BioVir Laboratories, Inc.

685 Stone Road, Unit 6 · Benicia, CA 94510 · (707) 747-5906 · 1-800-GIARDIA · FAX (707) 747-1751 · WEB: www.biovir.com

PRELIMINARY REPORT OF SAMPLE EVALUATION

REPORT NO.: S011321A through S011321H

PAGE NO.: 1 of 2

CLIENT ADDRESS: San Leandro WPCP
3000 Davis Street
San Leandro, CA 94577

CLIENT NO.: SAN020

ASSAY RESULTS:

1.	Helminth Ova Assay: (EPA 600/1-87/014)			
		Analysis Begun Date: 09/06/01	Time: 12:00	Analyst Initials: DG
2.	Enteric Virus Assay: (ASTM D 4994-89)			
		Analysis Begun Date: 08/31/01	Time: 12:07	Analyst Initials: GF
3.	Salmonella Assay: (SM 18:9260D.1)			
		Analysis Begun Date: 08/31/01	Time: 08:57	Analyst Initials: RI
4.	Fecal Coliform Assay: (SM 18th; 9221E.1)			
		Analysis Begun Date: 08/31/01	Time: 09:43	Analyst Initials: RI
5.	Total Solids Assay: (SM 18th; 2540B)			
		Analysis Begun Date: 08/30/01	Time: 16:14	Analyst Initials: RC

FOR RESULTS PLEASE SEE PAGE 2 OF THIS REPORT

REPORT NO.: S011321A-H
CLIENT NO.: SAN020
PAGE NO.: 2 of 2

CONTACT NAME: Shahed Abbasi SAMPLE LOCATION: San Leandro W.P.C.P. (Sludge Bed #12) SAMPLE DATE/TIME: 08/30/01 10:30 SAMPLE SOURCE: Discrete Grabs
SAMPLE RECEIVED DATE/TIME: 08/30/01 15:31 PROJECT NAME: Class A PathBed #14 Dried Sludge, Class A Pathogens

BIOVIR ID#	SAMPLE ID#	SAMPLE VOLUME	% TOTAL SOLIDS (TS)	FECAL COLIFORM MPN/1.0 GRAM TS	SALMONELLA MPN /4 GRAMS TS	VIABLE HELMINTH OVA* /4 GRAMS TS	ENTERIC VIRUS* PFU /4 GRAMS TS
S011321A	Grab 1	254 g	91.25	<2	<2.2		
S011321B	Grab 2	255 g	88.27	<2	<2.2		
S011321C	Grab 3	251 g	88.79	<2	<2.2		
S011321D	Grab 4	252 g	87.21	<2	<2.2		
S011321E	Grab 5	247 g	87.02	<2	<2.2		
S011321F	Grab 6	252 g	85.57	<2	<2.2		
S011321G	Grab 7	256 g	87.99	<2	<2.2		
S011321H-1	Composite	257 g	88.11				
S011321H-2							
S011321H-3							
S011321H-4							

"Less than" results represent the lowest detection limit for this assay.
*Helminth Ova and Enteric Virus on test.

SAMPLE EVALUATION PERFORMANCE CRITERIA: The precise rates of recovery of organisms from environmental samples cannot be determined. BioVir Laboratories has analyzed your sample(s) in accordance with the method described with each analyte above, however, due to inherent limitations of these methods organisms may avoid detection. For additional information regarding the limitations of the method(s) referred to above please call us at 1-800-GIARDIA.

COMPANY IS NOT AN INSURER: BioVir Laboratories is not an insurer or guarantor of the quality and/or purity of water, wastewater, biosolid or other material from which the sample was taken. BioVir offers no express or implied warranties whatsoever concerning the quality or purity of any water, wastewater, biosolid or other material which is ultimately consumed, distributed, applied or otherwise disposed.

COMPLETION DATE

SIGNATURE/DATE

CONTACT NAME: Shahed Abbasi SAMPLE LOCATION: San Leandro W.P.C.P. (Sludge Bed #12) SAMPLE DATE/TIME: 08/30/01 10:30 SAMPLE SOURCE: Discrete Grabs
SAMPLE RECEIVED DATE/TIME: 08/30/01 15:31 PROJECT NAME: Class A PathBed #14 Dried Sludge, Class A Pathogens

BIOVIR ID#	SAMPLE ID#	SAMPLE VOLUME	% TOTAL SOLIDS (TS)	FECAL COLIFORM MPN/1.0 GRAM TS	SALMONELLA MPN /4 GRAMS TS	VIABLE HELMINTH OVA* /4 GRAMS TS	ENTERIC VIRUS* PFU /4 GRAMS TS
S011321A	Grab 1	254 g	91.25	<2	<2.2		
S011321B	Grab 2	255 g	88.27	<2	<2.2		
S011321C	Grab 3	251 g	88.79	<2	<2.2		
S011321D	Grab 4	252 g	87.21	<2	<2.2		
S011321E	Grab 5	247 g	87.02	<2	<2.2		
S011321F	Grab 6	252 g	85.57	<2	<2.2		
S011321G	Grab 7	256 g	87.99	<2	<2.2		
S011321H-1	Composite	257 g	88.11			<1	<1
S011321H-2						<1	<1
S011321H-3						<1	<1
S011321H-4						<1	<1.1

"Less than" results represent the lowest detection limit for this assay.
*Helminth Ova and Enteric Virus on test.

SAMPLE EVALUATION PERFORMANCE CRITERIA: The precise rates of recovery of organisms from environmental samples cannot be determined. BioVir Laboratories has analyzed your sample(s) in accordance with the method described with each analyte above, however, due to inherent limitations of these methods organisms may avoid detection. For additional information regarding the limitations of the method(s) referred to above please call us at 1-800-GIARDIA.
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10-17-01
COMPLETION DATE

Richard E Daniel
SIGNATURE/DATE

10-16-01

D:\WP\REPDIR\San020-SanLeandro\S011321A-H.wpd

10-16-201 4:19PM FROM BIOVIR LABS INC 707 747 1751 P.3

BioVir LABORATORIES

FAX

BioVir Laboratories, Inc. 685 Stone Road, Unit 6, Benicia, CA 94510
1-800-442-7342, Fax 707-747-1751

