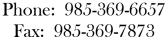


# Texas Brine Company, LLC 1301 Highway 70

Belle Rose, LA 70341





November 22, 2013

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 (TPC) 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 <a href="mailto:conservationorder@la.gov">conservationorder@la.gov</a>, ref. "Emergency Declaration-Texas Brine Company LLC-9/25/2012.

Bruce E. Martin

Vice President, Operations

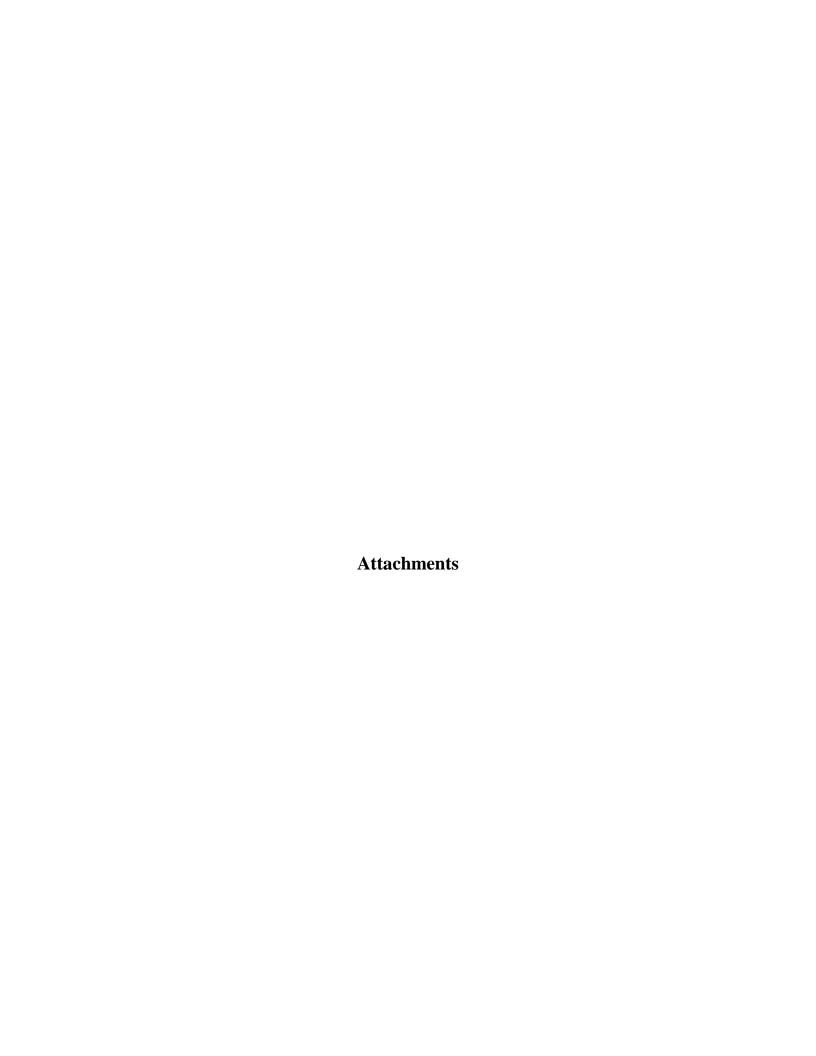
Bana EMart

Texas Brine Company, LLC



			TBC Oxy Gran	d Bayou Data Manage	ment-Enviro	nmental					
Contractor	Responsibilities	Col	lected By	Date Collect	ed	Delivered to Lab	Results from Lab	Laboratory	Method	Date to Age	encies
Sage	Stationary Air Monitoring	Britt Barnett (Co Neighborhood: Chad Deshotel (Co 18: Roxana Dubose	08:20 de Red) - 07:00 - 17:00 Eric Rucinski - 07:15 - 15:15 de Red) - 00:00 - 06:00, 00 - 24:00 (Code Red) - 06:00 - 18:00	11/21/201	3	NA	NA	NA	NA	11/22/20	013
	Residential Air Monitoring	bimonthly resid Therefore, Sage	equested to suspend ential air monitoring. will discontinue these tivities.	NA		NA	NA	NA	NA	NA	
	Gas Seep Sampling	No wor	k performed	11/21/201	3	NA	NA	NA	NA	NA	
	Well Gas Sampling	No wor	k performed	11/21/201	3	NA	NA	NA	NA	NA	
	Under Slab Gas Sampling	No wor	k performed	11/21/201	3	NA	NA	NA	NA		
	Indoor Air Monitoring	No wor	k performed	11/21/201	3	NA	NA	NA	NA	NA	
Respec	Inclinometers/Tilt Meters/Transducers	11/21/2013	No work Conducted	NA	NA	NA	NA		NA	NA	NA
	InSAR Reflector Installations	11/21/2013 No work Conducted		NA	NA	NA	NA		NA	NA	NA
	Subsidence Survey-Fenstermaker	11/21/2013	No work Conducted	NA	NA	NA	NA		NA	NA	
	<b>Shallow Geophone Installation</b>	11/21/2013	No work Conducted	NA	NA	NA	NA		NA	NA	NA
	Deep Geophone Installation	11/21/2013	No work Conducted	NA	NA	NA	NA		NA	NA	NA
	Amendment #3, Directive #2	11/21/2013	No work Conducted	NA	NA	NA	NA		NA	NA	NA
	Expansion of geoprobe gas sampling locations	11/21/2013	No work Conducted	NA	NA	NA	NA		NA	NA	NA
	DPVE	11/21/2013	No work Conducted	NA	NA	NA	NA		NA	NA	NA
	Abandon Casing Survey	11/21/2013	No work Conducted	NA	NA	NA	NA		NA	NA	NA
	MIHPT	11/21/2013	No work Conducted	NA	NA	NA	NA		NA	NA	NA
Miller	Weekly Stability Survey	_	rk performed	November 21,		NA	NA	NA	NA	NA	
_	Misc. Survey Work	_	. Pichoff	November 21,		NA	NA	NA	NA	NA	
	Sinkhole Hydro/Perimeter Survey	No wor	rk performed	November 21,		NA	NA	NA	NA	NA	
