

INCIDENT ACTION PLAN

Be brief and concise with your entries

Location Bayou Corne Sink Hole	Control Level Company Supervisory	Operational Period From 12/10/12 To 12/11/12
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<p>1.0 SITUATION Disease, community, environment</p> <p>PROMPTS: Weather, disease trends, Resources, Hazards & safety</p> <p>REFERENCE: Maps, weather reports, Sitreps, appreciation, warnings, alerts</p>	<p>CURRENT Partly Cloudy</p>
	<p>PREDICT Sunny</p>

<p>2.0 OBJECTIVES (or MISSION)</p> <p>PROMPTS: Time & space</p> <p>REFERENCE: Appreciation – control options, courses open to disease</p>	<p>CURRENT Objective 1 - Gas Monitoring:</p> <p>3 Gas Monitors have been set up in the field and are obtaining data on a continuous basis. (See Attached Map for Locations)</p> <p>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.</p> <p>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.</p> <p>Respec Mining & Energy: In-place inclinometers and tilt meter monitoring system, weekly report See Attached</p> <p>Objective 2- Elevation survey taking place once a week.</p> <p>Objective 3- Sink hole observation. See attached Map.</p> <p>Phase 2 of the remediation plan continues. We are using one vacuum truck, and three mop skimmers to remove hydrocarbons. See Attached Plan.</p>
	<p>ALTERNATE</p>

<p>3.0 EXECUTION add safety information as appropriate</p>
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<p>GENERAL OUTLINE</p>	<p>Safety Information: See Attached Safe Work Rules</p>
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<p>PROMPTS: Strategies & tactics (current/proposed/alternate)</p> <p>REFERENCE: Appreciation, Control Options</p>	<p style="text-align: center;">Reference IAP dated 8/9/12</p> <p>Additional to our Safe Work Rules for this project we are adding the awareness of insects, reptiles and animals.</p> <p>Inspect location for flammability</p> <p>Daily Safety Meetings</p> <p>PPE Required on site: Respirator w/ VOC Cartridge, Gloves for sampling, eye protection, life preservers, hearing protection.</p>
<p>GROUPINGS</p>	<p>NA</p>
<p>TASKS Including PR & Media</p>	<p>Same as above</p>
<p>COORDINATING INSTRUCTIONS</p> <p>PROMPTS: Timings, routes, assembly areas, staging areas</p>	<p>Texas Brine Grand Bayou Facility will be used as staging area.</p>
<p>4.0 ADMINISTRATION (Logistics support)</p> <p>PROMPTS: Unit names, locations, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised, stand by, enroute)</p>	
<p>SUPPLY WHO, WHAT, WHERE, WHEN of resources not readily available</p>	<p>NA</p>
<p>GROUND SUPPORT Transport of personnel, traffic mgt, refuelling, mechanical repair/maintenance</p>	<p>NA</p>
<p>COMMUNICATIONS Installation, maintenance, technical advice</p>	<p>Cell Phone & Landline Communications:</p> <p>Kenneth Blanchard – Area Manager – 985- [REDACTED] (985- [REDACTED]) kblanchard@texasbrine.com</p> <p>Scott Borne – Facility Manager – 985- [REDACTED] (985- [REDACTED]) sborne@texasbrine.com</p> <p>Joel Miller, PE – Consultant – 337- [REDACTED] (337- [REDACTED]) joel.miller@cox-internet.com</p>

	<p>Bruce Martin – Operations/PR – 713- [REDACTED] (281 [REDACTED]) bmartin@texasbrine.com Mark Cartwright – Technical/Engineering – 713- [REDACTED] (281- [REDACTED]) mcartwright@unitedbrine.com Scott Whitelaw – Environmental/Safety – 713- [REDACTED] (713- [REDACTED]) swhitelaw@tum.com</p>
<p>STAGING AREA/ FCP Setting up, communications, staffing</p>	<p>Texas Brine Grand Bayou Facility 1301 Hwy 70 South, Belle Rose, La 70341</p>
<p>5.0 ADMINISTRATION (Logistics services)</p> <p>PROMPTS: Unit names, locations, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised, stand by, enroute)</p>	
<p>FACILITIES Security, waste, cleaning</p>	<p>NA</p>
<p>CATERING</p>	<p>NA</p>
<p>OH&S/MEDICAL Medical plan, first aid plan</p>	<p>Call 911</p>
<p>FINANCE</p>	<p>NA</p>
<p>TRAVEL</p>	<p>NA</p>
<p>INDUCTION/ TRAINING</p>	<p>NA</p>
<p>ACCOMMODATION</p>	<p>NA</p>
<p>6.0 CONTROL, COORDINATION & COMMUNICATION</p>	
<p>CONTROL & COORDINATION STRUCTURE</p> <p>REFERENCE</p>	<p>Plant Management Supervision / Contractor Work</p>

