HARDING LAWSON ASSOCIATES

CHAIN OF CUSTODY RECORD

PROJ NO.	PROJECT NAME
47588-4000	CASMALIA

SAMPLER *(Signature)*

Lab: BCL

Shipped on: 12/31/2001

Sample ID	Sample Date	Sample Time	Matrix	Station Location	NO. OF CON-TAINERS	Analyses	TAT	Comments
18596	12/26/2001	8:10	Liquids	A-5-3rd-diversion-01	10	8260; 8270; 8150; 9012 ; Metals (Tot); Gen Min; 8290; pH; TDS	1 wk	
18597	12/29/2001	8:25	Liquids	PS-3rd-concrete-01	10	8260; 8270; 8150; 9012 ; Metals (Tot); Gen Min; 8290; pH; TDS	1 wk	
18598	12/29/2001	8:50	Liquids	PS-3rd-concrete-04	1	8260	1 wk	

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
	1/2 0230				
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*

BC Laboratories, Inc.

Dioxins / Furans Analysis
(EPA Method 8290)

HARDING LAWSON ASSOCIATES
10265 ROCKINGHAM DRIVE
SUITE 150
SACRAMENTO, CA 95827
Attn: GREG FASIANO 916-364-0793

Date Reported: 01/15/2002
Date Received: 01/02/2002
Laboratory No.: 02-00060-1

Project Number: 47588-4000
Sampling Location: CASMALIA
Sample ID: A-5-3RD-DIVERSION-01
Sample Matrix: Water

Date Collected: 12/29/2001 @ 08:10
Date Extracted: 12/26/2001
Date Analyzed: 01/09/2002
Analyst: RAS

Constituents	Analysis Results	Reporting Units	P.Q.L.	M.D.L.	
2,3,7,8-TCDD	None Detected	pg/L	0.952	1.18	
Total tetra-CDDs	None Detected	pg/L	0.952	-.	
1,2,3,7,8-PeCDD	None Detected	pg/L	1.95	3.33	
Total penta-CDDs	None Detected	pg/L	1.95	-.	
1,2,3,4,7,8-HxCDD	None Detected	pg/L	1.24	8.95	
1,2,3,6,7,8-HxCDD	None Detected	pg/L	1.30	5.50	
1,2,3,7,8,9-HxCDD	None Detected	pg/L	1.21	6.88	
Total hexa-CDDs	None Detected	pg/L	1.25	-.	
1,2,3,4,6,7,8-HpCDD	None Detected	pg/L	2.46	4.24	
Total hepta-CDDs	None Detected	pg/L	2.46	-.	
1,2,3,4,6,7,8,9-OCDD	8.58	pg/L	-.	-.	
2,3,7,8-TCDF	None Detected	pg/L	0.946	1.10	A
Total tetra-CDFs	None Detected	pg/L	0.946	-.	
1,2,3,7,8-PeCDF	None Detected	pg/L	2.15	4.52	
2,3,4,7,8-PeCDF	None Detected	pg/L	1.67	4.09	
Total penta-CDFs	None Detected	pg/L	1.90	-.	
1,2,3,4,7,8-HxCDF	None Detected	pg/L	0.739	4.67	
1,2,3,6,7,8-HxCDF	None Detected	pg/L	0.707	5.30	
2,3,4,6,7,8-HxCDF	None Detected	pg/L	0.749	4.16	
1,2,3,7,8,9-HxCDF	None Detected	pg/L	1.13	6.34	
Total hexa-CDFs	None Detected	pg/L	0.808	-.	
1,2,3,4,6,7,8-HpCDF	None Detected	pg/L	0.706	4.53	
1,2,3,4,7,8,9-HpCDF	None Detected	pg/L	1.32	5.88	
Total hepta-CDFs	None Detected	pg/L	0.915	-.	
1,2,3,4,6,7,8,9-OCDF	None Detected	pg/L	5.95	9.29	

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).

