#### INCIDENT ACTION PLAN

Be brief and concise with your entries

Location	Control Level	Operational Period	
Bayou Corne Sink Hole	Company Supervisory	From 10/9/12	To 10/10/12

#### 1.0 SITUATION

Disease, community, environment

PROMPTS:

Weather, disease trends, Resources, Hazards & safety

REFERENCE:

Maps, weather reports, Sitreps, appreciation, warnings, alerts

#### CURRENT

Sunny

#### **PREDICT**

Sunny

### 2.0 OBJECTIVES (or MISSION)

#### CURRENT

Objective 1 - Gas Monitoring:

PROMPTS: Time & space

REFERENCE:

Appreciation - control options. courses open to disease

6 Gas Monitors have been set up in the field and are obtaining data on a continuous basis. (See Attached Map for Locations)

The monitors are running on batteries which must be changed out every morning. Three monitors are located in the swamp and are required to be reached via airboats launched from TBC facilities.

The continuous monitoring data is collected at an office trailer located at Texas Brine Grand Bayou Facility. Monitoring the information on a 24 hours basis.

Monitoring is being recorded for LEL, VOC, H2S and O2.

Objective 2 - Elevation survey taking place once a week.

Objective 3- Sink hole observation. See attached Map. Remediation plan continues with removal of vegetation also we will be using four drum skimmers and two vacuum trucks. See Attached Plan.

Objective 4- Inclinometer Monitoring; See attached

**ALTERNATE** 

3.0 EXECUTION add safety information as appropriate

#### GENERAL OUTLINE

PROMPTS: Strategies & tactics (current/proposed/alternate)

REFERENCE: Appreciation, Control Options Safety Information: See Attached Safe Work Rules Reference IAP dated 8/9/12

Additional to our Safe Work Rules for this project we are adding the awareness of insects, reptiles and animals. Inspect location for flammability

IAP [Bayou Corne Sink Hole] - V#

Version date: 3 May 2010

	Daily Safety Meetings PPE Required on site: Respirator w/ VOC Cartridge, Gloves for sampling, eye protection, life preservers, hearing protection.
GROUPINGS	NA
TASKS Including PR & Media	Same as above
COORDINATING INSTRUCTIONS PROMPTS: Timings, routes, assembly areas, staging areas	Texas Brine Grand Bayou Facility will be used as staging area.
	TION (Logistics support) s, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised,
SUPPLY WHO, WHAT, WHERE, WHEN of resources not readily available	NA
GROUND SUPPORT Transport of personnel, traffic mgt, refuelling, mechanical repair/maintenance	NA
COMMUNICATIONS Installation, maintenance, technical advice	Cell Phone & Landline Communications: Kenneth Blanchard – Area Manager – 985- kblanchard@texasbrine.com Scott Borne – Facility Manager – 985- sborne@texasbrine.com Joel Miller, PE – Consultant – 337- internet.com Bruce Martin – Operations/PR – 713- bmartin@texasbrine.com Mark Cartwright – Technical/Engineering – 713- mcartwright@unitedbrine.com Scott Whitelaw – Environmental/Safety – 713- (713-