To Shahed Abbasi Date 9-4-01

Company San Leandro WPCP

Fax Number 510-636-9501

From Liz

Number of Pages (After Cover Page) 2

Comment Preliminary report for Salmonella and Fecal Coliform

City of San Leandro, Bed #12 sludge produced in 2000

ATTN: John Pugliaresi Fax # 510-613-2837

Inorganic Substances			Sampled Date 8/30/01			Organic Subtances				
Analyte	STLC *	TTLC**	Analysis	Analysis	Dry Weight	Analyte	STLC	TTLC	Analysis	Analysis
	mg/L	mg/Kg	STLC, mg/L	TTLC, mg/Kg	mg/L		mg/L	mg/Kg	STLC, mg/L	TTLC, mg/Kg
Antimony	15	500		<1.9	<2.3	Aldrin	0.14	1.4		<0.02
Arsenic	5	500		17	20	Chlordane	0.25	2.5		<0.4
Barium	100	10,000		410	477	DDT, DDE,DDD	0.1	1.0		<0.28
Beryllium	1	75		<0.49	<0.57	2,4-Dichlrophenoxy-Acetic Acid	10.0	100		0.36
Cadmium	1	100		2.6	3.0	Dieldrin	0.8	8.0		<0.04
Chromium(IV)	5	500		<8.3	<9.9	Dioxin (2,3,7,8-TCDD)	0.001	0.01		0.000024
Chromium(III	560	2,500		45	52	Endrin	0.02	0.2		<0.04
Cobalt	80	8,000		4.6	5.3	Heptachlor	0.47	4.7		<0.02
Copper	25	2,500	6.0	370	430	Kepone	2.1	21		<1.0
Fluoride	180	18,000		77	89.5	Lead compounds, Organic	----	13		<1.0
Lead	5	1,000	1.1	52.0	60.5	Lindane	0.4	4.0		<0.02
Mercury	0.2	20		1.5	1.7	Methoxychlor	10	100		<0.4
Molybdenum	350	3,500		25	29.1	Mirex	2.1	21		2.7
Nickel	20	2,000		31	36.0	Pentachlorophenol	1.7	17		<12
Selenium	1	100		<4.9	<5.7	Polychlorinated Biphenyl (PCBs)	5	50		<4
Silver	5	500	0.11	210	244	Toxaphene	0.5	5		<1.6
Thallium	7	700		2.5	2.9	Trichlorethylene	204	2,040		<0.1
Vanadium	24	2,400		11.0	12.8	2,4,5-Trichlorophenoxypropionic Acid	1.0	10		<0.04
Zinc	250	5,000		730	849	Organic Nitrogen				16,000
						Nitrate as N				2,500
						TKN				16,000
						Ammonia as N				180
						Cyanide				6.6

* STLC: Soluble Threshold Limit Concentration

** TTLC: Total Threshold Limit Concentration on Wet basis

Moisture 14.0%

G:\Shahed|Sludge\12BED2001

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
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City of San Leandro	Project: San Leandro	
3000 Davis Street	Project Number: WPCP	Reported:
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:25

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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City of San Leandro	Project: -	
3000 Davis Street	Project Number: -	Reported:
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:18

	Laboratory ID	Matrix	Date Sampled	Date Received
Sludge Bed #12	MKH0655-01	Soil	08/30/01 10:30	08/31/01 10:10

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James Hartley, Project Manager

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885 Jarvis Drive
Morgan Hill, CA 95037
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City of San Leandro	Project: San Leandro	
3000 Davis Street	Project Number: WPCP	**Reported:**
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:25

Total Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J01032 - General Preparation										
Blank (1J01032-BLK1)				Prepared & Analyzed: 10/01/01						
Hexavalent Chromium	ND	8.3	mg/kg							
LCS (1J01032-BS1)				Prepared & Analyzed: 10/01/01						
Hexavalent Chromium	85.8	8.3	mg/kg	83.3		103	80-120			
Matrix Spike (1J01032-MS1)	**Source: MKI0573-01**			Prepared & Analyzed: 10/01/01						
Hexavalent Chromium	86.7	8.3	mg/kg	83.3	ND	104	75-125			
Matrix Spike Dup (1J01032-MSD1)	**Source: MKI0573-01**			Prepared & Analyzed: 10/01/01						
Hexavalent Chromium	86.0	8.3	mg/kg	83.3	ND	103	75-125	0.811	20	

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City of San Leandro	Project: -	
3000 Davis Street	Project Number: -	Reported:
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:18

STLC CAM Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Morgan Hill

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sludge Bed #12 (MKH0655-01) Soil	**Sampled: 08/30/01 10:30**		**Received: 08/31/01 19:10**							
Silver	**0.11**		0.020	mg/l	1	1J01021	10/01/01	10/01/01	EPA 6010A	
Copper	**6.0**		0.020	"	"	"	"	"	"	
Lead	**1.1**		0.20	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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City of San Leandro	Project: San Leandro	
3000 Davis Street	Project Number: WPCP	**Reported:**
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:25

Total Metals by EPA 6000/7000 Series Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sludge Bed 12 (MK10573-01) Soil Sampled: 09/27/01 09:50 Received: 09/27/01 18:30									
Hexavalent Chromium	ND	8.3	mg/kg	1	1J01032	10/01/01	10/01/01	EPA 7196A	

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City of San Leandro	Project: -	Reported:
3000 Davis Street	Project Number: -	
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:18

Organochlorine Pesticides by EPA Method 8081
Sequoia Analytical - Morgan Hill

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sludge Bed #12 (MKH0655-01) Soil	**Sampled: 08/30/01 10:30**		**Received: 08/31/01 19:10**							
Kepone	ND		1000	ug/kg	50	1106011	09/06/01	09/13/01	EPA 8081A	A-01
Mirex	**2700**		1000	"	"	"	"	"	"	A-01
Aldrin	ND		20	"	20	"	"	"	"	
alpha-BHC	ND		20	"	"	"	"	"	"	
beta-BHC	ND		20	"	"	"	"	"	"	
delta-BHC	ND		40	"	"	"	"	"	"	R-01
gamma-BHC (Lindane)	ND		20	"	"	"	"	"	"	
Chlordane (tech)	ND		400	"	"	"	"	"	"	
4,4'-DDD	ND		120	"	"	"	"	"	"	
4,4'-DDE	ND		40	"	"	"	"	"	"	
4,4'-DDT	ND		120	"	"	"	"	"	"	
Dieldrin	ND		40	"	"	"	"	"	"	
Endosulfan I	ND		40	"	"	"	"	"	"	
Endosulfan II	ND		40	"	"	"	"	"	"	
Endosulfan sulfate	ND		120	"	"	"	"	"	"	
Endrin	ND		40	"	"	"	"	"	"	
Endrin aldehyde	ND		120	"	"	"	"	"	"	
Endrin ketone	ND		120	"	"	"	"	"	"	
Heptachlor	ND		20	"	"	"	"	"	"	
Heptachlor epoxide	ND		20	"	"	"	"	"	"	
Methoxychlor	ND		400	"	"	"	"	"	"	
Toxaphene	ND		1600	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*156 %*	*30-150*			"	"	"	"	*S-03*
Surrogate: Decachlorobiphenyl		*70.0 %*	*30-150*			"	"	"	"	

