INCIDENT ACTION PLAN

Be brief and concise with your entries

Location Bayou Corne Sink Hole	Control Level Company Supervisory	Operational Period From 4/23/13 To 4/24/13

1.0 SITUATION

Disease, community, environment

PROMPTS:
Weather, disease trends, Resources, Hazards & safety

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

CURRENT
Partly Cloudy

PREDICTION
Partly cloudy all day. 20% chance of precipitation. High Temperature near 81.

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 sinkhole. Operations are at Code 3 on the sinkhole.**

ALTERNATE

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 – 985-[redacted] (985-[redacted]** **kblanchard@texasbrine.com** **Scott Borne – Facility Manager – 985-[redacted] (985[redacted]** **sborne@texasbrine.com** **Joel Miller, PE – Consultant – 337-[redacted](337-[redacted] joel.miller@cox-internet.com** **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
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	**NA**

Local knowledge, police, agency reps, emergency mgt reps	
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, 23 Apr 2013

81°F
65°F

Sky Conditions: Partly Cloudy
Sunrise: 6:29 AM **Sunset:** 7:37 PM
Wind: SE (143°) @ 12Mph
Precipitation Probability: 20%

View your complete Local Weather »

Extended Forecast Full 10-Day Forecast »

Wednesday	Thursday	Friday	Saturday
24 Apr 2013	25 Apr 2013	26 Apr 2013	27 Apr 2013
			
Thunderstorms	Showers	Partly Cloudy	Isolated Thunderstorms
80°F	76°F	80°F	82°F
59°F	62°F	66°F	66°F

Detailed Forecast

Today:
Partly cloudy skies. High 81F. Winds SE at 10 to 15 mph.
Tonight:
Partly cloudy during the evening followed by cloudy skies overnight. Low around 65F. Winds SE at 5 to 10 mph.
Tomorrow:
Showers and thunderstorms. Highs in the low 80s and lows in the upper 50s.

April 23, 2013

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: April 13, 2013, Through April 19, 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 letter 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, and graphs that illustrate 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, and 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.

Tilt readings from inclinometers IPI-3, IPI-4, and IPI-5 showed accelerated tilt this week. Tilt rates in both the *X*- and *Y*-direction stabilized on April 17 between 21:00 and 23:00; however, IPI-4 data also shows another small change in tilt of approximately 0.02 degree towards the sinkhole on April 18 at 6:15. Tilt direction was generally toward the sinkhole or the subsidence area west of the sinkhole. IPI-1, IPI-2, and the tiltmeters at the tanks and the shop did not show changes in tilt beyond normal daily fluctuations. Tilt measured at Pad 3 appears to have increased approximately 0.01 degree toward the west late on April 18; however, this amount is within the magnitude of normal daily tilt fluctuations.

Figure 5 depicts water-level temporal trends at the IPI-2 and Rig Road transducers. Water levels with respect to zero datum at 12 a.m. on April 13, 2013, are depicted in Figure 6. Rig Access Road shows relative 0.1-foot subsidence with respect to IPI-2 through approximately 22:00 on April 17. At this time, sinkhole sloughing and/or burping events may have affected water levels until approximately noon on April 19, and subsidence may have been taking place

at the IPI-2 transducer. Figure 7 illustrates the difference in water levels between the Rig Access Road transducer and the IPI-2 transducer. Apparent subsidence rates at Rig Access Road are relatively constant through April 13. As sand was added to the Rig Access Road berm between April 11 and April 16, the extra weight may have caused a slight increase in subsidence rates near the Rig Access Road transducer around April 14. The subsidence may be from the compaction of soft, saturated clays in the soil horizons supporting the Rig Access Road berm.

