

INCIDENT ACTION PLAN

Be brief and concise with your entries

Location Bayou Corne Sink Hole	Control Level Company Supervisory	Operational Period From 6/18/13 To 6/19/13
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<p>1.0 SITUATION</p> <p>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 Mostly sunny</p> <hr/> <p>PREDICTION Partly cloudy. 20% chance of precipitation. High Temperature near 90.</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</p> <p>Objective 1 - Demonstrating sinkhole containment and determining if additional sinkholes could form.</p> <p>Objective 2 - Locating and mitigating the risk posed by the presence of shallow gas.</p> <p>Objective 3 - Confirming the broader stability of the Napoleonville Salt Dome.</p> <p>Current Actions: (For planning purposes only, all activities are subject to change.)</p> <p><u>ORW Wells/ROI Wells</u></p> <ul style="list-style-type: none"> - Pump ORW 17 and 18 - Conduct daily well readings and flare maintenance - Re-perforate ORW 21 - Install tubing in ORW 21 - Change out orifice plates on ORWs <p><u>CPT Well</u></p> <ul style="list-style-type: none"> - Advance and complete CPT 22 on north access road to sinkhole <p><u>Under-slab Installation/Monitoring</u></p> <ul style="list-style-type: none"> - Conduct vapor monitoring of 116 and 135 Crawfish Stew Street <p><u>Containment Berm/Roads/Sinkhole</u></p> <ul style="list-style-type: none"> - Place sand on Rig Road between ORW 7 and ORW 5 - Continue building pad in preparation for drilling ORW 38 (north of BC-2) - Continue placement of GCL and clay on east containment berm - Stockpile clay and sand. <p><u>Instrumentation</u></p> <ul style="list-style-type: none"> - Install instruments and equipment at sites #10, #35, #48, #60; Install resistors at site #39 and bring on-line. - Continue programming communications network <p><u>Expected Actions (Next 24 Hours):</u></p> <ul style="list-style-type: none"> - Continue dewatering activities

	<ul style="list-style-type: none"> - Continue CPT operations - Continue placement of GCL and clay along east containment berm - Change out orifice plates - Install ORW 38 - Conduct daily well readings and flare maintenance
	<p>Sinkhole Activity – Code 2</p>
<p>3.0 EXECUTION add safety information as appropriate</p>	
<p>GENERAL OUTLINE</p> <p>PROMPTS: Strategies & tactics (current/proposed/alternate)</p> <p>REFERENCE: Appreciation, Control Options</p>	<p>Safety Information: See Attached Safe Work Rules 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</p>	<p>NA</p>

available	
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/ TRAINING	NA

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: Tuesday, 18 Jun 2013

90°F

76°F

Sky Conditions: Partly Cloudy

Sunrise: 6:03 AM **Sunset:** 8:08 PM

Wind: SW (221°) @ 12Mph





Precipitation Probability: 20%



[View your complete Local Weather »](#)

□

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

Wednesday 19 Jun 2013	Thursday 20 Jun 2013	Friday 21 Jun 2013	Saturday 22 Jun 2013
			
Scattered Thunderstorms	Scattered Thunderstorms	Isolated Thunderstorms	Isolated Thunderstorms
90°F 75°F	90°F 75°F	90°F 75°F	89°F 74°F

Detailed Forecast

Today:

Intervals of clouds and sunshine. A stray afternoon thunderstorm is possible. High around 90F. Winds SW at 10 to 15 mph.

Tonight:

A few clouds from time to time. Low 76F. Winds SW at 5 to 10 mph.

Tomorrow:

Scattered thunderstorms possible. Highs in the low 90s and lows in the mid 70s.

June 17, 2013

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

Dear Mr. Martin:

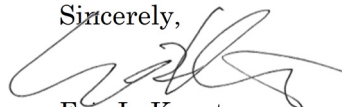
RE: In-Place Inclinator, Tiltmeter, and Water-Level Monitoring System, Napoleonville Dome Weekly Report: June 8, 2013 Through June 15, 2013

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. IPI and tiltmeter data are also attached as Excel files.

