INCIDENT ACTION PLAN

Be brief and concise with your entries

Location Bayou Corne Sink Hole	Control Level Company Supervisory	Operational Period From 10/9/13 To 10/10/13

1.0 SITUATION Disease, community, environment PROMPTS: Weather, disease trends, Resources, Hazards & safety REFERENCE: Maps, weather reports, Sitreps, appreciation, warnings, alerts	**CURRENT** Sunshine **PREDICTION** Sunny skies. 0% chance of precipitation. High Temperature near 85.
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.)** **Water Well #3** - Continue P&A of Water Well #3. Plan to grout today. - Tilt meters in the vicinity will be monitored for movement - Airboat safety support will be provided **Geophone #1** - Running tubing and hanging geophones today. **ORW, MRAA, and PMW wells** - Conduct daily well readings and flare maintenance - Continue monitoring drawdown test at OGRW 1 and ORW 9 - Continue to evaluate drawdown pump test at ORWs 39 and 40. - Continue rehab on ORWs - Continue dewatering ORWs **Air Monitoring/Under-slab Ventilation** - Conduct ventilation system inspections. - Continue installing sub-slab probes **CPT Well/MIHPT/DPVE/Tilt meter instrumentaion** - Advance and complete MIHPT-202 (2nd attempt due to subsurface obstructions) and MIHPT-19 (time permitting) - Continue DPVE test at bubble site 47 **Containment/ Roads/ Sinkhole** - Daily berm inspections

	Survey/Sampling - Daily water levels around sinkhole - Monitor bubble sites - Sample MRAA wells - Weekly settlement plate survey **Tomorrow's Activities** - Continue under-slab pressure monitoring - Conduct daily well readings and flare maintenance - MIHPTs - Continue DPVE test
	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.**

4.0 ADMINISTRATION (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	**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 –** [redacted] **(** [redacted] **kblanchard@texasbrine.com** **Scott Borne – Facility Manager –** [redacted] **(** [redacted] **)** **sborne@texasbrine.com** **Joel Miller, PE – Consultant –** [redacted] **(** [redacted] **) joel.miller@cox-internet.com** **Bruce Martin – Operations/PR –** [redacted] **(** [redacted] **)** **bmartin@texasbrine.com** **Mark Cartwright – Technical/Engineering –** [redacted] **(** [redacted] **)** **mcartwright@unitedbrine.com** **Scott Whitelaw – Environmental/Safety –** [redacted] **(** [redacted] **)** **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)

FACILITIES Security, waste, cleaning	**NA**
CATERING	**NA**
OH&S/MEDICAL Medical plan, first aid plan	**Call 911**
FINANCE	**NA**
TRAVEL	**NA**
INDUCTION/	**NA**

TRAINING	
ACCOMMODATION	**NA**
6.0 CONTROL, COORDINATION & COMMUNICATION	
CONTROL & COORDINATION STRUCTURE REFERENCE Structural Chart	**Plant Management Supervision / Contractor Work**
COORDINATION & LIAISON Local knowledge, police, agency reps, emergency mgt reps	**NA**
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	**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, 9 Oct 2013

85°F
64°F

Sky Conditions: Sunny
Sunrise: 7:02 AM **Sunset:** 6:40 PM
Wind: NE (40°) @ 3Mph
Precipitation Probability: 0%

View your complete Local Weather »

Extended Forecast **Full 10-Day Forecast »**

Thursday	Friday	Saturday	Sunday
10 Oct 2013	11 Oct 2013	12 Oct 2013	13 Oct 2013
Mostly Sunny	Mostly Cloudy	Partly Cloudy	Isolated Thunderstorms
87°F	**86°F**	**86°F**	**86°F**
65°F	**68°F**	**68°F**	**67°F**

Detailed Forecast

Today:
Mainly sunny. High around 85F. Winds light and variable.
Tonight:
Clear. Low 64F. Winds light and variable.
Tomorrow:
A few clouds. Highs in the upper 80s and lows in the mid 60s.

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	• Approved[1] 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: • Each work activity must have a designated person with means to warn all workers of unusual activity on sinkhole.
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: • Each vessel inside the defined containment berm (see Figure 2) must have a designated shoreline watch who is in constant radio communication with vessel.	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.	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

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.