



2030 Addison Street, Suite 500 • Berkeley, California 94704 • 415 540-6954

November 3, 1988

Alameda County Health Agency
Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621

RECEIVED 87157.5
NOV 3 1988
HAZARDOUS MATERIALS/
WASTE PROGRAM

Attention: Mr. Lowell Miller

Subject: Stockpile Disposal
Mill Springs Park Apartments (Formerly Livermore Superblock)
Railroad Avenue, between South P and South L Streets
Livermore, CA


Dear Mr. Miller:

This letter addresses disposal of the two soil stockpiles generated during Phase I soil removal of the subject site. As discussed in our Interim Report dated September 12, 1988, chemical analyses were performed on composite samples of the excavated soils on a 100 cubic yard basis. Results of the chemical analyses were presented in the previously referenced Interim Report.

The chemical analyses indicate that hydrocarbon contamination levels were below 100 ppm for one stockpile. Copies of the chemical analyses for this stockpile were forwarded to the DePaoli Landfill Facility on North Vasco Road in Livermore for disposal approval. This soil stockpile material was accepted by the DePaoli Facility for disposal based on their review of the chemical analyses. This stockpile will be transported to this facility beginning November 3, 1988, after the soil stockpile has been aerated in accordance with the Final Closure Plan approved by you.

Results of chemical analyses on the second stockpile indicate that hydrocarbon concentrations exceed 100 ppm. In accordance with the approved Final Closure Plan this stockpile will be aerated and additional composite samples obtained for chemical analyses. Disposal destination of the stockpile will be determined once the additional chemical analyses have been performed and reviewed.

Respectfully Submitted,
AQUA RESOURCES INC.



Mark Milani, P.E.
Project Manager

copies: Addressee (1)

Barnett - Range Corporation (1)
P.O. Box 8189
Stockton, CA 95208-1489
Attention: Mr. Larry Malcolm

Regional Water Quality Control Board (1)
Attention: Ms. Lisa McCann



TABLE 4. SUMMARIZED RESULTS FOR ANALYSIS BY EPA METHOD 8270

Analyte	MDL ^b (ug/Kg)	Descriptor, Lab No ^a & Results (ug/Kg) ^a	
		COMP 8 ⁿ -1, 75 ¹ , (-7537) ^c	TP-(1-9) 3/31/88
Acenaphthene	33		ND ^d
Acenaphthylene	33		ND
Aldrin	33		ND
Anthracene	33		ND
Benzidine	33		ND
Benzo(a)anthracene	33		ND
Benzo(b)fluoranthene	33		ND
Benzo(k)fluoranthene	33		ND
Benzo(a)pyrene	33		ND
Benzo(ghi)perylene	33		ND
Benzyl butyl phthalate	33		ND
delta-BHC	33		ND
gamma-BHC	33		ND
Bis(2-chloroethyl)ether	33		ND
Bis(2-chloroethoxy)methane	33		ND
Bis(2-chloroisopropyl)ether	33		ND
Bis(2-ethylhexyl)phthalate	3,300		ND
4-Bromophenyl phenyl ether	33		ND
2-Chloronaphthalene	33		ND
4-Chlorophenyl phenyl ether	33		ND
Chrysene	33		ND
4,4'-DDD	33		ND
4,4'-DDE	33		ND
4,4'-DDT	33		ND
Dibenzo(a,h)anthracene	33		ND
Di-n-butyl phthalate	1,600		ND
1,2-Dichlorobenzene	33		ND
1,3-Dichlorobenzene	33		ND
1,4-Dichlorobenzene	33		ND
3,3'-Dichlorobenzidine	33		ND
Dieldrin	33		ND
Diethyl phthalate	33		ND
Dimethyl phthalate	8		ND
2,4-Dinitrotoluene	33		ND
2,6-Dinitrotoluene	33		ND
Di-n-octylphthalate	33		ND
Endrin aldehyde	33		ND
Fluoranthene	33		ND
Fluorene	33		ND
Heptachlor	33		ND
Heptachlor epoxide	33		ND
Hexachlorobenzene	33		ND
Hexachlorobutadiene	33		ND
Hexachlorocyclopentadiene	33		ND
Hexachloroethane	33		ND
Indeno(1,2,3-cd)pyrene	33		ND
Isophorone	33		ND
Naphthalene	33		ND
Nitrobenzene	33		ND
N-Nitrosodi-n-propylamine	1,300		ND
Phenanthrene	33		ND
Pyrene	33		ND
1,2,4-Trichlorobenzene	33		ND
4-Chloro-3-methylphenol	33		ND
2-Chlorophenol	33		ND
2,4-Dichlorophenol	33		ND
2,4-Dimethylphenol	33		ND
2,4-Dinitrophenol	825		ND
2-Methyl-4,6-dinitrophenol	1,650		ND
2-Nitrophenol	33		ND
4-Nitrophenol	825		ND
Pentachlorophenol	33		ND
Phenol	33		ND
2,4,6-Trichlorophenol	33		ND