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 1/1,000 of a degree. Inclinometer alarm levels are set at ± 1.0 degree and tiltmeter alarms are set at ± 0.5 degree. Figure 5 shows water-level temporal trends at the IPI-2 and Rig Access Road transducers. Figure 6 shows water-level temporal trends at the Pad 3 and Rig Road transducers.

IPI-4 and IPI-5 became submerged and communication with the instruments was lost at 13:00 on May 10 because of a breach in the western berm after a heavy rainstorm. Equipment housings were still below water level during the subsidence event on June 4, and the equipment and housings sank several feet as a result. Inclinometers and housings at IPI-4 and IPI-5 are currently too far underwater to be safely retrieved and may be lost.

Sincerely,



Eric L. Krantz
Engineer

ELK:llf

Enclosure

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

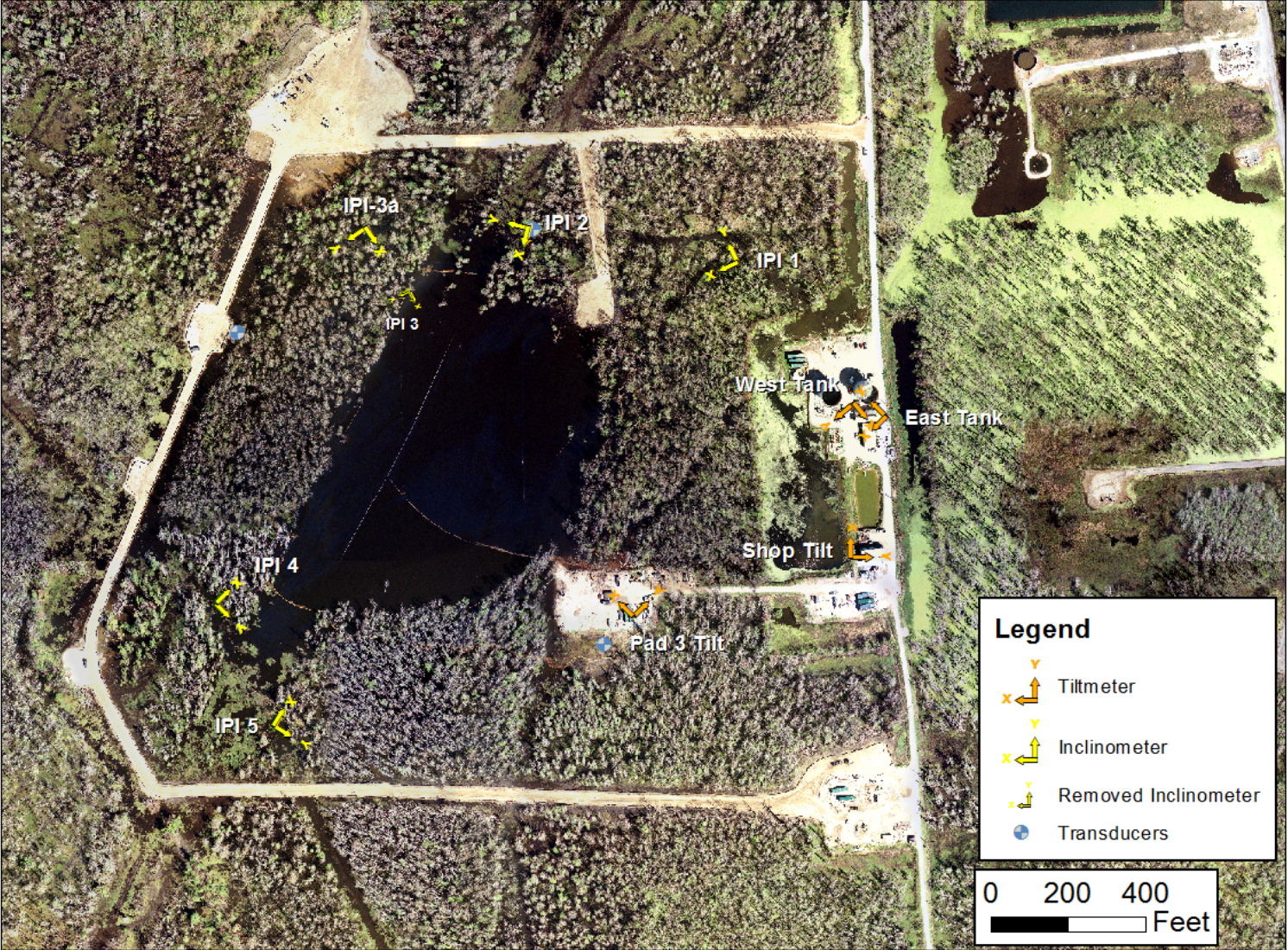


Figure 1. Monitoring Locations.

