Bruce E. Martin

Vice President, Operations

Texas Brine Company, LLC

## **Summary Table for Daily Events**



## **Attachments**

## **Daily Action Summary**

**February 6, 2014**

### **Sinkhole Perimeter Air Monitoring and Neighborhood Air Monitoring**

- The following locations are equipped with solar-powered weather boxes: Pad #9, TR-1a, ORW-11a, ORW-9a, ORW-5, PVW-02, and PVW-BS-56a. And, the following locations are equipped with electrical power: ORW-49-WH, ORW-50-WH, and PVW-03. Thus, daily monitor change-out is no longer necessary for these locations. All monitors will continue to be calibrated and serviced as necessary.
- No Sage personnel onsite.
- Britt Barnett of Code Red (monitor sub-contractor) onsite from 07:00 to 17:10. Assisted in maintenance of the monitoring equipment as necessary.

NOTE: Monitors were deployed at ORW-58, ORW-58-S, and ORW-38 on 02/06/2014 while work was being conducted at ORW-58 and ORW-38. Monitors at ORW-58-S and ORW-38 were removed once the day's activities were complete.

RTU-4, located at PVW-BS-56a, experienced a battery malfunction at approximately 08:45 on 02/06/2014. The onsite technician resolved the issue at approximately 10:05 on 02/06/2014, and normal data collection resumed.

Additionally, all neighborhood monitoring locations experienced radio signal issues from approximately 18:47 on 02/06/2014 to 04:38 on 02/07/2014. The onsite technician is working to retrieve this non-transmitted data from each monitor's respective internal data logger. A revised data report will be submitted accordingly.

### **Residential Air Monitoring**

- Sage has been requested to suspend bimonthly residential air monitoring. Therefore, Sage will discontinue these activities. The last event was conducted on March 26, 2013.

### **Gas Seep Sampling**

- Not Scheduled

### **Well Gas Sampling**

- Not Scheduled

### **Under Slab Gas Sampling**

- Not Scheduled

### **Air Indoor Monitoring**

- Not Scheduled

**Texas Brine - Belle Rose, Louisiana**  
**Hourly Air Monitoring Data**  
**Neighborhood Monitoring**

\*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

Date-Time *	Observation Relief Well -49 at the Well Head			Observation Relief Well - 50 at the Well Head			Passive Vent Well -56			Passive Vent Well - 03		
	ORW-49-WH			ORW-50-WH			PVW-BS-56a			PVW-03		
	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)
02/06/2014 01:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 02:00:00 AM	0.0	0.0	21.1	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 03:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 04:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 05:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 06:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 07:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 08:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 09:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	Battery Malfunction			<1.0	0.0	20.0
02/06/2014 10:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 11:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 12:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 01:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 02:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 03:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 04:00:00 PM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 05:00:00 PM	0.0	0.0	21.6	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 06:00:00 PM	0.0	0.0	21.5	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 07:00:00 PM	Data not properly transmitted - see note			Data not properly transmitted - see note			Data not properly transmitted - see note			Data not properly transmitted - see note		
02/06/2014 08:00:00 PM												
02/06/2014 09:00:00 PM												
02/06/2014 10:00:00 PM												
02/06/2014 11:00:00 PM												
02/07/2014 12:00:00 AM												

Notes:

RTU-4, located at PVW-BS-56a, experienced a battery malfunction at approximately 08:45 AM on 02/06/2014. The onsite technician resolved the issue at approximately 10:05 AM on 02/06/2014, and normal data collection resumed.

All monitoring locations experienced radio signal issues from approximately 06:47 PM on 02/06/2014 to 04:38 AM on 02/07/2014. The onsite technician is working to retrieve this non-transmitted data from each monitor's respective internal data logger. A revised data report will be submitted accordingly.