Structural Chart	
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	Site Map Current Weather Safe Work Rules
Plan developers PROMPTS PO, Logs Mgr, Controller	NA
Approval Controller, Ops Director	TBC Company Rep: <i>[Signature]</i> FOSC: SOSC: POSC:

MILLER ENGINEERS & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
FRANKLIN, LA.

OXY #5 MONUMENT

1" = 400'

NOTE:
PROPERTY & LEASE LINES ARE APPROXIMATE ONLY.
THIS SKETCH DOES NOT REPRESENT A PROPERTY
BOUNDARY SURVEY.

OXY #4 MONUMENT

APPROX. EDGE
OF SLURRY PIT
8/4/12

TB
WATER SAMPLES

WELL 1

TANK "W"

TANK "E"

T.B.M. 1

WATER WELL 1

T.B.M. 3A

WATER WELL 2

T.B.M. 3C

WATER WELL 5

T.B.M. 2

WELL 3

T.B.M. 3

WELL 2

T.B.M. 5

T.B.M. 3B

TBC LEASE LINE

WELL 9

GPS BASE

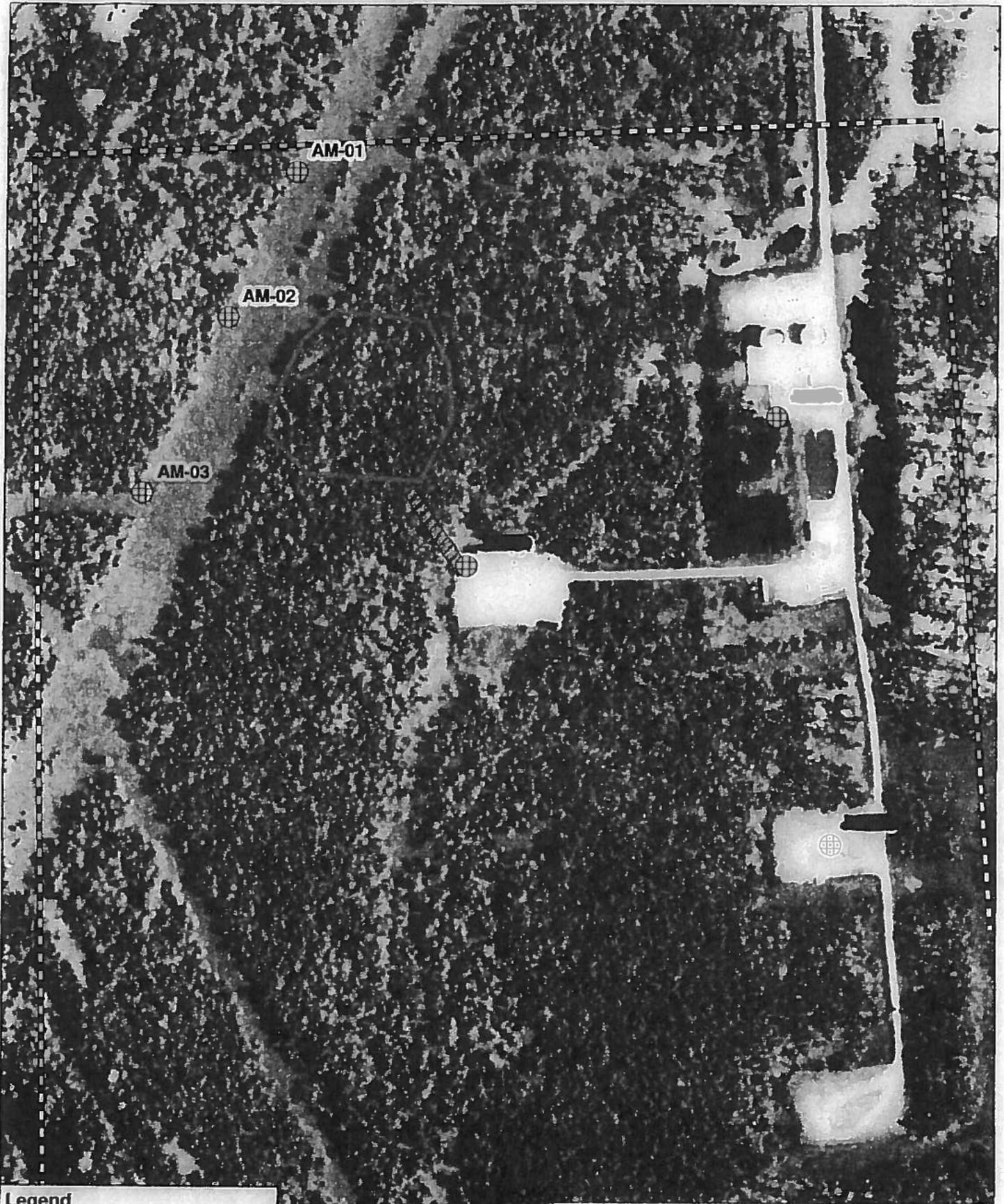
WELL 10

REFERENCE PT.

OXY GPS #4

T.B.M. 4





Legend

-  Air Monitoring Stations (2012.08.17)
-  Board Road
-  Approximate Property Line
-  Sinkhole Extents (2012.08.14)



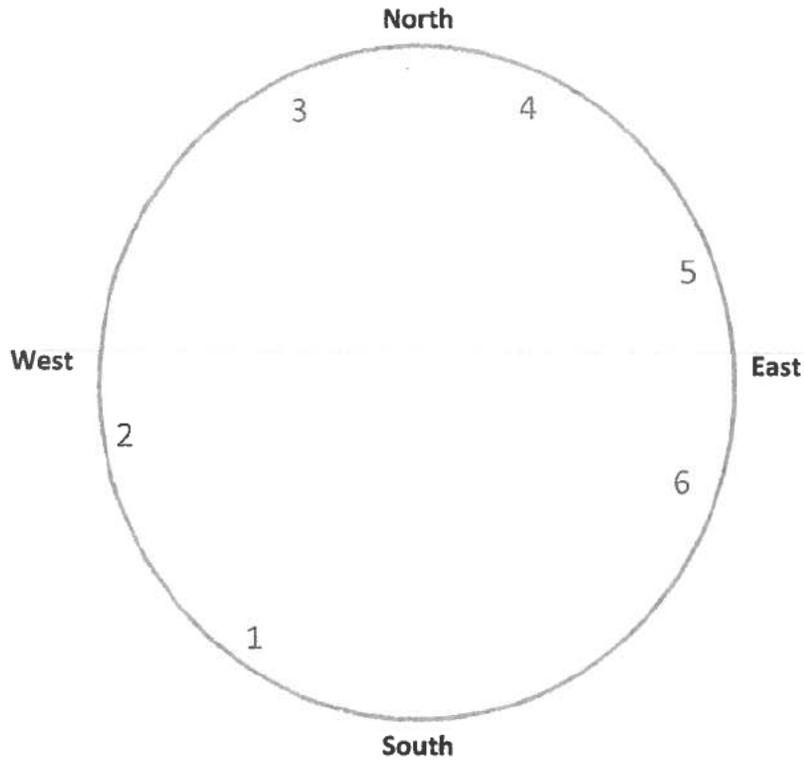
Texas Brine Air Monitoring Locations
8/17/2012 - current

Bayou Corne Sinkhole

Revised: 11/7/12

Date and Time: 12/9/12

	Time	Time	Time	Time
	9:00pm			
Tree 1	X			
Tree 2	✓			
Tree 3	✓			
Tree 4	✓			
Tree 5	✓			
Tree 6	✓			



Ashwa Bayou Camp

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:

1. 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.

If any personnel or contractors are allowed onto the sinkhole, then air monitoring devices will be used to monitor the levels of VOC's on the site.

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).

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 o 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

December 10, 2012

Mr. Bruce Martin
Vice President of Operations
Texas Brine Company, LLC
4800 San Felipe
Houston, TX 77056

Dear Mr. Martin:

**RE: In-Place Inclinometer, Tiltmeter, and Water-Level Monitoring System,
Napoleonville Dome Weekly Report: December 1 Through December 7, 2012**

RESPEC is pleased to submit this weekly report on the in-place inclinometer (IPI), tiltmeter, and water-level monitoring system installed around the sinkhole located near the western flank of the Napoleonville Dome, Assumption Parish, Louisiana. Water level data in this report and the attached Excel file are submitted in response to Directive #5 contained in the October 11, 2012, Third Amendment to Declaration of Emergency and Directive from the Department of Natural Resources Office of Conservation.

