Texas Brine Company, LLC
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April 29, 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 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

TBC Oxy Grand Bayou Data Management-Environmental									
Contractor	Responsibilities	Collected By		Date Collected		Delivered to Lab	Results from Lab	Laboratory	Method	Date to Agencies
Sage	Stationary Air Monitoring	Steven Shaughnessy - 07:50 - 08:45, Pete Hyatt IV (Code Red) - 07:00 - 17:00,		4/26 - 4/28/2013		NA	NA	NA	AreaRAE Monitors	4/27 - 4/29/2013
	Residential Air Monitoring	Sage has been requested to suspend bimonthly residential air monitoring. Therefore, Sage will discontinue these activities.		NA		NA	NA	NA	NA	NA
	Gas Seep Sampling	No work performed		4/19 - 4/21/2013		NA	NA	NA	NA	NA
	Well Gas Sampling	No work performed		4/19 - 4/21/2013		Yes	Yes	NA	NA	NA
	Under Slab Gas Sampling	No work performed		4/19 - 4/21/2013		NA	NA	NA	NA	NA
	Indoor Air Monitoring	No work performed		4/19 - 4/21/2013		NA	NA	NA	NA	NA
Respec	Inclinometers/Tilt Meters	4/26 - 4/28/2013	Inspection of existing instrumentation, and area lay-out/ Mobilize to Site	Leo van Sambeek	NA	NA	NA	NA		NA
	InSAR Reflector Installations	4/26 - 4/28/2013	No work conducted	No work conducted	NA	NA	NA	NA		NA
	Subsidence Survey-Fenstermaker	4/26 - 4/28/2013	Site Recon.	Leo van Sambeek	NA	NA	NA	NA		NA
	Shallow Geophone Installation	4/26 - 4/28/2013	No work conducted	No work conducted	NA	NA	NA	NA		NA
	Deep Geophone Installation	4/26 - 4/28/2013	No work conducted	No work conducted	NA	NA	NA	NA		NA
	Amendment #3, Directive #2	4/26 - 4/28/2013	No work conducted	No work conducted	NA	NA	NA	NA		NA
	Expansion of geoprobe gas sampling locations	4/26 - 4/28/2013	Mobilize to Site	P. Smith	NA	NA	NA	NA		NA
Miller	Weekly Stability Survey	No Work Performed		4/25 - 4/28/2013		NA	NA	NA	NA	NA
	Misc. Survey Work	Herschel Sauce		4/25 - 4/28/2013		NA	NA	NA	NA	NA
	Sinkhole Hydro/Perimeter Survey	No Work Performed		4/25 - 4/28/2013		NA	NA	NA	NA	NA
Pisani	Surface Water	NA		NA		NA	NA	NA	NA	NA
	Industrial Well Water	NA		NA		NA	NA	NA	NA	NA
	MRAA Well Water	PMR		4/25/2013		4/26/2013	NA	GCAL	Chloride, Bromide and Sulfate (Inorganic Anions) – SW-846 9056A, Conductivity – SM 2510B, TDS – SM 2540C, Cations/metals – SW-846 6010B, Carbonate & Bicarbonate Alkalinity – SM 2320B, BTEX – SW-846 8260B, TPH Fractions – TX 1006/LA 1006, and Dissolved Gases - RSK-175	NA
	Geoprobe Wells	NA		NA		NA	NA	NA	NA	NA
	Sinkhole Profile	PMR		4/26/2013		4/26/2013	NA	NA	Chloride, Bromide and Sulfate (Inorganic Anions) – SW-846 9056A, Conductivity – SM 2510B, TDS – SM 2540C, Cations/metals – SW-846 6010B, Carbonate & Bicarbonate Alkalinity – SM 2320B, BTEX – SW-846 8260B, TPH Fractions – TX 1006/LA 1006, and Dissolved Gases - RSK-175, Stable isotope analysis	NA

Grand Bayou Well 3A		
Daily Operations at 3A	Summary of Today's events	
	Oxy 3A	
4/27 - 4/29/2013	7am 503.2	4/27/2013
	7am 484.69	4/28/2013
	7am 502.97	4/29/2013
	Relief Well #1	
4/27 - 4/29/2013	See ORW-01 Flare Spreadsheet	

Attachments

Daily Action Summary

April 26, 2013

Stationary Air Monitoring

- Steven Shaughnessy onsite from 07:50 – 08:45. Changed out the monitors between 08:06 and 08:29. Collected data from the monitoring database and forwarded to Jill Martin in the Baton Rouge office for processing.

