

# INCIDENT ACTION PLAN

Be brief and concise with your entries

<b>Location</b> Bayou Corne Sink Hole	<b>Control Level</b> Company Supervisory	<b>Operational Period</b> From 9/27/13 To 9/28/13
---	---	---

<p><b>1.0 SITUATION</b> Disease, community, environment</p> <p>PROMPTS: Weather, disease trends, Resources, Hazards &amp; safety</p> <p>REFERENCE: Maps, weather reports, Sitreps, appreciation, warnings, alerts</p>	<p><b>CURRENT</b> Sunny</p> <hr/> <p><b>PREDICTION</b> Generally sunny despite a few afternoon clouds. 10% chance of precipitation. High Temperature near 90.</p>
<p><b>2.0 OBJECTIVES (or MISSION)</b></p> <p>PROMPTS: Time &amp; space</p> <p>REFERENCE: Appreciation – control options, courses open to disease</p>	<p><b>CURRENT</b></p> <p><b>Objective 1</b> - Demonstrating sinkhole containment and determining if additional sinkholes could form.</p> <p><b>Objective 2</b> - Locating and mitigating the risk posed by the presence of shallow gas.</p> <p><b>Objective 3</b> - Confirming the broader stability of the Napoleonville Salt Dome.</p> <p><b>Current Actions:</b> <b>(For planning purposes only, all activities are subject to change.)</b></p> <p><b><u>ORW, MRAA, and PMW wells</u></b></p> <ul style="list-style-type: none"> <li>- Conduct daily well readings and flare maintenance</li> <li>- Continue monitoring drawdown test at OGRW 1 and ORW 9</li> <li>- Begin drawdown pump test at ORWs 39 and 40</li> <li>- Develop DPVE 37</li> <li>- Pour pads at MRAA 5S and 5M</li> <li>- Flush ORW 31</li> </ul> <p><b><u>Air Monitoring/Under-slab Ventilation</u></b></p> <ul style="list-style-type: none"> <li>- Conduct ventilation system inspections.</li> <li>- Conduct 24-hour testing at 116 Crawfish Stew, 135 Crawfish Stew, and 1433 Sauce Piquante.</li> </ul> <p><b><u>CPT Well/MIHPT/DPVE</u></b></p> <ul style="list-style-type: none"> <li>- Advance and complete MIHPT 55 (ORW-6)</li> <li>- Continue set up, instrumentation connections, and solar panel installation on DPVE system at NSDBS-47 (mud volcano)</li> <li>- Install flow meters onto frac tanks discharge hoses to sinkhole</li> </ul> <p><b><u>Containment/ Roads/ Sinkhole</u></b></p> <ul style="list-style-type: none"> <li>- Continue placing sand for road to ORWs 90 and 91</li> </ul> <p><b><u>Survey/Sampling</u></b></p> <ul style="list-style-type: none"> <li>- Gauge water levels</li> <li>- Daily berm inspections</li> <li>- Reset and relocate water gauges around berm</li> </ul>

	<p><b>Tomorrow's Activities</b></p> <ul style="list-style-type: none"> <li>- Continue under-slab pressure monitoring</li> <li>- Conduct daily well readings and flare maintenance</li> </ul>
	<b>Sinkhole Activity – Code 2</b>
<b>3.0 EXECUTION</b> add safety information as appropriate	
<p><b>GENERAL OUTLINE</b></p> <p>PROMPTS: Strategies &amp; tactics (current/proposed/alternate)</p> <p>REFERENCE: Appreciation, Control Options</p>	<p><b>Safety Information: See Attached Safe Work Rules Reference IAP dated 8/9/12</b></p> <p><b>Additional to our Safe Work Rules for this project we are adding the awareness of insects, reptiles and animals.</b></p> <p><b>Inspect location for flammability</b></p> <p><b>Daily Safety Meetings</b></p> <p><b>PPE Required on site: Respirator w/ VOC Cartridge, Gloves for sampling, eye protection, life preservers, hearing protection.</b></p>
<b>GROUPINGS</b>	<b>NA</b>
<p><b>TASKS</b> Including PR &amp; Media</p>	<b>Same as above</b>
<p><b>COORDINATING INSTRUCTIONS</b></p> <p>PROMPTS: Timings, routes, assembly areas, staging areas</p>	<b>Texas Brine Grand Bayou Facility will be used as staging area.</b>
<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)	
<p><b>SUPPLY</b> WHO, WHAT, WHERE, WHEN of resources not readily available</p>	<b>NA</b>
<b>GROUND SUPPORT</b>	<b>NA</b>

Transport of personnel, traffic mgt, refuelling, mechanical repair/maintenance	
<b>COMMUNICATIONS</b> Installation, maintenance, technical advice	<b>Cell Phone &amp; Landline Communications:</b> 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
<b>STAGING AREA/ FCP</b> Setting up, communications, staffing	<b>Texas Brine Grand Bayou Facility</b> 1301 Hwy 70 South, Belle Rose, La 70341
<b>5.0 ADMINISTRATION</b> (Logistics services)	
PROMPTS: Unit names, locations, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised, stand by, enroute)	
<b>FACILITIES</b> Security, waste, cleaning	<b>NA</b>
<b>CATERING</b>	<b>NA</b>
<b>OH&amp;S/MEDICAL</b> Medical plan, first aid plan	<b>Call 911</b>
<b>FINANCE</b>	<b>NA</b>
<b>TRAVEL</b>	<b>NA</b>
<b>INDUCTION/ TRAINING</b>	<b>NA</b>
<b>ACCOMMODATION</b>	<b>NA</b>

<b>6.0 CONTROL, COORDINATION &amp; COMMUNICATION</b>	
<b>CONTROL &amp; COORDINATION STRUCTURE</b>  REFERENCE Structural Chart	<b>Plant Management Supervision / Contractor Work</b>
<b>COORDINATION &amp; LIAISON</b>  Local knowledge, police, agency reps, emergency mgt reps	<b>NA</b>
<b>COMMUNICATIONS</b>  PROMPTS Communications structure, operational comms plan, information mgt	<b>Plant Management – Contractor Communication via Cell Phone</b>

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

**Belle Rose, Louisiana, United States**

**Today's Forecast:** Friday, 27 Sep 2013

**90°F**  
**70°F**

**Sky Conditions:** Mostly Sunny

**Sunrise:** 6:55 AM **Sunset:** 6:54 PM

**Wind:** E (80°) @ 7Mph

**Precipitation Probability:** 10%



[View your complete Local Weather »](#)

**Extended Forecast** [Full 10-Day Forecast »](#)

<b>Saturday</b> 28 Sep 2013	<b>Sunday</b> 29 Sep 2013	<b>Monday</b> 30 Sep 2013	<b>Tuesday</b> 1 Oct 2013
			
Mostly Sunny	Isolated Thunderstorms	Scattered Thunderstorms	Scattered Thunderstorms
<b>89°F</b> <b>68°F</b>	<b>87°F</b> <b>68°F</b>	<b>86°F</b> <b>69°F</b>	<b>86°F</b> <b>69°F</b>

**Detailed Forecast**

**Today:**

Generally sunny despite a few afternoon clouds. High around 90F. Winds E at 5 to 10 mph.

**Tonight:**

Some clouds early will give way to generally clear conditions overnight. Low near 70F. Winds ESE at 5 to 10 mph.

**Tomorrow:**

A few clouds. Highs in the upper 80s and lows in the upper 60s.

## 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.