Monitoring locations are illustrated in Figure 1. Graphs illustrating the tilt data, as recorded by each instrument, are provided in Figures 2 through 4. The IPI data for the X-directions and Y-directions are plotted separately in Figures 2 and 3, respectively. The tiltmeter data for both the X- and Y-directions are plotted in Figure 4. A condition reflecting no changes in ground movement plots as a horizontal line on these graphs. Note that the instruments installed are very sensitive; they can measure ground tilt to less than 1/100 of a degree. Alarm levels are set at ± 1.0 degree for all inclinometers and ± 0.5 degree for all tiltmeters.

IPI-3 recorded slight tilt (0.017 degree) toward the sinkhole on December 1, 2012, around 16:15. No other inclinometers recorded any anomalies at this time. Pad 3 tiltmeter recorded abnormal fluctuations during daylight hours on December 1 through December 4, which correlate with on-site activities related to drilling near the tiltmeter. Water levels measured at IPI-2 and southwest of Pad 3 are shown in Figure 5; an Excel file with this data is attached.

Sincerely,



Eric L. Krantz, P.E.
Engineer

ELK:llf

cc: Mr. Mark Cartwright, Texas Brine Company, LLC
Mr. Scott Borne, Texas Brine Company, LLC
Project Central File 2153 — Category A

RSI-2153-12-060



Sinkhole survey data provided by Joel Miller & Associates. Survey date 10/30/12.

Figure 1. Monitoring Locations.