^aug/Kg--Data are expressed in units of micrograms analyte per kilogram sample, as-received basis.

^bMDL--Method detection limit.

^cThe detection limits for this sample were 1,000x the listed MDLs.

^dND--Not detected at the listed method detection limit.



TABLE 4. SUMMARIZED RESULTS FOR ANALYSIS BY EPA METHOD 8270

Analyte	MDL ^b (ug/Kg)	Descriptor, Lab No & Results (ug/Kg) ^a
		COMP TP-(1-9) 8 ^m -1.75 ¹ 3/31/88 (-7537) ^c
Acenaphthene	33	ND ^d
Acenaphthylene	333	ND
Aldrin	333	ND
Anthracene	333	ND
Benzidine	333	ND
Benzo(a)anthracene	333	ND
Benzo(b)fluoranthene	333	ND
Benzo(k)fluoranthene	333	ND
Benzo(a)pyrene	333	ND
Benzo(ghi)perylene	333	ND
Benzyl butyl phthalate	333	ND
delta-BHC	333	ND
gamma-BHC	333	ND
Bis(2-chloroethyl)ether	333	ND
Bis(2-chloroethoxy)methane	333	ND
Bis(2-chloroisopropyl)ether	333	ND
Bis(2-ethylhexyl)phthalate	3,300	ND
4-Bromophenyl phenyl ether	333	ND
2-Chloronaphthalene	333	ND
4-Chlorophenyl phenyl ether	333	ND
Chrysene	333	ND
4,4'-DDD	333	ND
4,4'-DDE	333	ND
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Dibenzo(a,h)anthracene	333	ND
Di-n-butyl phthalate	1,650	ND
1,2-Dichlorobenzene	333	ND
1,3-Dichlorobenzene	333	ND
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Dieldrin	333	ND
Diethyl phthalate	333	ND
Dimethyl phthalate	825	ND
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2,6-Dinitrotoluene	333	ND
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Hexachlorocyclopentadiene	333	ND
Hexachloroethane	333	ND
Indeno(1,2,3-cd)pyrene	333	ND
Isophorone	333	ND
Naphthalene	333	ND
Nitrobenzene	333	ND
N-Nitrosodi-n-propylamine	1,320	ND
Phenanthrene	333	ND
Pyrene	333	ND
1,2,4-Trichlorobenzene	333	ND
4-Chloro-3-methylphenol	333	ND
2-Chlorophenol	333	ND
2,4-Dichlorophenol	333	ND
2,4-Dimethylphenol	333	ND
2,4-Dinitrophenol	825	ND
2-Methyl-4,6-dinitrophenol	1,650	ND
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4-Nitrophenol	825	ND
Pentachlorophenol	333	ND
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ANATEC
LABORATORIES
INC.

