



Beta Associates, Inc.

Consultants in Waste Management, Environmental Control and the Geotechnical Sciences

July 14, 1988
Project 156-44.2

Lincoln Property Company
101 Lincoln Centre Drive
Foster City, California 94404

Attention: Mr. Wayne Biancalana

Subject: Flood Control Sediment Stockpile
Waste Profile Analysis
Elmhurst Business Park
85th Avenue & San Leandro Street
Oakland, California

Gentlemen:

As authorized, on July 5, 1988 four additional soil samples were obtained from the stockpiled sediment located at the subject site for completion of the waste profile analysis, as recommended in Beta Associates' letter to you dated June 27, 1988 entitled "Sediment Stockpile Analysis".

Each sample was obtained one foot deep within the stockpile by driving a two-inch diameter by six-inch long brass tube into the pile until full. All samples were wrapped in foil, capped at both ends, labeled, and kept in a refrigerated container for transportation to California Water Labs of Modesto for analysis, accompanied by appropriate chain-of-custody documents. The four samples were composited in the lab into one sample for analysis. Analytical tests performed on the composite sample for waste profile completion consisted of:

- 1) volatile organic and aromatic compounds using EPA Test Method 8010/8020,
- 2) phenols using EPA Test Method 8270 (partial),
- 3) PCBs using EPA Test Method 8080.3,
- 4) cyanides,
- 5) sulfides,
- 6) pH,
- 7) flash point using the closed cup method, and
- 8) specific gravity.

Results of the analyses revealed the absence of volatile organic/aromatic compounds, phenols, PCBs, and cyanides. Sulfides were detected at a concentration of 70 parts per million (ppm). Standard characteristics of the sediment revealed a pH of 8.3, specific gravity of 1.5, and no flash point below 200°F. Results of the laboratory analyses are attached.

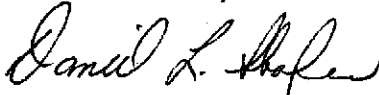
Conclusions

Based on all chemical analyses performed on the flood control sediment it appears the sediment is to be considered a hazardous waste with respect to lead only, as this compound exceeded its State Department of Health Services (DHS) - established Soluble Threshold Limit Concentration (STLC) value.

If you have any questions, please do not hesitate to call.

Respectfully submitted,

BETA ASSOCIATES, INC.



Daniel L. Shafer
Project Geologist

reviewed by:



Jack E. McCollough
Registered Geologist #1559
Certified Engineering Geologist #905

DLS/JEM/pcf

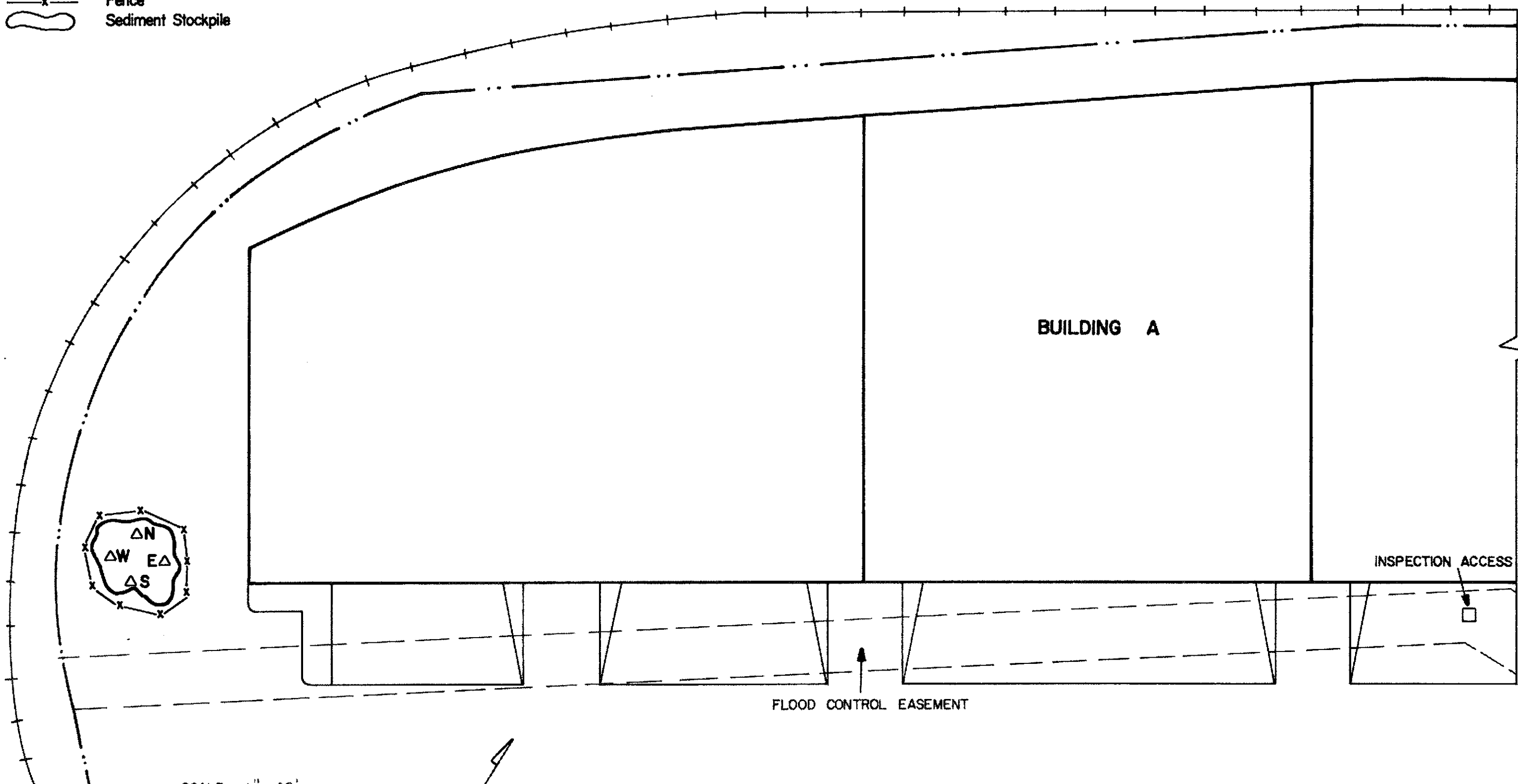
cc: Mr. John Young, Lincoln Property Company

