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DEPARTMENT OF PARKS
AND COMMUNITY SERVICES

CITY OF SACRAMENTO
CALIFORNIA

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SUITE 400
SACRAMENTO, CA
95814-2977

ROBERT P. THOMAS
DIRECTOR

March 6, 1987

916-449-5200

G. ERLING LINGGI
ASSISTANT DIRECTOR

DIVISIONS:

CROCKER ART MUSEUM
GOLF
METROPOLITAN ARTS
MUSEUM & HISTORY
PARKS
RECREATION
ZOO

Budget and Finance Committee
Sacramento, California

Honorable Members in Session:

SUBJECT: Mangan Nursery Contamination Cleanup

SUMMARY

This report provides information on the soil contamination at the City of Sacramento's Mangan Nursery located on 34th Avenue. Further, this report recommends that the FY 1986-87 City operating budget be amended by transferring General Fund Administrative Contingency funds in the amount of \$72,000 to the Parks Division operating budget to contract for the necessary cleanup and disposal of the contaminated soil.

BACKGROUND INFORMATION

On July 31, 1986, the Special Projects Unit of the City Solid Waste Division performed a site assessment at the Mangan Nursery. The results of their testing indicate lead contamination on both the Rifle Range and the Mangan Nursery sites.

Contamination of the areas within the Nursery is a result of a cleaning process of the sawdust from the Mangan Rifle Range over many years. The process involved the cleaning of sawdust material from the range in a cement mixer at the Nursery. The lead was separated from the sawdust and recycled, while the sawdust and water was disposed of at the Nursery. It was discovered that the remaining sawdust and the cleaning water were both contaminated with high levels of lead. This cleaning process has been discontinued at the Rifle Range and the Nursery.

The Solid Waste Division has conducted three rounds of soil sampling from the Nursery since October 1986. The results of the samples are shown in Exhibit A. An isoconcentration contour map has also been developed by Solid Waste (Exhibit B). Based on their studies, the volume of contaminated soil is approximately 200 cubic yards. This potential health hazard requires immediate action by all departments involved.

The Solid Waste Division recommends the excavation and disposal of the top six inches of soil and the development of a plan to ensure that lead contamination from the Mangan Range will not occur in the future. The Solid Waste Division

further recommends that the City contract with a hazardous waste management firm to proceed with the excavation and disposal of the contaminated soils. Current estimates of the cost for this phase are based on their research of an average cost of \$350 per cubic yard for excavation, transportation and disposal. The contamination and cost are as follows:

The Rifle Range: Approximately 15 cubic yards = \$5,250
The Nursery: Approximately 190 cubic yards = \$66,500
Total Cost Estimate: \$72,000

The Solid Waste Division is working with the Department of Parks and Community Services and the Rifle Range to develop a program to safely wash down the range and dispose of the lead. This new program will also be developed with assistance from the City Safety Officer and the Risk Management Division. This report will recommend actions with the best interests of both city employees and the citizens who use the rifle range:

FINANCIAL DATA

There are no funds available for soil contamination cleanup in the operating budgets of Solid Waste Division, the Special Project Unit or General Services' Risk Management Division. Furthermore, there is no money available in the Parks Division budget for this cleanup.

The total estimated cost of cleanup for the Range and the Nursery is \$72,000. It is necessary to amend the FY 1986-87 City operating budget by transferring General Fund Administrative Contingency Funds in the amount of \$72,000 to the Parks Division operating budget to contract for the necessary cleanup and disposal of contaminated soil at the Mangan Nursery and Rifle Range.

RECOMMENDATION

It is recommended that the Budget and Finance Committee approve this report and refer it to the full City Council for action. Further, it is recommended that the City Council, by resolution, amend the FY 1986-87 City operating budget by transferring General Fund Administrative Contingency funds in the amount of \$72,000 to the Parks Division operating budget to contract for the necessary cleanup and disposal of contaminated soil at the Mangan Nursery and Rifle Range.

Respectfully submitted,

B. Eiling Lenz

for - ROBERT P. THOMAS, Director
Parks and Community Services

Recommendation Approved:

Jack R. Crist

JACK R. CRIST
Deputy City Manager

RPT: ja

March 17, 1987
District No. 7

RESOLUTION NO.