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

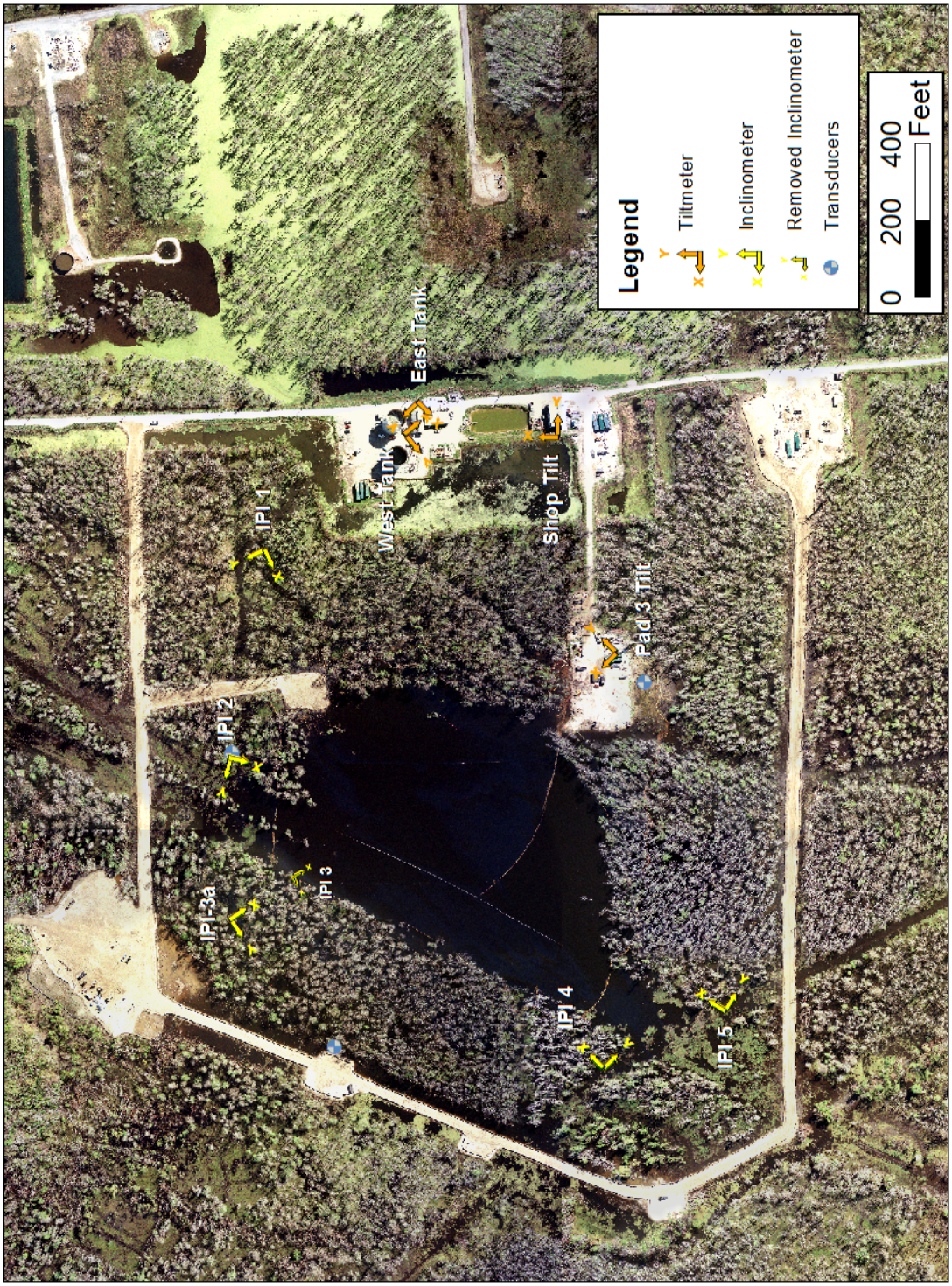

Figure 1. Monitoring Locations.