Pisani	Surface Water		NA	November 21,		NA	NA	NA	NA	NA	
-	Sinkhole		NA	November 21,		NA	NA	NA	NA NA	NA	
-	Industrial Well Water		NA	November 21,		NA 	NA NA	NA	NA NA	NA	
-	MRAA Well Water		NA	November 21,		NA	NA	NA	NA NA	NA	
-	GP/ORW Water	_	NA	November 21,		NA NA	NA NA	NA		NA	
-	Cavern Water	+	NA NA	November 21,		NA NA	NA NA	NA NA	NA NA	NA NA	
-	Discharge/Outfall Water  Geoprobe Wells		NA NA	November 21, November 21,		NA NA	NA NA	NA NA	NA NA	NA NA	
	Geoprobe Wells		INA	November 21,	2013	NA	INA	INA	NA	NA	

	Grand Bayou Well 3A												
Daily Operations at 3A	Summary of Today's events												
			Oxy 3A										
11/22/2013	7am												
	822.19	11/22/2013											
			Relief Well #1										
11/22/2013	See ORW-01 Flare Spreadsheet												



### **Daily Action Summary**

### November 21, 2013

### **Stationary Air Monitoring**

### Sinkhole Perimeter Air Monitoring

- Bijeet Mukherjee onsite from 07:30 to 08:20. Changed out the monitors between 07:47 and 08:04. Collected data from the monitoring database and forwarded to Jill Martin in the Baton Rouge office for processing.
- Eric Rucinski (onsite for neighborhood ORWs air monitoring) assisted in deployment of new monitoring units between 13:33 and 13:53. These new monitoring units are compatible with the monitoring system installed for the neighborhood ORWs air monitoring program. The former monitors were demobilized between 14:26 and 14:42.

NOTE: The monitoring location ORW-5a was relocated to ORW-5 in an effort to support new monitoring equipment being delivered early next week. The coordinates for ORW-5 are 30.00952, -91.14611. Additionally, a map of the sinkhole perimeter air monitors is attached.

• Britt Barnett of Code Red (monitor sub-contractor) onsite from 07:00 to 17:00. Assisted in battery change outs and maintenance of the monitoring equipment.

### Neighborhood ORWs Air Monitoring

- Eric Rucinski onsite from 07:15 to 15:15. Changed out the monitors between 07:34 and 10:10. Collected data from the monitoring database and forwarded to Jill Martin in the Baton Rouge office for processing.
- Code Red (monitor sub-contractor) onsite for continuous 24/7 monitoring:
  - o Chad Deshotel onsite from 0:00 to 06:00 and 18:00 to 24:00
  - o Roxana Dubose of Code Red onsite from 06:00 to 18:00.

Technicians also assisted in battery change outs and maintenance of the monitoring equipment as necessary.