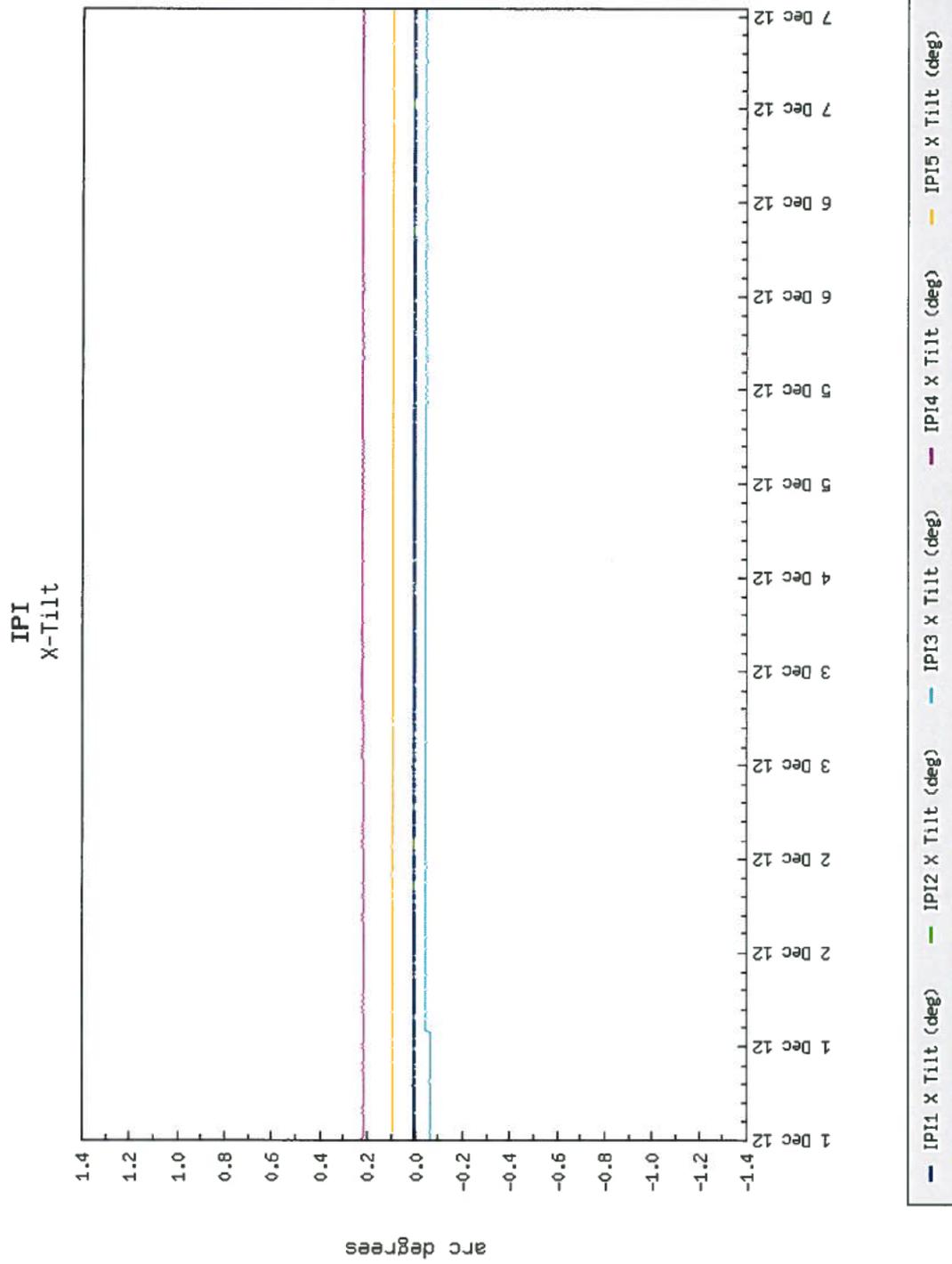


Figure 2. Inclinometer X-Direction Temporal Trends.