Version date: 3 May 2010

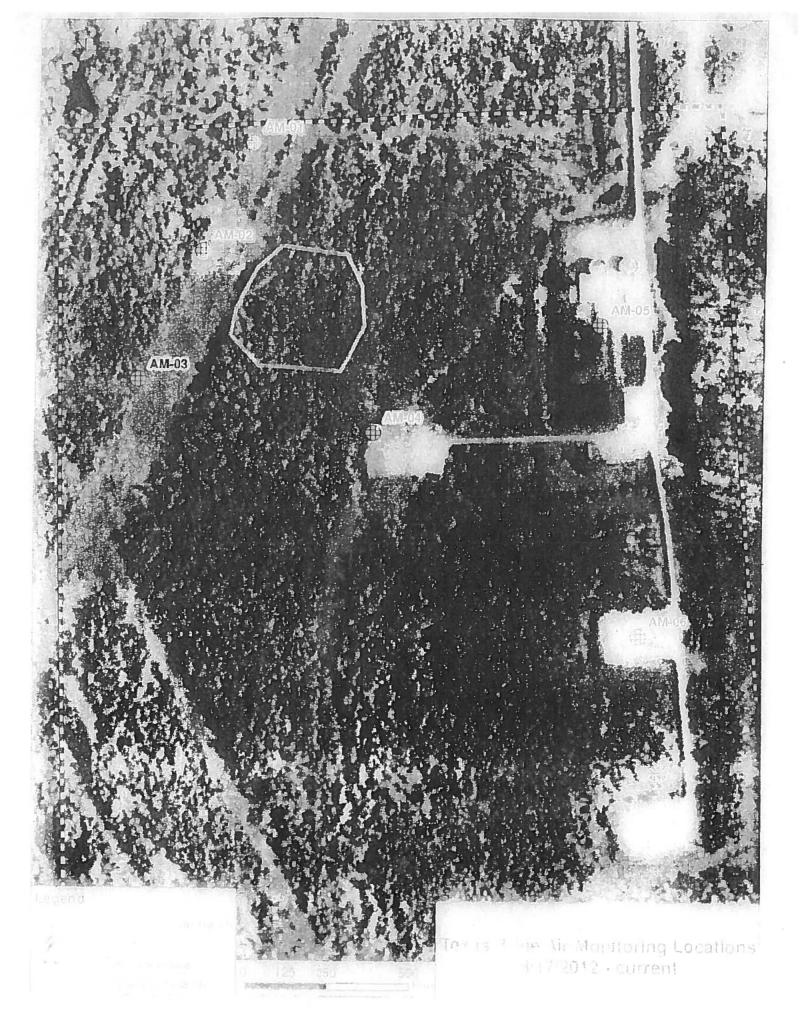
Industry and investment NSW		
	swhitelaw@tum.com	
STAGING AREA/ FCP Setting up, communications, staffing	Texas Brine Grand Bayou Facility 1301 Hwy 70 South, Belle Rose, La 70341	
	TION (Logistics services) s, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised,	
stand by, enroute)	, , , , , , , , , , , , , , , , , , , ,	
FACILITIES Security, waste, cleaning	NA	
CATERING	NA	
OH&S/MEDICAL Medical plan, first aid plan	Call 911	
FINANCE	NA	
TRAVEL	NA	
INDUCTION/ TRAINING	NA	
ACCOMMODATION	NA	
6.0 CONTROL, COORDINATION & COMMUNICATION		
CONTROL & COORDINATION STRUCTURE	Plant Management Supervision / Contractor Work	
REFERENCE		
COORDINATION & LIAISON	NA	

#### Industry and Investment NSW

Local knowledge, police, agency reps, emergency mgt reps	
COMMUNICATIONS  PROMPTS Communications structure, operational comms plan, information mgt	Plant Management – Contractor Communication via Cell Phone

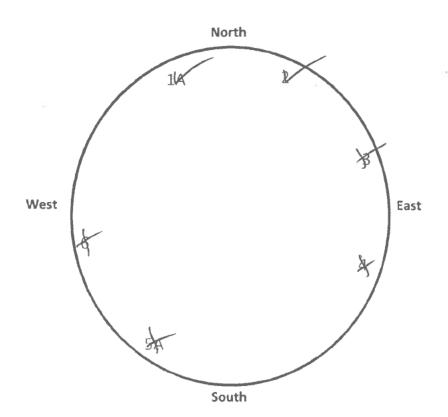
EXTRAS		
Attachments PROMPTS:: maps, weather, organisational charts, resources, comms diagram	Site Map Current Weather Safe Work Rules	
Plan developers PROMPTS PO, Logs Mgr, Controller	NA	
Approval Controller, Ops Director	TBC Company Rep: FOSC: SOSC: POSC:	

MILLER ENGINEERS & ASSOCIATES, INC. CONSULTING ENGINEERS & LAND SURVEYORS FRANKLIN, LA. DOTE: PROPERTY & LEASE LINES ARE APPROXIMATE ONLY. THIS SKETCH DOES NOT REFRESENT A PROPERTY BOUNDARY SURVEY. APPROX EDGE OF SLURRY PIT 8/4/12 TB. WATER SAMPLES WATER WELL T.B.M. 3C / WATER WELL 5 o-T.B.M. 5 T.B.M. 3B TUÇ LEASE LINE WELL 9



## **Bayou Corne Sinkhole**

10/8/12 Date and Time: Time Time Time Time 7:00 p.m. 10:00 p.m. 1:00 a.m. 4:00 a.m. Tree 1 Tree 2 Tree 3 Tree 4 Tree 5 Tree 6



NOTE: Coordinates for each tree are forth coming.