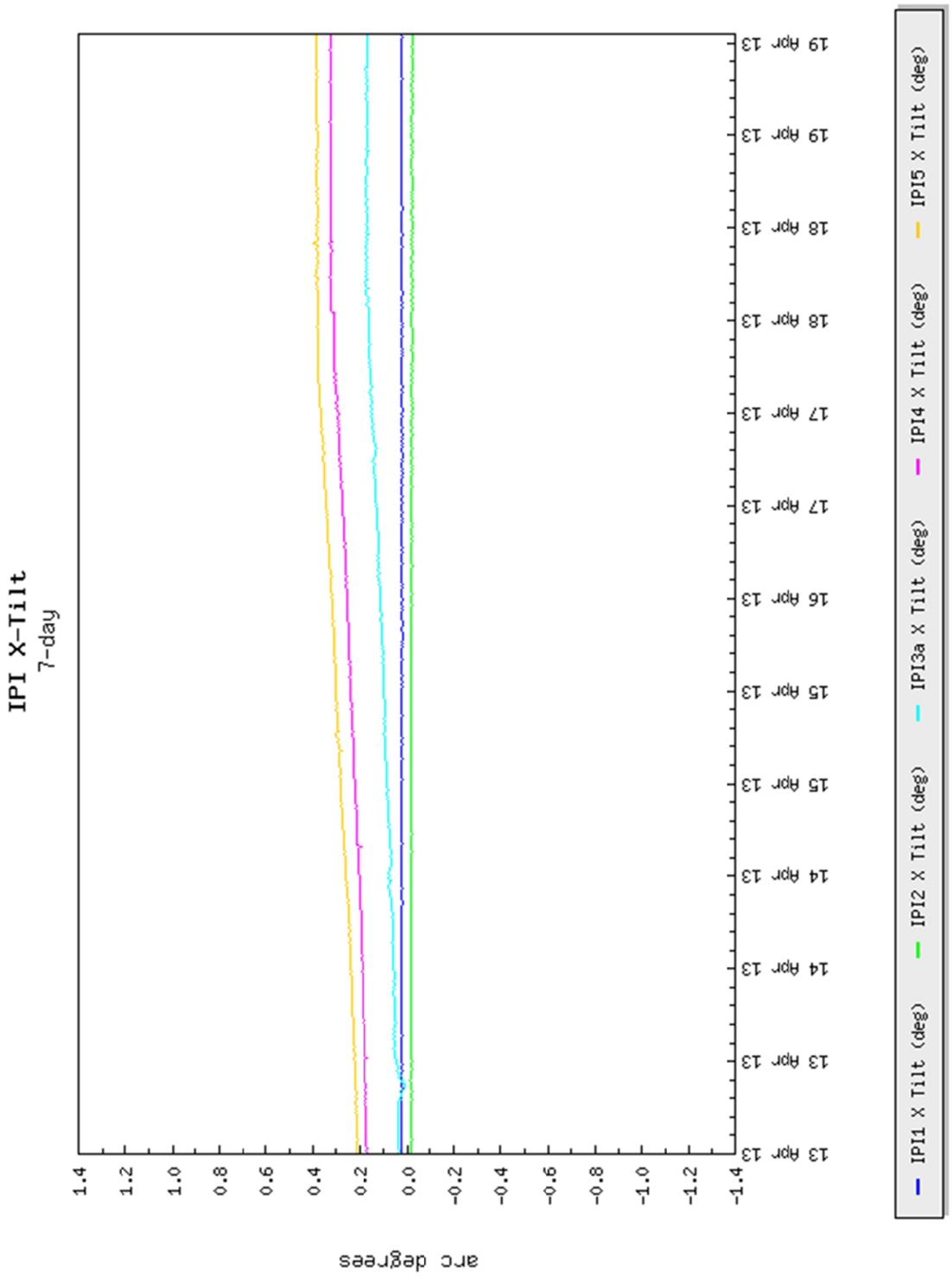

Figure 2. Inclinometer *X*-Direction Temporal Trends.