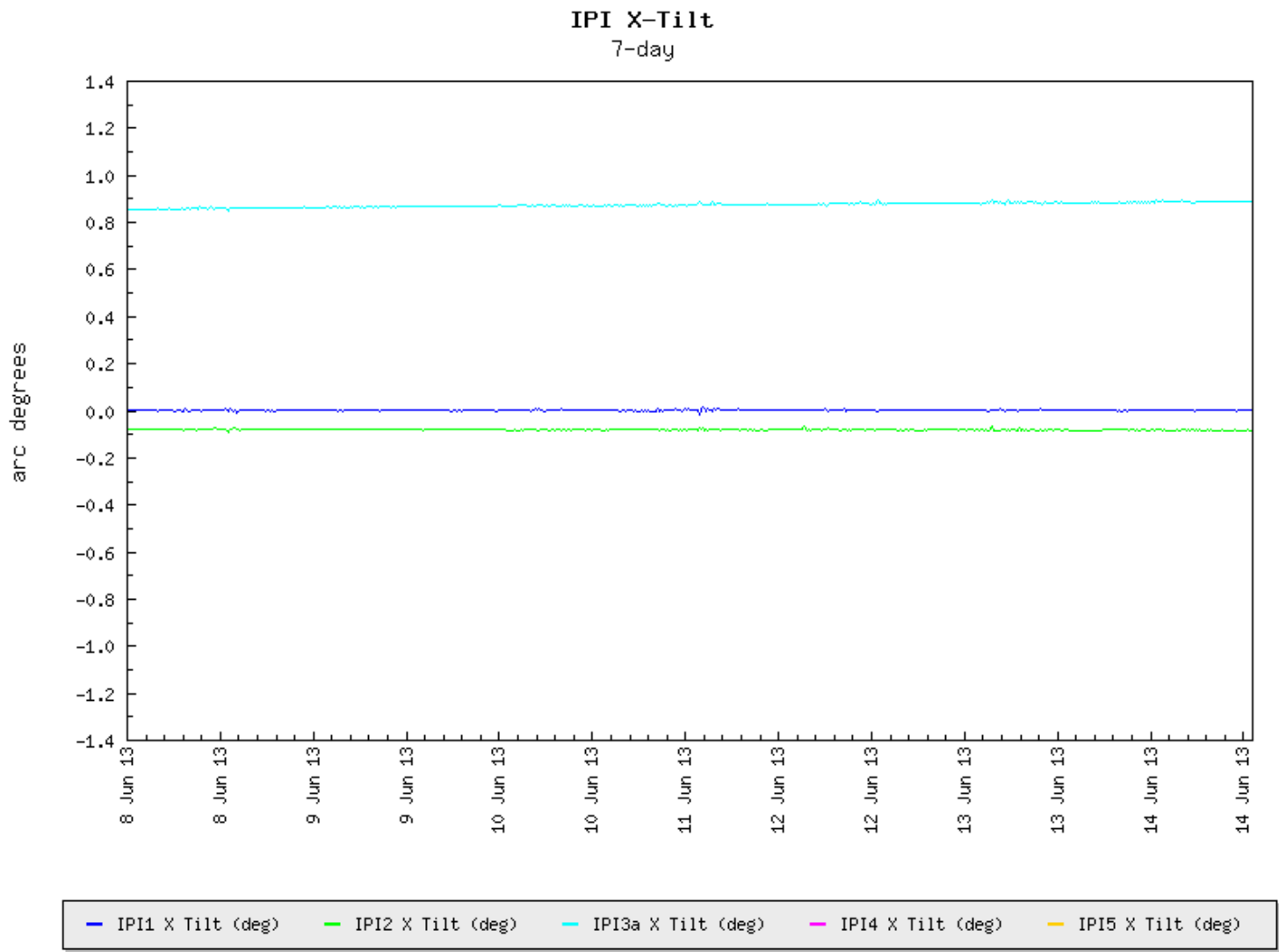


Figure 2. Inclinometer X-Direction Temporal Trends.

