

INFORMATIONAL ONLY  
No Action Taken

**INFORMATIONAL  
CALENDAR ITEM  
C78**

A 57, 58

S 29

04/20/00  
W 16008  
W 10433  
V. Duda

**STAFF REPORT ON THE MONITORING FOR  
POSSIBLE SUBSIDENCE AND SEISMIC HAZARDS,  
LONG BEACH UNIT, WILMINGTON OIL FIELD,  
LOS ANGELES COUNTY**

**PARTY:**

California State Lands Commission  
100 Howe Avenue, Suite 100-South  
Sacramento, CA 95825-8202

**BACKGROUND:**

The City of Long Beach conducts surveys twice each year, in May and November, for the purpose of monitoring changes in ground elevation of the Long Beach tidelands and adjacent areas. The Commission's staff reviews and interprets the benchmark elevation data from these semi-annual surveys. This report covers bench marks surveyed in November 1999 and compares elevation changes that have occurred since completion of the previous survey in May, 1999.

Within the Harbor District, slight elevation changes occurred in the Pier A, Pier S and Navy Shipyard areas. Elevation losses of approximately 0.03 feet (0.36 inches) were observed. These decreased elevations at the western end of the field represent a continued loss of rebound associated with an earlier water injection realignment that occurred during a period of historically low oil prices. Elevations in the steam flood area west of Henry Ford Avenue stabilized and had no significant elevation changes. This was due to curtailment of the steam flood project and initiation of cold-water injection. The Civic Center area experienced a slight elevation gain of 0.03 feet (0.36 inches) for this six-month period. This was a result of water injection readjustments. The Alamitos Bay and Center City area had no significant elevation changes and were stable, as were the oil islands.

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The results of the next regular elevation survey, to be conducted in May 2000, will be reported to the Commission after the data have been received and analyzed by the Commission's staff.

Additionally, a network of seven seismic monitoring stations are being operated for the Long Beach Unit under contract with the Geophysical Laboratory of the University of Southern California. No seismic event originated within the Long Beach Unit during the review period May 1999 to Nov 1999. The Commission's staff will continue to advise the Commission of any change in seismic activity in the vicinity of the Long Beach Unit.

**EXHIBIT:**

A. Location Map

**PERMIT STREAMLINING ACT DEADLINE:**

N/A

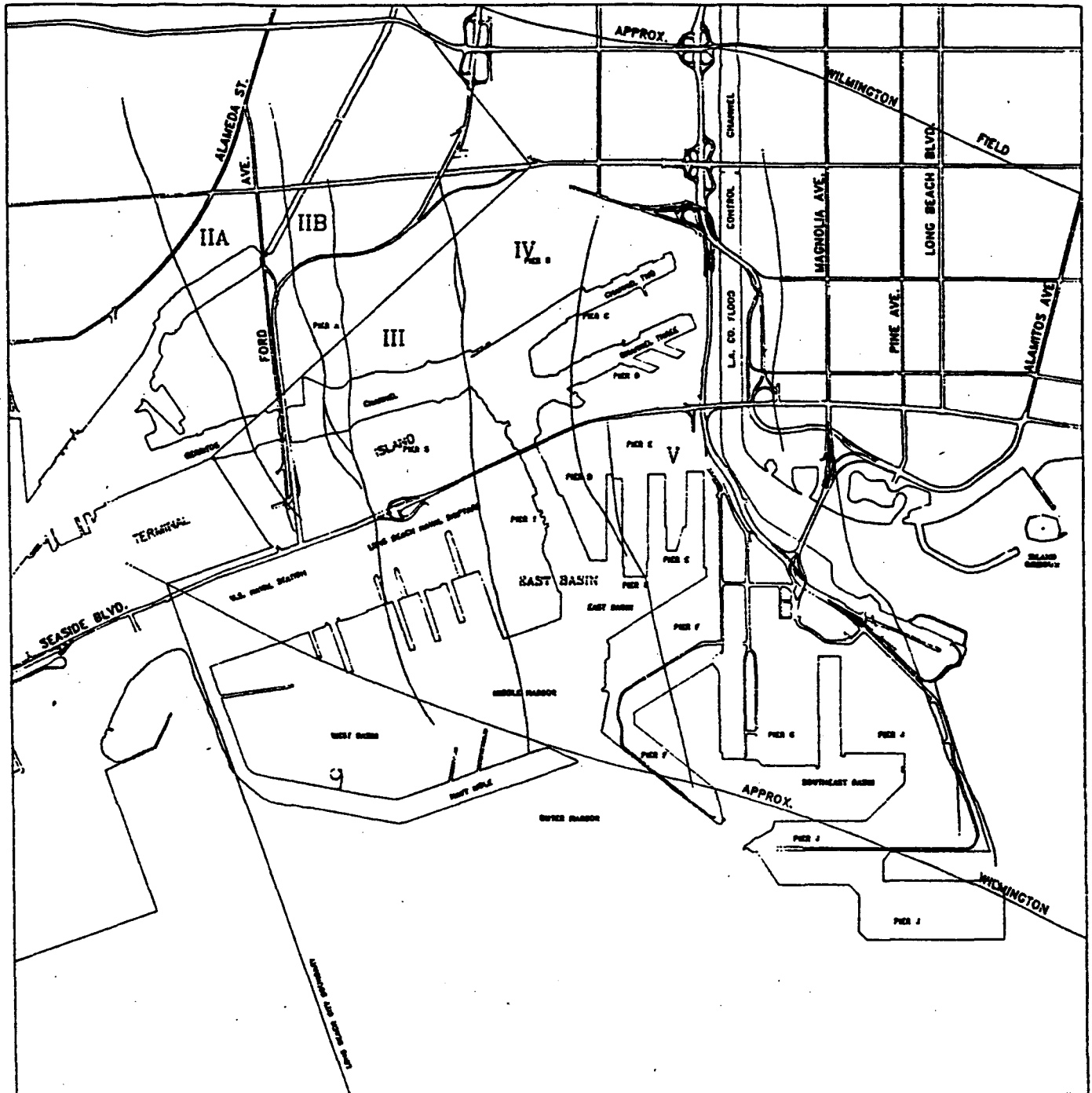
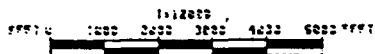


EXHIBIT 'A'  
LOCATION MAP

PORT OF LONG BEACH



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