



PERFORMANCE EXCAVATORS

FAX TRANSMITTAL

FROM: PERFORMANCE EXCAVATORS, INC.

SENT BY: GREG RAINEY

OUR FAX NUMBER IS (415) 257-4644  
OUR TELEPHONE NUMBER IS (415) 257-4640

TO:	JONAS + ASSOCIATES
ATTENTION:	ROMENA JONAS
FAX NUMBER:	510 - 933-5362
TELEPHONE NUMBER:	510 - 933-5360
TODAY'S DATE:	10/31/95
TIME:	
NUMBER OF PAGES (Including Cover Sheet):	6

MESSAGE:	ANALYTICAL FOR THE EMERYVILLE TANK SITE
	- PERFORMED ON THE WATER CURRENTLY IN TANK

OCT-27-'95 FRI 17:24 ID:CHROMLAB INC

FAX NO: 510-484-1096

4032 P01

# CHROMALAB, INC.

Environmental Services (SES)

October 27, 1995

Submission #: 9510390

CITY OF EMERYVILLE

Atten: Mike Roberts/Larry Russel

Project: MJB

Received: October 26, 1995

re: One sample for CAM 17 Metals analysis.

Method: EPA 3010A M/6010/7470

Sample ID: SHELL MOUND JOB-MJB/SPCC.

Sample #: 100117

Matrix: WATER

Extracted: October 27, 1995

Sampled: October 26, 1995

Run: 9117-C

Analyzed: October 27, 1995

Analyte	RESULT	REPORTING	BLANK	BLANK	SPIKE
	(mg/L)	LIMIT	RESULT	RESULT	RESULT
	(mg/L)	(mg/L)	(mg/L)	(%)	
ANTIMONY	N.D.	0.02	N.D.		105
ARSENIC	N.D.	0.01	N.D.		99
BARIUM	0.03	0.01	N.D.		109
BERYLLIUM	N.D.	0.005	N.D.		112
CADMIUM	N.D.	0.005	N.D.		106
CHROMIUM	N.D.	0.01	N.D.		109
COBALT	N.D.	0.01	N.D.		109
COPPER	0.23	0.01	N.D.		109
LEAD	0.87	0.01	N.D.		107
POLYBROMINE	0.94	0.01	N.D.		106
NICKEL	0.04	0.01	N.D.		109
SELENIUM	0.03	0.01	N.D.		103
SILVER	N.D.	0.01	N.D.		103
THALLIUM	N.D.	0.02	N.D.		100
VANADIUM	0.01	0.01	N.D.		111
ZINC	0.16	0.01	N.D.		107
MERCURY	N.D.	0.001	N.D.		88

*Charles Woolley*  
 Charles Woolley  
 Chemist

*John B. Labash*  
 John B. Labash  
 Inorganic Supervisor

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CHROMALAB M02:8

10/27 '95 17:37

OCT-27-'95 FRI 16:54 ID:CHROMLAB INC

FRM NO:518-484-1096

#349 PB1

# CHROMALAB, INC.

Environmental Services (ESD)

October 27, 1995

Submission #: 9510390

CITY OF EMERYVILLE

Atten: Mike Roberts/Larry Russel

Project: MJB

Received: October 26, 1995

re: One sample for Volatile Organic Compounds analysis.

Method: EPA 8240/8260

Sample ID: SHELL MOUND JOB-MJB/SPEC.

Sample #: 108117

MATRIX: WATER

Sampled: October 26, 1995

Run: 9127-A

Analysed: October 27, 1995

Analyte	RESULT	REPORTING	BLANK	BLANK	SPIKE
	(ug/L)	LIMIT	RESULT	RESULT	(%)
ACETONE	4100	1000	N.D.		
BENZENE	2000	500	N.D.		101
BROMODICHLOROMETHANE	N.D.	2.0	N.D.		
BROMOFORM	N.D.	2.0	N.D.		
BROMOMETHANE	N.D.	2.0	N.D.		
METHYL ETHYL KETONE	1600	500	N.D.		
CARBON TETRACHLORIDE	N.D.	2.0	N.D.		100
CHLOROBENZENE	N.D.	2.0	N.D.		
CHLOROETHANE	N.D.	2.0	N.D.		
2-CHLOROETHYL VINYL ETHER	N.D.	2.0	N.D.		
CHLOROFORM	N.D.	2.0	N.D.		
CHLOROMETHANE	N.D.	2.0	N.D.		
DIBROMOCHLOROMETHANE	N.D.	2.0	N.D.		
1,1-DICHLOROETHANE	N.D.	2.0	N.D.		
1,2-DICHLOROETHANE	860	500	N.D.		
1,1-DICHLOROETHENE	N.D.	2.0	N.D.		80
CIS-1,2-DICHLOROETHENE	N.D.	2.0	N.D.		
TRANS-1,2-DICHLOROETHENE	N.D.	2.0	N.D.		
1,2-DICHLOROPROPANE	N.D.	2.0	N.D.		
CIS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.		
TRANS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.		
ETHYLBENZENE	1700	500	N.D.		
2-HEXANONE	N.D.	2.0	N.D.		
METHYLENE CHLORIDE	N.D.	2.0	N.D.		
METHYL ISOBUTYL KETONE	N.D.	2.0	N.D.		
STYRENE	N.D.	2.0	N.D.		
1,1,2,2-TETRACHLOROETHANE	N.D.	2.0	N.D.		
TETRACHLOROETHENE	N.D.	2.0	N.D.		
TOLUENE	24000	500	N.D.		91
1,1,1-TRICHLOROETHANE	N.D.	2.0	N.D.		
1,1,2-TRICHLOROETHANE	N.D.	2.0	N.D.		
TRICHLOROETHENE	N.D.	2.0	N.D.		98
TRICHLOROFLUOROMETHANE	N.D.	2.0	N.D.		
VINYL ACETATE	N.D.	2.0	N.D.		
VINYL CHLORIDE	28	500	N.D.		
TOTAL XYLENES	17000		N.D.		