**Texas Brine - Belle Rose, Louisiana**  
**Hourly Air Monitoring Data**  
**Neighborhood Monitoring**

\*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

Date-Time *	Passive Vent Well - 02			Observation Relief Well - 58			Observation Relief Well - 58 Downwind			Observation Relief Well - 38		
	PVW-02			ORW-58			ORW-58-S			ORW-38		
	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)
02/06/2014 01:00:00 AM	0.0	0.0	21.0	RTU-6 deployed at 07:45 AM on 02/06/2014		21.0	RTU-3 deployed at 07:45 AM on 02/06/2014		21.0	RTU-9 deployed at 07:45 AM on 02/06/2014		21.0
02/06/2014 02:00:00 AM	0.0	0.0	21.0									
02/06/2014 03:00:00 AM	0.0	0.0	21.0									
02/06/2014 04:00:00 AM	0.0	0.0	21.0									
02/06/2014 05:00:00 AM	0.0	0.0	21.0									
02/06/2014 06:00:00 AM	0.0	0.0	21.0									
02/06/2014 07:00:00 AM	0.0	0.0	21.0									
02/06/2014 08:00:00 AM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 09:00:00 AM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 10:00:00 AM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 11:00:00 AM	0.0	0.0	21.0	<1.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 12:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 01:00:00 PM	0.0	0.0	21.0	<1.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 02:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 03:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 04:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 05:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	RTU-3 removed at 04:47 PM on 02/06/2014		21.0	RTU-9 removed at 04:40 PM on 02/06/014		21.0
02/06/2014 06:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0						
02/06/2014 07:00:00 PM	Data not properly transmitted - see note		21.0	Data not properly transmitted - see note		21.0						
02/06/2014 08:00:00 PM												
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02/06/2014 10:00:00 PM												
02/06/2014 11:00:00 PM												
02/07/2014 12:00:00 AM												

Notes:

RTU-4, located at PVW-BS-56a, experienced a battery malfunction at approximately 08:45 AM on 02/06/2014. The onsite technician resolved the issue at approximately 10:05 AM on 02/06/2014, and normal data collection resumed.

All monitoring locations experienced radio signal issues from approximately 06:47 PM on 02/06/2014 to 04:38 AM on 02/07/2014. The onsite technician is working to retrieve this non-transmitted data from each monitor's respective internal data logger. A revised data report will be submitted accordingly.

**Texas Brine - Belle Rose, Louisiana**  
**Hourly Air Monitoring Data**  
**Neighborhood Monitoring**

\*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

Date-Time *	Observation Relief Well -49 at the Well Head			Observation Relief Well - 50 at the Well Head			Passive Vent Well -56			Passive Vent Well - 03		
	ORW-49-WH			ORW-50-WH			PVW-BS-56a			PVW-03		
	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)
02/06/2014 01:00:00 AM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 02:00:00 AM	0.0	0.0	21.1	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 03:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 04:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 05:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 06:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 07:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 08:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 09:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	Battery Malfunction			<1.0	0.0	20.0
02/06/2014 10:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 11:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 12:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 01:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 02:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 03:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 04:00:00 PM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 05:00:00 PM	0.0	0.0	21.6	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 06:00:00 PM	0.0	0.0	21.5	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 07:00:00 PM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	20.3
02/06/2014 08:00:00 PM	0.0	0.0	21.1	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	20.2
02/06/2014 09:00:00 PM	0.0	0.0	21.0	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	20.2
02/06/2014 10:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	20.2
02/06/2014 11:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	20.2
02/07/2014 12:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	20.2

Notes:

RTU-4, located at PVW-BS-56a, experienced a battery malfunction at approximately 08:45 AM on 02/06/2014. The onsite technician resolved the issue at approximately 10:05 AM on 02/06/2014, and normal data collection resumed.

**Texas Brine - Belle Rose, Louisiana**  
**Hourly Air Monitoring Data**  
**Neighborhood Monitoring**

\*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

Date-Time *	Passive Vent Well - 02			Observation Relief Well - 58			Observation Relief Well - 58 Downwind			Observation Relief Well - 38		
	PVW-02			ORW-58			ORW-58-S			ORW-38		
	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)
02/06/2014 01:00:00 AM	0.0	0.0	21.0	RTU-6 deployed at 07:45 AM on 02/06/2014		21.0	RTU-3 deployed at 07:45 AM on 02/06/2014		21.0	RTU-9 deployed at 07:45 AM on 02/06/2014		21.0
02/06/2014 02:00:00 AM	0.0	0.0	21.0									
02/06/2014 03:00:00 AM	0.0	0.0	21.0									
02/06/2014 04:00:00 AM	0.0	0.0	21.0									
02/06/2014 05:00:00 AM	0.0	0.0	21.0									
02/06/2014 06:00:00 AM	0.0	0.0	21.0									
02/06/2014 07:00:00 AM	0.0	0.0	21.0									
02/06/2014 08:00:00 AM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 09:00:00 AM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 10:00:00 AM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 11:00:00 AM	0.0	0.0	21.0	<1.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 12:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 01:00:00 PM	0.0	0.0	21.0	<1.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 02:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 03:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 04:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 05:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	RTU-3 removed at 04:47 PM on 02/06/2014		21.0	RTU-9 removed at 04:40 PM on 02/06/014		21.0
02/06/2014 06:00:00 PM	0.0	0.0	21.0									
02/06/2014 07:00:00 PM	0.0	0.0	20.9									
02/06/2014 08:00:00 PM	0.0	0.0	20.9									
02/06/2014 09:00:00 PM	0.0	0.0	20.9									
02/06/2014 10:00:00 PM	0.0	0.0	20.9									
02/06/2014 11:00:00 PM	0.0	0.0	20.9									
02/07/2014 12:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9						