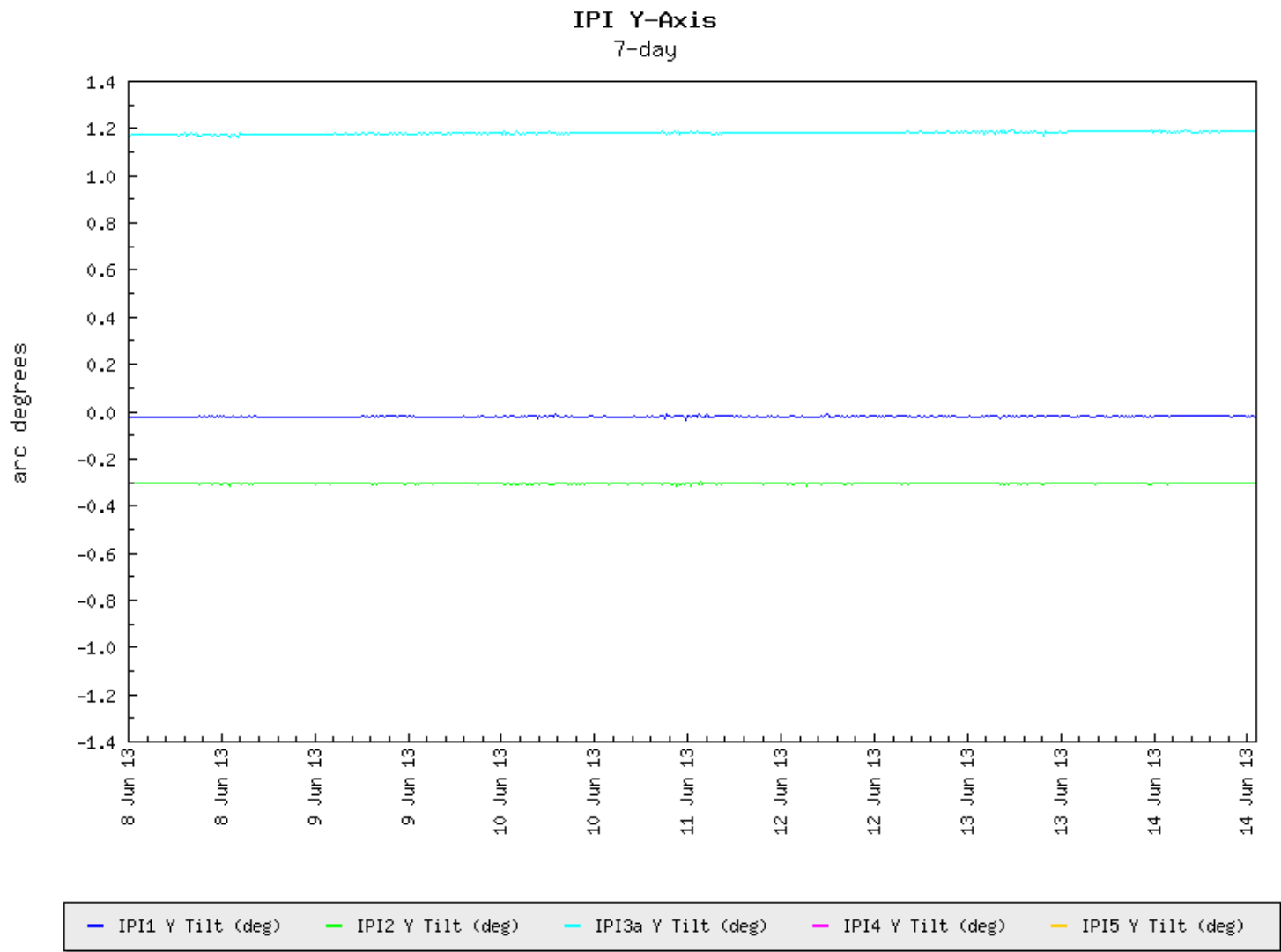


Figure 3. Inclinometer Y-Direction Temporal Trends.