ADOPTED BY THE SACRAMENTO CITY COUNCIL ON DATE OF

RESOLUTION AMENDING THE FY 1986-87 CITY
OPERATING BUDGET FOR THE CLEANUP AND
DISPOSAL OF CONTAMINATED SOIL AT THE
MANGAN NURSERY AND RIFLE RANGE

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF SACRAMENTO:

1. That the necessary cleanup and disposal of contaminated soil at the Mangan Nursery and Mangan Rifle Range requires a budget amendment.
2. That the FY 1986-87 City operating budget is hereby amended by transferring funds in the amount of \$72,000 from the General Fund Administrative Contingency to the Parks Division operating budget, for the purpose stated in paragraph one above, as follows:

General Fund Administrative Contingency	101-710-7012-4999	[\$72,000]
Parks Division Tree Services	101-450-4590-4247	\$72,000

MAYOR

ATTEST:

CITY CLERK

EXHIBIT A

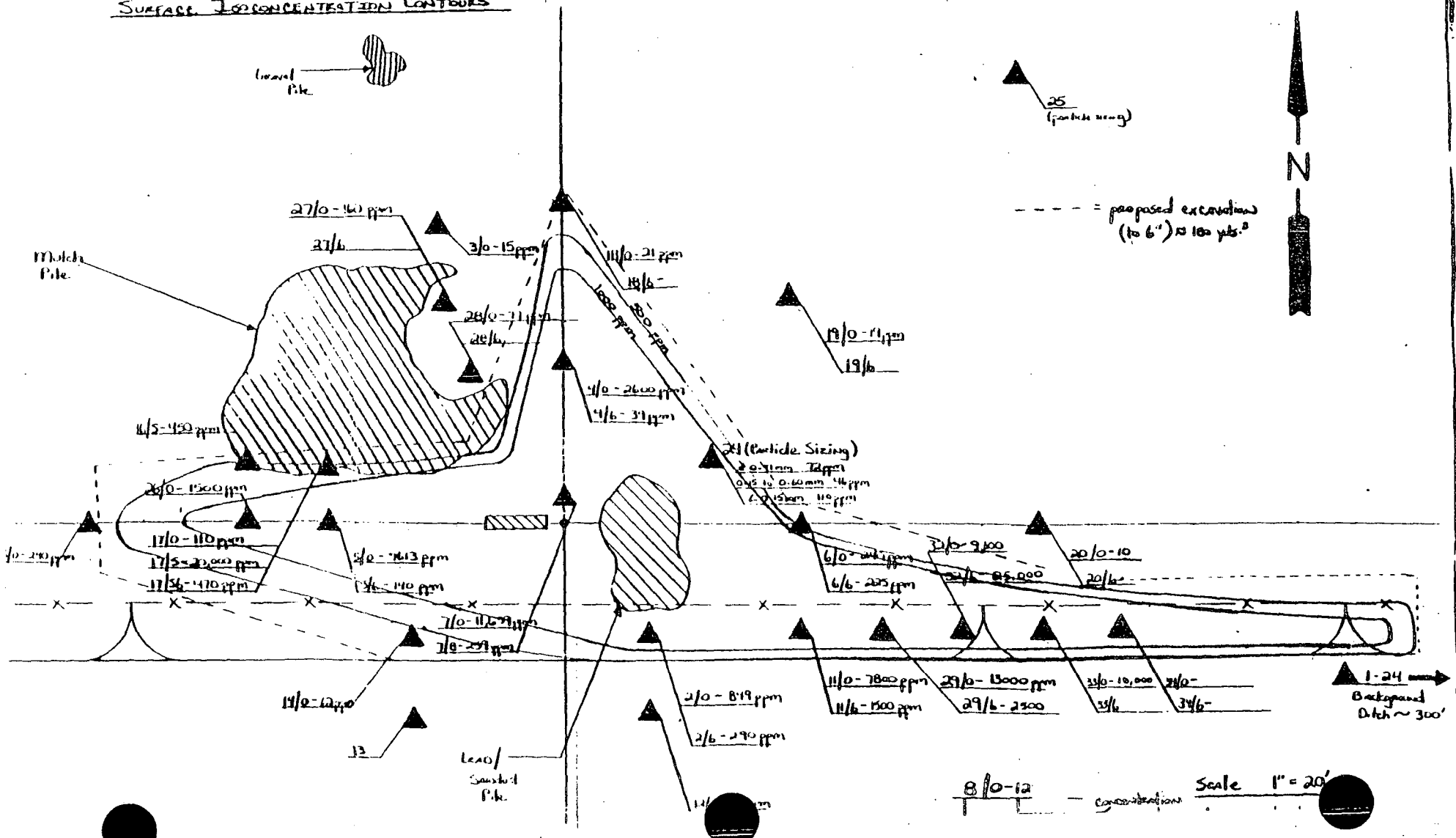
Record#	SAMPLE	LOCATION	SAMPLEDATE	ANALYSIS	LABORATORY	TOTALLEAD	SIZINGDATA	NOTES	NOTES2
1	1/0	NURSERY	09/26/86	YES	EUREKA	24		A/B=SAMPLE#/SAMPLE DEPTH	
2	2/0	NURSERY	09/26/86	YES	EUREKA	849		A/B=SAMPLE#/SAMPLE DEPTH	
3	2/6	NURSERY	09/26/86	YES	EUREKA	290		A/B=SAMPLE#/SAMPLE DEPTH	
4	3/0	NURSERY	09/26/86	YES	EUREKA	15		A/B=SAMPLE#/SAMPLE DEPTH	
5	4/0	NURSERY	09/26/86	YES	EUREKA	2600		A/B=SAMPLE#/SAMPLE DEPTH	
6	4/6	NURSERY	09/26/86	YES	EUREKA	39		A/B=SAMPLE#/SAMPLE DEPTH	
7	5/0	NURSERY	09/26/86	YES	EUREKA	7613		A/B=SAMPLE#/SAMPLE DEPTH	
8	5/6	NURSERY	10/29/86	YES	CITY	140		A/B=SAMPLE#/SAMPLE DEPTH	
9	6/0	NURSERY	09/26/86	YES	CITY	240		A/B=SAMPLE#/SAMPLE DEPTH	
10	6/6	NURSERY	09/26/86	YES	EUREKA	225		A/B=SAMPLE#/SAMPLE DEPTH	
11	7/0	NURSERY	09/26/86	YES	EUREKA	11639		A/B=SAMPLE#/SAMPLE DEPTH	
12	7/8	NURSERY	09/26/86	YES	EUREKA	259		A/B=SAMPLE#/SAMPLE DEPTH	
13	8/0	RANGE	09/26/86	YES	EUREKA	128		A/B=SAMPLE#/SAMPLE DEPTH	
