



Legislation Details (With Text)

|                       |   |                      |   |              |  |
|-----------------------|---|----------------------|---|--------------|--|
| <b>File #:</b>        | 05-3205   | <b>Version:</b>      | 1 | <b>Name:</b> | Elevation Changes in the City of Long Beach, November 2004 to May 2005 |
| <b>Type:</b>          | Agenda Item   | <b>Status:</b>       |   |              | Approved   |
| <b>File created:</b>  | 9/15/2005   | <b>In control:</b>   |   |              | City Council   |
| <b>On agenda:</b>     | 9/20/2005   | <b>Final action:</b> |   |              | 9/20/2005  |
| <b>Title:</b>         | Recommendation to receive and file the report, "Elevation Changes in the City of Long Beach, November 2004 to May 2005." (Citywide) |                      |   |              |  |
| <b>Sponsors:</b>      | Oil Properties (See Long Beach Gas and Oil)   |                      |   |              |  |
| <b>Indexes:</b>       |   |                      |   |              |  |
| <b>Code sections:</b> |   |                      |   |              |  |
| <b>Attachments:</b>   | 1. C-10 sr.pdf, 2. C-10 att.pdf   |                      |   |              |  |

| Date      | Ver. | Action By    | Action                 | Result |
|-----------|------|--------------|------------------------|--------|
| 9/20/2005 | 1    | City Council | approve recommendation | Pass   |

Recommendation to receive and file the report, "Elevation Changes in the City of Long Beach, November 2004 to May 2005." (Citywide)

The City of Long Beach (City) through the Department of Oil Properties (DOP), supervises oil production and subsidence control operations in the Wilmington Oil Field. DOP takes elevation surveys every six months to monitor elevation changes in the oil field and surrounding City areas. This report focuses on elevation changes that have occurred from November 2004 to May 2005. The DOP survey includes the following areas: Civic Center, Central City, Alamitos Bay, Naples, Harbor District, and an offshore area encompassing the four oil islands (Offshore).

The results of the six-month survey show elevations were stable in the Civic Center, Central City, Alamitos Bay, Naples, and Offshore areas. Harbor District elevations were stable except for a localized area of elevation loss along Henry Ford Avenue just north of the Cerritos Channel. The DOP is watching this area and acquiring data to further assess the elevation loss of approximately 0.08 feet (0.96 inches). This area is located over an oil reservoir that had been previously steam flooded. The steam flood was shut down in 1999 after high steam temperatures were found to cause compaction in the reservoir resulting in elevation loss. A program of cold-water injection was initiated and is cooling the reservoir to mitigate the elevation loss.

The DOP survey uses a series of benchmarks to determine elevation changes. Studies by the department's engineers and geologists show that the benchmarks may rise and fall in such a manner as to make an entire survey either optimistic (slightly up in elevation) or pessimistic (slightly down in elevation). These changes in elevations can be seasonal or random and may be associated with tidal cycles, temperature changes, and/or deep earth tectonic changes. Repressuring operations and the resulting rebound alter or mask these patterns from time to time. Surface elevations in a rebounded area can be expected to fluctuate under changing water flood conditions.

Deputy City Attorney Charles Parkin reviewed this item on August 19, 2005.

City Council action on this matter is not time critical.

There is no fiscal impact associated with this action.

Approve recommendation.

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[Respectfully Submitted,]