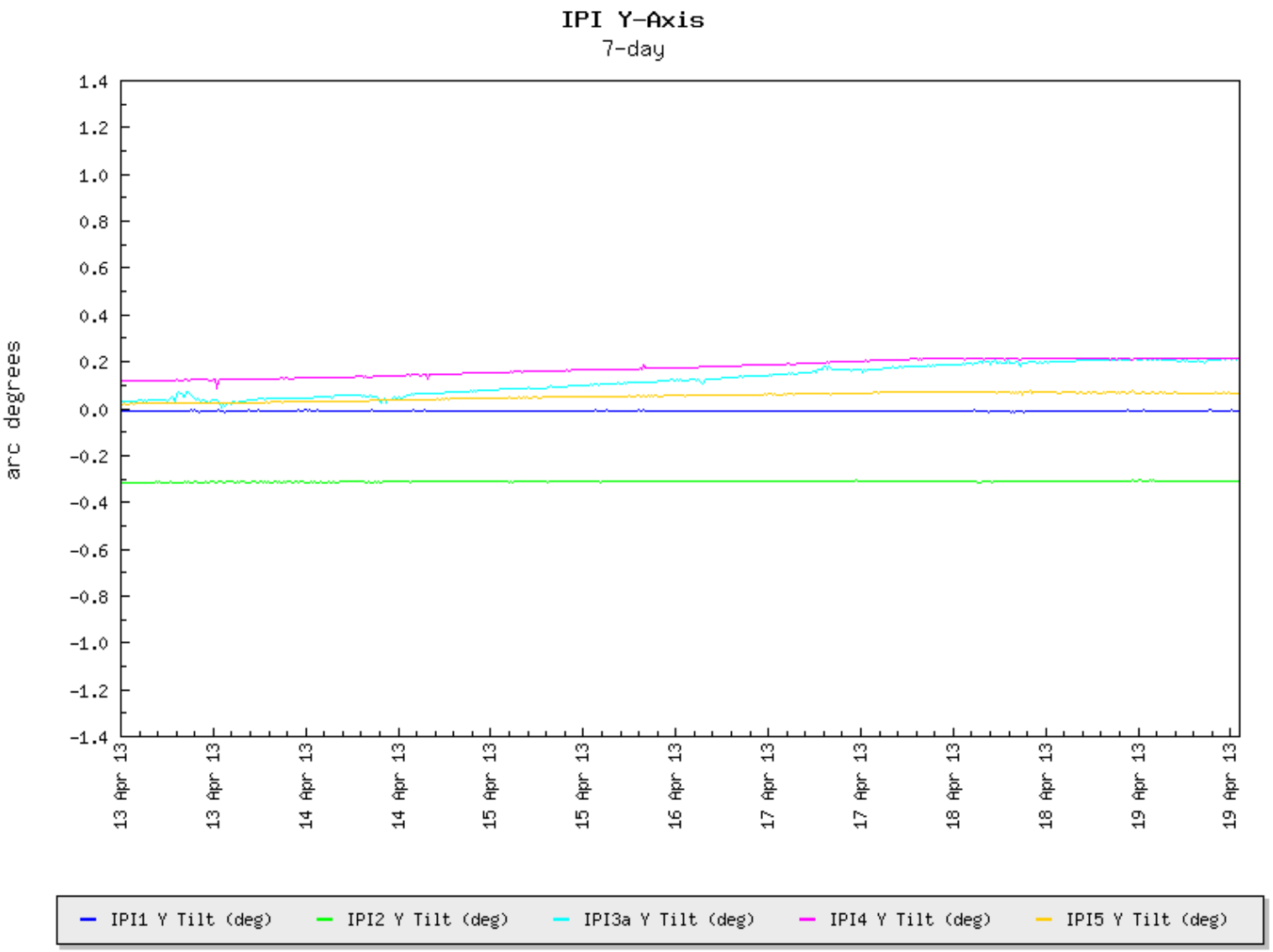

Figure 3. Inclinometer *Y*-Direction Temporal Trends.