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

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

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

	South-most Pipeline Site					Middle-most Pipeline Site					North-most Pipeline Site					On Drill Rig Boom					Onsite Trailers				
	ST-3					ST-2					ST-1					OG 3A-1					TR-1				
Date-Time *	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 (%)
04/26/2013 01:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/26/2013 02:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/26/2013 03:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/26/2013 04:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/26/2013 05:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/26/2013 06:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/26/2013 07:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/26/2013 08:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
04/26/2013 09:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.8
04/26/2013 10:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.6
04/26/2013 11:00:00 AM	0.0	0.0	<1.0	0.0	21.0	0.0	0.0	0.0	0.0	21.3	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
04/26/2013 12:00:00 PM	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	0.0	0.0	21.3	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
04/26/2013 01:00:00 PM	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	0.0	0.0	21.4	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
04/26/2013 02:00:00 PM	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	0.0	0.0	21.4	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
04/26/2013 03:00:00 PM	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	0.0	0.0	21.3	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
04/26/2013 04:00:00 PM	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	0.0	0.0	21.3	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
04/26/2013 05:00:00 PM	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	0.0	0.0	21.4	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
04/26/2013 06:00:00 PM	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	0.0	0.0	21.4	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
04/26/2013 07:00:00 PM	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	0.0	0.0	21.4	<1.0	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
04/26/2013 08:00:00 PM	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	0.0	0.0	21.3	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
04/26/2013 09:00:00 PM	0.0	0.0	<1.0	0.0	21.2	0.0	<1.0	0.0	0.0	21.3	<1.0	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
04/26/2013 10:00:00 PM	0.0	0.0	<1.0	0.0	21.0	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
04/26/2013 11:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
04/27/2013 12:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9

Notes:

Texas Brine - Belle Rose, Louisiana
Hourly Air Monitoring Data

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

	South-most Pipeline Site					Middle-most Pipeline Site					North-most Pipeline Site					On Drill Rig Boom					Onsite Trailers				
	ST-3					ST-2					ST-1					OG 3A-1					TR-1				
Date-Time *	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 (%)
04/26/2013 05:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/26/2013 06:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/26/2013 07:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/26/2013 08:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
04/26/2013 09:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.8
04/26/2013 10:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.6
04/26/2013 11:00:00 AM	0.0	0.0	<1.0	0.0	21.0	0.0	0.0	0.0	0.0	21.3	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
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04/26/2013 08:00:00 PM	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	0.0	0.0	21.3	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
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04/26/2013 10:00:00 PM	0.0	0.0	<1.0	0.0	21.0	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
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04/27/2013 12:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
04/27/2013 01:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/27/2013 02:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9
04/27/2013 03:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/27/2013 04:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	21.0	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/27/2013 05:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9

Notes:

Daily Action Summary

April 27, 2013

Stationary Air Monitoring

- Bijeet Mukherjee onsite from 08:04 – 09:15. Changed out the monitors between 08:32 and 09:02. Collected data from the monitoring database and forwarded to Jill Martin in the Baton Rouge office for processing.

- Pete Hyatt IV of Code Red (monitor sub-contractor) onsite from 07:00 to 11:00. Assisted in battery change outs and maintenance of the monitoring equipment.

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

- Isotopic analytical results for the well gas sample collected on March 4, 2013 from OG-1 were previously reported on April 13, 2013. However, due to an error in laboratory's analytical procedure, incorrect deuterium isotope data was reported. This has been corrected, and the revised isotopic analytical results are attached.

