INCIDENT ACTION PLAN

Be brief and concise with your entries

Location Bayou Corne Sink Hole

Control Level Company Supervisory

Operational Period

From 3/19/14

To 3/20/14

1.0 SITUATION

Disease, community, environment

PROMPTS:

Weather, disease trends, Resources, Hazards & safety

REFERENCE:

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

CURRENT

Fog

PREDICTION

Intervals of clouds and sunshine. 10% chance of precipitation. High Temperature near 75.

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, CPT and PVW wells

- Conduct daily well readings and flare maintenance
- Monitor Bubble site 56
- Continue pump test at ORW-21; Water storage tank will be emptied as necessary via truck
- Monitor continuous dewatering of ORWs 4, 14, and OGRW-1 (currently no pressure and shut-in; still pumping water)
- Continue 5-day pump test at ORW 26
- Begin 6-hour step test and 5-day feasibility pump test at ORWs 15 and 24
- Continue redevelopment of ORW 23
- Begin work over of ORW 32
- Plug and abandon PVW-1
- Install electric pump in OGRW 1

Air Monitoring/Under-slab Ventilation

Conduct ventilation system inspections

Containment/ Roads/ Sinkhole

Continue placement of GCL/geotextile/clay on new south berm

Version date: 3 May 2010

Sampling/Surveying/Instrumentation

Survey old south berm and settlement rods around ORW-21

Tomorrow's Activities

- Continue ventilation system inspections
- Conduct daily well readings and flare maintenance
- Conduct daily berm inspection
- Monitor Bubble site 56
- Continue ORW-21 pump test

					
	 Continue ORW dewatering tests Continue placement of GCL/geotextile/clay on new south berm 				
	- Continue plugging and abandoning PVWs				
	Sinkhole Activity – Code 1				
3.0 EXECUTION add safety information as appropriate					
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.				
4.0 ADMINISTRATION (Logistics support)					
PROMPTS: Unit names, locations stand by, enroute)	, 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	NA				

mgt, refuelling, mechanical repair/maintenance					
COMMUNICATIONS Installation, maintenance, technical advice	Cell Phone & Landline Communications: Kenneth Blanchard – Area Manager – kblanchard@texasbrine.com Scott Borne – Facility Manager – sborne@texasbrine.com Joel Miller, PE – Consultant – internet.com Bruce Martin – Operations/PR – bmartin@texasbrine.com Mark Cartwright – Technical/Engineering – mcartwright@unitedbrine.com Scott Whitelaw – Environmental/Safety – 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 stand by, enroute)	, 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 STRUCTURE	Plant Management Supervision / Contractor Work			
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: Wednesday, 19 Mar 2014

75°F 50°F

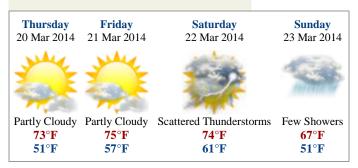
Sky Conditions: Partly Cloudy **Sunrise:** 7:09 AM **Sunset:** 7:15 PM

Wind: SW (224°) @ 4Mph **Precipitation Probability:** 10%





Extended Forecast Full 10-Day Forecast »



Detailed Forecast

Today:

Intervals of clouds and sunshine. High near 75F. Winds light and variable.

Tonight:

Partly cloudy. Low near 50F. Winds light and variable.

Tomorrow:

Mix of sun and clouds. Highs in the low 70s and lows in the low 50s.

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	 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. All vessels must have at least 2 persons. Workers must wear approved PFDs. No work allowed after sunset. Safety boat on standby. 	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.	 Code 1 and 2 requirements plus: Work is allowed on a case by case basis as determined by TBC Operations:

- 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.