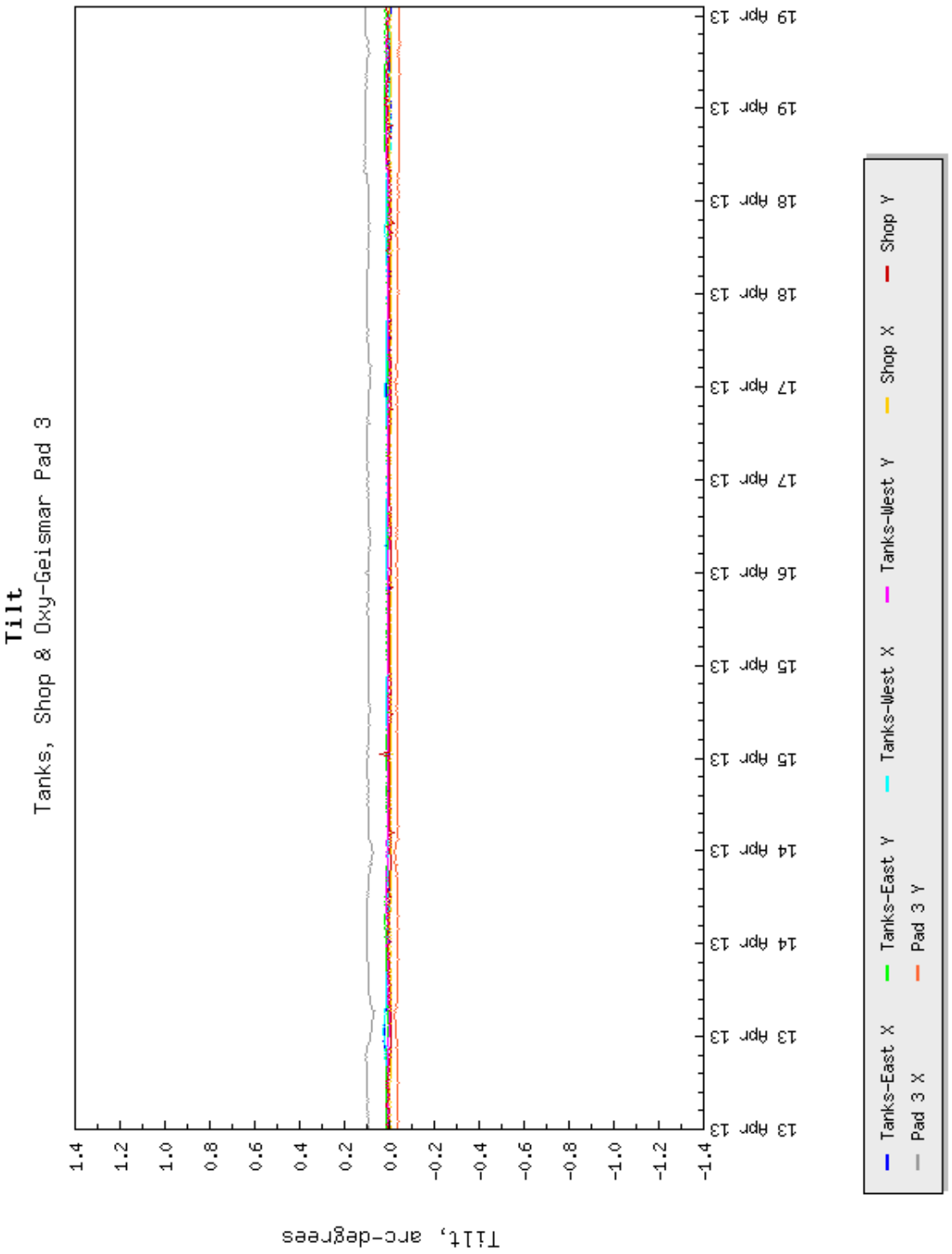

Figure 4. Tiltmeter Temporal Trends.