*Arion McMichael*  
Arion McMichael  
Chemist

*Ali Khayrasi*  
Ali Khayrasi  
Organic Manager

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NO. CHROMALAB (1988)

10/27 '95 17:07

*CAL 000046817*

OCT-27-'95 FRI 16:14 ID:CHROMLAB INC

FRX NO:510-404-1096

K345 P02

# CHROMALAB, INC.

Environmental Services (EUS)

October 27, 1995

Submission #: 9510390

CITY OF EMERYVILLE

Atten: Mike Roberts/Larry Russel

Project: MJB

Received: October 26, 1995

re: 1 sample for pH analysis.

Method: EPA 9040/9045

Sampled: October 26, 1995

Matrix: WATER

Extracted: October 27, 1995

Run: 9119-C

Analysed: October 27, 1995

PH	REPORTING	BLANK	BLANK	SPIN
(UNITS)	LIMIT	RESULT	RESULT	RESULT
(UNITS)	(UNITS)	(UNITS)	(%)	(%)
1.7	0.1	N.D.	-	-

PH Sample ID  
 108117 SHELL MOUND JOB-  
 VJB/SPEC.



*Carol House*  
 Carolyn House  
 Extractions Supervisor

*Ali Kharfasi*  
 Ali Kharfasi  
 Organic Manager

PH = 10.9

# CHROMALAB, INC.

Environmental Services (SES)

October 27, 1995

Submission #: 9510390

CITY OF EMERYVILLE

Atten: Mike Roberts/Larry Russel

Project: MJB

Received: October 26, 1995

re: One sample for 8080 MOD PCBs - WATER analysis.  
Method: MOD. EPA 3510/8080

Sample ID: SHELL MOUND JOB-MJB/SPEC.

Sample #: 108117

Matrix: WATER

Extracted: October 27, 1995

Sampled: October 26, 1995

Run: 9123-D

Analyzed: October 27, 1995

Analyte	RESULT	REPORTING	BLANK	BLANK	SPIKE
	(ug/L)	LIMIT	RESULT	RESULT	RESULT
	(ug/L)	(ug/L)	(ug/L)	(%)	(%)
AROCLOR 1016	N.D.	0.5	N.D.	--	--
AROCLOR 1221	N.D.	0.5	N.D.	--	--
AROCLOR 1232	N.D.	0.5	N.D.	--	--
AROCLOR 1242	N.D.	0.5	N.D.	--	--
AROCLOR 1248	N.D.	0.5	N.D.	--	--
AROCLOR 1254	N.D.	0.5	N.D.	--	--
AROCLOR 1260	N.D.	0.5	N.D.	--	96

Dennis Nayuga  
Chemist

  
Ali Kharrari  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SES)

October 27, 1995

Submission #: 9510390

CITY OF EMERYVILLE

Atten: Mike Roberts/Larry Russel

Project: MJB  
Received: October 26, 1995

re: One sample for 8270 WATER BASE NEUTRAL ACID EXTRACTABLES analysis.  
Method: EPA 3510/8270

Sample ID: SHELL MOUND JOB-MJB/SPEC.      Matrix: WATER      Extracted: October 27, 1995  
Sample #: 108117      Run: 9126-A      Analyzed: October 27, 1995  
Sampled: October 26, 1995