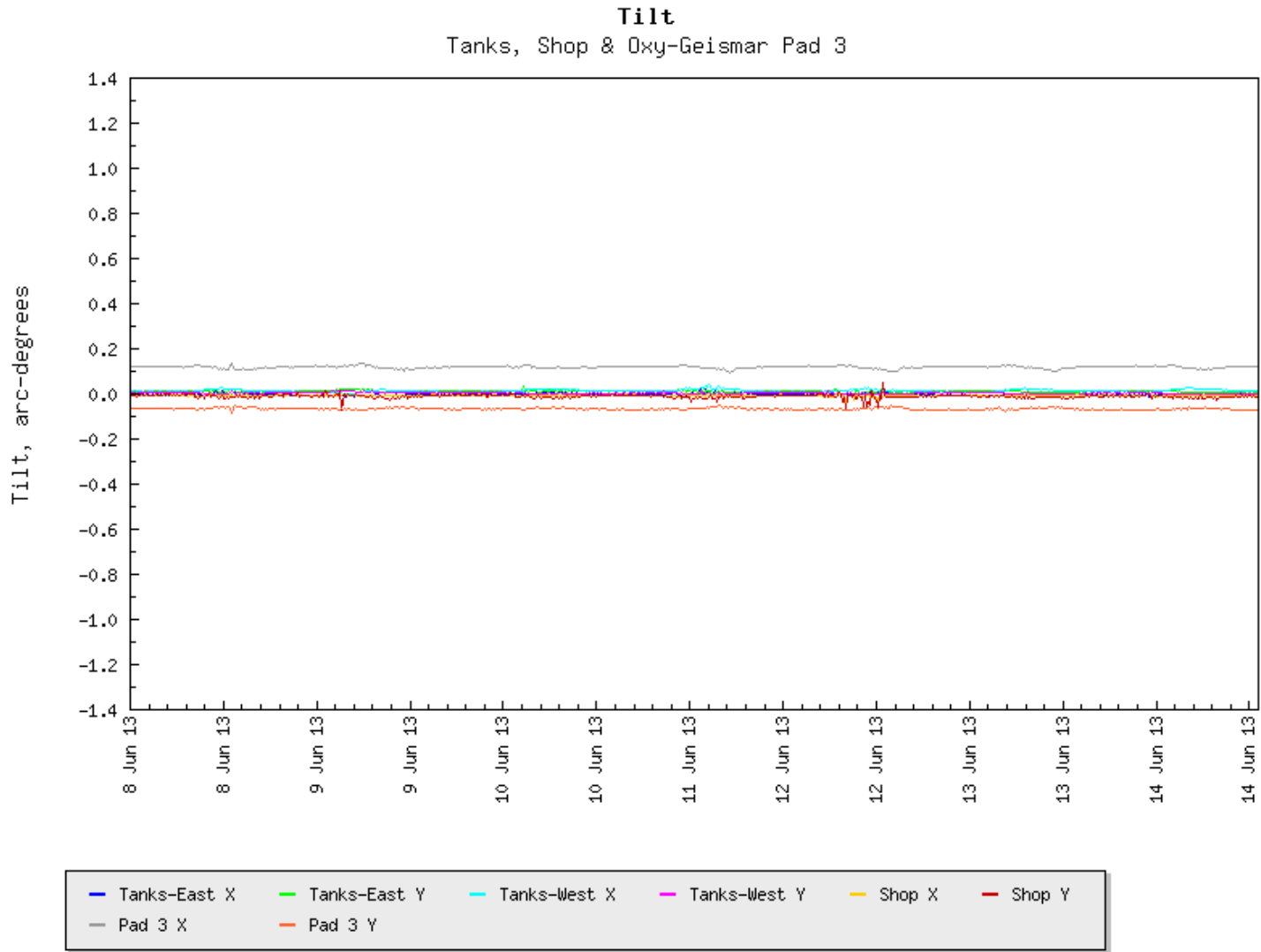


Figure 4. Tiltmeter Temporal Trends.

