



Texas Brine Company, LLC

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Belle Rose, LA 70341
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May 20, 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	Steve Shaughnessy - 08:00 - 09:15, Pete Hyatt IV (Code Red) - 07:00 - 17:00; Steve Shaughnessy - 08:10 - 09:30, Pete Hyatt IV (Code Red) - 07:00 - 11:00; Steve Shaughnessy - 08:05 - 09:15, Pete		5/17 - 5/119/2013		NA	NA	NA	AreaRAE Monitors	5/18 - 5/20/2013
	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		5/17 - 5/119/2013		NA	NA	NA	NA	NA
	Well Gas Sampling	No work performed		5/17 - 5/119/2013		Yes	Yes	NA	NA	NA
	Under Slab Gas Sampling	No work performed		5/17 - 5/119/2013		NA	NA	NA	NA	NA
	Indoor Air Monitoring	No work performed		5/17 - 5/119/2013		NA	NA	NA	NA	NA
Respec	Inclinometers/Tilt Meters	5/17 - 5/19/2013	No samples collected	NA	NA	NA	NA	NA	NA	NA
	InSAR Reflector Installations	5/17 - 5/19/2013	No samples collected	NA	NA	NA	NA	NA	NA	NA
	Subsidence Survey-Fenstermaker	5/17 - 5/19/2013	No samples collected	NA	NA	NA	NA	NA	NA	NA
	Shallow Geophone Installation	5/17 - 5/19/2013	No samples collected	NA	NA	NA	NA	NA	NA	NA
	Deep Geophone Installation	5/17 - 5/19/2013	No samples collected	NA	NA	NA	NA	NA	NA	NA
	Amendment #3, Directive #2	5/17 - 5/19/2013	No samples collected	NA	NA	NA	NA	NA	NA	NA
	Expansion of geoprobe gas sampling locations	5/17 - 5/19/2013	No samples collected	NA	NA	NA	NA	NA	NA	NA
Miller	Weekly Stability Survey	No Work Performed		5/17 - 5/19/2013		NA	NA	NA	NA	NA
	Misc. Survey Work	Kevin Pichoff		May 17, 2013		NA	NA	NA	NA	NA
	Sinkhole Hydro/Perimeter Survey	No Work Performed		5/17 - 5/19/2013		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	NA		NA		NA	NA	NA	NA	NA
	Geoprobe Wells	NA		NA		NA	NA	NA	NA	NA
	Sinkhole Profile	NA		NA		NA	NA	NA	NA	NA
Grand Bayou Well 3A										
Daily Operations at 3A		Summary of Today's events								
5/18 - 5/20/2013		Oxy 3A								
	7am	521.95		5/18/2013						
	7am	524.06		5/19/2013						
	7am	527.11		5/20/2013						
5/18 - 5/20/2013		Relief Well #1								
		See ORW-01 Flare Spreadsheet								

Attachments

Daily Action Summary

May 17, 2013

Stationary Air Monitoring

- Steve Shaughnessy onsite from 08:00 – 09:15. Changed out the monitors between 08:35 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 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)

Date-Time *	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				
	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 (%)
05/17/2013 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	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/17/2013 02:00:00 AM	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	<1.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/17/2013 03:00:00 AM	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	<1.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/17/2013 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	<1.0	<1.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/17/2013 05:00:00 AM	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	<1.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/17/2013 06:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	21.0	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/17/2013 07:00:00 AM	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	<1.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/17/2013 08:00:00 AM	<1.0	<1.0	<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	<1.0	<1.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
05/17/2013 09:00:00 AM	<1.0	<1.0	<1.0	0.0	21.0	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	20.9
05/17/2013 10:00:00 AM	<1.0	<1.0	<1.0	0.0	21.2	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
05/17/2013 11:00:00 AM	<1.0	<1.0	<1.0	0.0	21.2	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	20.9	0.0	0.0	<1.0	0.0	20.9
05/17/2013 12:00:00 PM	<1.0	<1.0	<1.0	0.0	21.3	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	20.9	0.0	0.0	<1.0	0.0	20.9
05/17/2013 01:00:00 PM	<1.0	<1.0	<1.0	0.0	21.3	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	20.9	0.0	0.0	<1.0	0.0	20.9
05/17/2013 02:00:00 PM	<1.0	<1.0	<1.0	0.0	21.3	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	20.9	0.0	0.0	<1.0	0.0	20.9
05/17/2013 03:00:00 PM	<1.0	<1.0	<1.0	0.0	21.3	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	<1.0	0.0	20.9
05/17/2013 04:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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
05/17/2013 05:00:00 PM	<1.0	<1.0	<1.0	0.0	21.3	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	<1.0	0.0	20.9
05/17/2013 06:00:00 PM	<1.0	<1.0	<1.0	0.0	21.3	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	<1.0	0.0	20.9
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05/17/2013 10:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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
05/17/2013 11:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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
05/18/2013 12:00:00 AM	<1.0	<1.0	<1.0	0.0	21.2	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:

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)

Date-Time *	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				
	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 (%)
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05/17/2013 10:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	20.9
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05/18/2013 12:00:00 AM	<1.0	<1.0	<1.0	0.0	21.2	0.0	0.0	<1.0	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
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05/18/2013 02:00:00 AM	<1.0	<1.0	<1.0	0.0	21.1	0.0	0.0	<1.0	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
05/18/2013 03:00:00 AM	<1.0	<1.0	<1.0	0.0	21.2	0.0	0.0	<1.0	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
05/18/2013 04:00:00 AM	<1.0	<1.0	<1.0	0.0	21.2	0.0	0.0	<1.0	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
05/18/2013 05:00:00 AM	<1.0	<1.0	<1.0	0.0	21.2	0.0	0.0	<1.0	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

Notes:

Daily Action Summary

May 18, 2013

Stationary Air Monitoring

- Steve Shaughnessy onsite from 08:10 – 09:30. Changed out the monitors between 08:49 and 09:15. 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

- 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)

Date-Time *	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				
	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 (%)
05/18/2013 01:00:00 AM	<1.0	<1.0	<1.0	0.0	21.1	0.0	0.0	<1.0	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
05/18/2013 02:00:00 AM	<1.0	<1.0	<1.0	0.0	21.1	0.0	0.0	<1.0	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
05/18/2013 03:00:00 AM	<1.0	<1.0	<1.0	0.0	21.2	0.0	0.0	<1.0	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
05/18/2013 04:00:00 AM	<1.0	<1.0	<1.0	0.0	21.2	0.0	0.0	<1.0	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
05/18/2013 05:00:00 AM	<1.0	<1.0	<1.0	0.0	21.2	0.0	0.0	<1.0	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
05/18/2013 06:00:00 AM	<1.0	<1.0	<1.0	0.0	21.2	0.0	0.0	<1.0	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
05/18/2013 07:00:00 AM	<1.0	<1.0	<1.0	0.0	21.1	0.0	0.0	<1.0	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
05/18/2013 08:00:00 AM	<1.0	<1.0	<1.0	0.0	21.1	<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	0.0	0.0	<1.0	0.0	20.9
05/18/2013 09:00:00 AM	<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	0.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/18/2013 10:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.7	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.8	0.0	0.0	<1.0	0.0	20.9
05/18/2013 11:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.7	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 12:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.8	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
05/18/2013 01:00:00 PM	<1.0	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	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 02:00:00 PM	<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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 03:00:00 PM	<1.0	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	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 04:00:00 PM	<1.0	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	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 05:00:00 PM	<1.0	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	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 06:00:00 PM	<1.0	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
05/18/2013 07:00:00 PM	<1.0	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	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 08:00:00 PM	<1.0	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	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 09:00:00 PM	<1.0	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	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 10:00:00 PM	<1.0	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	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 11:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.0	0.0	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
05/19/2013 12:00:00 AM	<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	<1.0	<1.0	0.0	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)

Date-Time *	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				
	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 (%)
05/18/2013 05:00:00 AM	<1.0	<1.0	<1.0	0.0	21.2	0.0	0.0	<1.0	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
05/18/2013 06:00:00 AM	<1.0	<1.0	<1.0	0.0	21.2	0.0	0.0	<1.0	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
05/18/2013 07:00:00 AM	<1.0	<1.0	<1.0	0.0	21.1	0.0	0.0	<1.0	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
05/18/2013 08:00:00 AM	<1.0	<1.0	<1.0	0.0	21.1	<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	0.0	0.0	<1.0	0.0	20.9
05/18/2013 09:00:00 AM	<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	0.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/18/2013 10:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.7	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.8	0.0	0.0	<1.0	0.0	20.9
05/18/2013 11:00:00 AM	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.7	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 12:00:00 PM	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.8	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
05/18/2013 01:00:00 PM	<1.0	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	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 02:00:00 PM	<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	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 03:00:00 PM	<1.0	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	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 04:00:00 PM	<1.0	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	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 05:00:00 PM	<1.0	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	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 06:00:00 PM	<1.0	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
05/18/2013 07:00:00 PM	<1.0	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	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 08:00:00 PM	<1.0	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	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 09:00:00 PM	<1.0	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	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 10:00:00 PM	<1.0	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	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/18/2013 11:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.0	0.0	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
05/19/2013 12:00:00 AM	<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	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/19/2013 01:00:00 AM	<1.0	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	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/19/2013 02:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/19/2013 03:00:00 AM	<1.0	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	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/19/2013 04:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	Downtime due to battery malfunction.				
05/19/2013 05:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.0	0.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9					

Notes:
RTU-5 experienced a battery malfunction at approximately 02:58 AM on 05/18/2013 causing downtime at TR-1.