By: / CArwa Boutreaus

# TEXAS BRINE COMPANY, LLC AND AFFILIATED COMPANIES

Safe Work Practices

UNDERGROUND

STORAGE, LLC



UNITEDBRINE

FEXAS BRINE COMPANY, LLC

PUTICES MARRIAD, CA



American Industry

#### Site Specific Safety Plan for Remediation of the Bayou Corne Sink Hole

The following plan is a site specific plan for the remediation of the Bayou Corne sink hole which will be achieved in two Phases. Phase one will include the construction of an access road to the sink hole which will allow the use of a long reach excavator. The excavator will be used to remove vegetation near the access road and place into roll off boxes. Phase two will consist of placing one or more airboats with attached rakes that will be used to push vegetation towards the access road where it will be removed and placed in roll off boxes. By removing the vegetation this allow us the use o skimmers and absorbent booms to aid in hydrocarbon removal.

#### Site Setting

The Texas Brine facility is located at 1301 Hwy 70, Belle Rose, LA 70341. The facility is located South of 70. The site is located on raised pads and roads but the property is otherwise swamp. A site map is attached. The nearest hospital Our Lady of the Lake is located in Napoleonville, LA. which is a 15 minute trip.

#### Site Specific Hazards

The site is located in a swamp setting and potential dangers may be present. Personnel should be aware of Alligators

Wasps

Snakes

Spiders

#### **Emergency Contact**

911 will used in any emergency. Cell phones on site

#### Site Safety

#### Safety Meeting

Held at the beginning of each shift.

#### **PPE Requirements**

Hard hat

Safety Glasses

Steel toe boots

#### Air Monitoring

A system of air monitoring devices have been placed across the property surrounding the sink hole. One air monitoring device is located next to the access road.

Airboats will have hand held monitors on there person at all times when on the sink hole

#### Spotters and Warnings

A person or persons armed with an air horn will be placed on site looking for safety issues such as

Leaning trees

Falling trees

Ground Movement

Driver of the truck attached to the roll off box will remain in the truck at all times and will be ready to vacate the access road on signal.

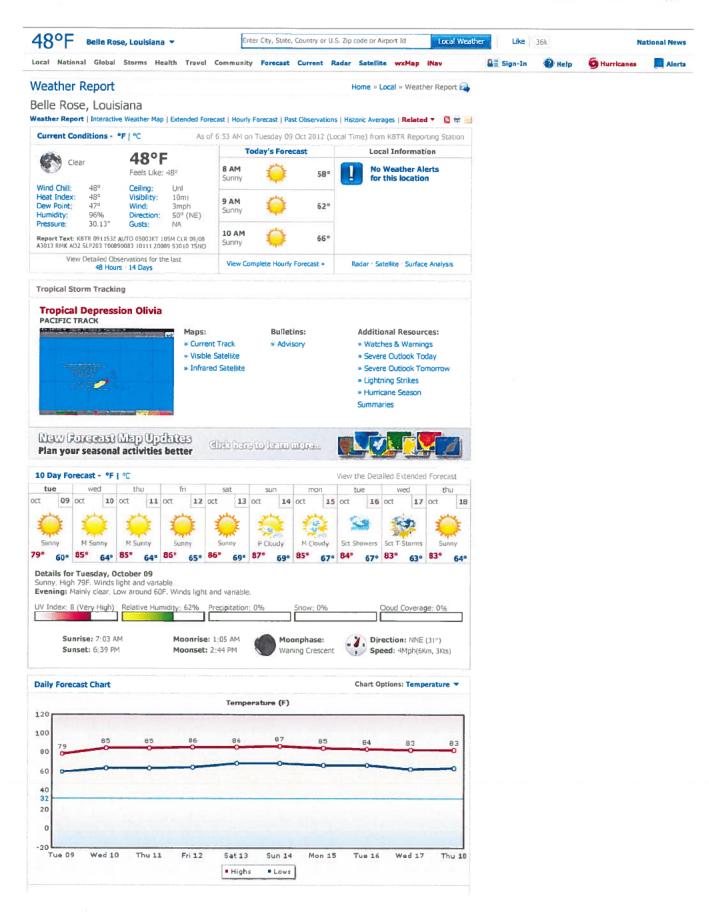
#### **Heavy Equipment**

Long reach excavator

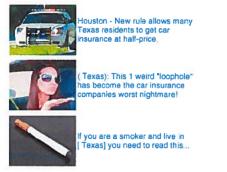
#### Environmental

Vegetation will be placed in lined roll off boxes and disposed of Airboats will remain inside the containment boom once entered Decon of airboats will take place on location pad next to access road.