Notes:

RTU-4, located at PVW-BS-56a, experienced a battery malfunction at approximately 08:45 AM on 02/06/2014. The onsite technician resolved the issue at approximately 10:05 AM on 02/06/2014, and normal data collection resumed.

**Texas Brine - Belle Rose, Louisiana**  
**Hourly Air Monitoring Data**  
**Sinkhole Perimeter Monitoring**

\*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

Date-Time *	Observation Relief Well -5					Observation Relief Well - 9					Observation Relief Well -11					South of OG3A-1					Onsite Trailers				
	ORW-5					ORW-9a					ORW-11a					Pad #9					TR-1a				
	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	SO2 (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)
02/06/2014 01:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 02:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 03:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 04:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 05:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 06:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 07:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 08:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 09:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 10:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 11:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 12:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 01:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 02:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 03:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 04:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 05:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.2	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 06:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.2	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 07:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.1	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 08:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 09:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 10:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 11:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/07/2014 12:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9

Notes:

**Texas Brine - Belle Rose, Louisiana**  
**Hourly Air Monitoring Data**  
**Neighborhood Monitoring**

\*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

	Observation Relief Well -49 at the Well Head			Observation Relief Well - 50 at the Well Head			Passive Vent Well -56			Passive Vent Well - 03		
	ORW-49-WH			ORW-50-WH			PVW-BS-56a			PVW-03		
Date-Time *	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)
02/06/2014 05:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 06:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 07:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 08:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 09:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	Battery Malfunction			<1.0	0.0	20.0
02/06/2014 10:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 11:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 12:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 01:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 02:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 03:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 04:00:00 PM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 05:00:00 PM	0.0	0.0	21.6	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 06:00:00 PM	0.0	0.0	21.5	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 07:00:00 PM	Data not properly transmitted - see note			Data not properly transmitted - see note			Data not properly transmitted - see note			Data not properly transmitted - see note		
02/06/2014 08:00:00 PM												
02/06/2014 09:00:00 PM												
02/06/2014 10:00:00 PM												
02/06/2014 11:00:00 PM												
02/07/2014 12:00:00 AM												
02/07/2014 01:00:00 AM												
02/07/2014 02:00:00 AM												
02/07/2014 03:00:00 AM												
02/07/2014 04:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0
02/07/2014 05:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0

Notes:

RTU-4, located at PVW-BS-56a, experienced a battery malfunction at approximately 08:45 AM on 02/06/2014. The onsite technician resolved the issue at approximately 10:05 AM on 02/06/2014, and normal data collection resumed.

All monitoring locations experienced radio signal issues from approximately 06:47 PM on 02/06/2014 to 04:38 AM on 02/07/2014. The onsite technician is working to retrieve this non-transmitted data from each monitor's respective internal data logger. A revised data report will be submitted accordingly.