Note: Sample analyzed by Alta Analytical Laboratory Inc. - Certification #1640

Flag Explanations:
A = The amount detected is below the lower calibration limit of the instrument.
California D.O.H.S. Cert. #1186

Stuart Buttram for
Stuart G. Buttram
Department Supervisor

All result listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, detachment or third party interpretation.

BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

HARDING LAWSON ASSOCIATES
10265 ROCKINGHAM DRIVE
SUITE 150
SACRAMENTO, CA 95827
Attn: GREG FASIANO 916-364-0793

Date Reported: 01/10/2002
Date Received: 01/02/2002
Laboratory No.: 02-00060-1

Project Number: 47588-4000
Sampling Location: CASMALIA
Sample ID: A-5-3RD-DIVERSION-01
Sample Matrix: Water

Date Collected: 12/29/2001 @ 08:10
Date Extracted: 01/07/2002
Date Analyzed: 01/07/2002 @ 15:33
Analyst: LAH
Dilution Used: 1
Instrument ID: GC/MSIns

Constituents	Analysis Results	Reporting Units	Method P.Q.L.	Method Detection Level	
Benzene	None Detected	µg/L	0.5	0.18	
Bromobenzene	None Detected	µg/L	0.5	0.13	
Bromochloromethane	None Detected	µg/L	0.5	0.30	
Bromodichloromethane	None Detected	µg/L	0.5	0.18	
Bromoform	None Detected	µg/L	0.5	0.15	
Bromomethane	None Detected	µg/L	1.	0.13	*03
n-Butylbenzene	None Detected	µg/L	0.5	0.095	
sec-Butylbenzene	None Detected	µg/L	0.5	0.15	
tert-Butylbenzene	None Detected	µg/L	0.5	0.14	
Carbon tetrachloride	None Detected	µg/L	0.5	0.20	
Chlorobenzene	None Detected	µg/L	0.5	0.16	
Chloroethane	None Detected	µg/L	0.5	0.23	
2-Chloroethylvinyl ether	None Detected	µg/L	10.	5.3	**
Chloroform	None Detected	µg/L	0.5	0.20	
Chloromethane	None Detected	µg/L	0.5	0.30	
2-Chlorotoluene	None Detected	µg/L	0.5	0.19	
1,2-Dibromo-3-Chloropropane	None Detected	µg/L	1.	0.38	
1,2-Dibromoethane	None Detected	µg/L	0.5	0.23	
Dibromomethane	None Detected	µg/L	0.5	0.23	
1,2-Dichlorobenzene	None Detected	µg/L	0.5	0.21	
1,3-Dichlorobenzene	None Detected	µg/L	0.5	0.17	
1,4-Dichlorobenzene	None Detected	µg/L	0.5	0.16	
Dichlorodifluoromethane	None Detected	µg/L	0.5	0.16	
1,1-Dichloroethane	None Detected	µg/L	0.5	0.15	
1,2-Dichloroethane	None Detected	µg/L	0.5	0.22	
1,1-Dichloroethene	None Detected	µg/L	0.5	0.20	
cis-1,2-Dichloroethene	None Detected	µg/L	0.5	0.24	
trans-1,2-Dichloroethene	None Detected	µg/L	0.5	0.23	
1,2-Dichloropropane	None Detected	µg/L	0.5	0.15	
cis-1,3-Dichloropropene	None Detected	µg/L	0.5	0.19	
trans-1,3-Dichloropropene	None Detected	µg/L	0.5	0.16	
Ethyl Benzene	None Detected	µg/L	0.5	0.15	
Hexachlorobutadiene	None Detected	µg/L	0.5	0.13	
Isopropylbenzene	None Detected	µg/L	0.5	0.11	
p-Isopropyltoluene	None Detected	µg/L	0.5	0.098	
Methylene Chloride	None Detected	µg/L	1.	0.20	
Naphthalene	None Detected	µg/L	0.5	0.12	
n-Propylbenzene	None Detected	µg/L	0.5	0.12	
Styrene	None Detected	µg/L	0.5	0.15	