14	9/0	RANGE	09/26/86	YES	EUREKA	17080		A/B=SAMPLE#/SAMPLE DEPTH	
15	9/6	RANGE	10/29/86	YES	CITY	44000		A/B=SAMPLE#/SAMPLE DEPTH	
16	9/9	RANGE	11/04/86	YES	CITY	13000		A/B=SAMPLE#/SAMPLE DEPTH	
17	10/0	RANGE	09/26/86	YES	EUREKA	1882		A/B=SAMPLE#/SAMPLE DEPTH	
18	10/6	RANGE	10/29/86	YES	CITY	820		A/B=SAMPLE#/SAMPLE DEPTH	
19	11/0	NURSERY	10/29/86	YES	CITY	7800		A/B=SAMPLE#/SAMPLE DEPTH	
20	11/6	NURSERY	10/29/86	YES	CITY	1500		A/B=SAMPLE#/SAMPLE DEPTH	
21	12/0	NURSERY	10/29/86	YES	CITY	28		A/B=SAMPLE#/SAMPLE DEPTH	
22	12/6	NURSERY	10/29/86	NO		0		A/B=SAMPLE#/SAMPLE DEPTH	
23	13/0	NURSERY	10/29/86	NO		0		A/B=SAMPLE#/SAMPLE DEPTH	
24	13/6	NURSERY	10/29/86	NO		0		A/B=SAMPLE#/SAMPLE DEPTH	
25	14/0	NURSERY	10/29/86	YES	CITY	62		A/B=SAMPLE#/SAMPLE DEPTH	
26	14/6	NURSERY	10/29/86	NO		0		A/B=SAMPLE#/SAMPLE DEPTH	
27	15/0	NURSERY	10/29/86	YES	CITY	240		A/B=SAMPLE#/SAMPLE DEPTH	
28	15/6	NURSERY	10/29/86	NO		0		A/B=SAMPLE#/SAMPLE DEPTH	
29	16/0	NURSERY	10/29/86	NO		0		A/B=SAMPLE#/SAMPLE DEPTH	
30	16/6	NURSERY	10/29/86	NO		0		A/B=SAMPLE#/SAMPLE DEPTH	
31	16/S	NURSERY	11/04/86	YES	CITY	450		A/B=SAMPLE#/SAMPLE DEPTH	
32	16/S6	NURSERY	11/04/86	NO		0		A/B=SAMPLE#/SAMPLE DEPTH	
33	17/0	NURSERY	10/29/86	YES	CITY	110		A/B=SAMPLE#/SAMPLE DEPTH	
34	17/6	NURSERY	10/29/86	NO		0		A/B=SAMPLE#/SAMPLE DEPTH	
35	17/S	NURSERY	10/29/86	YES	CITY	20000		A/B=SAMPLE#/SAMPLE DEPTH	
36	17/S6	NURSERY	11/04/86	YES	CITY	470		A/B=SAMPLE#/SAMPLE DEPTH	
37	18/0	NURSERY	10/29/86	YES	CITY	21		A/B=SAMPLE#/SAMPLE DEPTH	
38	18/6	NURSERY	10/29/86	NO		0		A/B=SAMPLE#/SAMPLE DEPTH	
39	19/0	NURSERY	10/29/86	YES	CITY	19		A/B=SAMPLE#/SAMPLE DEPTH	
40	19/6	NURSERY	10/29/86	NO		0		A/B=SAMPLE#/SAMPLE DEPTH	
41	20/0	NURSERY	10/29/86	YES	CITY	10		A/B=SAMPLE#/SAMPLE DEPTH	