Daily Action Summary

May 19, 2013

Stationary Air Monitoring

- Steve Shaughnessy onsite from 08:05 – 09:15. Changed out the monitors between 08:42 and 08:58. 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

- 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)

Date-Time *	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				
	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 (%)
05/19/2013 01:00:00 AM	<1.0	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	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/19/2013 02:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9
05/19/2013 03:00:00 AM	<1.0	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	<1.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/19/2013 04:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	0.0	<1.0	<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
05/19/2013 05:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.0	0.0	<1.0	<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
05/19/2013 06:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	0.0	<1.0	<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
05/19/2013 07:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	0.0	<1.0	<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
05/19/2013 08:00:00 AM	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.8	0.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/19/2013 09:00:00 AM	<1.0	<1.0	<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	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/19/2013 10:00:00 AM	<1.0	<1.0	<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	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/19/2013 11:00:00 AM	<1.0	<1.0	<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	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9
05/19/2013 12:00:00 PM	<1.0	<1.0	<1.0	0.0	21.1	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	20.9	<1.0	0.0	<1.0	0.0	20.9
05/19/2013 01:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	20.9	<1.0	0.0	<1.0	0.0	20.9
05/19/2013 02:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	20.9	<1.0	0.0	<1.0	0.0	20.9
05/19/2013 03:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	20.9	<1.0	0.0	<1.0	0.0	20.9
05/19/2013 04:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	20.9	<1.0	0.0	<1.0	0.0	20.9
05/19/2013 05:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	20.9	<1.0	0.0	<1.0	0.0	20.9
05/19/2013 06:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	20.9	<1.0	0.0	<1.0	0.0	20.9
05/19/2013 07:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	20.9
05/19/2013 08:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	0.0	0.0	20.9
05/19/2013 09:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	0.0	0.0	20.9
05/19/2013 10:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	0.0	0.0	20.9
05/19/2013 11:00:00 PM	<1.0	<1.0	<1.0	0.0	21.1	0.0	<1.0	<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
05/20/2013 12:00:00 AM	<1.0	<1.0	<1.0	0.0	21.1	0.0	<1.0	<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	0.0	0.0	20.9

Downtime due to battery malfunction.

Notes:
RTU-5 experienced a battery malfunction at approximately 02:58 AM on 05/19/2013 causing downtime at TR-1. RTU-6 replaced RTU-5 at 08:59 AM on 05/19/2013, and normal data collection resumed.

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)

Date-Time *	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								
	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 (%)				
05/19/2013 05:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.0	0.0	<1.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	Downtime due to battery malfunction.								
05/19/2013 06:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	20.9	0.0	<1.0	<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
05/19/2013 07:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	20.9	0.0	<1.0	<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
05/19/2013 08:00:00 AM	<1.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.8	0.0	<1.0	<1.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9						<1.0	0.0	<1.0	0.0
05/19/2013 09:00:00 AM	<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	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9				
05/19/2013 10:00:00 AM	<1.0	<1.0	<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	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9				
05/19/2013 11:00:00 AM	<1.0	<1.0	<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	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9				
05/19/2013 12:00:00 PM	<1.0	<1.0	<1.0	0.0	21.1	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	20.9	<1.0	0.0	<1.0	0.0	20.9				
05/19/2013 01:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	20.9	<1.0	0.0	<1.0	0.0	20.9				
05/19/2013 02:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	20.9	<1.0	0.0	<1.0	0.0	20.9				
05/19/2013 03:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	20.9	<1.0	0.0	<1.0	0.0	20.9				
05/19/2013 04:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	20.9	<1.0	0.0	<1.0	0.0	20.9				
05/19/2013 05:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	20.9	<1.0	0.0	<1.0	0.0	20.9				
05/19/2013 06:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	20.9	<1.0	0.0	<1.0	0.0	20.9				
05/19/2013 07:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	20.9	<1.0	0.0	<1.0	0.0	20.9				
05/19/2013 08:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9				
05/19/2013 09:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	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	20.9	<1.0	0.0	0.0	0.0	20.9				
05/19/2013 10:00:00 PM	<1.0	<1.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9				
05/19/2013 11:00:00 PM	<1.0	<1.0	<1.0	0.0	21.1	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9				
05/20/2013 12:00:00 AM	<1.0	<1.0	<1.0	0.0	21.1	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9				
05/20/2013 01:00:00 AM	<1.0	<1.0	<1.0	0.0	21.1	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9				
05/20/2013 02:00:00 AM	<1.0	<1.0	<1.0	0.0	21.1	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9				
05/20/2013 03:00:00 AM	<1.0	<1.0	<1.0	0.0	21.1	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9				
05/20/2013 04:00:00 AM	<1.0	<1.0	<1.0	0.0	21.1	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9				
05/20/2013 05:00:00 AM	<1.0	<1.0	<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	<1.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9				

