### **INCIDENT ACTION PLAN**

Be brief and concise with your entries

Location		Control Level	Operatio	onal Period		
Bayou Corne Sink Hole		Company Supervisory	From 9/13/14 To 9/14/14			
<b>1.0 SITUATION</b> Disease, community, environment PROMPTS:	CURRENT Scattered thunderstorms PREDICTION Mixed clouds and sun with scattered thunderstorms. 50% chance of precipitation. High Temperature near 85.					
Weather, disease trends, Resources, Hazards & safety						
REFERENCE: Maps, weather reports, Sitreps, appreciation, warnings, alerts						
2.0 OBJECTIVES (or MISSION)	<b>CURRENT</b> <b>Objective 1 -</b> Demonstrating sinkhole containment and determining if additional sinkholes could form.					
PROMPTS: Time & space Objective 2 - Locating and mitigating th of shallow gas.			ng the risk posed	by the presence		
REFERENCE: Appreciation – control options, courses open to disease	<b>Objective 3 -</b> Confirming the broader stability of the Napoleonville Salt Dome.					
	<u>Current Actions:</u> (For planning purposes only, all activities are subject to change.)					
	- C - N - N	, MRAA, PMW, and PVW wells Conduct daily well readings and flare main Monitor continuous dewatering of ORWs Monitor PMWs 04 and 07 for safety and se Continue work over on OG2; pull 7" and 10	curity			
	<ul> <li><u>Air Monitoring/Under-slab Ventilation /Monitoring Equipment</u></li> <li>Conduct ventilation system inspection</li> <li>Continue 24/7 monitoring and response to alarms from revised air monitoring system.</li> </ul>					
	Containment/ Roads/ Sinkhole     Daily berm inspections					
		bling/Survey/Instrumentation Continue quarterly Fenstermaker survey				
	Tomorrow's Activities-Continue ventilation system inspections-Conduct daily well readings and flare maintenance-Conduct Daily berm inspection-Monitor Bubble Site 56-Monitor PMWs 04 and 07 for safety and security					
	Sinkhole Activity – Code 1					
3.0 EXECUTION a	dd safety	v information as appropriate				
GENERAL OUTLINE		fety Information: See Attache				

PROMPTS: Strategies & tactics (current/proposed/alternate) REFERENCE: Appreciation, Control Options	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 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.		
<b>4.0 ADMINISTRATION</b> (Logistics support) PROMPTS: Unit names, locations, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised, stand by, enroute)			
SUPPLY WHO, WHAT, WHERE, WHEN of resources not readily available	ΝΑ		
GROUND SUPPORT Transport of personnel, traffic mgt, refuelling, mechanical repair/maintenance	ΝΑ		
COMMUNICATIONS Installation, maintenance, technical advice	Cell Phone & Landline Communications: Kenneth Blanchard – Area Manager – <b>Market Manager</b> ( <b>Market Market</b> ) kblanchard@texasbrine.com Scott Borne – Facility Manager – <b>Market Market</b> ) sborne@texasbrine.com Joel Miller, PE – Consultant – <b>Market Market</b> ( <b>Market Market</b> ) joel.miller@cox- internet.com		

	Bruce Martin – Operations/PR – <b>Constant (Constant)</b> ) bmartin@texasbrine.com Mark Cartwright – Technical/Engineering – <b>Constant (Constant)</b> ) mcartwright@unitedbrine.com Scott Whitelaw – Environmental/Safety – <b>Constant (Constant)</b> ) swhitelaw@tum.com
STAGING AREA/ FCP Setting up, communications, staffing	Texas Brine Grand Bayou Facility 1301 Hwy 70 South, Belle Rose, La 70341

# 5.0 ADMINISTRATION (Logistics services)

PROMPTS: Unit names, locations, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised, stand by, enroute)

stand by, enroute)		
FACILITIES Security, waste, cleaning	ΝΑ	
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		

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

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

Belle Rose, Louisiana, United States	
Today's Forecast: Saturday, 13 Sep 2014	
85°F 69°F	
Sky Conditions: Scattered Thunderstorms Sunrise: 6:47 AM Sunset: 7:11 PM Wind: NNE (15°) @ 9Mph Precipitation Probability: 50%	
View your complete Local Weather »	

Extended Fo	orecast	Full 10-Day Forecast »		
<b>Sunday</b> 14 Sep 2014	Monday 15 Sep 2014	<b>Tuesday</b> 16 Sep 2014	Wednesday 17 Sep 2014	
2	9	Y	2	
PM Thunderstorms	Thunderstorms 88°F	Thunderstorms 83°F	Scattered Thunderstorms	
90°F 74°F	73°F	72°F	85°F 69°F	

#### **Detailed Forecast**

#### **Today:**

Mixed clouds and sun with scattered thunderstorms. High near 85F. Winds NNE at 5 to 10 mph. Chance of rain 50%.