Sequoia Analytical - Morgan Hill

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James Hartley, Project Manager

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(408) 776-9600
FAX (408) 782-6308
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3 October, 2001

J.Abbasi
City of San Leandro
3000 Davis Street
San Leandro, CA 94577

RE: San Leandro
Sequoia Report: MKI0573

Enclosed are the results of analyses for samples received by the laboratory on 09/27/01 18:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley
Project Manager

City of San Leandro	Project: -	
3000 Davis Street	Project Number: -	Reported:
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:18

Chlorinated Herbicides by EPA Method 8151
Sequoia Analytical - Morgan Hill

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sludge Bed #12 (MKH0655-01) Soil	**Sampled: 08/30/01 10:30**		**Received: 08/31/01 19:10**							
2,4-D	**360**		40	ug/kg	1	1107012	09/07/01	09/12/01	EPA 8151	
2,4-DB	ND		40	"	"	"	"	"	"	
2,4,5-T	ND		40	"	"	"	"	"	"	
2,4,5-TP (Silvex)	ND		40	"	"	"	"	"	"	
Dalapon	ND		40	"	"	"	"	"	"	
Dicamba	ND		40	"	"	"	"	"	"	
Dichlorprop	**97**		40	"	"	"	"	"	"	
Dinoseb	ND		40	"	"	"	"	"	"	
MCPA	ND		20000	"	"	"	"	"	"	
MCPP	ND		20000	"	"	"	"	"	"	
Surrogate: Dichlorophenylacetic acid		*80.2 %*	*30-150*			"	"	"	"	

Sequoia Analytical - Morgan Hill

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James Hartley, Project Manager

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City of San Leandro	Project: -	
3000 Davis Street	Project Number: -	**Reported:**
San Leandro CA, 94577	Project Manager: S.Abbasi	10/05/01 17:22

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J04018 - EPA 3550A Sonication										
LCS (1J04018-BS1)				Prepared & Analyzed: 10/04/01						
Acenaphthene	1.56	0.25	mg/kg	1.67		93.4	31-137			
4-Chloro-3-methylphenol	1.42	0.25	"	1.67		85.0	26-103			
2-Chlorophenol	1.47	0.25	"	1.67		88.0	25-102			
1,4-Dichlorobenzene	1.22	0.25	"	1.67		73.1	28-104			
2,4-Dinitrotoluene	1.68	0.25	"	1.67		101	28-89			Q-29
4-Nitrophenol	0.592	0.50	"	1.67		35.4	11-114			
N-Nitrosodi-n-propylamine	1.44	0.25	"	1.67		86.2	41-126			
Pentachlorophenol	1.37	0.50	"	1.67		82.0	17-109			
Phenol	1.43	0.25	"	1.67		85.6	26-90			
Pyrene	1.37	0.25	"	1.67		82.0	35-142			
1,2,4-Trichlorobenzene	1.45	0.25	"	1.67		86.8	38-107			
Surrogate: 2-Fluorophenol	*1.29*		"	*1.67*		*77.2*	*25-121*			
Surrogate: Phenol-d6	*1.42*		"	*1.67*		*85.0*	*24-113*			
Surrogate: Nitrobenzene-d5	*1.53*		"	*1.67*		*91.6*	*23-120*			
Surrogate: 2-Fluorobiphenyl	*1.68*		"	*1.67*		*101*	*30-115*			
Surrogate: 2,4,6-Tribromophenol	*1.70*		"	*1.67*		*102*	*19-122*			
Surrogate: p-Terphenyl-d14	*1.51*		"	*1.67*		*90.4*	*18-137*			
LCS Dup (1J04018-BSD1)				Prepared & Analyzed: 10/04/01						
Acenaphthene	1.43	0.25	mg/kg	1.67		85.6	31-137	8.70	40	
4-Chloro-3-methylphenol	1.38	0.25	"	1.67		82.6	26-103	2.86	40	
2-Chlorophenol	1.60	0.25	"	1.67		95.8	25-102	8.47	40	
1,4-Dichlorobenzene	1.30	0.25	"	1.67		77.8	28-104	6.35	40	
2,4-Dinitrotoluene	1.51	0.25	"	1.67		90.4	28-89	10.7	40	Q-29
4-Nitrophenol	0.556	0.50	"	1.67		33.3	11-114	6.27	40	
N-Nitrosodi-n-propylamine	1.52	0.25	"	1.67		91.0	41-126	5.41	40	
Pentachlorophenol	1.46	0.50	"	1.67		87.4	17-109	6.36	40	
Phenol	1.46	0.25	"	1.67		87.4	26-90	2.08	40	
Pyrene	1.37	0.25	"	1.67		82.0	35-142	0.00	40	
1,2,4-Trichlorobenzene	1.33	0.25	"	1.67		79.6	38-107	8.63	40	
Surrogate: 2-Fluorophenol	*1.35*		"	*1.67*		*52.6*	*25-121*			
Surrogate: Phenol-d6	*1.41*		"	*1.67*		*84.4*	*24-113*			
Surrogate: Nitrobenzene-d5	*1.47*		"	*1.67*		*88.0*	*23-120*			
Surrogate: 2-Fluorobiphenyl	*1.59*		"	*1.67*		*95.2*	*30-115*			
Surrogate: 2,4,6-Tribromophenol	*1.57*		"	*1.67*		*94.0*	*19-122*			
Surrogate: p-Terphenyl-d14	*1.52*		"	*1.67*		*91.0*	*18-137*			

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City of San Leandro	Project: -	Reported:
3000 Davis Street	Project Number: -	
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:18

Miscellaneous Physical/Conventional Chemistry Parameters
Sequoia Analytical - Morgan Hill

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sludge Bed #12 (MKH0655-01) Soil	**Sampled: 08/30/01 10:30**		**Received: 08/31/01 19:10**							
Organic Nitrogen	**16000**		1.0	mg/kg	1	H26017	09/26/01	09/26/01	SM 4500-Norg	

Sequoia Analytical - Morgan Hill

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James Hartley, Project Manager

Sequoia Analytical

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Morgan Hill, CA 95037
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FAX (408) 782-6308
www.sequoialabs.com

City of San Leandro	Project: -	
3000 Davis Street	Project Number: -	**Reported:**
San Leandro CA, 94577	Project Manager: S.Abbasi	10/05/01 17:22

