# **INCIDENT ACTION PLAN**

Be brief and concise with your entries

Location
Bayou Corne
Sink Hole

# Control Level **Company Supervisory**

**Operational Period** 

From 3/27/13

To 3/28/13

### 1.0 SITUATION

Disease, community, environment

PROMPTS:

Weather, disease trends, Resources, Hazards & safety

REFERENCE:

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

#### **CURRENT**

Sunnv

## **PREDICTION**

Mainly sunny skies. 0% chance of precipitation. High Temperature near 64.

# 2.0 OBJECTIVES (or MISSION)

#### PROMPTS: Time & space

#### REFERENCE:

Appreciation – control options, courses open to disease

#### **CURRENT**

Objective 1 - Gas Monitoring:

3 Gas Monitors have been set up in the field and are obtaining data on a continuous basis.

The monitors are running on batteries which must be changed out every morning. Three monitors are located in the swamp and are required to be reached via airboats launched from TBC facilities.

The continuous monitoring data is collected at an office trailer located at Texas Brine Grand Bayou Facility. Monitoring the information on a 24 hours basis.

Monitoring is being recorded for LEL, VOC, H2S and O2.

# Respec Mining & Energy:

In-place inclinometers and tilt meter monitoring system, weekly report

Objective 2- Elevation survey taking place once a week.

Objective 3- Sinkhole observation. Continuing to monitor slough on the western edge of the sinkhole. Operations are being performed on the sinkhole today.

ALTERNATE

3.0 EXECUTION add safety information as appropriate

## GENERAL OUTLINE

PROMPTS: Strategies & tactics (current/proposed/alternate) 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.

Version date: 3 May 2010

REFERENCE: Appreciation, Control Options	Inspect location for flammability		
Appreciation, Control Options	Daily Safety Meetings		
	PPE Required on site: Respirator w/ VOC Cartridge, Gloves for		
	sampling, eye protection, life preservers, hearing protection.		
CDOLIDINICO			
GROUPINGS	NA		
TASKS	Same as above		
Including PR & Media			
COORDINATING	Texas Brine Grand Bayou Facility will be used as staging area.		
INSTRUCTIONS			
PROMPTS:			
Timings, routes, assembly			
areas, staging areas			
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,		
stand by, emotic)			
SUPPLY	NA		
WHO, WHAT, WHERE, WHEN			
of resources not readily available			
available			
GROUND SUPPORT	NA		
Transport of personnel, traffic mgt, refuelling, mechanical			
repair/maintenance			
	Call Dhana 9 Landina Cammunications		
	Cell Phone & Landline Communications:  Kenneth Blanchard – Area Manager – 985-		
COMMUNICATIONS	kblanchard@texasbrine.com		
Installation, maintenance, technical advice	Scott Borne – Facility Manager – 985-3		
	sborne@texasbrine.com		
	Joel Miller, PE – Consultant – 337- (337- ) joel.miller@cox-		
	internet.com Bruce Martin – Operations/PR – 713		
	bmartin@texasbrine.com		
	Mark Cartwright – Technical/Engineering – 713		

	mcartwright@unitedbrine.com Scott Whitelaw – Environmental/Safety – 713- 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)	c, 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 &	NA			

LIAISON	
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, 27 Mar 2013

#### 64°F 42°F

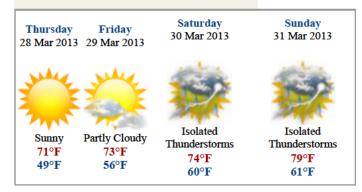
Sky Conditions: Sunny

Sunrise: 6:59 AM Sunset: 7:20 PM Wind: ENE (75°) @ 7Mph Precipitation Probability: 0%



View your complete Local Weather »

### Extended Forecast Full 10-Day Forecast »



#### **Detailed Forecast**

Today:

A mainly sunny sky. High 64F. Winds ENE at 5 to 10 mph.

Tonight:

Clear skies. Low 42F. Winds light and variable.

Tomorrow

Abundant sunshine. Highs in the low 70s and lows in the upper 40s.

# Site Specific Safety Plan for Remediation of the Bayou Corne Sink Hole

The following plan is a site specific plan for the remediation of the Bayou Corne sink hole which will be achieved in two Phases. Phase one will include the construction of an access road to the sink hole which will allow the use of a long reach excavator. The excavator will be used to remove vegetation near the access road and place into roll off boxes. Phase two will consist of placing one or more airboats with attached rakes that will be used to push vegetation towards the access road where it will be removed and placed in roll off boxes. By removing the vegetation this allow us the use of skimmers and absorbent booms to aid in hydrocarbon removal.