RSI-2153-12-062

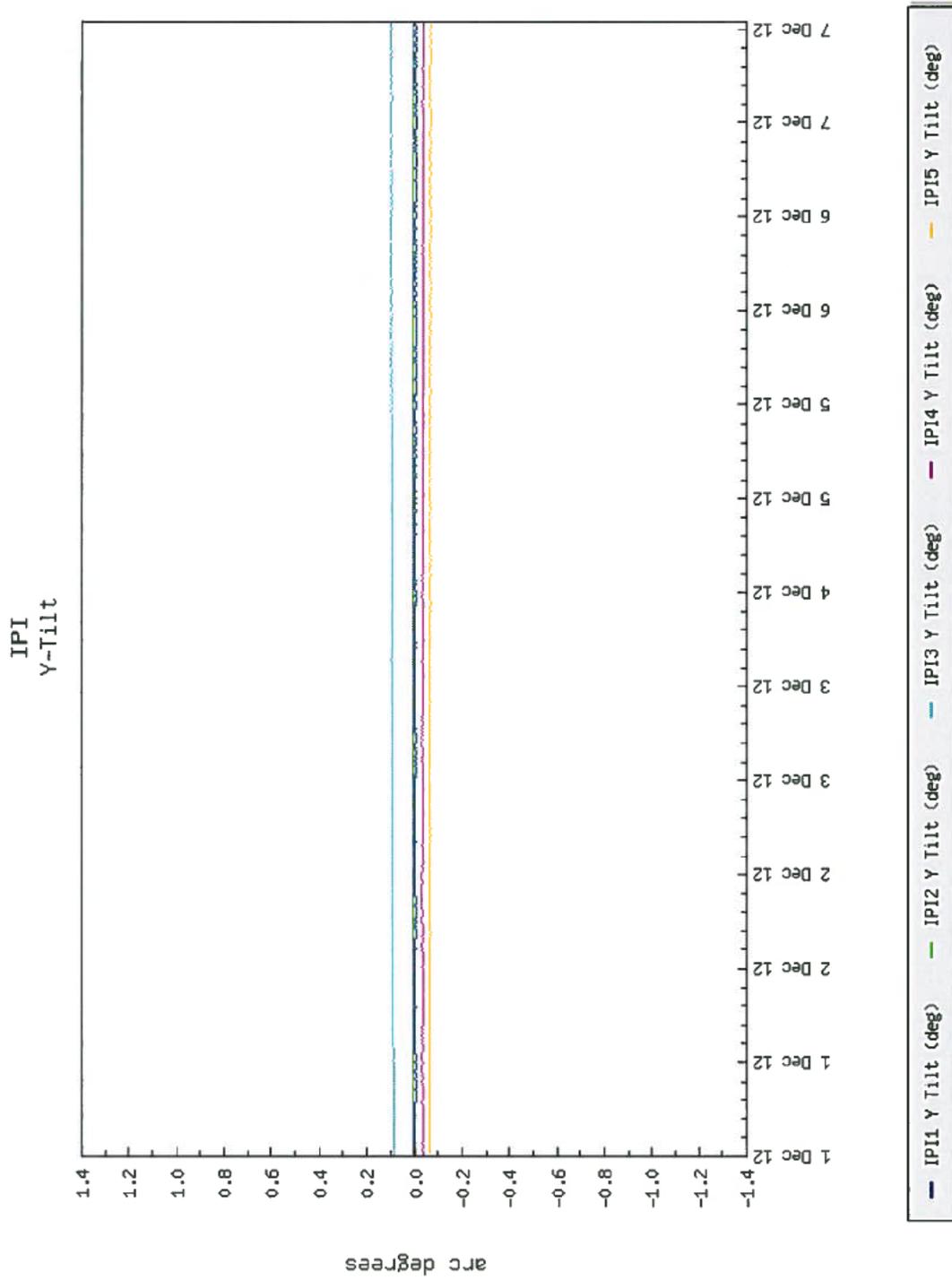


Figure 3. Inclinometer Y-Direction Temporal Trends.