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J04018 - EPA 3550A Sonication										
Blank (1J04018-BLK1)			Prepared & Analyzed: 10/04/01							
Acenaphthene	ND	0.25	mg/kg							
Acenaphthylene	ND	0.25	"							
Anthracene	ND	0.25	"							
Benzoic acid	ND	0.50	"							
Benzo (a) anthracene	ND	0.25	"							
Benzo (b) fluoranthene	ND	0.25	"							
Benzo (k) fluoranthene	ND	0.25	"							
Benzo (ghi) perylene	ND	0.25	"							
Benzo[a]pyrene	ND	0.25	"							
Benzyl alcohol	ND	0.25	"							
Bis(2-chloroethoxy)methane	ND	0.25	"							
Bis(2-chloroethyl)ether	ND	0.25	"							
Bis(2-chloroisopropyl)ether	ND	0.25	"							
Bis(2-ethylhexyl)phthalate	ND	0.50	"							
4-Bromophenyl phenyl ether	ND	0.25	"							
Butyl benzyl phthalate	ND	0.25	"							
4-Chloroaniline	ND	0.50	"							
2-Chloronaphthalene	ND	0.25	"							
4-Chloro-3-methylphenol	ND	0.25	"							
2-Chlorophenol	ND	0.25	"							
4-Chlorophenyl phenyl ether	ND	0.25	"							
Chrysene	ND	0.25	"							
Dibenz (a,h) anthracene	ND	0.25	"							
Dibenzofuran	ND	0.25	"							
Di-n-butyl phthalate	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.25	"							
1,3-Dichlorobenzene	ND	0.25	"							
1,4-Dichlorobenzene	ND	0.25	"							
3,3'-Dichlorobenzidine	ND	0.50	"							
2,4-Dichlorophenol	ND	0.25	"							
Diethyl phthalate	ND	0.25	"							
2,4-Dimethylphenol	ND	0.25	"							
Dimethyl phthalate	ND	0.25	"							
4,6-Dinitro-2-methylphenol	ND	0.50	"							
2,4-Dinitrophenol	ND	0.50	"							
2,4-Dinitrotoluene	ND	0.25	"							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

City of San Leandro	Project: -	
3000 Davis Street	Project Number: -	Reported:
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:18

Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sludge Bed #12 (MKH0655-01) Soil	**Sampled: 08/30/01 10:30**		**Received: 08/31/01 19:10**							
Cyanide (total)	**6.6**		0.50	mg/kg	1	1090213	09/12/01	09/12/01	EPA 335.2	
Total Kjeldahl Nitrogen	**16000**		400	"	20	1090210	09/12/01	09/14/01	EPA 351.2	

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

James Hartley, Project Manager

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialab.com

City of San Leandro	Project: -	
3000 Davis Street	Project Number: -	**Reported:**
San Leandro CA, 94577	Project Manager: S.Abbasi	10/05/01 17:22

Semivolatile Organic Compounds by EPA Method 8270C

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sludge Bed 12/MKI0573 (MKJ0076-01) Soil	**Sampled: 09/27/01 09:50**	**Received: 10/04/01 16:04**							
Acenaphthene	ND	6.2	mg/kg	10	1J04018	10/04/01	10/05/01	EPA 8270B	
Acenaphthylene	ND	6.2	"	"	"	"	"	"	
Anthracene	ND	6.2	"	"	"	"	"	"	
Benzoic acid	ND	12	"	"	"	"	"	"	
Benzo (a) anthracene	ND	6.2	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	6.2	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	6.2	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	6.2	"	"	"	"	"	"	
Benzo[a]pyrene	ND	6.2	"	"	"	"	"	"	
Benzyl alcohol	ND	6.2	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	6.2	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	6.2	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	6.2	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	**27**	12	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	6.2	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	6.2	"	"	"	"	"	"	
4-Chloroaniline	ND	12	"	"	"	"	"	"	
2-Chloronaphthalene	ND	6.2	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	6.2	"	"	"	"	"	"	
2-Chlorophenol	ND	6.2	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	6.2	"	"	"	"	"	"	
Chrysene	ND	6.2	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	6.2	"	"	"	"	"	"	
Dibenzofuran	ND	6.2	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.2	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	12	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	6.2	"	"	"	"	"	"	
Diethyl phthalate	ND	6.2	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	6.2	"	"	"	"	"	"	
Dimethyl phthalate	ND	6.2	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	12	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	12	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	6.2	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	6.2	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	6.2	"	"	"	"	"	"	
Fluoranthene	ND	6.2	"	"	"	"	"	"	
Fluorene	ND	6.2	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

City of San Leandro	Project: -	
3000 Davis Street	Project Number: -	
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:18

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - San Carlos

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sludge Bed #12 (MKH0655-01) Soil	**Sampled: 08/30/01 10:30**		**Received: 08/31/01 19:10**							
Benzene	ND		100	ug/kg	1	1090012	09/05/01	09/07/01	EPA 8260B	
Bromobenzene	ND		100	"	"	"	"	"	"	
Bromochloromethane	ND		100	"	"	"	"	"	"	
Bromodichloromethane	ND		100	"	"	"	"	"	"	
Bromoform	ND		100	"	"	"	"	"	"	
Bromomethane	ND		500	"	"	"	"	"	"	
n-Butylbenzene	ND		100	"	"	"	"	"	"	
sec-Butylbenzene	ND		100	"	"	"	"	"	"	
Tert-butylbenzene	ND		100	"	"	"	"	"	"	
Carbon tetrachloride	ND		100	"	"	"	"	"	"	
Chlorobenzene	ND		100	"	"	"	"	"	"	
Chloroethane	ND		500	"	"	"	"	"	"	
Chloroform	ND		100	"	"	"	"	"	"	
Chloromethane	ND		500	"	"	"	"	"	"	
2-Chlorotoluene	ND		100	"	"	"	"	"	"	
4-Chlorotoluene	ND		100	"	"	"	"	"	"	
Dibromochloromethane	ND		100	"	"	"	"	"	"	
1,2-Dibromoethane	ND		100	"	"	"	"	"	"	
Dibromomethane	ND		100	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND		100	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND		100	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND		100	"	"	"	"	"	"	
Dichlorodifluoromethane	ND		500	"	"	"	"	"	"	
1,1-Dichloroethane	ND		100	"	"	"	"	"	"	
1,2-Dichloroethane	ND		100	"	"	"	"	"	"	
1,1-Dichloroethene	ND		100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND		100	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND		100	"	"	"	"	"	"	
1,2-Dichloropropane	ND		100	"	"	"	"	"	"	
1,3-Dichloropropane	ND		100	"	"	"	"	"	"	
2,2-Dichloropropane	ND		100	"	"	"	"	"	"	
1,1-Dichloropropene	ND		100	"	"	"	"	"	"	
Ethylbenzene	ND		100	"	"	"	"	"	"	
Hexachlorobutadiene	ND		100	"	"	"	"	"	"	
Isopropylbenzene	ND		100	"	"	"	"	"	"	
p-Isopropyltoluene	ND		100	"	"	"	"	"	"	
Methylene chloride	ND		500	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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James Hartley, Project Manager