**Texas Brine - Belle Rose, Louisiana**  
**Hourly Air Monitoring Data**  
**Neighborhood Monitoring**

\*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

	Passive Vent Well - 02			Observation Relief Well - 58			Observation Relief Well - 58 Downwind			Observation Relief Well - 38		
	PVW-02			ORW-58			ORW-58-S			ORW-38		
Date-Time *	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)
02/06/2014 05:00:00 AM	0.0	0.0	21.0	RTU-6 deployed at 07:45 AM on 02/06/2014			RTU-3 deployed at 07:45 AM on 02/06/2014			RTU-9 deployed at 07:45 AM on 02/06/2014		
02/06/2014 06:00:00 AM	0.0	0.0	21.0									
02/06/2014 07:00:00 AM	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 08:00:00 AM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 09:00:00 AM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 10:00:00 AM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 11:00:00 AM	0.0	0.0	21.0	<1.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 12:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 01:00:00 PM	0.0	0.0	21.0	<1.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 02:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 03:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 04:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 05:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	RTU-3 removed at 04:47 PM on 02/06/2014	RTU-9 removed at 04:40 PM on 02/06/014				
02/06/2014 06:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0						
02/06/2014 07:00:00 PM	Data not properly transmitted - see note			Data not properly transmitted - see note								
02/06/2014 08:00:00 PM												
02/06/2014 09:00:00 PM												
02/06/2014 10:00:00 PM												
02/06/2014 11:00:00 PM												
02/07/2014 12:00:00 AM												
02/07/2014 01:00:00 AM												
02/07/2014 02:00:00 AM												
02/07/2014 03:00:00 AM	Data not properly transmitted - see note			Data not properly transmitted - see note								
02/07/2014 04:00:00 AM												
02/07/2014 05:00:00 AM	0.0	0.0	21.0	<1.0	0.0	21.0						

Notes:

RTU-4, located at PVW-BS-56a, experienced a battery malfunction at approximately 08:45 AM on 02/06/2014. The onsite technician resolved the issue at approximately 10:05 AM on 02/06/2014, and normal data collection resumed.

All monitoring locations experienced radio signal issues from approximately 06:47 PM on 02/06/2014 to 04:38 AM on 02/07/2014. The onsite technician is working to retrieve this non-transmitted data from each monitor's respective internal data logger. A revised data report will be submitted accordingly.

**Texas Brine - Belle Rose, Louisiana**  
**Hourly Air Monitoring Data**  
**Neighborhood Monitoring**

\*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

Date-Time *	Observation Relief Well -49 at the Well Head			Observation Relief Well - 50 at the Well Head			Passive Vent Well -56			Passive Vent Well - 03		
	ORW-49-WH			ORW-50-WH			PVW-BS-56a			PVW-03		
	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)
02/06/2014 05:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 06:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 07:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 08:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 09:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	Battery Malfunction			<1.0	0.0	20.0
02/06/2014 10:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 11:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 12:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 01:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 02:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 03:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 04:00:00 PM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 05:00:00 PM	0.0	0.0	21.6	0.0	0.0	20.9	0.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 06:00:00 PM	0.0	0.0	21.5	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0
02/06/2014 07:00:00 PM	0.0	0.0	21.2	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	20.3
02/06/2014 08:00:00 PM	0.0	0.0	21.1	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	20.2
02/06/2014 09:00:00 PM	0.0	0.0	21.0	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	20.2
02/06/2014 10:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	20.2
02/06/2014 11:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	20.2
02/07/2014 12:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	20.2
02/07/2014 01:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.6	0.0	0.0	20.9	<1.0	0.0	20.1
02/07/2014 02:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	20.2
02/07/2014 03:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	20.2
02/07/2014 04:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	20.9	<1.0	0.0	20.1
02/07/2014 05:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	21.0	<1.0	0.0	20.0

Notes:

RTU-4, located at PVW-BS-56a, experienced a battery malfunction at approximately 08:45 AM on 02/06/2014. The onsite technician resolved the issue at approximately 10:05 AM on 02/06/2014, and normal data collection resumed.

**Texas Brine - Belle Rose, Louisiana**  
**Hourly Air Monitoring Data**  
**Neighborhood Monitoring**

\*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

	Passive Vent Well - 02			Observation Relief Well - 58			Observation Relief Well - 58 Downwind			Observation Relief Well - 38		
	PVW-02			ORW-58			ORW-58-S			ORW-38		
Date-Time *	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)
02/06/2014 05:00:00 AM	0.0	0.0	21.0	RTU-6 deployed at 07:45 AM on 02/06/2014			RTU-3 deployed at 07:45 AM on 02/06/2014			RTU-9 deployed at 07:45 AM on 02/06/2014		
02/06/2014 06:00:00 AM	0.0	0.0	21.0									
02/06/2014 07:00:00 AM	0.0	0.0	21.0									
02/06/2014 08:00:00 AM	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 09:00:00 AM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 10:00:00 AM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 11:00:00 AM	0.0	0.0	21.0	<1.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 12:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 01:00:00 PM	0.0	0.0	21.0	<1.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 02:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 03:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 04:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	<1.0	0.0	21.0	0.0	0.0	21.0
02/06/2014 05:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0	RTU-3 removed at 04:47 PM on 02/06/2014			RTU-9 removed at 04:40 PM on 02/06/014		
02/06/2014 06:00:00 PM	0.0	0.0	21.0	0.0	0.0	21.0						
02/06/2014 07:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9						
02/06/2014 08:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9						
02/06/2014 09:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9						
02/06/2014 10:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9						
02/06/2014 11:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9						
02/07/2014 12:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9						
02/07/2014 01:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9						
02/07/2014 02:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9						
02/07/2014 03:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9						
02/07/2014 04:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9						
02/07/2014 05:00:00 AM	0.0	0.0	21.0	<1.0	0.0	21.0						

