

**STAFF REPORT
INFORMATIONAL
62**

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06/23/20

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R. B. Greenwood

**REPORT ON THE CONTINUED MONITORING OF POSSIBLE SUBSIDENCE,
LONG BEACH UNIT, WILMINGTON OIL FIELD, LOS ANGELES COUNTY**

BACKGROUND:

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. Commission staff reviews and interprets the benchmark elevation data from these semiannual reviews. The City also reports its findings annually to Commission staff. This report covers benchmarks surveyed in October 2019 and compares elevation changes that have occurred since completion of the previous survey in November 2018. The prior report to the Commission was submitted as [Staff Report 68, April 5, 2019](#). Subsidence monitoring is authorized by Chapter 138, Statutes of 1964, First Extraordinary Session and the corresponding Unit and Contractor Agreements.

STAFF ANALYSIS:

Based on the data collected by the City, elevations throughout the Alamitos Bay, Naples, Central City, and Civic Center areas, and most offshore drilling islands, were stable with no indication of decline. The elevation of Island Freeman declined by 0.06 foot (0.7 inch) and stabilized over a 6-month period. The Harbor District was stable, except for a small portion of Piers D, E, F, and a portion of Piers A and S where an elevation increase of up to 0.07 foot (0.8 inch) occurred and stabilized over 6 months, possibly due to ongoing construction in the middle harbor area. The elevation changes are within normal limits and were contained by water injection and fluid production monitoring. 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 (2019-2020) of regular elevation surveys will be reported to the Commission after the data has been received and analyzed by the Commission's staff.

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OTHER PERTINENT INFORMATION:

Staff's review and analysis of the data is consistent with Strategy 1.5 of the Commission's Strategic Plan to ensure the highest level of environmental protection and public safety in the production and transportation of oil and gas resources.

EXHIBIT:

A. Location Map

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EXHIBIT 'A'
LOCATION MAP
Long Beach, Los Angeles County