#### **Site Setting**

The Texas Brine facility is located at 1301 Hwy 70, Belle Rose, LA 70341. The facility is located South of 70. The site is located on raised pads and roads but the property is otherwise swamp. A site map is attached. The nearest hospital, Our Lady of the Lake is located in Napoleonville, LA. which is a 15 minute trip.

# **Site Specific Hazards**

The site is located in a swamp setting and potential dangers may be present. Personnel should be aware of:

Alligators

Wasps

**Snakes** 

**Spiders** 

# **Emergency Contact**

911 will used in any emergency. Cell phones on site

# **Site Safety**

#### **Safety Meeting**

Held at the beginning of each shift.

#### **PPE Requirements**

Hard hat

Safety Glasses

Steel toe boots

#### **Air Monitoring**

A system of air monitoring devices have been placed across the property surrounding the sink hole. One air monitoring device is located next to the access road.

Airboats will have hand held monitors on there person at all times when on the sink hole.

#### **Spotters and Warnings**

A person or persons armed with an air horn will be placed on site looking for safety issues such as:

Leaning trees

Falling trees

**Ground Movement** 

Driver of the truck attached to the roll off box will remain in the truck at all times and will be ready to vacate the access road on signal.

#### **Heavy Equipment**

Long reach excavator

#### **Environmental**

Vegetation will be placed in lined roll off boxes and disposed of.

Airboats will remain inside the containment boom once entered.

Decon of airboats will take place on location pad next to access road.

#### TBC Oxy Grand Bayou Sinkhole Management Plan

#### Phase Two- Crude Oil/Vegetation/Debris Removal

#### 10-12-2012

#### (THIS PLAN CAN BE ADJUSTED BY TBC FOR WEATHER RELATED ISSUES, OR SITE CONDITIONS)

This plan is being followed as an approach to sinkhole management. The primary focus for this plan is to:

- Recover liquid hydrocarbons that are found on the surface of the sinkhole. By removing the free
  phase Hydrocarbons that are found on the surface of the sinkhole, off-site migration of these
  Hydrocarbons will be greatly reduced. Thus, limiting the impacts of the Hydrocarbons to the
  sinkhole surface and the immediate area. Additionally, the removal of the free phase
  Hydrocarbons will greatly reduce the "smell" associated with the sinkhole.
- 2. To further understand the dynamics of the sinkhole, through profiling and visual observation of the surface of the sinkhole.

Phase One focused on the removal of floating vegetation and debris within the sinkhole. To date, the vast majority of floating vegetation and debris has been cleaned and cleared off of the surface of the sinkhole area. On October 8, 2012, we began to bring on site equipment and staffing to move into Phase Two of the Sinkhole Management, Crude Oil Removal.

Crude Oil removal will take place on near the mat road that was constructed on September 24, 2012. Texas Brine began reconstruction of the mat road at well pad #3, going toward the sinkhole. This road has been constructed of river sand, filter fabric and wooden mats. The mat road has been constructed in the previous footprint, to the outside and on the eastern side of the sinkhole.

As discussed in the Phase One Plan for Sinkhole Management, the mat road will play a vital part in our recovery of oiled vegetation and crude oil removal. Texas Brine plans to collect crude oil via physical means with skimmers, and vacuums. We will also use Air Boats to sweep the surface of the sinkhole. Texas Brine has fabricated an oil collection box that will be placed at the end of the mat road, in the water, that will assist in the collection of crude oil.

Product that is recovered will be placed into a frac tank and stored for disposal. These Frac tanks are stored near the sinkhole in an orderly fashion. The vacuum trucks that are used are inspected for leaks and drips prior to leaving the facility for disposal. Occasionally, the Long-reach boom and operator may have to go back out on the mat road to sweep in additional debris that has been swept in by the air boats. The additional debris will be handled as discussed in Phase One. As a safety precaution, the truck driver will be instructed to remain in his vehicle with on ready should any movement be observed on the sinkhole. The truck driver will remain at/in his vehicle during the loading process. A spotter will be placed in a stationary location on Well Pad # 3 to watch for any movement of trees or debris in the sinkhole. Additionally, there will be supervision of the project entire project by TBC Employees.

Texas Brine is following the advice offered by LA DNR and pursuing the use of Oil Gator, as an in-situ remediation of crude oil in hard to reach places or in marginal places where oil may have escaped the containment boom. Texas Brine will not proceed with the use of this material or other materials until approval has been issued by the lead agency on this incident. The use of any such absorbent material will be used to augment the traditional physical oil removal procedures. The proposed use of Oil Gator will not replace the use of traditional physical oil spill removal.

If any personnel or contractors are allowed onto the sinkhole, then personal air monitoring devises will be used to monitor air quality/exposure while on the siinkhole.

The safe execution of this activity is the goal of TBC. This is why every person entering the property, must wear proper PPE (Hard Hat, Long Pants, Steel Toed Boots, and Safety Glasses).