Under Slab Gas Sampling

- Not Scheduled

Air Indoor Monitoring

- Not Scheduled

Texas Brine - Belle Rose, Louisiana
Hourly Air Monitoring Data

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

	South-most Pipeline Site					Middle-most Pipeline Site					North-most Pipeline Site					On Drill Rig Boom					Onsite Trailers				
	ST-3					ST-2					ST-1					OG 3A-1					TR-1				
Date-Time *	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 (%)
04/27/2013 01:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/27/2013 02:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9
04/27/2013 03:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/27/2013 04:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	21.0	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/27/2013 05:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/27/2013 06:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/27/2013 07:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.1	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/27/2013 08:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/27/2013 09:00:00 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	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.2
04/27/2013 10:00:00 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	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.2
04/27/2013 11:00:00 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	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.3
04/27/2013 12:00:00 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	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.3
04/27/2013 01:00:00 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	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.4
04/27/2013 02:00:00 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	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.4
04/27/2013 03:00:00 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	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.4
04/27/2013 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	21.3	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.4
04/27/2013 05:00:00 PM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.4
04/27/2013 06:00:00 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	0.0	0.0	21.3	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.3
04/27/2013 07:00:00 PM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.4
04/27/2013 08:00:00 PM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.3
04/27/2013 09:00:00 PM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.1	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.3
04/27/2013 10:00:00 PM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.1	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.3
04/27/2013 11:00:00 PM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.1	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.3
04/28/2013 12:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.1	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	21.2

Notes:

Texas Brine - Belle Rose, Louisiana
Isotopic Analytical Results
Well Gas Sampling

Lab #340390
Sample Name: TB OG-1
Date Sampled: 03/04/2013

Component	mol %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	ND			
Hydrogen Sulfide	NA			
Helium	0.0037			
Hydrogen	0.0179			
Argon	0.0330			
Oxygen	0.27			
Nitrogen	2.78			
Carbon Dioxide	0.33			
Methane	91.53	-39.92	-153.1	
Ethane	3.55	-26.23		
Ethylene	ND			
Propane	0.883	-23.57		
Propylene	ND			
Iso-butane	0.214	-23.99		
N-butane	0.191	-23.45		
Iso-pentane	0.0783			
N-pentane	0.0416			
Hexanes +	0.0786			
BTU/cf	1036			
Specific grav	0.606			

Well Gas Sampling Location

March 4, 2013

SAGE
ENVIRONMENTAL CONSULTING

Texas Brine - Belle Rose, Louisiana
Hourly Air Monitoring Data

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

	South-most Pipeline Site					Middle-most Pipeline Site					North-most Pipeline Site					On Drill Rig Boom					Onsite Trailers				
	ST-3					ST-2					ST-1					OG 3A-1					TR-1				
Date-Time *	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 (%)
04/27/2013 05:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/27/2013 06:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/27/2013 07:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.1	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/27/2013 08:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/27/2013 09:00:00 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	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.2
04/27/2013 10:00:00 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	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.2
04/27/2013 11:00:00 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	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.3
04/27/2013 12:00:00 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	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.3
04/27/2013 01:00:00 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	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.4
04/27/2013 02:00:00 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	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.4
04/27/2013 03:00:00 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	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.4
04/27/2013 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	21.3	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.4
04/27/2013 05:00:00 PM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.4
04/27/2013 06:00:00 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	0.0	0.0	21.3	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.3
04/27/2013 07:00:00 PM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.4
04/27/2013 08:00:00 PM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.3
04/27/2013 09:00:00 PM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.1	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.3
04/27/2013 10:00:00 PM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.1	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.3
04/27/2013 11:00:00 PM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.1	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.3
04/28/2013 12:00:00 AM	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.1	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	21.2
04/28/2013 01:00:00 AM	0.0	0.0	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	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.2
04/28/2013 02:00:00 AM	0.0	0.0	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	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.2
04/28/2013 03:00:00 AM	0.0	0.0	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	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.2
04/28/2013 04:00:00 AM	0.0	0.0	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	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.2
04/28/2013 05:00:00 AM	0.0	0.0	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	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2

Notes:

Daily Action Summary

April 28, 2013

Stationary Air Monitoring

- Bijeet Mukherjee onsite from 07:36 – 08:45. Changed out the monitors between 07:50 and 08:23. Collected data from the monitoring database and forwarded to Steven Shaughnessy in the Baton Rouge office for processing.