Sequoia
Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

5 October, 2001

G Abbasi
City of San Leandro
3000 Davis Street
San Leandro, CA 94577

RE: -
Sequoia Report: MKJ0076

Enclosed are the results of analyses for samples received by the laboratory on 10/04/01 16:04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley
Project Manager

City of San Leandro	Project: -	
3000 Davis Street	Project Number: -	
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:18

Organic Lead by DHS LUFT
Sequoia Analytical - Walnut Creek

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sludge Bed #12 (MKH0655-01) Soil	**Sampled: 08/30/01 10:30**		**Received: 08/31/01 19:10**							
Organic Lead	ND		1.0	mg/kg	5	1J06015	09/06/01	09/18/01	DHS LUFT	

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

James Hartley, Project Manager

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

☐ 885 Jarvis Drive • **Morgan Hill, CA 95037** • (408) 776-9600 • FAX (408) 782-6308
☐ 1455 McDowell Blvd. North, Suite D • **Petaluma, CA 94954** • (707) 792-1865 • FAX (707) 792-0342
☐ 819 Striker Ave., Suite 8 • **Sacramento, CA 95834** • (916) 921-9600 • FAX (916) 921-0100
☐ 1551 Industrial Road • **San Carlos, CA 94070** • (650) 232-9600 • FAX (650) 232-9612
☐ 404 N. Wiget Lane • **Walnut Creek, CA 94598** • (925) 988-9600 • FAX (925) 988-9673

Company Name: WPCP San Leandro		Project:	
Mailing Address:		Billing Address (if different):	
City:	State: Zip Code:		
Telephone:	Fax #:	P.O. #:	
Report To: Shahed Abbasi	E-Mail:	QC Data: ☐ Level II (Standard) ☐ Level III ☐ Level IV	
Sampler:	Date / Time Results Required:	Sequoia's Work Order # MKH0455	

Turnaround Time:
☐ 10 - 15 Working Days (Standard TAT)
☐ 7 Working Days
☐ 5 Working Days
☐ 72 Hours
☐ 48 Hours
☐ 24 Hours
☐ 2-8 Hours

MANDATORY:
☐ **SDWA (Drinking Water)**
☐ **CWA (Waste Water)**
☐ **RCRA (Hazardous Waste)**
☐ **Other**

ANALYSES REQUESTED (Please provide method)

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	1613	8041	organic Pb	Asbestos	Phenols					Comments/ Temp.(if required)
1.															
2.															
3.															
4.															
5.															
6.															
7.															
8.															
9.															
10.															

* if values are 10 times higher than attached sheet → run TCLP + STLC

Relinquished By:	Received By:	Date / Time:
Relinquished By:	Received By:	Date / Time:
Relinquished By:	Received By:	Date / Time
Relinquished By:	Received By:	Date / Time:

In Good Condition?

Pink - Client
Yellow - Sequoia
White - Sequoia

City of San Leandro	Project: -	
3000 Davis Street	Project Number: -	Reported:
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:18

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1I07006 - EPA 3050B											
LCS (1I07006-BS1)					Prepared & Analyzed: 09/07/01						
Antimony	49.0		2.0	mg/kg	50.0		98.0	80-120			
Arsenic	48.6		4.0	"	50.0		97.2	80-120			
Barium	49.0		5.0	"	50.0		98.0	80-120			
Beryllium	51.1		0.50	"	50.0		103	80-120			
Cadmium	50.4		0.60	"	50.0		101	80-120			
Chromium	51.2		6.0	"	50.0		102	80-120			
Cobalt	51.2		1.0	"	50.0		102	80-120			
Copper	49.5		2.0	"	50.0		99.0	80-120			
Lead	51.7		5.0	"	50.0		103	80-120			
Molybdenum	51.2		1.0	"	50.0		102	80-120			
Nickel	53.6		1.0	"	50.0		107	80-120			
Selenium	48.5		5.0	"	50.0		97.0	80-120			
Silver	49.4		1.5	"	50.0		98.8	80-120			
Thallium	48.9		1.8	"	50.0		97.8	80-120			
Vanadium	50.6		1.5	"	50.0		101	80-120			
Zinc	54.3		7.0	"	50.0		109	80-120			
Matrix Spike (1I07006-MS1)		**Source: MKH0611-02**			Prepared & Analyzed: 09/07/01						
Antimony	18.4		2.1	mg/kg	52.1	ND	35.3	80-120			QM-07a
Arsenic	61.8		4.2	"	52.1	6.9	111	80-120			
Barium	133		5.2	"	52.1	71	119	80-120			
Beryllium	56.6		0.52	"	52.1	ND	109	80-120			
Cadmium	55.6		0.62	"	52.1	ND	107	80-120			
Chromium	74.6		6.2	"	52.1	19	107	80-120			
Cobalt	59.2		1.0	"	52.1	3.0	108	80-120			
Copper	60.4		2.1	"	52.1	6.9	103	80-120			
Lead	58.7		5.2	"	52.1	5.4	102	80-120			
Molybdenum	54.0		1.0	"	52.1	1.6	101	80-120			
Nickel	66.2		1.0	"	52.1	11	106	80-120			
Selenium	50.6		5.2	"	52.1	ND	97.1	80-120			
Silver	53.6		1.6	"	52.1	ND	103	80-120			
Thallium	48.5		1.9	"	52.1	ND	93.1	80-120			
Vanadium	72.8		1.6	"	52.1	18	105	80-120			
Zinc	80.7		7.3	"	52.1	24	109	80-120			

Sequoia Analytical - Morgan Hill

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James Hartley, Project Manager