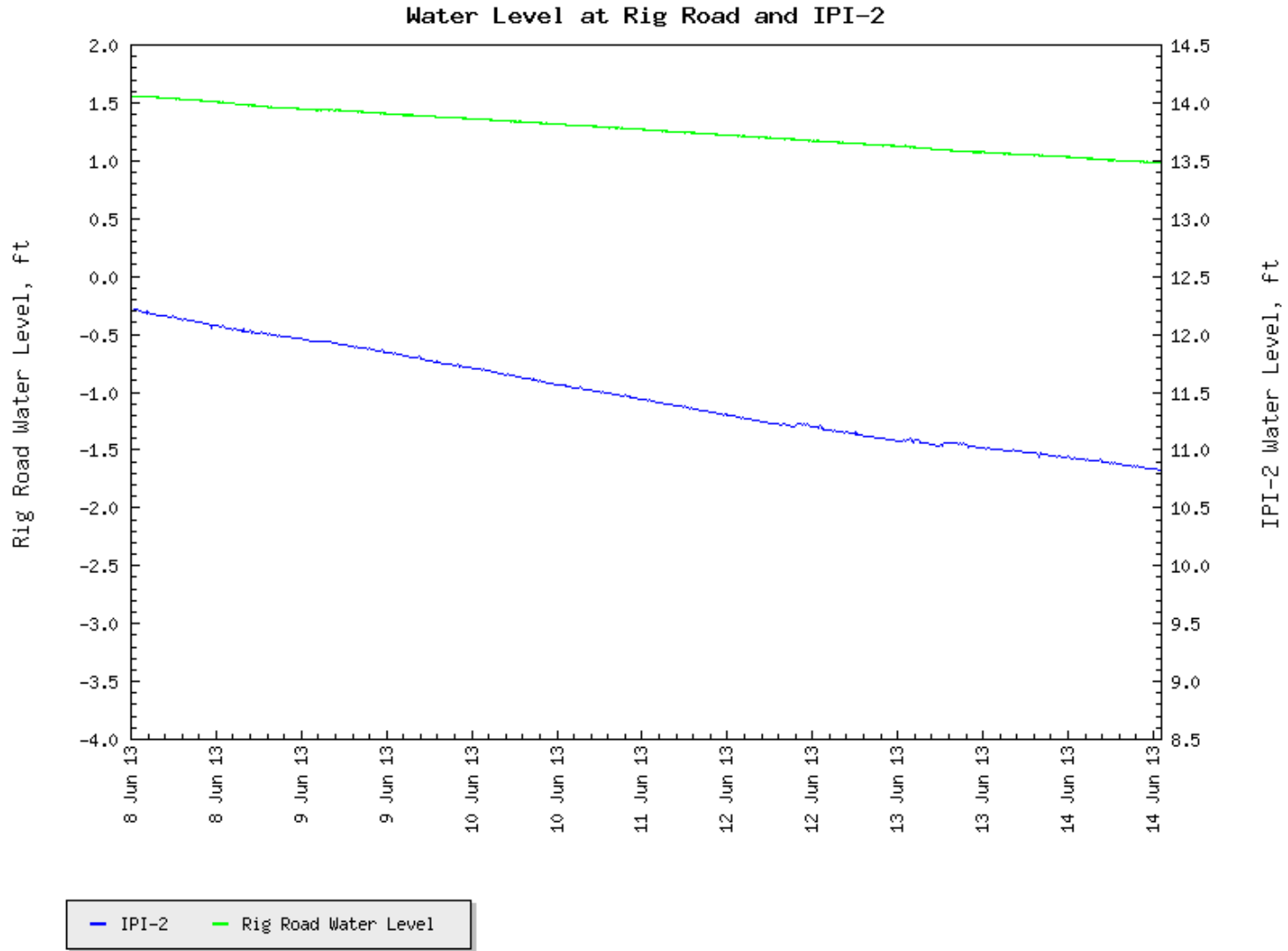


Figure 5. Water-Level Temporal Trends Showing Rig Access Road Data and IPI-2 Data.