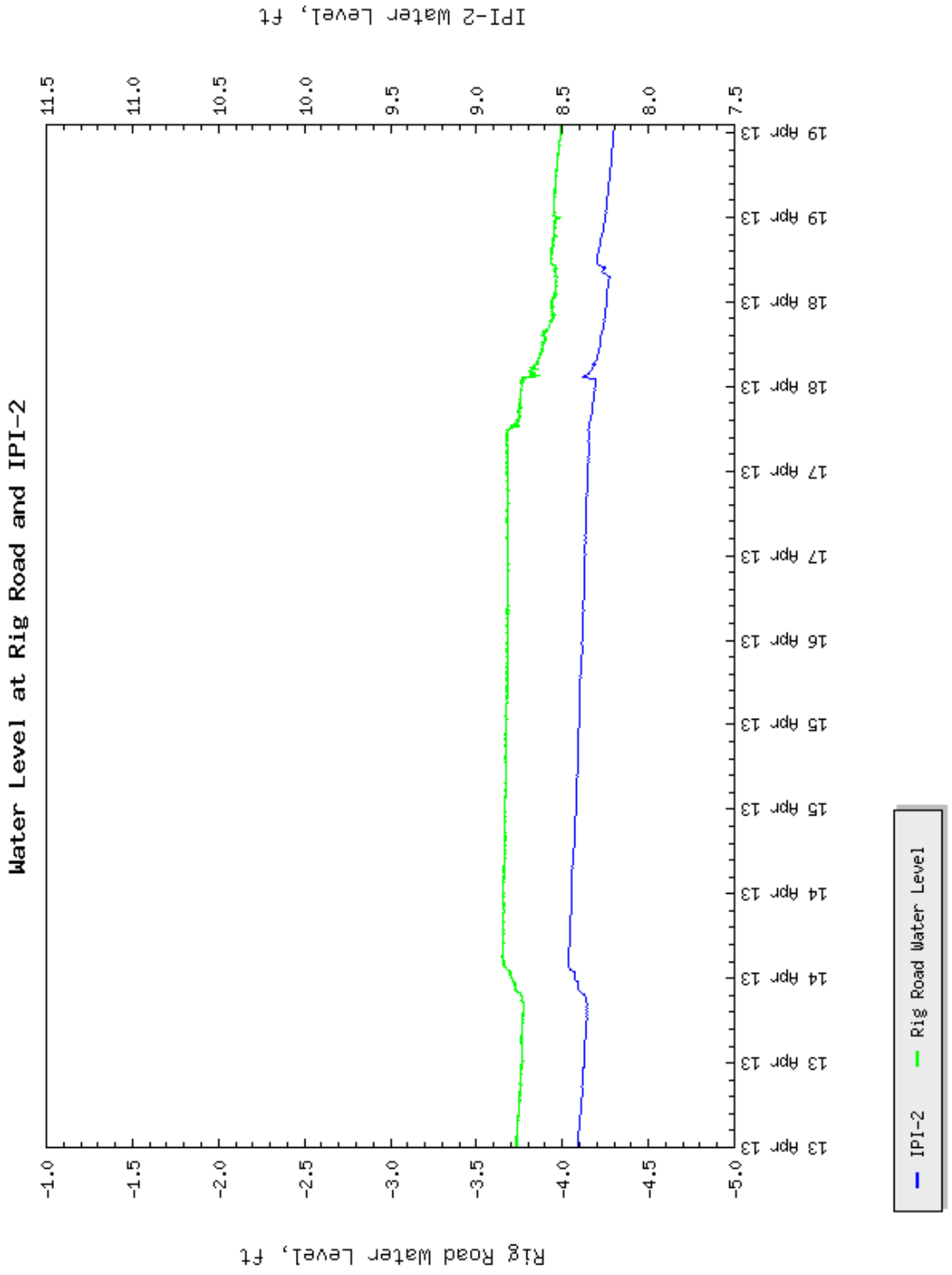

Figure 5. Water-Level Temporal Trends Showing Rig Access Road Data and IPI-2 Data.

