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10:04 am, Apr 16, 2008

Alameda County
Environmental Health

MAC

Harding Lawson Associates



April 21, 1993

11505.015

East Bay Municipal Utilities District
375 Eleventh Street
Oakland, California 94607-4240

Attention: Mr. Bruce Lapore

Adjacent

Gentlemen:

Results of Soil Sampling
EmeryBay II Apartments
Emeryville, California

This letter presents the results of chemical analyses on soil samples performed by Harding Lawson Associates (HLA) at the EmeryBay II (EBII) Apartments site in Emeryville, California. The soil sampling and analyses were completed at the request of the East Bay Municipal Utilities District (EBMUD) and The Martin Group. EBMUD intends to excavate several trenches and construct utilities to service EBII at three locations:

- EBM-1 is a water service located on Bay Street approximately 425 feet north of the intersection of Bay Street and 64th Street
- EBM-2 is a fire service located on Bay Street approximately 300 feet north of the intersection of Bay Street and 64th Street
- EBM-3 is an existing fire service located on 64th Street approximately 200 feet west of the intersection of Bay Street and 64th Street

HLA's scope of services consisted of the following:

- Excavate and collect soil samples from three test pit locations (EBM-1, EBM-2, and EBM-3)
- Submit three soil samples for chemical analyses
- Prepare this letter

The purpose of this letter is to present and discuss the soil analytical results prior to commencement of EBMUD's work at the site.

On April 5, 1993, HLA utilized a backhoe provided by The Martin Group to direct excavation of EBM-1, EBM-2, and EBM-3 at locations selected by Mr. Alan McKay of The Martin Group and Mr. David Guidry of Devcon Construction on the basis of the utility service locations. Soil samples were collected on the EBII site at depths of 3.5 feet below grade at each location adjacent to the sidewalk.

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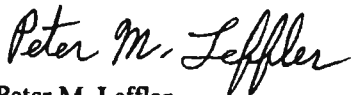
Previous soil investigations at the site have shown the following chemicals to be of concern: Total Petroleum Hydrocarbons (TPH) as gasoline, TPH as diesel, TPH as motor oil, benzene, toluene, ethylbenzene, and xylenes (BTEX), lead, zinc, and asbestos. Therefore, samples were submitted to California Laboratory Services and analyzed for these chemicals. The laboratory reports are attached to this letter. Soil analytical results showed nondetectable concentrations of TPH as gasoline, TPH as diesel, BTEX, and asbestos. Lead concentrations ranged from 40 to 110 milligrams per kilogram (mg/kg), zinc concentrations ranged from 95 to 350 mg/kg, and TPH as oil concentrations ranged from 91 to 690 mg/kg.

The chemical concentrations reported for soil samples obtained during this investigation are within the range of previous soil analytical results for the site. The compounds detected in the samples (lead, zinc, and TPH as oil) are not volatile compounds. As required by EBMUD, HLA will be onsite during trenching activities to monitor organic vapors and check for signs of contamination that may be a hazard to worker health and safety. In addition, EBMUD workers are advised to wear coveralls and gloves to minimize skin contact with soil during their work.

We trust that this provides the information required at this time. If you have any further questions regarding these results, please do not hesitate to call.

Very truly yours,

HARDING LAWSON ASSOCIATES



Peter M. Leffler
Project Hydrogeologist



Terence J. McManus
Associate Environmental Scientist

PML/TJM/pkp 033725P/R64

Attachments: Laboratory Reports

cc: The Martin Group
5800 Shellmound, Suite 210
Emeryville, California 94608
Attention: Mr. Alan McKay

The Martin Group
One Sutter Street, Suite 500
San Francisco, California 94104
Attention: Mr. Michael Covarrubias



California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015
Purge and Trap, EPA Method 5030

Client: Harding Lawson Associates
1855 Gateway Blvd. STE 500
Concord, CA 94520

Project No.: 11505.015
Contact: Peter Lefflar
Phone: (510)687-9660

Project: Emary Bay II

Date Sampled: 04/05/93
Date Received: 04/06/93
Date Extracted: 04/08/93
Date Analyzed: 04/08/93
Date Reported: 04/09/93