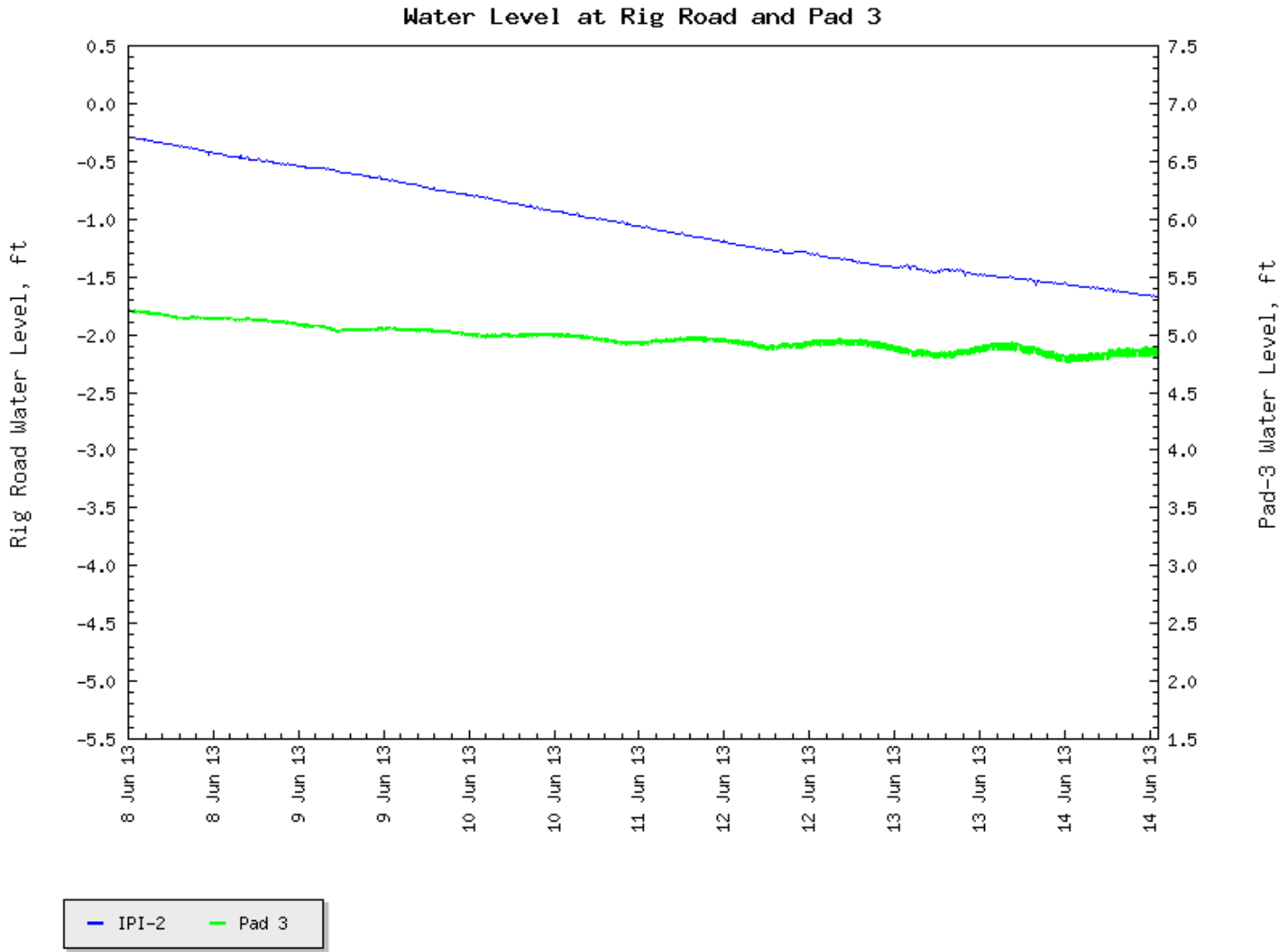


Figure 6. Water-Level Temporal Trends Showing Rig Access Road Data and Pad 3 Data.