42	20/6	NURSERY	10/29/86	NO		0	A/B=SAMPLE#/SAMPLE DEPTH	
43	21/0	RANGE	10/29/86	YES	CITY	390	A/B=SAMPLE#/SAMPLE DEPTH	
44	21/6	RANGE	10/29/86	NO		0	A/B=SAMPLE#/SAMPLE DEPTH	
45	22/0	RANGE	10/29/86	YES	CITY	1200	A/B=SAMPLE#/SAMPLE DEPTH	
46	22/6	RANGE	10/29/86	YES	CITY	210	A/B=SAMPLE#/SAMPLE DEPTH	
47	23/0	RANGE	10/29/86	YES	CITY	860	A/B=SAMPLE#/SAMPLE DEPTH	
48	23/6	RANGE	10/29/86	YES	CITY	890	A/B=SAMPLE#/SAMPLE DEPTH	
49	24	NURSERY	10/29/86	YES	CITY	72	>0.71MM A/B=SAMPLE#/SAMPLE DEPTH	
50	24	NURSERY	10/29/86	YES	CITY	46	0.15-0.60MM A/B=SAMPLE#/SAMPLE DEPTH	
51	24	NURSERY	10/29/86	YES	CITY	110	<0.15MM A/B=SAMPLE#/SAMPLE DEPTH	
52	25	NURSERY	10/29/86	NO		0	A/B=SAMPLE#/SAMPLE DEPTH	
53	26/0	NURSERY	11/04/86	YES	CITY	1500	A/B=SAMPLE#/SAMPLE DEPTH	
54	27/0	NURSERY	11/04/86	YES	CITY	160	A/B=SAMPLE#/SAMPLE DEPTH	
55	27/6	NURSERY	11/04/86	NO		0	A/B=SAMPLE#/SAMPLE DEPTH	
56	28/0	NURSERY	11/04/86	YES	CITY	77	A/B=SAMPLE#/SAMPLE DEPTH	
57	28/6	NURSERY	11/04/86	NO		0	A/B=SAMPLE#/SAMPLE DEPTH	
58	29/0	NURSERY	11/04/86	YES	CITY	13000	A/B=SAMPLE#/SAMPLE DEPTH	
59	29/6	NURSERY	11/04/86	YES	CITY	2500	A/B=SAMPLE#/SAMPLE DEPTH	
60	29/OD1	NURSERY	11/04/86	YES	CITY	17000	A/B=SAMPLE#/SAMPLE DEPTH	D=DUPLICATE
61	29/OD2	NURSERY	11/04/86	YES	CITY	17000	A/B=SAMPLE#/SAMPLE DEPTH	D=DUPLICATE
62	9/9D1	RANGE	11/04/86	YES	CITY	10100	A/B=SAMPLE#/SAMPLE DEPTH	D=DUPLICATE
63	9/9D2	RANGE	11/04/86	YES	CITY	18600	A/B=SAMPLE#/SAMPLE DEPTH	D=DUPLICATE
64	9/9D3	RANGE	11/04/86	YES	CITY	13700	A/B=SAMPLE#/SAMPLE DEPTH	D=DUPLICATE
65	30/H2O	RANGE	11/13/86	YES	CITY	<0.1MG/L	SOLUABLE Pb	A/B=SAMPLE#/SAMPLE DEPTH
66	31/H2O	RANGE	11/13/86	YES	CITY	8.2MG/L	SOLUABLE Pb	A/B=SAMPLE#/SAMPLE DEPTH
67	32/0	NURSERY	11/13/86	YES	CITY	9600	A/B=SAMPLE#/SAMPLE DEPTH	
68	32/6	NURSERY	11/13/86	YES	CITY	25000	A/B=SAMPLE#/SAMPLE DEPTH	
69	33/0	NURSERY	11/13/86	YES	CITY	10000	A/B=SAMPLE#/SAMPLE DEPTH	
70	33/6	NURSERY	11/13/86	NO			A/B=SAMPLE#/SAMPLE DEPTH	
71	34/0	NURSERY	11/13/86	NO			A/B=SAMPLE#/SAMPLE DEPTH	
72	34/6	NURSERY	11/13/86	NO			A/B=SAMPLE#/SAMPLE DEPTH	

D=DUPLICATE
D=DUPLICATE
D=DUPLICATE
D=DUPLICATE
D=DUPLICATE
WATER SAMPLE
WATER SAMPLE

EXHIBIT B

SURFACE ISOCONCENTRATION CONTOURS



8/0-12 concentration Scale 1" = 20'