

MINUTE ITEM
This Calendar Item No. C61
was submitted for information
only, no action thereon
being necessary.

**INFORMATIONAL
CALENDAR ITEM
C61**

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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 May 1999, and compares elevation changes that have occurred since completion of the previous survey in November 1998.

The latest survey shows that the Alamitos Bay area had no significant elevation changes. Harbor District elevation changes occurred in the steam flood area, near Henry Ford Avenue and along much of the pier areas. The steam flood area had an elevation loss of 0.10 feet (1.2 inches). The decreased elevations at the western end of the field represent a continued loss of rebound and subsurface compaction associated with the steam flood operations. Steam injection was terminated in February 1999 and studies are underway to determine the most effective operating procedures to optimize production and injection while minimizing the loss of rebound and subsurface compaction. The pier areas show an elevation loss of 0.05 feet (0.6 inches). These decreased

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elevations represent a loss of rebound. The Civic Center-Central City area also experienced slight elevation losses of 0.05 feet (0.6 inches) for this six-month period. These also reflect a loss of rebound in the area. The loss of rebound is associated with water injection realignment that occurred during a period of historically low oil prices. The results of the next regular elevation survey, to be conducted in November 1999, 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 November 1998 to May 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

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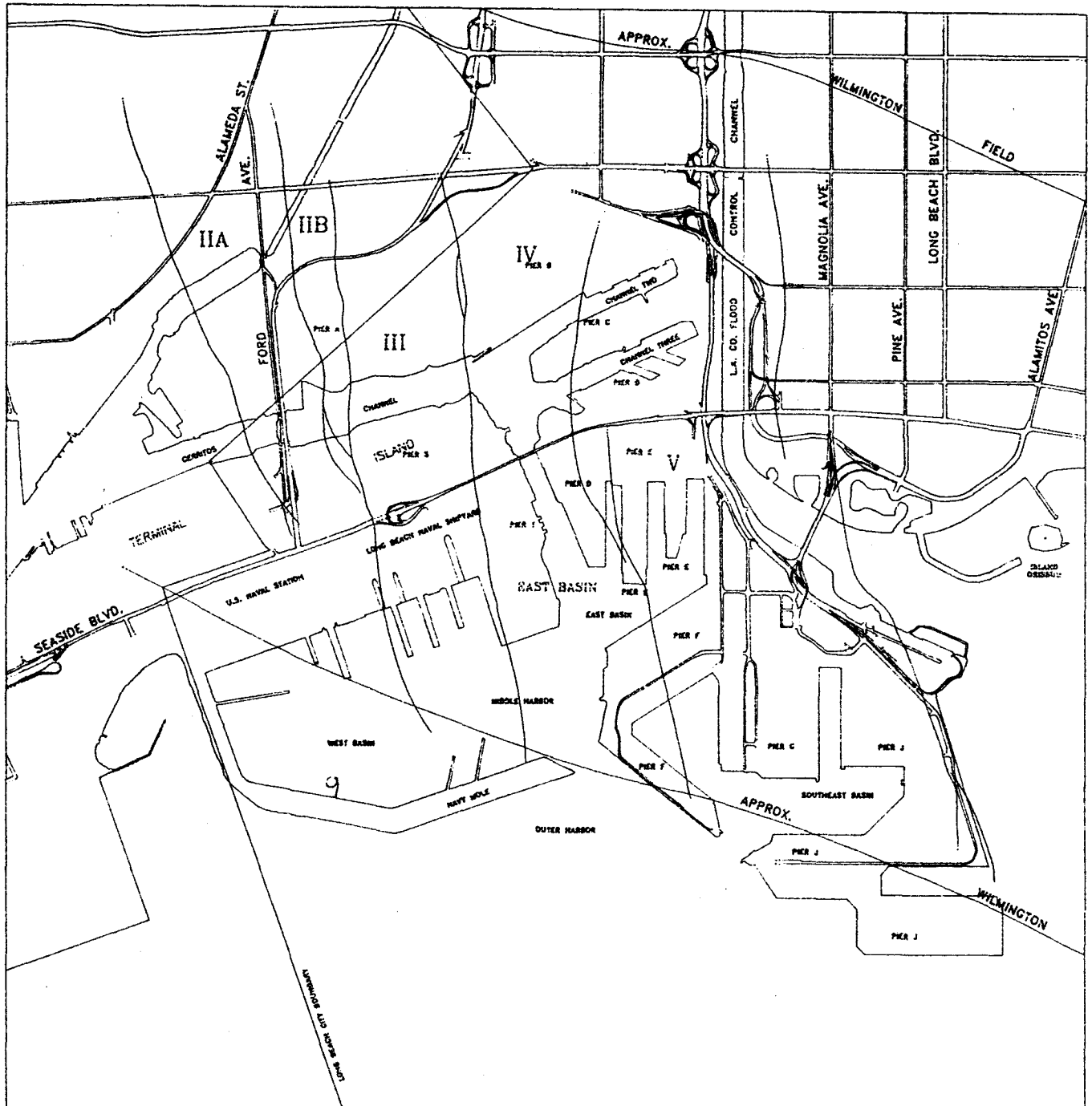


EXHIBIT 'A'
LOCATION MAP

PORT OF LONG BEACH

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