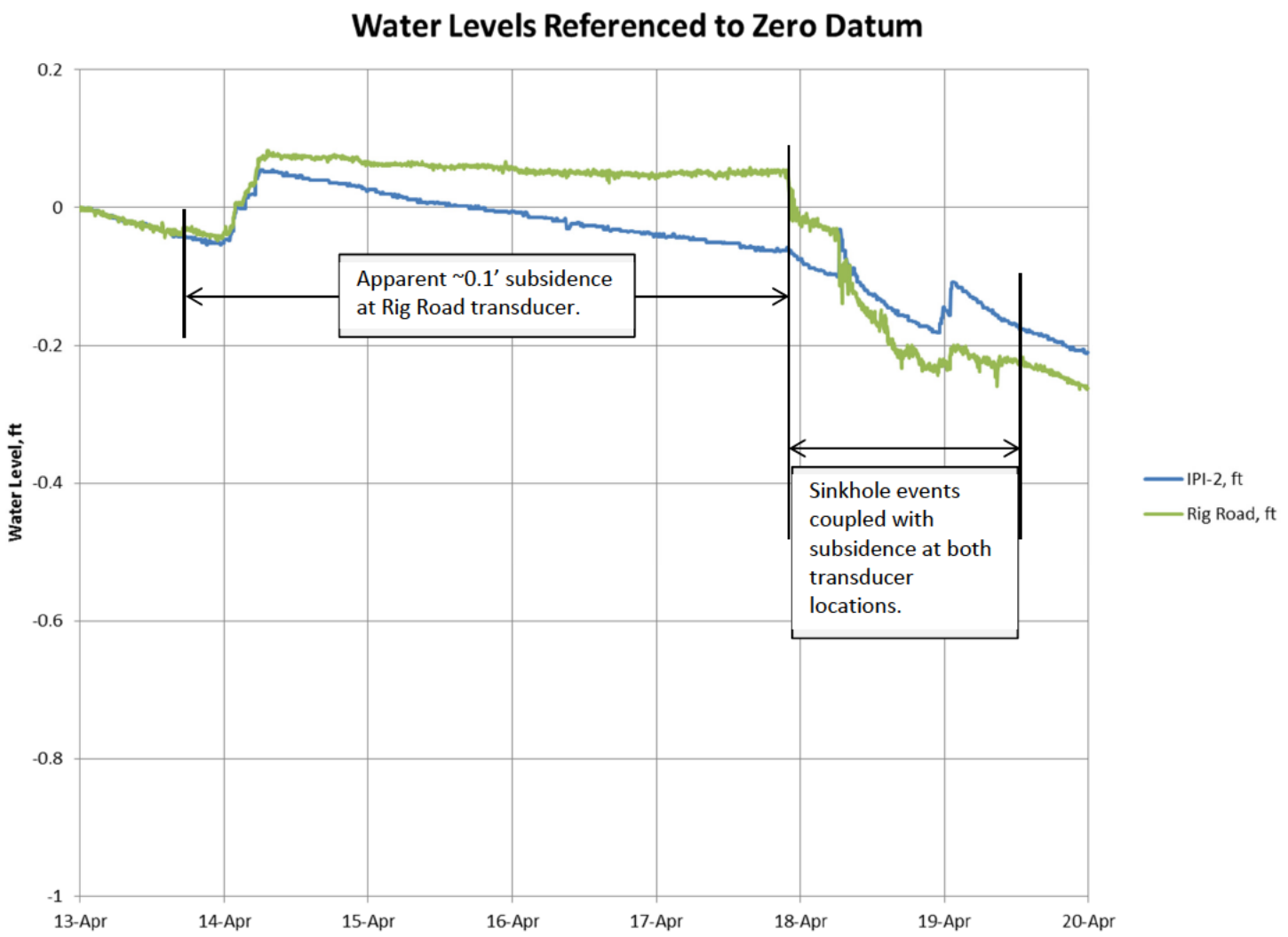

Figure 6. Water Levels at IPI-2 and Rig Access Road Referenced to Zero Datum.