RSI-2153-12-063

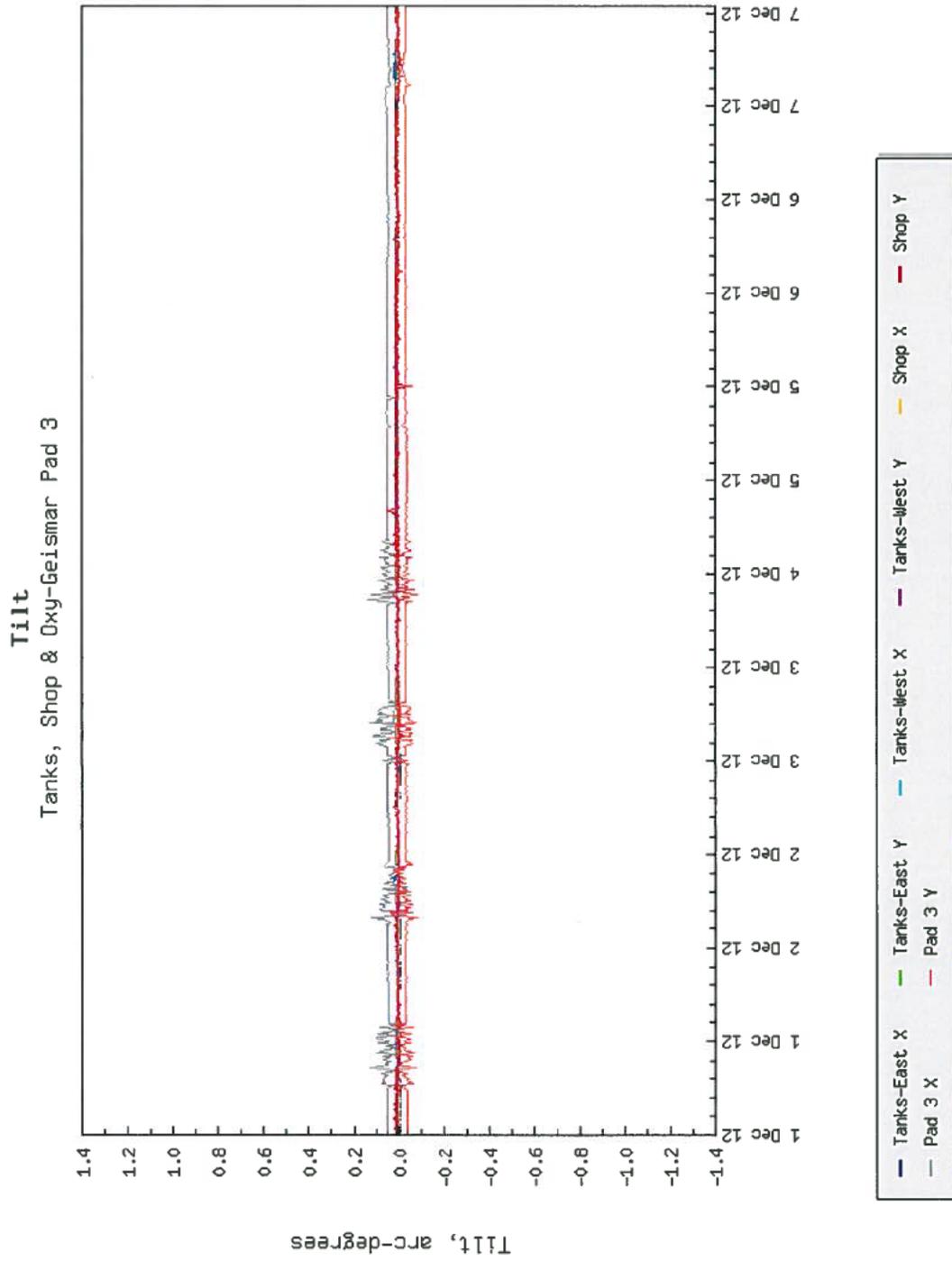


Figure 4. Tiltmeter Temporal Trends.