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BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

HARDING LAWSON ASSOCIATES
10265 ROCKINGHAM DRIVE
SUITE 150
SACRAMENTO, CA 95827
Attn: GREG FASIANO 916-364-0793

Date Reported: 01/10/2002
Date Received: 01/02/2002
Laboratory No.: 02-00060-1

Sample Description: 47588-4000, CASMALIA, A-5-3RD-DIVERSION-01, 12/29/2001 @ 08:10

Constituents	Analysis Results	Reporting Units	Method P.Q.L.	Method Detection Level	
1,1,1,2-Tetrachloroethane	None Detected	µg/L	0.5	0.16	
1,1,2,2-Tetrachloroethane	None Detected	µg/L	0.5	0.16	
Tetrachloroethene	None Detected	µg/L	0.5	0.16	
Toluene	None Detected	µg/L	0.5	0.14	
1,2,3-Trichlorobenzene	None Detected	µg/L	0.5	0.17	
1,2,4-Trichlorobenzene	None Detected	µg/L	0.5	0.13	
1,1,1-Trichloroethane	None Detected	µg/L	0.5	0.16	
1,1,2-Trichloroethane	None Detected	µg/L	0.5	0.26	
Trichloroethene	None Detected	µg/L	0.5	0.18	
Trichlorofluoromethane	None Detected	µg/L	0.5	0.17	
1,2,3-Trichloropropane	None Detected	µg/L	1.	0.26	
1,1,2-Trichloro-1,2,2-trifluoroethane	None Detected	µg/L	0.5	0.21	
1,2,4-Trimethylbenzene	None Detected	µg/L	0.5	0.14	
1,3,5-Trimethylbenzene	None Detected	µg/L	0.5	0.14	
Vinyl Chloride	None Detected	µg/L	0.5	0.19	
Total Xylenes	None Detected	µg/L	1.	0.42	
o-Xylene	None Detected	µg/L	0.5	0.12	
Acetone	None Detected	µg/L	20.	18.	
Acetonitrile	None Detected	µg/L	20.	7.8	
Acrolein	None Detected	µg/L	50.	25.	
Acrylonitrile	None Detected	µg/L	20.	2.0	
Carbon Disulfide	None Detected	µg/L	1.	0.28	
2-Chloro-1,3-butadiene	None Detected	µg/L	5.	0.28	
Chlorodibromomethane	None Detected	µg/L	0.5	0.19	
3-Chloropropylene	None Detected	µg/L	5.	0.21	
Cyclohexanone	None Detected	µg/L	200.	7.6	*
trans-1,4-Dichloro-2-butene	None Detected	µg/L	5.	1.1	
1,4-Dioxane	None Detected	µg/L	300.	60.	
Ethanol	None Detected	µg/L	1000.	430.	
2-Hexanone	None Detected	µg/L	20.	7.0	
Iodomethane	None Detected	µg/L	2.	0.67	
Isobutyl alcohol	None Detected	µg/L	50.	32.	
Isopropyl alcohol	None Detected	µg/L	100.	25.	
Methacrylonitrile	None Detected	µg/L	10.	2.8	
Methyl Ethyl Ketone	None Detected	µg/L	20.	16.	
Methyl Isobutyl Ketone	None Detected	µg/L	20.	6.5	
Methyl Methacrylate	None Detected	µg/L	5.	2.9	
Pentachloroethane	None Detected	µg/L	10.	0.68	***
Propionitrile	None Detected	µg/L	20.	7.8	
Tetrahydrofuran	None Detected	µg/L	20.	14.	
Vinyl acetate	None Detected	µg/L	20.	11.	