Notes:

RTU-4, located at PVW-BS-56a, experienced a battery malfunction at approximately 08:45 AM on 02/06/2014. The onsite technician resolved the issue at approximately 10:05 AM on 02/06/2014, and normal data collection resumed.



**Texas Brine - Belle Rose, Louisiana**  
**Hourly Air Monitoring Data**  
**Sinkhole Perimeter Monitoring**

\*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

Date-Time *	Observation Relief Well -5					Observation Relief Well - 9					Observation Relief Well -11					South of OG3A-1					Onsite Trailers				
	ORW-5					ORW-9a					ORW-11a					Pad #9					TR-1a				
	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	SO2 (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)
02/06/2014 05:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 06:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 07:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 08:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 09:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 10:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 11:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 12:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 01:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 02:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 03:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 04:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 05:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.2	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 06:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.2	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 07:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.1	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 08:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 09:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/06/2014 10:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/06/2014 11:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/07/2014 12:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/07/2014 01:00:00 AM	<1.0	0.0	0.0	0.0	20.8	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/07/2014 02:00:00 AM	<1.0	0.0	0.0	0.0	20.6	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/07/2014 03:00:00 AM	<1.0	0.0	0.0	0.0	20.6	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.6	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/07/2014 04:00:00 AM	<1.0	0.0	0.0	0.0	20.6	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.6	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
02/07/2014 05:00:00 AM	<1.0	0.0	0.0	0.0	20.6	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.6	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9

Notes:

**RESPEC Consulting & Services**

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: Crystal Hocking

Date: 2/06/2014

Company: RESPEC

Job #: 2241

<b>Personnel</b>	<b>Company</b>	<b>Job Title</b>
Nick Marnach	RESPEC	Staff Engineer

**Time Onsite:** Start Time: 7:30 End Time: 8:30  
Start Time: 15:00 End Time: 18:00

**DAILY ACTIVITY:**

Attended onsite contractor and safety meeting.

**Instrumentation Program:**

Cut steel piping flush with surface in field north of sinkhole.

**Other Programs:**

*Passive Vent Wells:* Install riser on PVW-03. Inspect all PVW wells and monitoring wells (PVW-01, NSDMW006, PVW-2, GP-6, PVW-3, GP-5, PVW-4, GP-37-1, GP-37-2, PVW-5, GP-22-1, GP-22-2, GP-22-3). Close flow meters on all PVW wells to observe 24-hr pressure response. Measure pressure at GP-BS-26-1 and GP-BS-26-2.

**PROPOSED SCHEDULE:**

**Instrumentation Program:**

Drilling oversight, casing installation, and instrumentation installation at IPI-STR-01 pending berm and pad construction.

**Other Programs:**

*Passive Vent Wells:* Revisit PVW wells after close-in period to reopen flow meters.

Initials: CMH

## **ME&A Daily Action Summary**

February 05, 2014

### **Subsidence Survey:**

- No Work Done

### **Sinkhole Perimeter/Hydrographic Survey:**

- No Work Done

### **Support Sinkhole Cleanup**

- No Work Done

### **Misc. Survey Work**

- Arrived @ 8:00 am
- Surveyed ORW38 Monitoring Rods
- Departed @ 9:00 am

## **ME&A Daily Action Summary**

February 06, 2014

### **Subsidence Survey:**

- No Work Done

### **Sinkhole Perimeter/Hydrographic Survey:**

- No Work Done

### **Support Sinkhole Cleanup**

- No Work Done

### **Misc. Survey Work**

- Arrived @ 8:00 am
- Surveyed Water Meters
- Surveyed ORW and CPT Locations
- Departed @ 2:45 pm