Attachments



LEGEND

- ΔN Hand Sample Location
- x— Fence
-  Sediment Stockpile



SCALE: 1" = 40'



Beta Associates

SAMPLE LOCATIONS — SEDIMENT STOCKPILE
ELMHURST BUSINESS PARK
OAKLAND, CALIFORNIA

FIGURE
1
156 - 44.2
AUGUST 1988

California Water Labs, Inc.

P. O. BOX 4249
1430 CARPENTER LANE - SUITE G
MODESTO, CA 95352
PHONE (209) 527-4050

RUSH
(silver)

Purveyor Beta Associates
Street 2068 Lincoln
City San Jose Zip _____
Sample I.D. Composite NSEW
Collected by: Chris Hickey

Lab I.D. P-66354
Purchase Order 156-44.2
Referring Lab _____
Date Collected 7-5-88
ELMHURST BUSINESS PARK

225 HALOGENATED/AROMATIC VOLATILE ORGANICS: SOLID MATRICES (METHODS 8010/8020)

COMPOUND	RESULTS ug/kg	DET. LIMIT	COMPOUND	RESULTS ug/kg	DET. LIMIT
CHLOROMETHANE	ND	2.5	1,2-DICHLOROPROPANE	ND	2.5
DICHLORODIFLUOROMETHANE	ND	2.5	TRANS-1,3-DICHLOROPROPENE	ND	2.5
BROMOMETHANE	ND	2.5	TRICHLOROETHYLENE	ND	2.5
VINYL CHLORIDE	ND	5.0	DIBROMOCHLOROMETHANE	ND	2.5
CHLORETHANE	ND	2.5	CIS-1,3-DICHLOROPROPENE	ND	2.5
METHYLENE CHLORIDE	ND	2.5	1,1,2-TRICHLOROETHANE	ND	2.5
TRICHLOROFLUOROMETHANE	ND	2.5	BROMOFORM	ND	2.5
1,1-DICHLOROETHENE	ND	1.0	1,1,2,2-TETRACHLOROETHANE	ND	2.5
1,1-DICHLOROETHANE	ND	2.5	TETRACHLOROETHENE	ND	2.5
TRANS-1,2-DICHLOROETHENE	ND	2.5	CHLOROBENZENE	ND	2.5
CHLOROFORM	ND	2.5	1,2-DICHLOROBENZENE	ND	2.5
1,2-DICHLOROETHANE	ND	2.5	1,3-DICHLOROBENZENE	ND	2.5
1,1,1-TRICHLOROETHANE	ND	2.5	1,4-DICHLOROBENZENE	ND	2.5
CARBON TETRACHLORIDE	ND	2.5	BENZENE	ND	10.0
BROMODICHLOROMETHANE	ND	2.5	ETHYL BENZENE	ND	10.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	TOLUENE	ND	10.0
			XYLENE	ND	20.0

(Sample prepared using Method 5030 for purge and trap.)

Date Received 7-5-88
Date Started 7-6-88
Date Completed 7-8-88

Ref: SW-846

By: Paul R. Thorman

*Unidentified 8020 peak present.

California Water Labs, Inc.