### **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)

	Observation	Relief Well -49 at th	ne Well Head	Observation Re	lief Well - 49 in the	Exclusion Zone	Observation Re	lief Well - 50 in the	Exclusion Zone	Observation Re	lief Well - 50 in the	Exclusion Zone
		ORW-49-WH ORW-49-S ORW-50-S									ORW-50-S	
Date-Time *	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)
11/21/2013 01:00:00 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
11/21/2013 02:00:00 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
11/21/2013 03:00:00 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
11/21/2013 04:00:00 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
11/21/2013 05:00:00 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
11/21/2013 06:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9
11/21/2013 07:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9
11/21/2013 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
11/21/2013 09:00:00 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
11/21/2013 10:00:00 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
11/21/2013 11:00:00 AM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0
11/21/2013 12:00:00 PM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0
11/21/2013 01:00:00 PM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0
11/21/2013 02:00:00 PM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0
11/21/2013 03:00:00 PM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0
11/21/2013 04:00:00 PM	0.0	0.0	21.0	Monitoring location	on demobilized at ap	pproximately 10:10	0.0	0.0	21.0	0.0	0.0	21.0
11/21/2013 05:00:00 PM	0.0	0.0	21.0		AM on 11/21/2013		0.0	0.0	21.0	0.0	0.0	21.0
11/21/2013 06:00:00 PM	0.0	0.0	21.0	Installation of OR	W-49 is complete;	thus, monitoring in	0.0	0.0	21.0	0.0	0.0	21.0
11/21/2013 07:00:00 PM	0.0	0.0	21.0	the exclusi	on zone is no longe	r necessary.	0.0	0.0	21.0	0.0	0.0	21.0
11/21/2013 08:00:00 PM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0
11/21/2013 09:00:00 PM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0
11/21/2013 10:00:00 PM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0
11/21/2013 11:00:00 PM	0.0	0.0	21.0	_			0.0	0.0	21.0	0.0	0.0	21.0
11/22/2013 12:00:00 AM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0

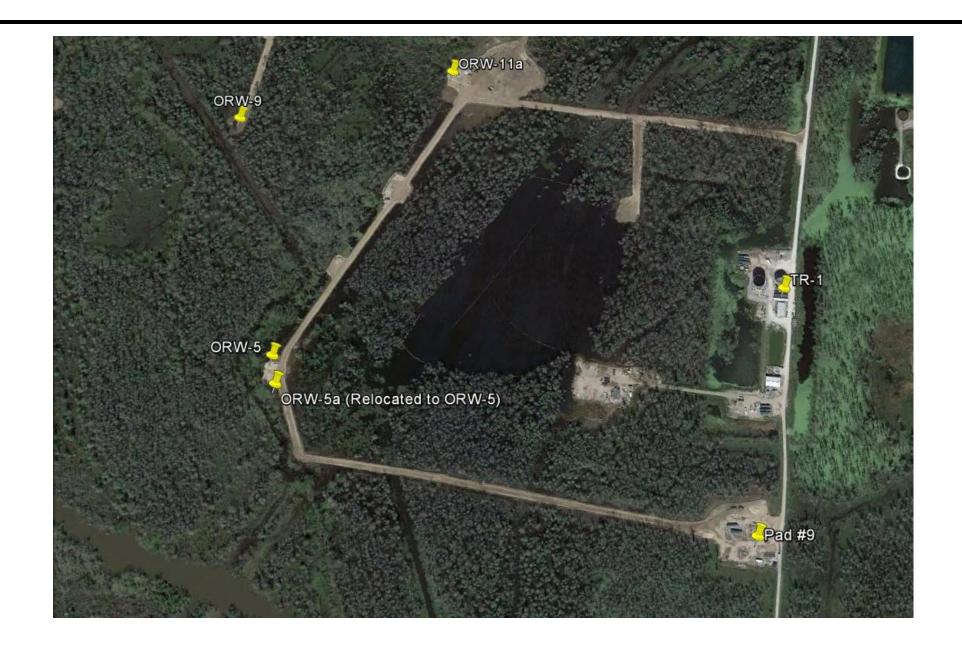
Notes:

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

		Observ	vation Relief	Well -5			Observat	ion Relief	Well -5			Observ	ation Relief	Well - 9			Observa	ation Relief	Well -11			S	outh of OG3.	A-1			On	site Trailers	-	
			ORW-5a					ORW-5					ORW-9					ORW-11a					Pad #9					TR-1		
		Non-				N	Non-					Non-					Non-					Non-					Non-			
		Methane				Me	ethane					Methane					Methane					Methane					Methane			
Date-Time *	CO (ppm)	VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm) VO	C(ppm) H	I2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	SO2 (ppm)	VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	VOC (ppm) H	H2S (ppm) I	LEL (%)	O2 (%)
11/21/2013 01:00:00 AN	M 0.0	0.0	0.0	0.0	21.3						0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.4	0.0	<1.0	0.0	0.0	20.9
11/21/2013 02:00:00 AN	0.0	0.0	0.0	0.0	21.3						0.0	<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	21.4	0.0	<1.0	0.0	0.0	20.9
11/21/2013 03:00:00 AN	0.0	0.0	0.0	0.0	21.3						0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.4	<1.0	<1.0	0.0	0.0	20.9
11/21/2013 04:00:00 AN	M 0.0	0.0	0.0	0.0	21.3						0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.5	0.0	<1.0	0.0	0.0	20.9
11/21/2013 05:00:00 AN	0.0	0.0	0.0	0.0	21.3						0.0	<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	21.4	0.0	<1.0	0.0	0.0	20.9
11/21/2013 06:00:00 AN		0.0	0.0	0.0	21.3	Monitoring at 0			oximately 01:	43 PM on	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.4	<1.0	<1.0	0.0	0.0	20.9
11/21/2013 07:00:00 AN	M 0.0	0.0	0.0	0.0	21.3		1	1/21/2013			0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.4	<1.0	<1.0	0.0	0.0	20.9
11/21/2013 08:00:00 AN		0.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	1.5	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9
11/21/2013 09:00:00 AN		0.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	1.8	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9
11/21/2013 10:00:00 AN		0.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	1.6	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9
11/21/2013 11:00:00 AN		0.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	1.1	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
11/21/2013 12:00:00 PM		0.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
11/21/2013 01:00:00 PM		0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/21/2013 02:00:00 PM		0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/21/2013 03:00:00 PM						0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/21/2013 04:00:00 PM						0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/21/2013 05:00:00 PM	_					0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
11/21/2013 06:00:00 PM	M Relocated to ORW-5; data collection at ORW-5a stopped at 0.0 0.0 <1.0 0.0 20.							0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	
11/21/2013 07:00:00 PM								20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9		
11/21/2013 08:00:00 PM	_	approximatel	y 02:40 PM	on 11/21/201	3	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/21/2013 09:00:00 PM						0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/21/2013 10:00:00 PM						0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/21/2013 11:00:00 PM	_					0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/22/2013 12:00:00 AN	А	0.						<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9

#### Motor

The monitoring location ORW-5a was relocated to ORW-5 in an effort to support new monitoring equipment being delivered early next week.





Sinkhole Monitor Locations November 21, 2013

#### 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 th	e Well Head	Observation Re	elief Well - 49 in the	Exclusion Zone	Observation Re	lief Well - 50 in the	Exclusion Zone	Observation Re	lief Well - 50 in the	Exclusion Zone				
		ORW-49-WH			ORW-49-S			ORW-50-S		ORW-50-S						
Date-Time *	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)				
11/21/2013 05:00:00 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				
11/21/2013 06:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9				
11/21/2013 07:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9				
11/21/2013 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				
11/21/2013 09:00:00 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				
11/21/2013 10:00:00 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				
11/21/2013 11:00:00 AM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0				
11/21/2013 12:00:00 PM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0				
11/21/2013 01:00:00 PM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0				
11/21/2013 02:00:00 PM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0				
11/21/2013 03:00:00 PM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0				
11/21/2013 04:00:00 PM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0				
11/21/2013 05:00:00 PM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0				
11/21/2013 06:00:00 PM	0.0	0.0	21.0	Monitorina locati	on demobilized at a	ammorrimotoly, 10,10	0.0	0.0	21.0	0.0	0.0	21.0				
11/21/2013 07:00:00 PM	0.0	0.0	21.0		AM on 11/21/2013		0.0	0.0	21.0	0.0	0.0	21.0				
11/21/2013 08:00:00 PM	0.0	0.0	21.0		RW-49 is complete;		0.0	0.0	21.0	0.0	0.0	21.0				
11/21/2013 09:00:00 PM	0.0	0.0	21.0		ion zone is no longe	,	0.0	0.0	21.0	0.0	0.0	21.0				
11/21/2013 10:00:00 PM	0.0	0.0	21.0	the exclusi	ion zone is no longe.	i necessary.	0.0	0.0	21.0	0.0	0.0	21.0				
11/21/2013 11:00:00 PM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0				
11/22/2013 12:00:00 AM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0				
11/22/2013 01:00:00 AM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0				
11/22/2013 02:00:00 AM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0				
11/22/2013 03:00:00 AM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0				
11/22/2013 04:00:00 AM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0				
11/22/2013 05:00:00 AM	0.0	0.0	21.0				0.0	0.0	21.0	0.0	0.0	21.0				