Pace Analytical
Tel: 612-607-1700
Fax: 612-607-6444

Method 1613B Laboratory Control Spike Results

Client - SEQUOIA ANALYTICAL

Lab Sample ID	SPIKE-1230	Matrix	SOLID
Filename	F10915A_02	Dilution	NA
Total Amount Extracted	10.06 g	Extracted	09/13/2001
ICAL Date	08/20/2001	Analyzed	09/15/2001 18:09
CCal Filename	F10915A_01	Injected By	BAL
Method Blank ID	BLANK-1236		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	10.6	7.5	15.8	106
2,3,7,8-TCDD	10	11.2	6.7	15.8	112
1,2,3,7,8-PeCDF	50	54.9	40.0	67.0	110
2,3,4,7,8-PeCDF	50	54.4	34.0	80.0	109
1,2,3,7,8-PeCDD	50	57.6	35.0	71.0	115
1,2,3,4,7,8-HxCDF	50	54.6	36.0	67.0	109
1,2,3,6,7,8-HxCDF	50	54.5	42.0	65.0	109
2,3,4,6,7,8-HxCDF	50	55.1	35.0	78.0	110
1,2,3,7,8,9-HxCDF	50	55.3	39.0	65.0	111
1,2,3,4,7,8-HxCDD	50	62.5	35.0	82.0	125
1,2,3,6,7,8-HxCDD	50	56.3	38.0	67.0	113
1,2,3,7,8,9-HxCDD	50	53.7	32.0	81.0	107
1,2,3,4,6,7,8-HpCDF	50	60.6	41.0	61.0	121
1,2,3,4,7,8,9-HpCDF	50	59.2	39.0	69.0	118
1,2,3,4,6,7,8-HpCDD	50	60.5	35.0	70.0	121
OCDF	100	120.1	63.0	170.0	120
OCDD	100	123.4	78.0	144.0	123
2,3,7,8-TCDD-37Cl4	10	8.1	3.1	19.1	81
2,3,7,8-TCDF-13C	100	66.5	22.0	152.0	67
2,3,7,8-TCDD-13C	100	71.5	20.0	175.0	71
1,2,3,7,8-PeCDF-13C	100	67.1	21.0	192.0	67
2,3,4,7,8-PeCDF-13C	100	67.4	13.0	328.0	67
1,2,3,7,8-PeCDD-13C	100	72.4	21.0	227.0	72
1,2,3,4,7,8-HxCDF-13C	100	96.0	19.0	202.0	96
1,2,3,6,7,8-HxCDF-13C	100	78.9	21.0	159.0	79
2,3,4,6,7,8-HxCDF-13C	100	79.9	22.0	176.0	80
1,2,3,7,8,9-HxCDF-13C	100	77.7	17.0	205.0	78
1,2,3,4,7,8-HxCDD-13C	100	93.8	21.0	193.0	94
1,2,3,6,7,8-HxCDD-13C	100	89.6	25.0	163.0	90
1,2,3,4,6,7,8-HpCDF-13C	100	75.5	21.0	158.0	76
1,2,3,4,7,8,9-HpCDF-13C	100	67.0	20.0	186.0	67
1,2,3,4,6,7,8-HpCDD-13C	100	68.5	26.0	166.0	68
OCDD-13C	200	101.8	26.0	397.0	51

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
X = Background subtracted value
P = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

Report No.....01-1048459

REPORT OF LABORATORY ANALYSIS

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City of San Leandro	Project: -	Reported:
3000 Davis Street	Project Number: -	
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:18

STLC CAM Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J01021 - Title 22-STLC											
Blank (1J01021-BLK1)					Prepared & Analyzed: 10/01/01						
Copper	ND		0.020	mg/l							
Lead	ND		0.20	"							
Silver	ND		0.020	"							
LCS (1J01021-BS1)					Prepared & Analyzed: 10/01/01						
Copper	1.93		0.020	mg/l	2.00		96.5	80-120			
Lead	1.97		0.20	"	2.00		98.5	80-120			
Silver	1.88		0.020	"	2.00		94.0	80-120			
Matrix Spike (1J01021-MS1)		**Source: MKH0655-01**			Prepared & Analyzed: 10/01/01						
Copper	8.08		0.020	mg/l	2.00	6.0	104	80-120			
Lead	2.82		0.20	"	2.00	1.1	86.0	80-120			
Silver	1.93		0.020	"	2.00	0.11	91.0	80-120			
Matrix Spike Dup (1J01021-MSD1)		**Source: MKH0655-01**			Prepared & Analyzed: 10/01/01						
Copper	7.98		0.020	mg/l	2.00	6.0	99.0	80-120	1.25	20	
Lead	2.78		0.20	"	2.00	1.1	84.0	80-120	1.43	20	
Silver	1.92		0.020	"	2.00	0.11	90.5	80-120	0.519	20	

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

James Hartley, Project Manager

Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 1613B Blank Analysis Results

Client - SEQUOIA ANALYTICAL

Lab Sample ID	BLANK-1236	Matrix	SOLID
Filename	F10915A_05	Dilution	NA
Total Amount Extracted	10.48 g	Extracted	09/13/2001
ICAL Date	08/20/2001	Analyzed	09/15/2001 20:38
CCal Filename(s)	F10915A_01	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	PRL ng/Kg
2,3,7,8-TCDF	ND	-----	0.95
Total TCDF	ND	-----	-----
2,3,7,8-TCDD	ND	-----	0.95
Total TCDD	ND	-----	-----
1,2,3,7,8-PeCDF	ND	-----	4.80
2,3,4,7,8-PeCDF	ND	-----	4.80
Total PeCDF	ND	-----	-----
1,2,3,7,8-PeCDD	ND	-----	4.80
Total PeCDD	ND	-----	-----
1,2,3,4,7,8-HxCDF	ND	-----	4.80
1,2,3,6,7,8-HxCDF	ND	-----	4.80
2,3,4,6,7,8-HxCDF	ND	-----	4.80
1,2,3,7,8,9-HxCDF	ND	-----	4.80
Total HxCDF	ND	-----	-----
1,2,3,4,7,8-HxCDD	ND	-----	4.80
1,2,3,6,7,8-HxCDD	ND	-----	4.80
1,2,3,7,8,9-HxCDD	ND	-----	4.80
Total HxCDD	ND	-----	-----
1,2,3,4,6,7,8-HpCDF	ND	-----	4.80
1,2,3,4,7,8,9-HpCDF	ND	-----	4.80
Total HpCDF	ND	-----	-----
1,2,3,4,6,7,8-HpCDD	ND	-----	4.80
Total HpCDD	ND	-----	-----
OCDF	ND	-----	9.50
OCDD	ND	-----	9.50

Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF-13C	2.00	55
2,3,7,8-TCDD-13C	2.00	63
1,2,3,7,8-PeCDF-13C	2.00	53
2,3,4,7,8-PeCDF-13C	2.00	49
1,2,3,7,8-PeCDD-13C	2.00	56
1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,6,7,8-HxCDF-13C	2.00	68
2,3,4,6,7,8-HxCDF-13C	2.00	67
1,2,3,7,8,9-HxCDF-13C	2.00	64
1,2,3,4,7,8-HxCDD-13C	2.00	89
1,2,3,6,7,8-HxCDD-13C	2.00	76
1,2,3,4,6,7,8-HpCDF-13C	2.00	70
1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,6,7,8-HpCDD-13C	2.00	66
OCDD-13C	4.00	44
1,2,3,4-TCDD-13C	2.00	NA
1,2,3,7,8,9-HxCDD-13C	2.00	NA
2,3,7,8-TCDD-37Cl4	0.20	67