RSI-2153-12-064

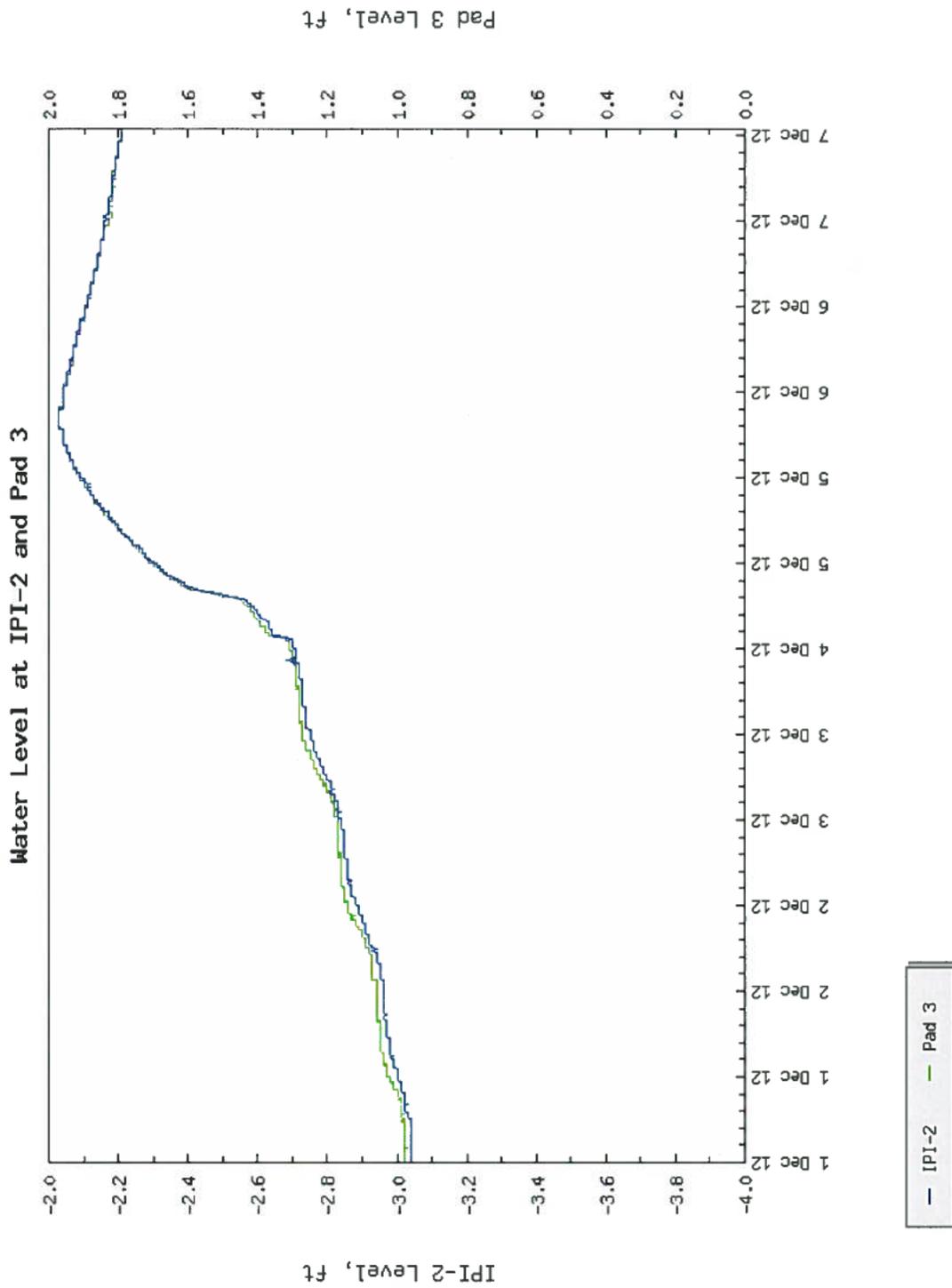
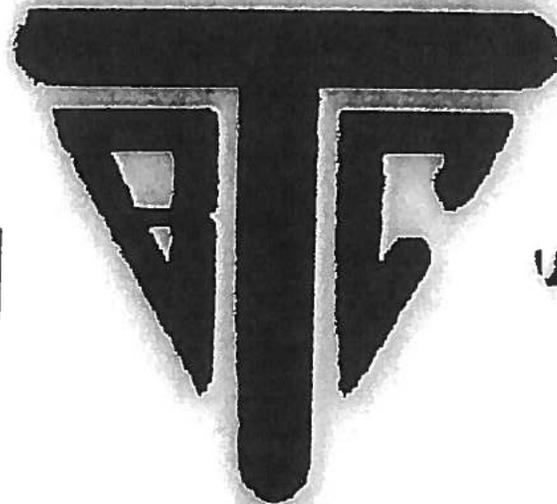