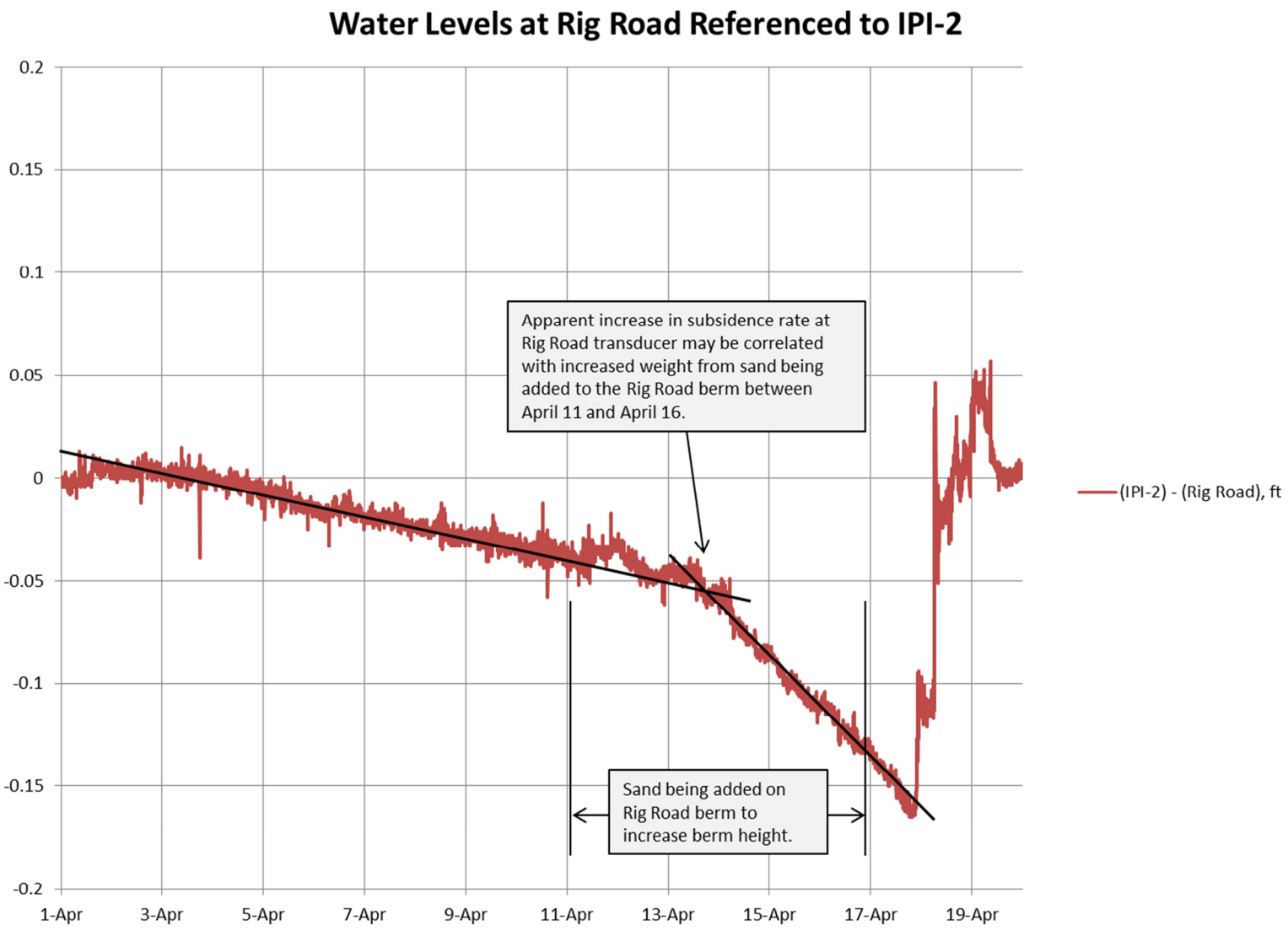

Figure 7. Difference in Water Levels Between IPI-2 and Rig Access Road Transducers.