Total 2,3,7,8-TCDD Equivalence: 0.00 ng/Kg (Using ITE Factors)

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
PRL = Pace Analytical Reporting Limit
A = Limit of Detection based on signal to noise
P = Recovery outside of method 1613 control limits
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....01-1048459

REPORT OF LABORATORY ANALYSIS

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City of San Leandro	Project: -	
3000 Davis Street	Project Number: -	Reported:
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:18

Organochlorine Pesticides by EPA Method 8081 - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1I06011 - EPA 3550A											
Blank (1I06011-BLK1)				Prepared & Analyzed: 09/06/01							
Kepone	ND		20	ug/kg							A-01
Mirex	ND		20	"							A-01
Aldrin	ND		1.0	"							
alpha-BHC	ND		1.0	"							
beta-BHC	ND		1.0	"							
delta-BHC	ND		1.0	"							
gamma-BHC (Lindane)	ND		1.0	"							
Chlordane (tech)	ND		20	"							
4,4'-DDD	ND		6.0	"							
4,4'-DDE	ND		2.0	"							
4,4'-DDT	ND		6.0	"							
Dieldrin	ND		2.0	"							
Endosulfan I	ND		2.0	"							
Endosulfan II	ND		2.0	"							
Endosulfan sulfate	ND		6.0	"							
Endrin	ND		2.0	"							
Endrin aldehyde	ND		6.0	"							
Endrin ketone	ND		6.0	"							
Heptachlor	ND		1.0	"							
Heptachlor epoxide	ND		1.0	"							
Methoxychlor	ND		20	"							
Toxaphene	ND		80	"							
Surrogate: Tetrachloro-m-xylene	*11.8*			"	*16.7*		*70.7*	*30-150*			
Surrogate: Decachlorobiphenyl	*30.5*			"	*33.3*		*91.6*	*30-150*			
LCS (1I06011-BS1)				Prepared & Analyzed: 09/06/01							
Aldrin	2.11		1.0	ug/kg	3.33		63.4	40-140			
Dieldrin	9.75		2.0	"	13.3		73.3	40-140			
Heptachlor	2.11		1.0	"	3.33		63.4	40-140			
Surrogate: Tetrachloro-m-xylene	*12.6*			"	*16.7*		*75.4*	*30-150*			
Surrogate: Decachlorobiphenyl	*28.1*			"	*33.3*		*84.4*	*30-150*			

Sequoia Analytical - Morgan Hill

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James Hartley, Project Manager

City of San Leandro	Project: -	
3000 Davis Street	Project Number: -	Reported:
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:18

Notes and Definitions

A-01	The result for this analyte was quantitated using a one point calibration.
J	Estimated value.
Q-25a	The closing calibration standard for this analyte was outside acceptance criteria by 18.2% low due to instrument contamination from the samples. This should be considered in evaluating the result for its intended purpose.
Q-25aa	The closing calibration standard for this analyte was outside acceptance criteria by 19.2% low due to instrument contamination from the samples. This should be considered in evaluating the result for its intended purpose.
Q-25ab	The closing calibration standard for this analyte was outside acceptance criteria by 20.9% low due to instrument contamination from the samples. This should be considered in evaluating the result for its intended purpose.
Q-25ac	The closing calibration standard for this analyte was outside acceptance criteria by 27.6% low due to instrument contamination from the samples. This should be considered in evaluating the result for its intended purpose.
Q-LIM	The percent recovery was outside of the control limits. The samples results may still be useful for their intended purpose.
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-07a	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-4X	The spike recovery was outside of control limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QR-07	The RPD was outside control limits. The results may still be useful for their intended purpose.
R-01	The reporting limit for this analyte has been raised to account for matrix interference.
R-05	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
S-04	The surrogate recovery for this sample is outside control limits due to interference from the sample matrix.
S-06	The recovery of this surrogate is outside control limits due to sample dilution which was required by high analyte concentration in the sample and/or matrix interference.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Sequoia Analytical - Morgan Hill

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City of San Leandro	Project: -	
3000 Davis Street	Project Number: -	Reported:
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:18

Polychlorinated Biphenyls (as Aroclors) by EPA Method 8082 - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1106012 - EPA 3550A											
Blank (1106012-BLK1)					Prepared & Analyzed: 09/06/01						
PCB-1016	ND		20	ug/kg							
PCB-1221	ND		80	"							
PCB-1232	ND		20	"							
PCB-1242	ND		20	"							
PCB-1248	ND		20	"							
PCB-1254	ND		20	"							
PCB-1260	ND		20	"							
Surrogate: Tetrachloro-m-xylene	*10.4*			"	*16.7*		*62.3*	*30-150*			
Surrogate: Decachlorobiphenyl	*30.1*			"	*33.3*		*90.4*	*30-150*			
LCS (1106012-BS1)					Prepared & Analyzed: 09/06/01						
PCB-1260	71.5		20	ug/kg	83.3		85.8	40-140			
Surrogate: Tetrachloro-m-xylene	*10.7*			"	*16.7*		*64.1*	*30-150*			
Surrogate: Decachlorobiphenyl	*31.0*			"	*33.3*		*93.1*	*30-150*			
Matrix Spike (1106012-MS1)		**Source: MKH0655-01**			Prepared & Analyzed: 09/06/01						**QM-07a**
PCB-1260	102		20	ug/kg	83.3	ND	122	40-140			
Surrogate: Tetrachloro-m-xylene	*23.4*			"	*16.7*		*140*	*30-150*			
Surrogate: Decachlorobiphenyl	*0.942*			"	*33.3*		*2.83*	*30-150*			
Matrix Spike Dup (1106012-MSD1)		**Source: MKH0655-01**			Prepared & Analyzed: 09/06/01						**QM-07a**
PCB-1260	172		20	ug/kg	83.3	ND	206	40-140	51.1	50	
Surrogate: Tetrachloro-m-xylene	*13.1*			"	*16.7*		*78.4*	*30-150*			
Surrogate: Decachlorobiphenyl	*1.15*			"	*33.3*		*3.45*	*30-150*			

Sequoia Analytical - Morgan Hill

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James Hartley, Project Manager