**Tonight:** A few thunderstorms in the evening. Mainly clear skies after midnight. Low 69F. Winds N at 5 to 10 mph. Chance of rain 50%.

### Tomorrow:

Afternoon showers and thunderstorms. Highs in the low 90s and lows in the mid 70s.

Seismic Code	Seismic Activity	Sinkhole Access	Berm Road Access	Work Allowed
1	Minimal to no seismic activity around/below sinkhole; 10 or fewer of the sharp seismic signals associated with rock movement, called mini-earthquakes (MEQs) or the longer signals associated with gas or liquid movement, called Very Long Periods (VLPs) within 24-hour period; allows work on sinkhole and inside berm area to continue	<ul> <li>Approved<sup>1</sup> work allowed only in designated areas of sinkhole. Some areas may be restricted due to unsafe conditions (e.g., leaning trees). Sinkhole grid system shown in Figure 1 will be used to define restricted areas for individual work activities.</li> <li>All vessels must have at least 2 persons. Workers must wear approved PFDs. No work allowed after sunset. Safety boat on standby.</li> </ul>	Access allowed on all berms and roads unless an area is physically barricaded.	Approved work allowed in unrestricted areas. Work area must be cleared of hazards and a Work Permit issued before start.
2	Indicates some increased seismic activity around/below sinkhole but not at a level that indicates imminent threat of sloughing or movement below sinkhole (10 to 50 MEQs or VLPs in 24 hours)	<ul> <li>Code 1 requirements plus:</li> <li>Each vessel inside designated sinkhole area (see Figure 2) must have a designated shoreline watch who is in constant radio communication with vessel.</li> </ul>	Access allowed on all berms and roads unless an area is physically barricaded.	<ul> <li>Code 1 requirements plus:</li> <li>Each work activity must have a designated person with means to warn all workers of unusual activity on sinkhole.</li> </ul>
3	Indicates seismic activity has elevated to a point similar to what has been seen in past monitoring prior to a sloughing on the shore or movement beneath sinkhole (More than 50 MEQs or VLPs in 24 hours)	<ul> <li>Code 1 requirements plus:</li> <li>Each vessel inside the defined containment berm (see Figure 2) must have a designated shoreline watch who is in constant radio communication with vessel.</li> </ul>	All berm roads are closed except the north berm from the TBC Access road to Rig Road (unless restricted for non- seismic reasons). All other berms open only to UTVs for personnel doing approved work. Anyone on a UTV must have a radio, air horn, and approved PFD.	<ul> <li>Code 1 and 2 requirements plus:</li> <li>Work is allowed on a case by case basis as determined by TBC Operations:</li> </ul>

1. All site work must be approved by TBC Response Operations.

2. The Texas Brine access road from Highway 70 to Pad 10 is not considered part of the designated containment berm for purposes of this document.

3. Codes are set by Assumption Parish Office of Emergency Management

Page 14-A, Texas Brine Company, LLC, Health and Safety Plan, Bayou Corne, Belle Rose, Louisiana, Sept 2013

### Site Safety for Sinkhole and Surrounding Area

In an effort to provide for a safe work environment in and around the Sink Hole, this procedure has been put in place to inform workers of their allowed Work Areas. This procedure is only guidance and should not exclude any other observation or safety precautions in place that may cause any danger to anyone. All workers entering the Texas Brine facility should be informed of the risks that are posed by this ongoing event.

This system has been developed using a Code System and is defined as follows:

## Code 1:

Is an all clear, with restriction to OXY pad 3 and the North pad area as indicated in the map below due to the concerns raised by Itaska.



# Code 2:

Restrict all activity from inside the Berm, but not the Berm itself or outside; recommend that all operations in the immediate vicinity of the sinkhole be halted immediately. The Inside Berm is defined as indicated on the map below in red.



## Code 3:

Restrict activity from inside and on the Berm, no work activity shall occur until Code level has been changed to allow. Continued monitoring of the berm for cracks and venting wells located adjacent to the berm. At this code level immediate notification shall be made of any changes that occur on sinkhole, swamp around sinkhole, or any changes to berm area. The Berm is defined as indicated in yellow on the map below.



## **Communication:**

All workers working in conjunction with this ongoing event shall be informed of these codes and communication protocol developed to inform everyone when codes may change at any time.