

**CALENDAR ITEM
C69**

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05/24/12

W 10443

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R. B. Greenwood

**CONSIDER PRIOR APPROVAL OF SUBSIDENCE COSTS
FOR VERTICAL MEASUREMENTS AND STUDIES,
2012-2013 FISCAL YEAR, CITY OF LONG BEACH,
LOS ANGELES COUNTY**

APPLICANT:

City of Long Beach
Long Beach Gas and Oil Department
Attn.: Mr. Christopher J. Garner, Director
2400 East Spring Street
Long Beach, CA 90806

BACKGROUND:

The City of Long Beach (City) conducts ground elevation measurement surveys and studies twice each year throughout the Harbor District for the purpose of monitoring changes that may be attributable to subsidence. The project consists of vertical measurements and studies in the City of Long Beach between July 1, 2012 and June 30, 2013. The City estimates the cost of the work to be:

GPS Real-Time Network	\$162,800
Vertical Measurements	\$146,300
Studies, Evaluations, and Reports	<u>\$260,500</u>
Total	\$569,600

Historically, the primary method for monitoring vertical subsidence in Long Beach has been spirit leveling. The semi-annual surveys since 2002 are being conducted utilizing state-of-the art Global Position Satellite (GPS) technology. Field data collection time has been reduced, and the 800 spirit leveled benchmarks have been reduced to approximately 200 GPS benchmarks.

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The estimated cost for fixed GPS stations includes station service/maintenance of the 13 permanent GPS base stations that monitor elevations on a continuous basis and technical support from the consultant. Costs have increased from fiscal year 2011-2012 budget, reflecting the need to replace five GPS units and to replace the ten-year old computer server dedicated to the GPS system.

Costs for vertical measurements for fiscal year 2012-2013 include survey acquisition, professional processing, reporting, and benchmark maintenance. The estimated vertical survey costs have increased from the 2011- 2012 budget due to anticipated increases in field development activities.

The estimated costs for studies, evaluations, reports and management have decreased from the last fiscal year.

FISCAL IMPACT:

Subsidence costs for vertical measurements and studies conducted in Long Beach are deducted from the Long Beach Tidelands Oil Revenue Fund, with the prior approval of the California State Lands Commission in accordance with Chapter 138, Statutes of 1964, First Extraordinary Session, section 1(e).

STATUTORY AND OTHER REFERENCES:

- A. The proposed expenditures are authorized, subject to the prior approval of the California State Lands Commission, by Chapter 138, Statutes of 1964, First Extraordinary Session, section 1(e).

OTHER PERTINENT INFORMATION:

1. The City of Long Beach has determined that the project is exempt from the requirements of CEQA as a categorically exempt project under Class 6, Information Collection; California Code of Regulations, Title 14, section 15306.
2. Pursuant to the Commission's delegation of authority and the State CEQA Guidelines (Cal. Code Regs., tit. 14, section 15061), the staff recommends that the Commission concur with the City's determination.

EXHIBITS:

- A. Location Map
- B. Cost Estimate

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RECOMMENDED ACTION:

It is recommended that the Commission:

CEQA FINDING:

Concur with the City of Long Beach's determination that the proposed activity is exempt from the requirements of CEQA as a categorically exempt project, Class 6, Information Collection; California Code of Regulations, Title 14, section 15306.

AUTHORIZATION:

Approve subsidence costs, as defined in Chapter 138, Statutes of 1964, First Extraordinary Session, section 1(e) and as shown on Exhibit B, attached hereto, by this reference made a part hereof, proposed to be expended by the City of Long Beach, for subsidence vertical measurements and studies to be conducted in the Long Beach Harbor District between July 1, 2012 and June 30, 2013, subject to the condition that the work conforms in essential details to the definitions and procedures for such work established by the Commission on June 27, 1979, Minute Item 27.

EXHIBIT B

05/24/12
W 10443

COST ESTIMATE
LONG BEACH WORK ORDER NO. W 10443
Estimates Submitted by City of Long Beach for
Subsidence Vertical and Horizontal Surveys
2012-2013 Fiscal Year

ITEM	PROPOSED WORK	RECOMMENDED APPROVAL
1.	GPS Real-Time Network	\$162,800
2.	Vertical Measurements	\$146,300
3.	Studies, Evaluations, and Reports	\$260,500
		<hr/> Total \$569,600