CALENDAR ITEM

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W 10443

S 33, 34 R. B. Greenwood

CONSIDER PRIOR APPROVAL OF SUBSIDENCE COSTS FOR VERTICAL MEASUREMENTS AND STUDIES, 2014-2015 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 City is seeking advance approval from the California State Lands Commission (Commission) for costs associated with conducting vertical measurements and studies in the City of Long Beach between July 1, 2014, and June 30, 2015 (Project). The City estimates the cost of the work to be:

Global Positioning System (GPS) Real-Time Network (RTN)	$193,875
GPS Elevation Surveys	$184,460
Management, Evaluations, Reports	$332,000
Total	**$710,335**

Last fiscal year's Project cost was $516,450. Historically, the primary method for monitoring vertical subsidence in Long Beach has been spirit leveling. The semi-annual and quarterly surveys are being conducted utilizing state-of-the art GPS and RTN technology. Field data collection time has been reduced, and the 800 spirit leveled benchmarks have been reduced to approximately 200 GPS benchmarks.

Costs for vertical measurements for fiscal year 2014-2015 include: survey data

acquisition, GPS and RTN firmware and software maintenance, professional processing and interpretation, reporting, and benchmark maintenance. The estimated vertical survey costs have increased from the 2013-2014 fiscal year budget. Although GPS and RTN have reduced overall survey expenses, anticipated increased costs for GPS and RTN maintenance will be incurred, including a required upgrade of the RTN software and associated licensing fees that will accommodate newer generation satellites. Additional expenses will be the cost of RTN migration from radio to cellular-based communication and purchase of annual GPS firmware licenses. Some elevation benchmarks that have poor GPS signal reception continue to be surveyed via spirit level by the City Surveyor. Labor-negotiated staff and management costs and contracted City Surveyor staff costs have increased from the 2013-2014 fiscal year budget, reflecting an increase in the GPS Elevation Survey (spirit level) costs and the cost of management, staff-evaluations and reports of monitoring the effects of production from new wells on subsidence.

FISCAL IMPACT:

Subsidence costs for vertical measurements and studies conducted in Long Beach are deducted from the Long Beach Tidelands Oil Revenues, 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 by Chapter 138, Statutes of 1964, First Extraordinary Session, and Section 1(e) subject to prior approval by the California State Lands Commission.

OTHER PERTINENT INFORMATION:

1. The staff recommends that the Commission find that this activity is exempt from the requirements of the California Environmental Quality Act (CEQA) as a categorically exempt project. The project is exempt under Class 6, Information Collection; California Code of Regulations, Title 14, section 15306.

   Authority: Public Resources Codes section 21084 and California Code of Regulations, Title 14, section 15300.

EXHIBITS:

A. Location Map
B. Cost Estimate

RECOMMENDED ACTION:
It is recommended that the Commission:

CEQA FINDING:

Find that this activity is exempt from the requirements of CEQA pursuant to California Code of Regulations, Title 14, section 15061 as a categorically exempt project, Class 6, Information Collection; California Code of Regulations, Title 14, section 15306.

AUTHORIZATION:

Approve subsidence costs from Long Beach Tidelands Oil Revenues, 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, 2014, and June 30, 2015, 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 A

W 10443

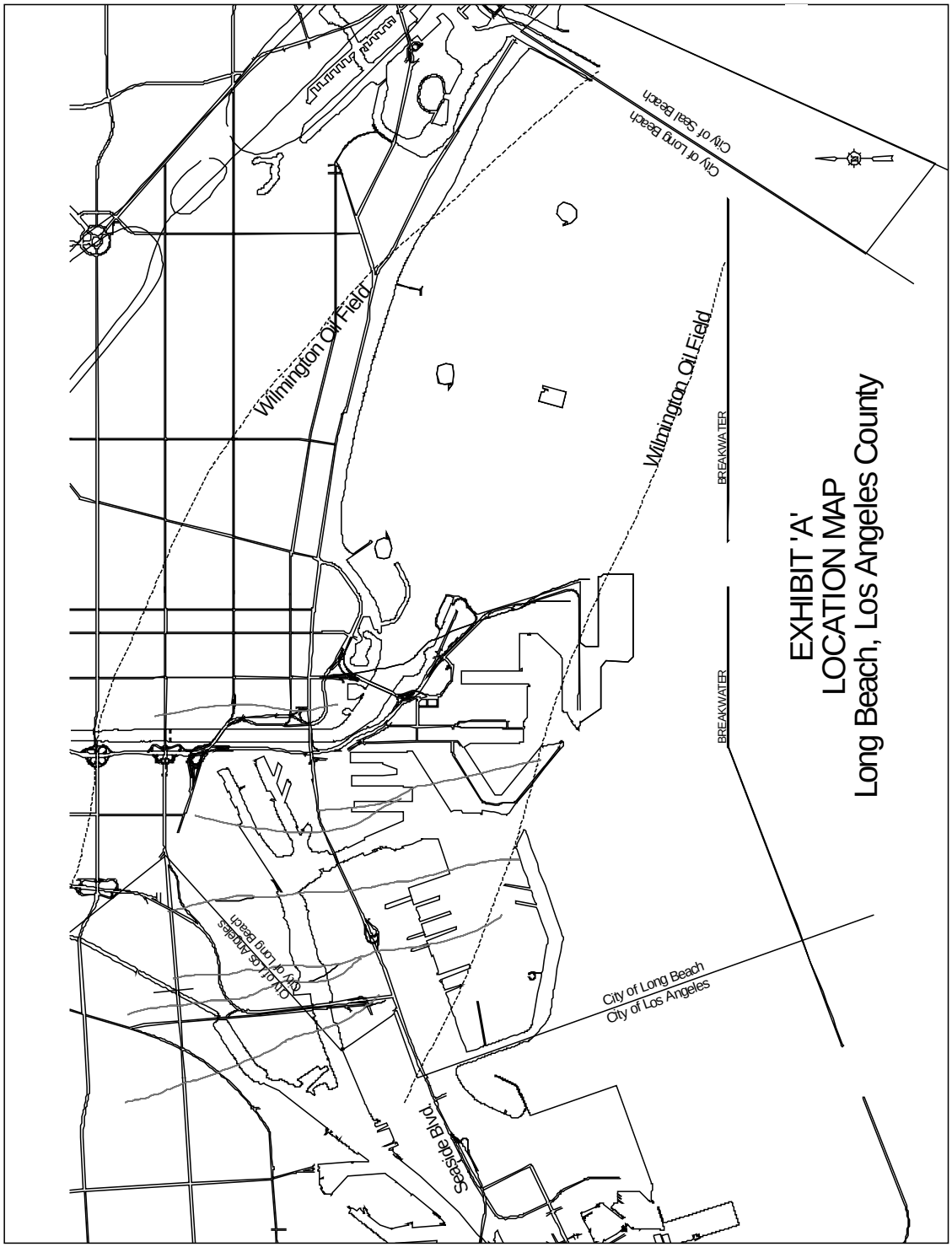

EXHIBIT B

W 10443

COST ESTIMATE
LONG BEACH WORK ORDER NO. 10443
Estimates Submitted by City of Long Beach for
Subsidence Vertical and Horizontal Surveys
2014-2015 Fiscal Year

ITEM	PROPOSED WORK	RECOMMENDED APPROVAL
1.	GPS Real-Time Network	$193,875
2.	GPS Elevation Surveys	$184,460
3.	Evaluations, Reports, and Management	$332,000
	Total	**$710,335**