P. O. BOX 4249
1430 CARPENTER LANE — SUITE G
MODESTO, CA 95352
PHONE (209) 527-4050

RUSH
(silver)

Purveyor Beta Associates
Street 2068 Lincoln
City San Jose Zip 95101
Sample I.D. Composite N-S-E-W
Collected by: Chris Hickey

Lab I.D. P-66354
Purchase Order 156-44.2
Referring Lab _____
Date Collected 7-5-88
ELMHURST BUSINESS PARK

PARTIAL 8270

548 PHENOLS

Parameter	Result mg/l	Det. Limit mg/l
2-Chlorophenol	ND	1.0
2-Nitrophenol	ND	1.0
Phenol	ND	1.0
2,4-Dimethylphenol	ND	1.0
2,4-Dichlorophenol	ND	1.0
2,4,6-Trichlorophenol	ND	1.0
4-Chloro-3-methylphenol	ND	1.0
2,4-Dinitrophenol	ND	1.0
2-Methyl-4,6-dinitrophenol	ND	1.0
Pentachlorophenol	ND	1.0
4-Nitrophenol	ND	1.0

Date Received 7-5-88
Date Started 7-11-88
Date Completed 7-13-88

By: Paul R. Themann

California Water Labs, Inc.

P. O. BOX 4248
1430 CARPENTER LANE — SUITE G
MODESTO, CA 95352
PHONE (209) 527-4050

RUSH
(silver)

<u>Purveyor</u>	<u>Beta Associates</u>
<u>Street</u>	<u>2068 Lincoln</u>
<u>City</u>	<u>San Jose</u> <u>Zip</u> <u>95101</u>
<u>Sample I.D.</u>	<u>Composite NSEW</u>
<u>Collected by:</u>	<u>Chris Hickey</u>

<u>Lab I.D.</u>	<u>P-66354</u>
<u>Purchase Order</u>	<u>156-44.2</u>
<u>Referring Lab</u>	
<u>Date Collected</u>	<u>7-5-88</u>

PCB

ND, < 1 ppm

<u>Date Received</u>	<u>7-5-88</u>
<u>Date Started</u>	<u>7-5-88</u>
<u>Date Completed</u>	<u>7-8-88</u>

By: Paul R. Therman

No cc Req.

California Water Labs, Inc.

RUSH
(silver)

P. O. BOX 4249
1430 CARPENTER LANE — SUITE G
MODESTO, CA 95352
PHONE (209) 527-4050

Purveyor Beta Associates
Street 2068 Lincoln
City San Jose Zip 95101
Sample I.D. Composite NSEW
Collected by: Chris Hickey

Lab I.D. P-66354
Purchase Order 156-44.2
Referring Lab
Date Collected 7-5-88
ELMHURST BUSINESS PARK

<u>Determination</u>	<u>Result (mg/kg)</u>
Cyanides	< 0.1
Sulfides	70.0
pH (Std. Units)	8.3
Flashpoint (°F)	No Flash (> 200.)
Specific Gravity	1.5

Date Received 7-5-88
Date Started 7-5-88
Date Completed 7-8-88

By: Mehdi Girmi

California Water Labs, Inc.

P. O. BOX 4249
 1430 CARPENTER LANE — SUITE G
 MODESTO, CA 95352
 PHONE (209) 527-4050

CHAIN OF CUSTODY RECORD

PROJECT NAME: <i>Elmhurst Business Park #156-44.2</i>						Number of Con- tainers	Analysis Required								REMARKS
SAMPLERS (signature): <i>[Signature]</i>							<i>EPA 8010/8020</i>	<i>Subsides</i>	<i>Cyanides</i>	<i>PCBs</i>	<i>Phenolics</i>	<i>pH</i>	<i>Flash point</i>	<i>Specific gravity</i>	
Station Number	Date	Time	Comp.	Grab	Station Location										
HS-N	7/5	3:15 pm			North	1								Rush Analysis - Need results by <i>P-06354</i> Monday, July 11 th Please. Thanks, Dan	
HS-S					South } Composite	1	✓	✓	✓	✓	✓	✓			
HS-E					East	1									
HS-W					West	1									
Relinquished by (signature): <i>[Signature]</i>			Date / Time 7/5/88 4:30 PM			Received by (signature): Company or Agency:		Relinquished by (signature): Company or Agency:		Date / Time		Received by (signature): Company or Agency:			
Relinquished by (signature): Company or Agency:			Date / Time			Received by (signature): Company or Agency:		Relinquished by: Company or Agency:		Date / Time		Received by (signature): Company or Agency:			
Relinquished by (signature): Company or Agency:			Date / Time			Received for Laboratory by: (signature) <i>CWL</i>		Date / Time 4:34 pm		Remarks/Shipping Information <i>Cathy Mittenberg 7/5/88</i>					