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BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

HARDING LAWSON ASSOCIATES
10265 ROCKINGHAM DRIVE
SUITE 150
SACRAMENTO, CA 95827
Attn: GREG FASIANO 916-364-0793

Date Reported: 01/10/2002
Date Received: 01/02/2002
Laboratory No.: 02-00060-1

Sample Description: 47588-4000, CASMALIA, A-5-3RD-DIVERSION-01, 12/29/2001 @ 08:10

Quality Control Data

Surrogates	% Recovery	Control Limits
1,2-Dichloroethane-d4	107.	76-114
Toluene-d8	100.	88-110
4-Bromofluorobenzene	110.	86-115

Flag Explanations:
* = ICV criteira not met.
** = CCV recovery not within method limits.
Initial calibration linearity criteria not met.
*** = ICV criteria not met.
Initial calibration linearity criteria not met.
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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BC Laboratories, Inc.

Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

HARDING LAWSON ASSOCIATES
10265 ROCKINGHAM DRIVE
SUITE 150
SACRAMENTO, CA 95827
Attn: GREG FASIANO 916-364-0793

Date Reported: 01/14/2002
Date Received: 01/02/2002
Laboratory No.: 02-00060-1

Project Number: 47588-4000
Sampling Location: CASMALIA
Sample ID: A-5-3RD-DIVERSION-01
Sample Matrix: Water

Date Collected: 12/28/2001 @ 08:10
Date Extracted: 01/03/2002
Date Analyzed: 01/07/2002 @ 19:56
Analyst: SKC
Dilution Used: 1.1

Constituents	Analysis Results	Reporting Units	P.Q.L.	M.D.L.	
Acenaphthene	None Detected	µg/L	2.	0.99	
Acenaphthylene	None Detected	µg/L	2.	1.1	
Aniline	None Detected	µg/L	5.	0.76	
Anthracene	None Detected	µg/L	2.	1.1	
Benzo (a) anthracene	None Detected	µg/L	2.	0.90	
Benzo (b) fluoranthene	None Detected	µg/L	2.	1.1	
Benzo (k) fluoranthene	None Detected	µg/L	2.	1.1	
Benzo (a) pyrene	None Detected	µg/L	2.	0.90	
Benzo (ghi) perylene	None Detected	µg/L	2.	0.49	
Benzoic Acid	None Detected	µg/L	11.	11.	
Benzyl alcohol	None Detected	µg/L	2.	0.85	
bis(2-chloroethyl)ether	None Detected	µg/L	2.	0.99	
bis(2-chloroethoxy)methane	None Detected	µg/L	2.	1.1	
bis(2-chloro-1-methylethyl)	None Detected	µg/L	2.	0.96	
bis(2-ethylhexyl)phthalate	2.7	µg/L	5.	1.0	*02
4-Bromophenyl phenyl ether	None Detected	µg/L	2.	1.0	
4-Chloroaniline	None Detected	µg/L	2.	0.89	
2-Chloronaphthalene	None Detected	µg/L	2.	1.1	
4-Chlorophenyl phenyl ether	None Detected	µg/L	2.	1.2	
Chrysene	None Detected	µg/L	2.	1.1	
Dibenzo (a,h) anthracene	None Detected	µg/L	3.	0.47	
Dibenzofuran	None Detected	µg/L	2.	1.1	
Di-n-butyl phthalate	None Detected	µg/L	2.	1.1	
3,3-Dichlorobenzidine	None Detected	µg/L	10.	0.65	
Diethyl phthalate	None Detected	µg/L	2.	1.1	
Dimethyl phthalate	None Detected	µg/L	2.	0.88	
2,4-Dinitrotoluene	None Detected	µg/L	2.	0.87	
2,6-Dinitrotoluene	None Detected	µg/L	2.	0.91	
Di-n-octylphthalate	None Detected	µg/L	2.	0.84	
Fluoranthene	None Detected	µg/L	2.	1.3	
Fluorene	None Detected	µg/L	2.	1.1	
Hexachlorobenzene	None Detected	µg/L	2.	1.1	
Hexachlorocyclopentadiene	None Detected	µg/L	2.	0.91	
Hexachloroethane	None Detected	µg/L	2.	0.98	
Indeno (1,2,3-cd) pyrene	None Detected	µg/L	2.	0.53	
Isophorone	None Detected	µg/L	2.	1.1	
2-Methylnaphthalene	None Detected	µg/L	2.	1.2	
2-Naphthylamine	None Detected	µg/L	20.	1.4	

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BC Laboratories, Inc.

Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

HARDING LAWSON ASSOCIATES
10265 ROCKINGHAM DRIVE
SUITE 150
SACRAMENTO, CA 95827
Attn: GREG FASIANO 916-364-0793

Date Reported: 01/14/2002
Date Received: 01/02/2002
Laboratory No.: 02-00060-1

Sample Description: 47588-4000, CASMALIA, A-5-3RD-DIVERSION-01, 12/29/2001 @ 08:10

Constituents	Analysis Results	Reporting Units	P.Q.L.	M.D.L.	
2-Nitroaniline	None Detected	µg/L	2.	0.86	
3-Nitroaniline	None Detected	µg/L	2.	0.80	
4-Nitroaniline	None Detected	µg/L	5.	0.81	
Nitrobenzene	None Detected	µg/L	2.	0.98	
n-Nitrosodimethylamine	None Detected	µg/L	2.	1.2	
n-Nitrosodiphenylamine	None Detected	µg/L	2.	1.1	
N-Nitrosodi-n-propylamine	None Detected	µg/L	2.	0.97	
Phenanthrene	None Detected	µg/L	2.	1.1	
Pyrene	None Detected	µg/L	2.	0.95	
4-Chloro-3-methylphenol	None Detected	µg/L	5.	0.91	
2-Chlorophenol	None Detected	µg/L	2.	0.82	
2,4-Dichlorophenol	None Detected	µg/L	2.	0.84	
2,4-Dimethylphenol	None Detected	µg/L	2.	0.92	
2,4-Dinitrophenol	None Detected	µg/L	10.	2.5	
2-Nitrophenol	None Detected	µg/L	2.	0.89	
4-Nitrophenol	None Detected	µg/L	2.	0.32	
Pentachlorophenol	None Detected	µg/L	10.	0.79	
Phenol	None Detected	µg/L	2.	0.52	
2,4,5-Trichlorophenol	None Detected	µg/L	5.	0.89	
2,4,6-Trichlorophenol	None Detected	µg/L	5.	0.97	
Acetophenone	None Detected	µg/L	10.	0.14	
2-Acetylaminofluorene	None Detected	µg/L	10.	0.51	
4-Aminobiphenyl	None Detected	µg/L	20.	0.19	
Aramite	None Detected	µg/L	10.	0.57	
n-butyl benzyl phthalate	None Detected	µg/L	2.	1.2	
Chlorobenzilate	None Detected	µg/L	10.	0.33	
o-Cresol	None Detected	µg/L	2.	0.83	
m- & p-Cresol	None Detected	µg/L	2.	1.6	
Diallate	None Detected	µg/L	10.	1.9	
2,6-Dichlorophenol	None Detected	µg/L	10.	0.19	
Dimethoate	None Detected	µg/L	20.	3.2	*40
Dimethylaminoazobenzene	None Detected	µg/L	10.	0.074	
7,12-Dimethylbenz (a) anthracene	None Detected	µg/L	10.	0.12	
3,3'-Dimethylbenzidine	None Detected	µg/L	20.	0.28	
a,a-Dimethylphenethylamine	None Detected	µg/L	20.	4.0	
m-Dinitrobenzene	None Detected	µg/L	10.	0.11	
4,6-Dinitro-2-methylphenol	None Detected	µg/L	10.	1.9	
Diphenylamine	None Detected	µg/L	10.	0.090	
Disulfoton	None Detected	µg/L	10.	0.19	
Ethyl methacrylate	None Detected	µg/L	10.	0.063	
Ethyl methanesulfonate	None Detected	µg/L	10.	0.19	
Famphur	None Detected	µg/L	20.	1.5	
Hexachlorophene	None Detected	µg/L	200.	22.	
Hexachloropropene	None Detected	µg/L	20.	0.16	*03
Isodrin	None Detected	µg/L	10.	0.14	

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BC Laboratories, Inc.

Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

HARDING LAWSON ASSOCIATES
10265 ROCKINGHAM DRIVE
SUITE 150
SACRAMENTO, CA 95827
Attn: GREG FASIANO 916-364-0793

Date Reported: 01/14/2002
Date Received: 01/02/2002
Laboratory No.: 02-00060-1

Sample Description: 47588-4000, CASMALIA, A-5-3RD-DIVERSION-01, 12/29/2001 @ 08:10

Constituents	Analysis Results	Reporting Units	P.Q.L.	M.D.L.	
Isosafrole	None Detected	µg/L	10.	0.40	
Kepone	None Detected	µg/L	20.	1.5	
Methapyrilene	None Detected	µg/L	10.	0.96	*40
3-Methylcholanthrene	None Detected	µg/L	10.	0.17	
Methyl methanesulfonate	None Detected	µg/L	10.	0.15	
Methyl parathion	None Detected	µg/L	10.	1.4	*40
1,4-Napthoquinone	None Detected	µg/L	20.	0.52	
1-Napthylamine	None Detected	µg/L	20.	0.20	
5-Nitro-o-toluidine	None Detected	µg/L	10.	0.069	
Nitroquinoline-1-oxide	None Detected	µg/L	20.	0.94	
n-Nitrosodibutylamine	None Detected	µg/L	10.	0.21	
n-Nitrosodiethylamine	None Detected	µg/L	10.	0.22	
n-Nitrosomethylethylamine	None Detected	µg/L	10.	0.28	
n-Nitrosomorpholine	None Detected	µg/L	10.	0.21	
n-Nitrosopiperidine	None Detected	µg/L	10.	0.20	
n-Nitrosopyrrolidine	None Detected	µg/L	10.	0.18	
Parathion	None Detected	µg/L	10.	0.12	
Pentachlorobenzene	None Detected	µg/L	10.	0.14	
Pentachloronitrobenzene	None Detected	µg/L	10.	0.19	
Phenacetin	None Detected	µg/L	10.	0.14	
1,4-Phenylenediamine	None Detected	µg/L	20.	0.54	
Phorate	None Detected	µg/L	10.	0.16	
2-Picoline	None Detected	µg/L	10.	0.29	
Pronamide	None Detected	µg/L	10.	0.15	
Pyridine	None Detected	µg/L	10.	0.46	
Safrole	None Detected	µg/L	10.	0.21	
1,2,4,5-Tetrachlorobenzene	None Detected	µg/L	10.	0.22	
2,3,4,6-Tetrachlorophenol	None Detected	µg/L	10.	0.27	
Tetraethyldithiopyro-phosphate	None Detected	µg/L	10.	0.14	
Thionazin	None Detected	µg/L	10.	0.18	
o-Toluidine	None Detected	µg/L	10.	0.080	
0,0,0-Triethyl phosphorothioate	None Detected	µg/L	10.	0.20	
1,3,5-Trinitrobenzene	None Detected	µg/L	10.	0.065	
Hexadecanoic acid	4.9	µg/l	0.	0.	*TI
Octadecanoic acid	7.0	µg/l	0.	0.	*TI

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BC Laboratories, Inc.

Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

HARDING LAWSON ASSOCIATES
10265 ROCKINGHAM DRIVE
SUITE 150
SACRAMENTO, CA 95827
Attn: GREG FASIANO 916-364-0793

Date Reported: 01/14/2002
Date Received: 01/02/2002
Laboratory No.: 02-00060-1

Sample Description: 47588-4000, CASMALIA, A-5-3RD-DIVERSION-01, 12/29/2001 @ 08:10

Quality Control Data

Surrogates	% Recovery	Control Limits
2-Fluorophenol	73.	21-100
Phenol-d5	60.	10-94
Nitrobenzene-d5	92.	35-114
2-Fluorobiphenyl	73.	43-116
2,4,6-Tribromophenol	90.	10-123
d14-Terphenyl	110.	33-141

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
*02 = Sample result is between the MDL and PQL.
*03 = CCV recovery not within method limits.
*40 = Initial calibration linearity criteria not met.
*TI = Result based on tentatively identified compound search.

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Stuart G. Buttram
Department Supervisor

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BC Laboratories, Inc.

Chlorinated Herbicides
(EPA Method 8150)

HARDING LAWSON ASSOCIATES
10265 ROCKINGHAM DRIVE
SUITE 150
SACRAMENTO, CA 95827
Attn: GREG FASIANO 916-364-0793

Date Reported: 01/11/2002
Date Received: 01/02/2002
Laboratory No.: 02-00060-1

Project Number: 47588-4000
Sampling Location: CASMALIA
Sample ID: A-5-3RD-DIVERSION-01
Sample Matrix: Water

Date Collected: 12/29/2001 @ 08:10
Date Extracted: 01/03/2002
Date Analyzed: 01/08/2002 @ 22:20
Analyst: KMS
Dilution Used: 1

Constituents	Analysis Results	Reporting Units	P.Q.L.	M.D.L.	
2,4-D	None Detected	µg/L	0.4	0.16	
Dicamba	None Detected	µg/L	0.08	0.020	
Dichloroprop	0.19	µg/L	0.5	0.12	*
Dinoseb	None Detected	µg/L	0.2	0.052	
2,4,5-T	None Detected	µg/L	0.09	0.032	
2,4,5-TP (Silvex)	None Detected	µg/L	0.07	0.024	

Quality Control Data

Surrogates	% Recovery	Control Limits	
2,4-Dichlorophenylacetic acid	30.	62-170	*21

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
* = Primary/Confirmation column ratios do not agree, results may be biased. Sample result is between the MDL and PQL.
*21 = Surrogate recovery not within established limits.

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Stuart G. Buttram
Department Supervisor

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BC Laboratories, Inc.

WATER ANALYSIS
(METALS)

HARDING LAWSON ASSOCIATES
10265 ROCKINGHAM DRIVE
SUITE 150
SACRAMENTO, CA 95827
Attn: GREG FASIANO 916-364-0793

Date Reported: 01/17/2002
Date Received: 01/02/2002
Laboratory No.: 02-00060-1

Project Number: 47588-4000
Sampling Location: CASMALIA
Sample ID: A-5-3RD-DIVERSION-01
Sampling Date/Time: 12/29/2001 @ 08:10

Constituents		Results	Units	P.Q.L.	M.D.L.	Method	Date Prepared	Date Analyzed
Total Antimony	*01	None Detected	µg/L	10.	0.60	EPA-200.8	01/04/02	01/09/02
Total Arsenic		49.	µg/L	5.0	0.85	EPA-200.8	01/04/02	01/09/02
Total Barium	*06	30.	µg/L	50.	5	EPA-6010	01/03/02	01/04/02
Total Beryllium	*01	None Detected	µg/L	50.	1.6	EPA-6010	01/03/02	01/04/02
Total Cadmium	*01	None Detected	µg/L	50.	20	EPA-6010	01/03/02	01/04/02
Total Chromium	*01	None Detected	µg/L	50.	20.	EPA-6010	01/03/02	01/04/02
Total Cobalt	*01	None Detected	µg/L	250	7.	EPA-6010	01/03/02	01/04/02
Total Copper	*01	None Detected	µg/L	50	20.	EPA-6010	01/03/02	01/08/02
Total Lead	*06	1.2	µg/L	5.0	0.28	EPA-200.8	01/04/02	01/09/02
Total Mercury		None Detected	µg/L	0.2	0.1	EPA-7470	01/04/02	01/07/02
Total Molybdenum	*06	30.	µg/L	250.	20.	EPA-6010	01/03/02	01/04/02
Total Nickel		100.	µg/L	50.	20.	EPA-6010	01/03/02	01/04/02
Total Selenium		170.	µg/L	5.0	1.3	EPA-200.8	01/04/02	01/09/02
Total Silver	*01	None Detected	µg/L	50.	20.	EPA-6010	01/03/02	01/04/02
Total Tin	*01	None Detected	µg/L	5.0	0.27	EPA-200.8	01/04/02	01/09/02
Total Thallium	*01	None Detected	µg/L	5.0	0.28	EPA-200.8	01/04/02	01/09/02
Total Vanadium	*01	None Detected	µg/L	50.	20	EPA-6010	01/03/02	01/04/02
Total Zinc	*06	44.	µg/L	250.	4.5	EPA-6010	01/03/02	01/04/02