Notes:

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

		Observa	tion Relief V	Vell -5			Observ	ation Relief W	ell -5			Obser	vation Relief V	/ell - 9			Observa	ation Relief W	/ell -11			So	outh of OG3A	-1			(	Onsite Trailer	s	
			ORW-5a					ORW-5					ORW-9					ORW-11a					Pad #9					TR-1		
		Non-					Non-					Non-					Non-					Non-					Non-		l	
	1	Methane					Methane					Methane					Methane					Methane					Methane		l	
Date-Time *	CO (ppm) Vo	OC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	VOC (ppm)	H2S (ppm)	LEL (%) O2	(%)	CO (ppm)	VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	SO2 (ppm)	VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)
11/21/2013 05:00:00 AM	0.0	0.0	0.0	0.0	21.3						0.0	<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	21.4	0.0	<1.0	0.0	0.0	20.9
11/21/2013 06:00:00 AM	0.0	0.0	0.0	0.0	21.3						0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.4	<1.0	<1.0	0.0	0.0	20.9
11/21/2013 07:00:00 AM	0.0	0.0	0.0	0.0	21.3						0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.4	<1.0	<1.0	0.0	0.0	20.9
11/21/2013 08:00:00 AM	0.0	0.0	0.0	0.0	20.9	Monitorii			cimately 01:43 Pl	M on	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	1.5	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9
11/21/2013 09:00:00 AM	0.0	0.0	0.0	0.0	20.9			11/21/2013			0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	1.8	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9
11/21/2013 10:00:00 AM	0.0	0.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	1.6	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9
11/21/2013 11:00:00 AM	0.0	0.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	1.1	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
11/21/2013 12:00:00 PM	0.0	0.0	0.0	0.0	20.9						0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
11/21/2013 01:00:00 PM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/21/2013 02:00:00 PM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/21/2013 03:00:00 PM						0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/21/2013 04:00:00 PM						0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/21/2013 05:00:00 PM						0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
11/21/2013 06:00:00 PM						0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/21/2013 07:00:00 PM						0.0	0.0	<1.0		20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/21/2013 08:00:00 PM						0.0	0.0	<1.0	0.10	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/21/2013 09:00:00 PM	Relocated to	OPW-5: da	ta collection	at OPW-5a	etonned at	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/21/2013 10:00:00 PM			02:40 PM or			0.0	0.0	<1.0	0.10	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/21/2013 11:00:00 PM	"PI	proximinatory	02.1011110		,	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/22/2013 12:00:00 AM						0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/22/2013 01:00:00 AM	1					0.0	0.0	<1.0	0.10	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/22/2013 02:00:00 AM						0.0	0.0	<1.0		20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
11/22/2013 03:00:00 AM	<u>1</u> 1				0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	
11/22/2013 04:00:00 AM					0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	
11/22/2013 05:00:00 AM	1					0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9

#### Notes

The monitoring location ORW-5a was relocated to ORW-5 in an effort to support new monitoring equipment being delivered early next week.

# **RESPEC Consulting & Services**

Texas Brine, L.L.C.
Assumption Parish, Louisiana
Daily Field Report

Report By:	David Gnage				Date: 11/21/13				
Company:	RESPEC				Job #: 02241				
Pe	ersonnel	Com	pany	Job Title					
Time Onsite:	: Start Time	e: NA	End Time:	NA					
DAILY ACT	TIVITY:								
No Field Wor	k Conducted. RESP	EC was not on-site	e.						
Instrumenta No Work Cor	tion Program: nducted.								
Other Progra No Work Cor									
PROPOSED	SCHEDULE:								
	tion Program: rently Scheduled.								
Other Programmer Installation of	ams: f a passive vent well a	at bubble site #56	is scheduled for th	ne week of Decen	nber 2 <sup>nd</sup> .				
				Initia	ls: <u>DJG</u>				

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

November 21, 2013

## **Subsidence Survey:**

- No Work Done
- •

# Sinkhole Perimeter/Hydrographic Survey:

No Work Done

### **Support Sinkhole Cleanup**

No Work Done

### Misc. Survey Work

- Arrived @ 8:15 am
- Surveyed Containment Berm Settlement Plates
- Surveyed Temporary Benchmarks
- Departed @ 12:00 am