Figure 5. Water Level Temporal Trends.

TEXAS BRINE COMPANY, LLC AND AFFILIATED COMPANIES

Safe Work Practices

UNDERGROUND
STORAGE, LLC



UNITEDBRINE

UNITEDBRINE

TEXAS BRINE COMPANY, LLC

UNIVERSITY MICROFILMS



Version
1.1

Universal Time:

68°F Belle Rose, Louisiana ▾

Enter City, State, Country or U.S. Zip code or Airport Id Local Weat

Local National Global Storms Health Travel Community Forecast Current Radar Satellite wxMap iNav

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Belle Rose, Louisiana

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Current Conditions - °F °C		As of 7:20 AM on Monday 10 Dec 2012 (Local Time) from KBTR Reporting Station										
Heavy Rain Wind Chill: NA Heat Index: 68° Dew Point: 66° Humidity: 94% Pressure: 29.8"	68°F Feels Like: 68° Ceiling: 4300 Visibility: 4mi Wind: NA Direction: NA NA Gusts: NA	Today's Forecast										
		Local Information Severe Weather Alert! View current alerts »										
Report Text: KBTR 101320Z 4SM +RA BR FEW009 BKN043 OVC090 20/19 A2980 RMK AO2 TSE16 P0017 View Detailed Observations for the last 48 Hours · 14 Days		<table border="1"> <tr> <td>8 AM</td> <td>T-Storms </td> <td>68°</td> </tr> <tr> <td>9 AM</td> <td>T-Storms </td> <td>67°</td> </tr> <tr> <td>10 AM</td> <td>T-Storms </td> <td>66°</td> </tr> </table>		8 AM	T-Storms	68°	9 AM	T-Storms	67°	10 AM	T-Storms	66°
8 AM	T-Storms	68°										
9 AM	T-Storms	67°										
10 AM	T-Storms	66°										
		View Complete Hourly Forecast »										
		Radar · Satellite · Surface Analysis										

10 Day Forecast - °F °C										View the Detailed Extended Forecast »	
mon	tue	wed	thu	fri	sat	sun	mon	tue	wed		
dec 10	dec 11	dec 12	dec 13	dec 14	dec 15	dec 16	dec 17	dec 18	dec 19		
71° 40°	56° 38°	61° 35°	64° 41°	68° 55°	73° 54°	70° 48°	68° 48°	64° 45°	66° 50°		
Details for Monday, December 10 Thunderstorms this morning, then mainly cloudy during the afternoon hours. A few storms may be severe. High 71F. WSW winds shifting to NNW at 10 to 20 mph. Chance of rain 80%. Evening: Partly cloudy skies early will give way to cloudy skies late. Low near 40F. Winds N at 10 to 15 mph.											
UV Index: 2 (Low)		Relative Humidity: 81%		Precipitation: 80%		Snow: 0%		Cloud Coverage: 77%			
Sunrise: 6:49 AM Sunset: 5:05 PM		Moonrise: 3:41 AM Moonset: 2:47 PM		Moonphase: Waning Crescent		Direction: WNW (287°) Speed: 15Mph(24Km, 13Kts)					

Daily Forecast Chart Chart Options: [Temperature](#) ▾