Universal Time: Tuesday, 09 Oct 2012, 12:08









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October 8, 2012

Mr. Bruce Martin Vice President of Operations Texas Brine Company, LLC 4800 San Felipe Houston, TX 77056

Dear Mr. Martin:

RE: In-Place Inclinometer and Tiltmeter Monitoring System, Napoleonville Dome Weekly Report: September 29 Through October 5, 2012

RESPEC is pleased to submit this weekly report on the in-place inclinometer (IPI) and tiltmeter monitoring system installed around the sinkhole located near the western flank of the Napoleonville Dome, Assumption Parish, Louisiana. The locations of the IPIs and tiltmeters are shown in Figure 1. Graphs illustrating the data, as recorded by each IPI and tiltmeter, are provided in Figures 2–4. The IPI data for the X-directions and Y-directions are plotted separately in Figures 2 and 3, respectively. The tiltmeter data for both the X- and Y-directions are plotted in Figure 4. A normal condition that reflects no change in ground movement, plots as a horizontal line on these graphs. Note that the instruments installed are very sensitive; they can measure ground tilt to less than 1/100 of a degree. Alarm levels are set at  $\pm$  1.0 degree for all inclinometers and  $\pm$  0.5 degree for all tiltmeters.

Figure 5 shows water level in feet with respect to the bottom of the IPI-3 housing. A water level of 0 feet would indicate that the water is at the bottom of the IPI-3 housing; a positive value indicates the housing is submerged or partially submerged. Negative values, as shown in Figure 5, indicate that the water level remains below the bottom of the IPI-3 housing.

Cornerpost bracing that was installed by airboat crews was inspected on the morning of Tuesday, October 2. Data indicates that the airboat visits to site IPI-4 caused noise in the data. The post that holds the datalogger housing at IPI-3 was left tilted approximately 30 degrees; on Wednesday morning this was corrected by lashing it upright to another post at the site. This also caused noise in the data. With the additional shoring, however, data noise has been reduced. At 14:45 on Thursday, October 4, IPI-4 recorded approximately 0.01 degrees tilt toward the sinkhole. IPI-5 is recording tilt toward the sinkhole following a linear trend at a rate of approximately 0.0013 degrees/day. Strain left in the system from corner-post construction may cause the posts to tilt over time as they reach equilibrium. Other IPI and tiltmeter data have reflected stable conditions over the past week.

Communication problems have been greatly reduced, but have not been completely solved. Settings in the Atlas server caused issues with communication; but these have been corrected. Antenna were reconfigured to improve communication with site Tilt 8 (Oxy-Geismar 3 pad);

however, the site has currently been offline for 2 days because of unknown causes. Texas Brine Company, LLC will be notified as soon as the communication problem is corrected.

Sincerely,

Eric L. Krantz Engineer

ELK:11f

cc: Mr. Mark Cartwright, Texas Brine Company, LLC Project Central File 2153 — Category A



Figure 1. Inclinometer and Tiltmeter Locations.

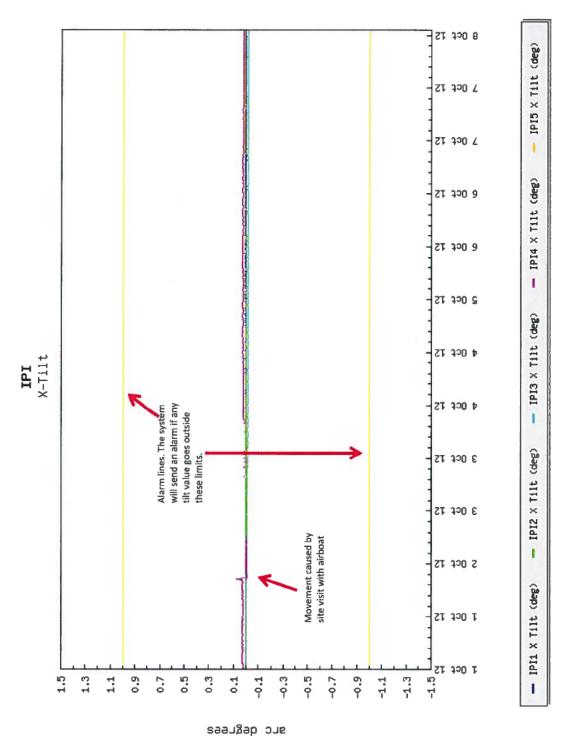


Figure 2. Inclinometer X-Direction Temporal Trends.