435 Tesconi Circle
Santa Rosa, CA 95401
707-526-7200
Fax 707-526-9623

Dewey Burbank
Aqua Resources, Inc.
2030 Addison Street, Ste 500
Berkeley, CA 94704

May 4, 1988
ANATEC Log No: 2744 (1-10)
Series No: 424/017
Client Ref: Proj 87157.3


Subject: Additional Results for Ten Soil Samples Identified as "Livermore Superblock" Received March 31, 1988.

Lab No.	Descriptor	Results (mg/Kg) ^a	
		Arsenic	Lead
7527	TP-1 4' 3/31/88	39	9.3
7528	TP-5 4' 3/31/88	16	4.8
7529	TP-6 4' 3/31/88	18	6.8
7530	TP-9 4' 3/31/88	12	5.7
7531	TP-9A 4' 3/31/88	19	5.4
7532	TP-1 1'-9" 3/31/88	140	49
7533	TP-5 1'-6" 3/31/88	92	99
7534	TP-6 1'-6" 3/31/88	13	49
7535	TP-9 1'-6" 3/31/88	8.8	120
7536	TP-9A 8" 3/31/88	33	2,000


^amg/Kg--Data are expressed as milligrams analyte per kilogram sample, as-received basis.

Please feel welcome to contact us should you have questions regarding procedures or results.

Submitted by:


Kim Hansard
Project Chemist

Approved by:


William G. Rotz
Project Manager

/ml

AQUA RESOURCES, INC.
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MAY 11 1988

JOB NO. 87157.03



ANATEC
LABORATORIES
INC.

435 Tesconi Circle
Santa Rosa, CA 95401
707-526-7200
Fax 707-526-9623

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7532	TP-1 1'-9" 3/31/88	140	49
7533	TP-5 1'-6" 3/31/88	92	99
7534	TP-6 1'-6" 3/31/88	13	49
7535	TP-9 1'-6" 3/31/88	8.8	120
7536	TP-9A 8" 3/31/88	33	2,000

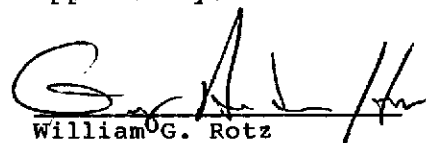
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Kim Hansard
Project Chemist

Approved by:


William G. Rotz
Project Manager

/ml

ANATEC LABORATORIES, INC.
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JOB NO. 37157.03

CONSTRUCTION 5514 DOYLE STREET, OAKLAND, CA 94608. TELEPHONE (415) 654-6706
MATERIALS
TESTING, INC.

REPORT No 1

ORDER NO. 734-80187

DATE May 5, 1988

CLIENT: Aqua Resources Inc.,
2030 Addison Street
Berkeley, CA 94704

DESCRIPTION: Asphalt Extraction

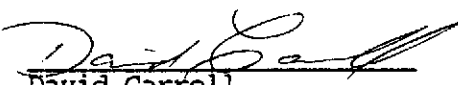
Construction Materials Testing received two (2) asphalt samples for oil extraction testing from Aqua Resources.

Sample # 1 was a mixture comprised mostly of sand with a small amount of aggregate and a near 10% oil content.

This sample was soft and yielding to the touch. Sample # 2 was a mixture comprised of a blended aggregate, approximately 4% oil content and was hard and unyielding typical of asphaltic concrete. Test results are as follows:

Sample #	Percentage of Oil (Bitum)
1 (Soft)	9.71%
2 (Hard)	3.95%

CONSTRUCTION MATERIALS TESTING


David Carroll
Laboratory Supervisor

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MAY 11 1988

JOB NO. 87157.4
Back-up

DC:ae
cc: 1- Client

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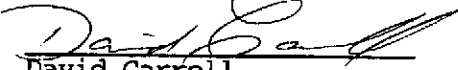
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