CLS Contact: George Hampton
Job No.: 790805
COC Log No.: NO NUMBER
CLS ID No.: M0805
Batch No.: 11001
Matrix: SOIL

ANALYTE

Client	Sample I.D. CLS	TPH as Gasoline (mg/kg)
EBM-1	1A	ND
EBM-2	2A	ND
EBM-3	3A	ND

Rep. Limit 1.0

ND = Not detected at or above indicated Reporting Limit
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.



California Laboratory Services

Analysis Report: BTEX, EPA Method 8020
Purge and Trap, EPA Method 5030

Client: Harding Lawson Associates
1855 Gateway Blvd. STE 500
Concord, CA 94520

Project No.: 11505.015
Contact: Peter Leffler
Phone: (510)687-9660

Project: Emery Bay II

CLS Contact: George Hampton
Job No.: 790805
COC Log No.: NO NUMBER
CLS ID No.: M0805
Batch No.: 11001
Matrix: SOIL

Date Sampled: 04/05/93
Date Received: 04/06/93
Date Extracted: 04/08/93
Date Analyzed: 04/08/93
Date Reported: 04/09/93

SURROGATE RECOVERY

Client	Sample I.D.	CLS	o-Chlorotoluene CAS No. 95-49-8 (percent)
EBM-1	1A		103
EBM-2	2A		96
EBM-3	3A		104
Surr Conc. (ug/kg)			100

ANALYTE

Client	Sample I.D.	CLS	Benzene 71-43-2 (ug/kg)	Toluene 108-88-3 (ug/kg)	Ethylbenzene 100-41-4 (ug/kg)	Xylenes, total 1330-20-7 (ug/kg)
EBM-1	1A		ND	ND	ND	ND
EBM-2	2A		ND	ND	ND	ND
EBM-3	3A		ND	ND	ND	ND
Rep. Limit			5	5	5	10

ND = Not detected at or above indicated Reporting Limit
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.



California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015
Shaker, DOHS LUFT Method

Client: Harding Lawson Associates
1855 Gateway Blvd. STE 500
Concord, CA 94520

Project No.: 11505.015
Contact: Peter Leffler
Phone: (510)687-9660

Project: Emery Bay II

CLS Contact: George Hampton
Job No.: 790805
COC Log No.: NO NUMBER
CLS ID No.: M0805
Batch No.: 10996
Matrix: SOIL

Date Sampled: 04/05/93
Date Received: 04/06/93
Date Extracted: 04/07/93
Date Analyzed: 04/13/93
Date Reported: 04/19/93

ANALYTE

Client	Sample I.D. CLS	TPH as Diesel (mg/kg)	TPH as Motor Oil (mg/kg)
EBM-1	1A	ND(200)	690
EBM-2	2A	ND(20)	190
EBM-3	3A	ND(20)	91
Rep. Limit		10	20

ND = Not detected at or above indicated Reporting Limit
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.



FAX TRANSMISSION
Summary of Results
Polarized Light Microscopy

To: Handing Lawson

Date/Time: 4/15/93

Sender: Shaw

Project: _____

Attn: Peter Luffler

Report #: 193648

If you do not receive all pages, please contact Sender at (510) 887-8828.

C: Chrysotile

CR: Crocidolite

A: Amosite

ND: No Asbestos Detected

<u>Sample Number</u>	<u>Asbestos %</u>	<u>Asbestos Type</u>	<u>Notes</u>
<u>EBM-1</u>	<u>ND</u>	_____	_____
<u>EBM-2</u>	<u>ND</u>	_____	_____
<u>EBM-3</u>	<u>ND</u>	_____	_____
_____	_____	_____	_____
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_____	_____	_____	_____
_____	_____	_____	_____

FAXED TO: 687-9673 ✓

These results are preliminary. Hard copy will follow in the mail.

Supervisor's Initial: AL