Notes:
RTU-5 experienced a battery malfunction at approximately 02:58 AM on 05/19/2013 causing downtime at TR-1. RTU-6 replaced RTU-5 at 08:59 AM on 05/19/2013, and normal data collection resumed.

RESPEC Consulting & Services

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

Report By: Tyler French

Date: 05/17/13

Company: RESPEC

Work Order #: ()

Personnel	Company	Job Title
Tyler French	RESPEC	Field Engineer

Time Onsite: Start Time: 7:30 End Time: 3:30

(Note: on-site time only reflects time on-site; it does not reflect time taken for off-site activities)

Equipment Onsite:

Daily Activity:

7:30 meeting. Precut and drill pipe and supports. Air boat safety meeting. Pounded and fabricated 2" steel pipes to complete corner post structures at Site 53, 21, and 22. Finished bolting and pounding structure at site 55. Pounded post support for water level transducer at sight 40. Revamped artificial reflector sites.

Proposed Schedule: Finalize sites west of the sinkhole. Measure depths, precut pipes, and pre drill holes for remaining sites. Pound single pipes inside berm at Sites 44, 39, 50, 57, and 58. Install 2" tiltmeter pipes and grout inside 4" PVC.

Initials: TPF

RESPEC Consulting & Services

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: Tyler French

Date: 05/18/13

Company: RESPEC

Work Order #: ()

Personnel	Company	Job Title
Peter Smith, CPG	RESPEC	Geologist
Tyler French	RESPEC	Field Engineer
Nick Marnach	RESPEC	Field Engineer Technician

Time Onsite: Start Time: 7:00 AM End Time: 7:30 PM

(Note: on-site time only reflects time on-site; it does not reflect time taken for off-site activities)

Equipment Onsite:

Daily Activity:

7:30 contractor meeting. Safety training for Nick. Preparation for gas sampling program, including site access, cost estimate and work plan. Air boat safety meeting. Measure depth of sites on the west side of the sink hole and within the berm. G-1 borehole spud; observe drilling by Nabors Completion and Services. Fabricate post insert for compressed air post pounder. Repair water swivel on G-1. Train rig hand to collect samples every 10 ft.

Proposed Schedule: Precut pipes and pre drill holes for remaining sites while waiting for post pounder insert. Summarize remaining sites including materials needed. Collect grab samples every 10 ft. in overburden and cap rock from shale shaker at G-1. Pound single pipes inside berm at Sites 44, 39, 50, 57, and 58. Install 2" tiltmeter pipes and grout inside 4" PVC.

Initials: TPF

RESPEC Consulting & Services

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: Tyler French

Date: 05/19/13

Company: RESPEC

Work Order #: ()

Personnel	Company	Job Title
Peter Smith, CPG	RESPEC	Geologist
Tyler French	RESPEC	Field Engineer
Nick Marnach	RESPEC	Field Engineer Technician

Time Onsite: Start Time: 6:00 AM End Time: 8:00 PM

(Note: on-site time only reflects time on-site; it does not reflect time taken for off-site activities)

Equipment Onsite:

Daily Activity: Precut pipes and predrill holes for remaining sites while waiting for post pounder insert. Summarize remaining sites and calculate materials needed. Collect grab samples every 10 ft. in overburden and cap rock from shale shaker at G-1.

Proposed Schedule: Pound single pipes inside berm at Sites 44, 39, 50, 57, and 58. Pound pipe and construct structures west of the sink hole. Continue to collect grab samples every 10 ft. in overburden and cap rock from shale shaker at G-1.

Initials: TPF

ME&A Daily Action Summary

May 17, 2013

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
- Acquired horizontal and vertical locations of CPT's, set offset stakes for 3 proposed borehole logging to be done on the West Berm Expansion, as-built survey on G-01 pad, and as-built survey of two steel pipelines & valves located near G-03 pad.
- Departed @ 4:00 pm

ME&A Daily Action Summary

May 18, 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

May 19, 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