City of San Leandro	Project: -	
3000 Davis Street	Project Number: -	Reported:
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 12:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1090012 - EPA 5030B [P/T]											
Matrix Spike (1090012-MS1)		**Source: MKH0655-01**			Prepared: 09/05/01		Analyzed: 09/06/01				
Benzene	2470		100	ug/kg	2500	ND	98.8	60-140			
Chlorobenzene	2340		100	"	2500	ND	93.6	60-140			
1,1-Dichloroethene	2720		100	"	2500	ND	109	60-140			
Toluene	2390		100	"	2500	ND	95.6	60-140			
Trichloroethene	2380		100	"	2500	ND	95.2	60-140			
Surrogate: 1,2-Dichloroethane-d4	*2270*			"	*2500*		*90.8*	*70-121*			
Surrogate: Toluene-d8	*2270*			"	*2500*		*90.8*	*81-117*			
Surrogate: 4-BFB	*2260*			"	*2500*		*90.4*	*74-121*			
Matrix Spike Dup (1090012-MSD1)		**Source: MKH0655-01**			Prepared: 09/05/01		Analyzed: 09/07/01				
Benzene	2530		100	ug/kg	2500	ND	101	60-140	2.40	25	
Chlorobenzene	2270		100	"	2500	ND	90.8	60-140	3.01	25	
1,1-Dichloroethene	2810		100	"	2500	ND	112	60-140	3.25	25	
Toluene	2260		100	"	2500	ND	90.4	60-140	5.59	25	
Trichloroethene	2280		100	"	2500	ND	91.2	60-140	4.29	25	
Surrogate: 1,2-Dichloroethane-d4	*2570*			"	*2500*		*103*	*70-121*			
Surrogate: Toluene-d8	*2210*			"	*2500*		*88.4*	*81-117*			
Surrogate: 4-BFB	*2220*			"	*2500*		*88.8*	*74-121*			

Sequoia Analytical - Morgan Hill

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James Hartley, Project Manager

City of San Leandro	Project: -	
3000 Davis Street	Project Number: -	
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:18

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1I06025 - General Preparation											
Blank (1106025-BLK1)					Prepared & Analyzed: 09/06/01						
Phenol	ND		5.0	mg/kg							
LCS (1I06025-BS1)					Prepared & Analyzed: 09/06/01						
Phenol	49.6		5.0	mg/kg	50.0		99.2	80-120			
Matrix Spike (1I06025-MS1)		**Source: MKH0655-01**			Prepared & Analyzed: 09/06/01						
Phenol	57.0		5.0	mg/kg	50.0	8.4	97.2	75-125			
Matrix Spike Dup (1106025-MSD1)		**Source: MKH0655-01**			Prepared & Analyzed: 09/06/01						
Phenol	55.5		5.0	mg/kg	50.0	8.4	94.2	75-125	2.67	20	
Batch 1I07014 - General Preparation											
Blank (1I07014-BLK1)					Prepared: 09/06/01 Analyzed: 09/07/01						
Moisture	ND		0.10	%							
Duplicate (1I07014-DUP1)		**Source: MKH0655-01**			Prepared: 09/06/01 Analyzed: 09/07/01						
Moisture	15.9		0.10	%		14			12.7	20	

Sequoia Analytical - Morgan Hill

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James Hartley, Project Manager

City of San Leandro	Project: -	
3000 Davis Street	Project Number: -	Reported:
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - San Carlos

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1090012 - EPA 5030B [P/T]											
Blank (1090012-BLK1)				Prepared & Analyzed: 09/05/01							
Benzene	ND		100	ug/kg							
Bromobenzene	ND		100	"							
Bromochloromethane	ND		100	"							
Bromodichloromethane	ND		100	"							
Bromoform	ND		100	"							
Bromomethane	ND		500	"							
n-Butylbenzene	ND		100	"							
sec-Butylbenzene	ND		100	"							
Tert-butylbenzene	ND		100	"							
Carbon tetrachloride	ND		100	"							
Chlorobenzene	ND		100	"							
Chloroethane	ND		500	"							
Chloroform	ND		100	"							
Chloromethane	ND		500	"							
2-Chlorotoluene	ND		100	"							
4-Chlorotoluene	ND		100	"							
Dibromochloromethane	ND		100	"							
1,2-Dibromoethane	ND		100	"							
Dibromomethane	ND		100	"							
1,2-Dibromo-3-chloropropane	ND		500	"							
1,2-Dichlorobenzene	ND		100	"							
1,3-Dichlorobenzene	ND		100	"							
1,4-Dichlorobenzene	ND		100	"							
Dichlorodifluoromethane	ND		500	"							
1,1-Dichloroethane	ND		100	"							
1,2-Dichloroethane	ND		100	"							
1,1-Dichloroethene	ND		100	"							
cis-1,2-Dichloroethene	ND		100	"							
trans-1,2-Dichloroethene	ND		100	"							
1,2-Dichloropropane	ND		100	"							
1,3-Dichloropropane	ND		100	"							
2,2-Dichloropropane	ND		100	"							
1,1-Dichloropropene	ND		100	"							
Ethylbenzene	ND		100	"							
Hexachlorobutadiene	ND		100	"							
Isopropylbenzene	ND		100	"							

Sequoia Analytical - Morgan Hill

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James Hartley, Project Manager

City of San Leandro	Project: -	
3000 Davis Street	Project Number: -	
San Leandro CA, 94577	Project Manager: S.Abbasi	10/03/01 11:18

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1090210 - General Preparation											
Blank (1090210-BLK1)					Prepared: 09/12/01 Analyzed: 09/14/01						
Total Kjeldahl Nitrogen	ND		20	mg/kg							
LCS (1090210-BS1)					Prepared: 09/12/01 Analyzed: 09/14/01						
Total Kjeldahl Nitrogen	130		20	mg/kg	120		108	80-120			
Matrix Spike (1090210-MS1)		**Source: P109083-01**			Prepared: 09/12/01 Analyzed: 09/14/01						
Total Kjeldahl Nitrogen	5940		1000	mg/kg	120	6200	NR	75-125			QM-4X
Matrix Spike Dup (1090210-MSD1)		**Source: P109083-01**			Prepared: 09/12/01 Analyzed: 09/14/01						
Total Kjeldahl Nitrogen	7290		1000	mg/kg	120	6200	908	75-125	20.4	35	QM-4X
Batch 1090213 - General Preparation											
Blank (1090213-BLK1)					Prepared & Analyzed: 09/12/01						
Cyanide (total)	ND		0.50	mg/kg							
LCS (1090213-BS1)					Prepared & Analyzed: 09/12/01						
Cyanide (total)	5.01		0.50	mg/kg	5.00		100	80-120			
Matrix Spike (1090213-MS1)		**Source: MKH0655-01**			Prepared & Analyzed: 09/12/01						
Cyanide (total)	9.85		1.0	mg/kg	5.00	6.6	65.0	75-125			QM-07
Matrix Spike Dup (1090213-MSD1)		**Source: MKH0655-01**			Prepared & Analyzed: 09/12/01						
Cyanide (total)	12.1		1.0	mg/kg	5.00	6.6	110	75-125	20.5	20	QR-07

Sequoia Analytical - Morgan Hill

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James Hartley, Project Manager