

# Staff Report 74 (Informational)

## **PARTY:**

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California State Lands Commission

## **PROPOSED ACTION:**

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Report on the Continued Monitoring of Possible Subsidence, Long Beach Unit, Wilmington Oil Field, Los Angeles County

## **BACKGROUND:**

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The City of Long Beach (City) conducts surveys twice each year, usually in May and November, to monitor changes in ground elevation of the Long Beach tidelands and adjacent areas that may occur as a result of oil extraction from the Wilmington Oil Field. Staff reviews and interprets the benchmark elevation data from these semiannual reviews. The City also reports annually to the Commission on its findings. This report covers benchmarks surveyed in October 2020 and compares elevation changes that have occurred since completion of the previous survey in November 2019. The prior report to the Commission was submitted as [Item 62, June 23, 2020](#). Subsidence monitoring is authorized by Chapter 138, Statutes of 1964, First Extraordinary Session and the corresponding Unit and Contractor Agreements.

## **STAFF ANALYSIS:**

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Based on the data collected by the City, elevations throughout the Alamitos Bay, Naples, Central City, and Civic Center areas were stable with no indication of decline. During the first half of the survey period, the offshore islands Grissom and Freeman were stable. The elevations of Islands White and Chaffee declined by 0.06 feet (0.7 inch) during the period. The ground elevation decrease was within normal limits for field operations. Water injection and fluid production requirements were adjusted, and the ground elevation loss did not continue in the second half of the survey.

In the Harbor District, the western portion was stable during the 12-month period while much of the central portion rose in ground elevation. Ground elevation on piers B, C, D, E, S and T increased by as much as 0.11 feet (1.3 inches). The increase is on the high end of normal limits, but still considered minor and will be closely monitored. Elevation changes may be associated with tidal cycles, drought, temperature changes, deep earth tectonic changes, and/or repressuring operations in the oil field.

The results of the next complete year (2020-2021) of regular elevation surveys will be reported to the Commission after the data has been received and analyzed by staff.

### **OTHER PERTINENT INFORMATION:**

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This action is consistent with the "Meeting Evolving Public Trust Needs" Strategic Focus Area of the Commission's 2021-2025 Strategic Plan.

### **EXHIBIT:**

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A. Location Map

# EXHIBIT A

## LOCATION MAP

### Long Beach, Los Angeles County