- Pete Hyatt IV of Code Red (monitor sub-contractor) onsite from 07:00 to 11:00. Assisted in battery change outs and maintenance of the monitoring equipment.

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

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

	South-most Pipeline Site					Middle-most Pipeline Site					North-most Pipeline Site					On Drill Rig Boom					Onsite Trailers				
	ST-3					ST-2					ST-1					OG 3A-1					TR-1				
Date-Time *	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 (%)
04/28/2013 01:00:00 AM	0.0	0.0	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	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.2
04/28/2013 02:00:00 AM	0.0	0.0	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	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.2
04/28/2013 03:00:00 AM	0.0	0.0	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	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.2
04/28/2013 04:00:00 AM	0.0	0.0	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	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.2
04/28/2013 05:00:00 AM	0.0	0.0	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	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2
04/28/2013 06:00:00 AM	0.0	0.0	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	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.2
04/28/2013 07:00:00 AM	0.0	0.0	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	0.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	21.2
04/28/2013 08:00:00 AM	<1.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	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
04/28/2013 09:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	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
04/28/2013 10:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	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
04/28/2013 11:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.3	<1.0	<1.0	<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
04/28/2013 12:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.4	<1.0	<1.0	<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
04/28/2013 01:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.4	<1.0	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
04/28/2013 02:00:00 PM	<1.0	0.0	<1.0	0.0	21.0	0.0	<1.0	0.0	0.0	21.3	<1.0	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	21.1
04/28/2013 03:00:00 PM	<1.0	0.0	<1.0	0.0	21.0	0.0	<1.0	0.0	0.0	21.3	<1.0	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	21.0
04/28/2013 04:00:00 PM	<1.0	<1.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	<1.0	<1.0	0.0	21.0	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.0
04/28/2013 05:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9
04/28/2013 06:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.1	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9
04/28/2013 07:00:00 PM	<1.0	<1.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.0	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
04/28/2013 08:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9
04/28/2013 09:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	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
04/28/2013 10:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	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
04/28/2013 11:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
04/29/2013 12:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	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

Notes:

Texas Brine - Belle Rose, Louisiana
Hourly Air Monitoring Data

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

	South-most Pipeline Site					Middle-most Pipeline Site					North-most Pipeline Site					On Drill Rig Boom					Onsite Trailers				
	ST-3					ST-2					ST-1					OG 3A-1					TR-1				
Date-Time *	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 (%)
04/28/2013 05:00:00 AM	0.0	0.0	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	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2
04/28/2013 06:00:00 AM	0.0	0.0	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	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.2
04/28/2013 07:00:00 AM	0.0	0.0	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	0.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	21.2
04/28/2013 08:00:00 AM	<1.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	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
04/28/2013 09:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	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
04/28/2013 10:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	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
04/28/2013 11:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.3	<1.0	<1.0	<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
04/28/2013 12:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.4	<1.0	<1.0	<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
04/28/2013 01:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.4	<1.0	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
04/28/2013 02:00:00 PM	<1.0	0.0	<1.0	0.0	21.0	0.0	<1.0	0.0	0.0	21.3	<1.0	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	21.1
04/28/2013 03:00:00 PM	<1.0	0.0	<1.0	0.0	21.0	0.0	<1.0	0.0	0.0	21.3	<1.0	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	21.0
04/28/2013 04:00:00 PM	<1.0	<1.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	<1.0	<1.0	0.0	21.0	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.0
04/28/2013 05:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.2	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9
04/28/2013 06:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	21.1	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9
04/28/2013 07:00:00 PM	<1.0	<1.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.0	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
04/28/2013 08:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9
04/28/2013 09:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	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
04/28/2013 10:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	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
04/28/2013 11:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
04/29/2013 12:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	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
04/29/2013 01:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
04/29/2013 02:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	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
04/29/2013 03:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	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
04/29/2013 04:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
04/29/2013 05:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	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