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK RESULT (ug/L)	SPIKE RESULT (ug/L)
PHENOL	110	100	N.D.		
BIS(2-CHLOROETHYL) ETHER	N.D.	100	N.D.		
2-CHLOROPHENOL	N.D.	100	N.D.		25
1,3-DICHLOROBENZENE	N.D.	100	N.D.		
1,4-DICHLOROBENZENE	N.D.	100	N.D.		
BENZYL ALCOHOL	N.D.	250	N.D.		
1,2-DICHLOROBENZENE	N.D.	100	N.D.		
O-METHYLPHENOL	370	100	N.D.		
BIS(2-CHLOROISOPROPYL) ETHER	N.D.	100	N.D.		
m-D-METHYLPHENOL	190	100	N.D.		40
N-NITROSO-DI-N-PROPYLAMINE	N.D.	100	N.D.		
HEXACHLOROETHANE	N.D.	100	N.D.		
NITROBENZENE	N.D.	100	N.D.		
ISOPHORONE	N.D.	100	N.D.		
2-NITROPHENOL	200	100	N.D.		
2,4-DIMETHYL PHENOL	N.D.	250	N.D.		
BIS(2-CHLOROETHOXY) METHANE	N.D.	100	N.D.		
2,4-DICHLOROPHENOL	N.D.	100	N.D.		50
1,2,4-TRICHLOROBENZENE	N.D.	100	N.D.		
NAPHTHALENE	470	100	N.D.		
4-CHLOROANILINE	N.D.	250	N.D.		
HEXACHLOROBTADIENE	N.D.	100	N.D.		3
4-CHLORO-3-METHYLPHENOL	N.D.	200	N.D.		
2-METHYLNAPHTHALENE	N.D.	100	N.D.		
HEXACHLOROCHLOROTADIENE	N.D.	100	N.D.		
2,4,6-TRICHLOROPHENOL	N.D.	100	N.D.		
2,4,5-TRICHLOROPHENOL	N.D.	100	N.D.		
2-CHLORONAPHTHALENE	N.D.	100	N.D.		
2-NITROANILINE	N.D.	100	N.D.		
DIMETHYL PHTHALATE	N.D.	100	N.D.		
ACENAPHTHYLENE	N.D.	100	N.D.		
3-NITROANILINE	N.D.	100	N.D.		48
ACENAPHTHENE	N.D.	500	N.D.		
2,6-DINITROPHENOL	N.D.	500	N.D.		
4-NITROPHENOL	N.D.	100	N.D.		
DIBENZOFURAN	N.D.	100	N.D.		
2,6-DINITROTOLUENE	N.D.	250	N.D.		
2,6-DINITROTOLUENE	N.D.	100	N.D.		
DIETHYL PHTHALATE	N.D.		N.D.		

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EP-80-01000-017

10/27 '95 16:50

OCT-27 '95 FRI 16:36 ID:CHROMLAB INC

FRN NO:518-484-1896

K347 P83

# CHROMALAB, INC.

Environmental Services (SES)

October 27, 1995

Submission #: 9510390  
page 2

CITY OF EMERYVILLE

Atten: Mike Roberts/Larry Russel

Project: NJB

Received: October 26, 1995

re: One sample for 8270 WATER BASE NEUTRAL ACID EXTRACTABLES analysis, continued.

Method: EPA 3510/8270

Sample ID: BURL MOUND JOB-NJB/SVBC.

Sample #: 108117

MATRIX: WATER

Extracted: October 27, 1995

Sampled: October 26, 1995

Run: 9126-A

Analyzed: October 27, 1995

Analyte	RESULT	REPORTING	BLANK	BLANK	SPIKE
	(ug/L)	LIMIT	RESULT	RESULT	RESULT
		(ug/L)	(ug/L)	(ug/L)	(%)
1-CHLOROPHENYLPHENYLETHER	N.D.	100	N.D.		
FLOURENE	N.D.	250	N.D.		
4-NITROANILINE	N.D.	100	N.D.		
4,6-DINITRO-2-METHYLPHENOL	N.D.	500	N.D.		
N-NITROSODI-N-PHENYLAMINE	N.D.	100	N.D.		
4-BROMOPHENYLPHENYLETHER	N.D.	250	N.D.		
HEXACHLOROBENZENE	N.D.	100	N.D.		
PENTACHLOROPHENOL	N.D.	500	N.D.		60
PERYFLUORENE	N.D.	100	N.D.		
ANTHRACENE	N.D.	100	N.D.		
DI-N-BUTYL PHTHALATE	N.D.	250	N.D.		
FLUORANTHENE	N.D.	100	N.D.		
PYRENE	N.D.	100	N.D.		50
BUTYL BENZYL PHTHALATE	N.D.	100	N.D.		
3,3'-DICHLOROBENZIDINE	N.D.	250	N.D.		
BENZO (A) ANTHRACENE	N.D.	100	N.D.		
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	100	N.D.		
CHRYSENE	N.D.	100	N.D.		
DI-N-OCTYLPHTHALATE	N.D.	250	N.D.		
BENZO (B) FLUORANTHENE	N.D.	100	N.D.		
BENZO (K) FLUORANTHENE	N.D.	100	N.D.		
BENZO (A) PYRENE	N.D.	100	N.D.		
INDENO (1,2,3-CD) PYRENE	N.D.	100	N.D.		
DIBENZO (A, H) ANTHRACENE	N.D.	100	N.D.		
BENZ (GHI) PERYLENE	N.D.	100	N.D.		
BENZOIC ACID	N.D.	100	N.D.		

For above sample:

REPORTING LIMITS RAISED DUE TO MATRIX INTERFERENCE

  
Alex Tam  
Chemist

  
Ali Kharrazi  
Organic Manager

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Page 2 of 2

RECEIVED

10/27 '95 16:51