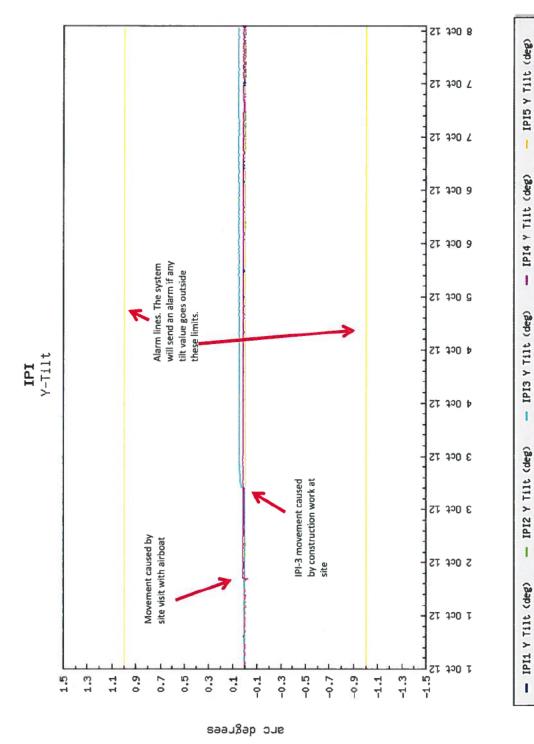


Figure 3. Inclinometer Y-Direction Temporal Trends.

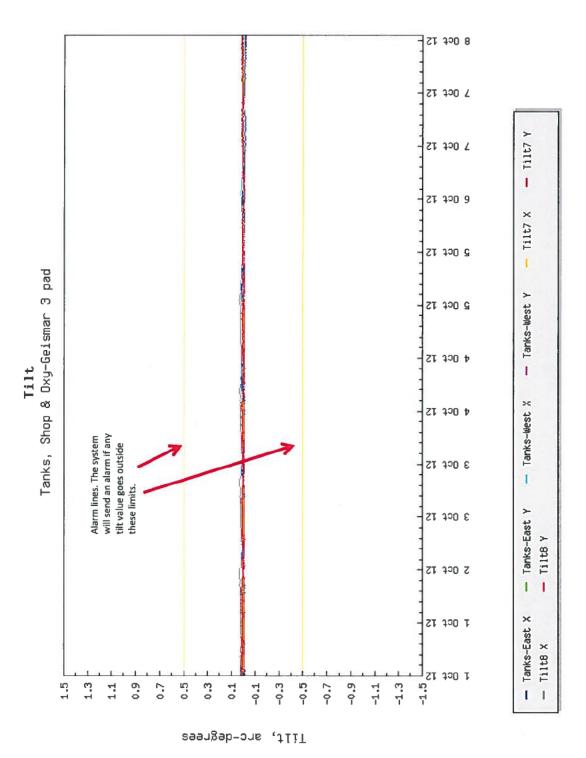


Figure 4. Tiltmeter Temporal Trends.

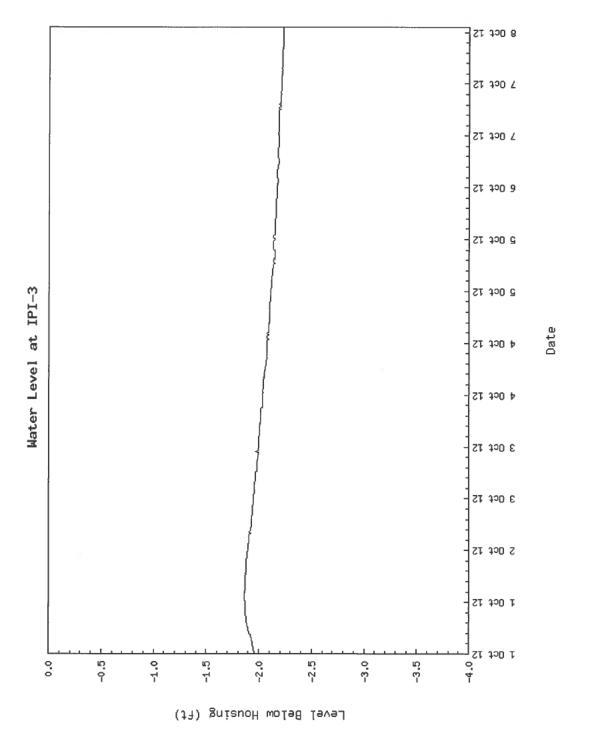


Figure 5. Water-Level Data: Water Level References for the Bottom of Housing of IPI-3.