# **INCIDENT ACTION PLAN**

Be brief and concise with your entries

Location **Bayou Corne** Sink Hole

# Control Level **Company Supervisory**

**Operational Period** 

From 7/26/14

To 7/27/14

### 1.0 SITUATION

Disease, community, environment

#### PROMPTS:

Weather, disease trends, Resources, Hazards & safety

#### REFERENCE:

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

### **CURRENT**

Partly cloudy

#### **PREDICTION**

Sunshine and clouds mixed. A stray shower or thunderstorm is possible. 20% chance of precipitation. High Temperature near 91.

# 2.0 OBJECTIVES (or MISSION)

#### PROMPTS: Time & space

#### REFERENCE:

Appreciation - control options, courses open to disease

### **CURRENT**

Objective 1 - Demonstrating sinkhole containment and determining if additional sinkholes could form.

**Objective 2 -** Locating and mitigating the risk posed by the presence of shallow gas.

Objective 3 - Confirming the broader stability of the Napoleonville Salt Dome.

#### **Current Actions:**

(For planning purposes only, all activities are subject to change.)

#### ORW, MRAA, PMW, and PVW wells

- Conduct daily well readings and flare maintenance
- Monitor continuous dewatering of ORWs
- Complete development of PVW-BS-05
- Install Knight Gas Cap at Bubble Site 44
- Begin demob of drilling barge
- Set up drilling rig at Bubble Site 47

### Air Monitoring/Under-slab Ventilation / Monitoring Equipment

- Conduct ventilation system inspection

#### Containment/ Roads/ Sinkhole

- Daily berm inspections

### Sampling/Surveying/Instrumentation

- Install computers and monitors for air monitoring program at TBC White Castle facility

#### **Tomorrow's Activities**

- Continue ventilation system inspections
- Conduct daily well readings and flare maintenance
- Conduct Daily berm inspection
- Monitor Bubble Site 56
- Begin installation of PVW-BS-47
- Redevelop PMW-19S

#### Sinkhole Activity – Code 1

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 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.
	ION (Logistics support) , 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 IAP [Bayou Corne Sink Hole	Cell Phone & Landline Communications: Kenneth Blanchard – Area Manager – (Communications) kblanchard@texasbrine.com Scott Borne – Facility Manager – (Communications)  e] – V# Version date: 3 May 2010 Page 2 of 5

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STAGING AREA/ FCP Setting up, communications, staffing	Texas Brine Grand Bayou Facility 1301 Hwy 70 South, Belle Rose, La 70341				
5.0 ADMINISTRAT	ION (Logistics services)				
PROMPTS: Unit names, locations stand by, enroute)	s, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised,				
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	Plant Management Supervision / Contractor Work				

STRUCTURE	
REFERENCE Structural Chart	
COORDINATION & LIAISON	NA
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, 26 Jul 2014

### 91°F

74°F

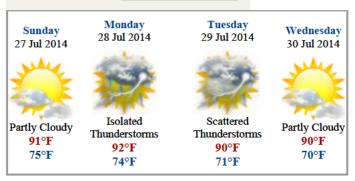
Sky Conditions: Partly Cloudy Sunrise: 6:20 AM Sunset: 8:01 PM

Wind: SW (223°) @ 9Mph Precipitation Probability: 20%

View your complete Local Weather »



#### Extended Forecast Full 10-Day Forecast »



#### **Detailed Forecast**

#### Today:

Sunshine and clouds mixed. A stray shower or thunderstorm is possible. High 91F. Winds SW at 5 to 10 mph.

#### Tonight:

A stray thunderstorm is possible through the evening. A few clouds. Low 74F. Winds SSW at 5 to 10 mph.

#### Tomorrow:

Partly cloudy. Highs in the low 90s and lows in the mid 70s.

# Site Safety Plan for Sinkhole and Surrounding Area

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>Approved¹ 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)	Code 1 requirements plus:  Each vessel inside designated sinkhole area (see Figure 2) must have a designated shoreline watch who is in constant radio communication with vessel.	Access allowed on all berms and roads unless an area is physically barricaded.	Code 1 requirements plus:
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)	Code 1 requirements plus:	All berm roads are closed except the north berm from the TBC Access road to Rig Road (unless restricted for nonseismic 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.