Notes:

RESPEC Consulting & Services

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: David Gnage Date: 4-26-13

Company: RESPEC Work Order #: ()

Personnel	Company	Job Title

Time Onsite: Start Time: NA End Time: NA

Equipment Onsite:

Daily Activity: Dr. Leo Van Sambeek was on-site to 1) get a better feel for area where subsidence is being measured by Fenstermaker and LADOT, 2) inspect RESPEC instrumentation to provide "senior" advise, and 3) to gain more understanding of the site to better able answering technical questions and inquiries posed by TBC.

Proposed Schedule: RESPEC will be on-site Monday April 29th to begin installation of Geoprobe wells near the ORW wells.

RESEPC will also be on-site April 29th to begin preparations for expansion of the subsidence earlier warning systems.

Initials: DJG

RESPEC Consulting & Services

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: David Gnage Date: 4-27-13

Company: RESPEC Work Order #: ()

Personnel	Company	Job Title

Time Onsite: Start Time: NA End Time: NA

Equipment Onsite:

Daily Activity: No Field Work Conducted. RESPEC not on-site.

Proposed Schedule: RESPEC will be on-site Monday April 29th to begin installation of Geoprobe wells near the ORW wells.

RESEPC will also be on-site April 29th to begin preparations for expansion of the subsidence earlier warning systems.

Initials: DJG

RESPEC Consulting & Services

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: David Gnage

Date: 4-28-13

Company: RESPEC

Work Order #: ()

Personnel	Company	Job Title

Time Onsite: Start Time: NA End Time: NA

Equipment Onsite:

Daily Activity: No Field Work Conducted. RESPEC not on-site.

Proposed Schedule: RESPEC mobilized to the site to begin installation of Geoprobe wells near the ORW wells.

RESEPC mobilized to the site to begin preparations for expansion of the subsidence earlier warning systems.

Initials: DJG

ME&A Daily Action Summary

April 25, 2013

Subsidence Survey:

- No Work Done

Sinkhole Perimeter/Hydrographic Survey:

- No Work Done

Support Sinkhole Cleanup

- No Work Done

Misc. Survey Work

- Arrived on site @ 8:30 am
- Located property markers within subdivision near Bayou Corne.
- Staked out offsets for centerline of containment berm – Rig Road to ORW#9 & ORW#9 to ORW#5.
- Departed @ 5:00 pm

ME&A Daily Action Summary

April 26, 2013

Subsidence Survey:

- No Work Done

Sinkhole Perimeter/Hydrographic Survey:

- No Work Done

Support Sinkhole Cleanup

- No Work Done

Misc. Survey Work

- Arrived on site @ 8:30 am
- Staked out offsets for centerline of containment berm – ORW#9 to ORW#5.
- Departed @ 11:30 am

ME&A Daily Action Summary

April 27, 2013

Subsidence Survey:

- No Work Done

Sinkhole Perimeter/Hydrographic Survey:

- No Work Done

Support Sinkhole Cleanup

- No Work Done

Misc. Survey Work

- No Work Done

ME&A Daily Action Summary

April 28, 2013

Subsidence Survey:

- No Work Done

Sinkhole Perimeter/Hydrographic Survey:

- No Work Done

Support Sinkhole Cleanup

- No Work Done

Misc. Survey Work

- No Work Done

Michael Pisani & Associates

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

Report By: Patrick Ritchie
Company: MP&A

Date: 4/24/2013
Work Order # 80-05

Health and Safety Meeting ☐ YES ☐ NO

Weather: 70F Overcast, raining, severe weather warnings

Personnel	Company	Job Title
Patrick Ritchie	MP&A	Environmental Scientist

Site Activities: Start Time 7:45 End Time 9:00

Equipment On-site:

Daily Activity:
Work postponed due to severe weather and rain
CODE 3 -No work allowed on sinkhole

Estimated time of completion:
On-going

Proposed schedule:
Conduct in-situ monitoring surface water transect and industrial water well locations (4/26/2013)
Measure water level for the industrial water wells and MRAA wells (4/26/2013)
Measure pressure and water level at TBC Geoprobe locations (4/29/2013)
Collect laboratory samples from the MRAA wells (4/24-25/2-13)

On-going

Initials: PMR

Michael Pisani & Associates

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

Report By: Patrick Ritchie
Company: MP&A

Date: 4/25/2013
Work Order # 80-05

Health and Safety Meeting ☐ YES ☐ NO

Weather: 80 F Partly cloudy to sunny

Personnel	Company	Job Title
Patrick Ritchie	MP&A	Environmental Scientist

Site Activities: Start Time 7:45 End Time 17:30

Equipment On-site:

Daily Activity:
Collect laboratory samples from the MRAA wells

Estimated time of completion:
On-going

Proposed schedule:
Conduct in-situ monitoring surface water transect and industrial water well locations
Measure water level for the industrial water wells and MRAA wells
Measure pressure and water level at TBC Geoprobe locations
Collect laboratory samples from the MRAA wells

On-going

Initials: PMR

Michael Pisani & Associates

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

Report By: Patrick Ritchie
Company: MP&A

Date: 4/26/2013
Work Order # 80-05

Health and Safety Meeting ☐ YES ☐ NO

Weather: 80 F Partly cloudy to sunny

Personnel	Company	Job Title
Patrick Ritchie	MP&A	Environmental Scientist
Anna Fix	MP&A	Geologist
Joel Sanders	MP&A	Environmental Scientist
Ed Graham	MP&A	Environmental Scientist

Site Activities: Start Time 7:45 End Time 14:00

Equipment On-site:
Airboat
Airboat with winch set up

Daily Activity:
Collect laboratory samples from the MRAA wells
Collect sinkhole profile laboratory samples
Conduct in-situ monitoring of industrial water well locations
Measure water level of the industrial water wells and MRAA wells

Estimated time of completion:
On-going

Proposed schedule:
Conduct in-situ monitoring surface water transect and industrial water well locations
Measure water level of the industrial water wells and MRAA wells
Measure pressure and water level at TBC Geoprobe locations
Collect laboratory samples from the MRAA wells

On-going

Initials: PMR

Michael Pisani & Associates

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

Report By: Patrick Ritchie
Company: MP&A

Date: 4/28/2013
Work Order # 80-05

Health and Safety Meeting ☐ YES ☐ NO

Weather: _____

Personnel	Company	Job Title

Site Activities: Start Time _____ End Time _____

Equipment On-site:

Daily Activity:
No Field Activities

Estimated time of completion:
On-going

Proposed schedule:
Conduct in-situ monitoring surface water transect and industrial water well locations
Measure water level for the industrial water wells and MRAA wells
Measure pressure and water level at TBC Geoprobe locations
Collect laboratory samples from the MRAA wells
Collect laboratory samples from surface water transect locations

On-going

Initials: PMR

Michael Pisani & Associates

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

Report By: Patrick Ritchie
Company: MP&A

Date: 4/29/2013
Work Order # 80-05

Health and Safety Meeting ☐ YES ☐ NO

Weather: _____

Personnel	Company	Job Title

Site Activities: Start Time _____ End Time _____

Equipment On-site:

Daily Activity:
No Field Activities

Estimated time of completion:
On-going

Proposed schedule:
Conduct in-situ monitoring surface water transect and industrial water well locations
Measure water level for the industrial water wells and MRAA wells
Measure pressure and water level at TBC Geoprobe locations
Collect laboratory samples from the MRAA wells
Collect laboratory samples from surface water transect locations

On-going

Initials: PMR