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
*01 = Note: PQL's and MDL's are raised due to matrix interferences.
*06 = Note: PQL and MDL are raised due to matrix interferences. Sample result is between the MDL and PQL.

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Dan Schultz
Laboratory Director

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BC Laboratories, Inc.

WATER ANALYSIS
(GENERAL CHEMISTRY)

HARDING LAWSON ASSOCIATES
10265 ROCKINGHAM DRIVE
SUITE 150
SACRAMENTO, CA 95827
Attn: GREG FASIANO 916-364-0793

Date Reported: 01/17/2002
Date Received: 01/02/2002
Laboratory No.: 02-00060-1

Project Number: 47588-4000
Sampling Location: CASMALIA
Sample ID: A-5-3RD-DIVERSION-01
Sampling Date/Time: 12/29/2001 @ 08:10

Constituents		Results	Units	P.Q.L.	M.D.L.	Method	Date Prepared	Date Analyzed
Total Calcium		650.	mg/L	0.25	0.07	EPA-6010	01/03/02	01/04/02
Total Magnesium		670.	mg/L	0.25	0.08	EPA-6010	01/03/02	01/04/02
Total Sodium		1400.	mg/L	2.5	0.4	EPA-6010	01/03/02	01/04/02
Total Potassium		27	mg/L	5.	0.6	EPA-6010	01/03/02	01/04/02
Hydroxide Alkalinity as CaCO3		None Detected	mg/L	10.	10.	EPA-310.1	01/04/02	01/04/02
Carbonate Alkalinity as CaCO3		None Detected	mg/L	10.	10.	EPA-310.1	01/04/02	01/04/02
Bicarbonate Alkalinity as CaCO3		238	mg/L	10.	10.	EPA-310.1	01/04/02	01/04/02
Sulfate		2460.	mg/L	10.	2.5	EPA-300.0	01/03/02	01/03/02
Chloride		3120.	mg/L	5.	0.90	EPA-300.0	01/03/02	01/03/02
Nitrate as NO3	*06	3.0	mg/L	4.4	0.90	EPA-300.0	01/03/02	01/03/02
Nitrate as N	*06	0.67	mg/L	1.	0.20	EPA-300.0	01/03/02	01/03/02
Fluoride		1.5	mg/L	0.5	0.20	EPA-300.0	01/03/02	01/03/02
Bromide		264.	mg/L	5.	4.	EPA-300.0	01/03/02	01/03/02
pH		8.00	pH Units	.	.	EPA-9040	01/03/02	01/03/02
Total Dissolved Solids @ 180 C		9850.	mg/L	500.	300.	EPA-160.1	01/04/02	01/04/02
Alkalinity as CaCO3		238.	mg/L	10.	10	EPA-310.1	01/04/02	01/04/02
Total Cyanide		None Detected	mg/L	0.02	0.0063	SW-9012	01/10/02	01/10/02

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
*06 = Note: PQL and MDL are raised due to matrix interferences. Sample result is between the MDL and PQL.

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Marna Atencio
Department Supervisor

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