HARDING LAWSON ASSOCIATES

CHAIN OF CUSTODY RECORD

PROJ NO.	PROJECT NAME
47588-4000	CASMALIA

SAMPLER *(Signature)* wk

Lab: BCL

Shipped on: 12/03/2001

Sample ID	Sample Date	Sample Time	Matrix	Station Location	NO. OF CON-TAINERS	Analyses	TAT	Comments
18589	12/02/2001	15:55	Liquids	A5-1202-Diversion-01	10	8250; 8270; 8150; 9012 ; Metals (Tot); 8290; Gen Min: pH	1 wk	
18590	12/02/2001	16:10	Liquids	PS-1202-Concrete-01	10	8260; 8270; 8150; 9012 ; Metals (Tot); 8290; Gen Min; pH	1 wk	
18591	12/02/2001	16:20	Liquids	PS-1202-Concrete-04	1	8260	1 wk	

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
	12/3 10:1				
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)*

ALTA

Sample ID:	01-13677-1	A5 2nd round	EPA METHOD 8290

Client Data		Sample Data		Laboratory Data			
Name:	BC Laboratories	Matrix	Effluent	Lab Sample:	21392-001	Date Received	5-Dec-01
Project:	01-13677	Sample Size	0.734 L	QC Batch No	2465	Date Extracted	6-Dec-01
Date Collected	2-Dec-01			Date Analyzed DB-5:	11-Dec-01	Date Analyzed DB-225:	NA

Analyte	Conc. (pg/L)	DL[a]	EMPC[b]	MDL[c]	Qualifiers
2,3,7,8-TCDD	ND	1.14		1.18	
1,2,3,7,8-PeCDD	ND	3.01		3.33	
1,2,3,4,7,8-HxCDD	ND	2.87		8.95	
1,2,3,6,7,8-HxCDD	ND	2.68		5.50	
1,2,3,7,8,9-HxCDD	5.16			6.88	A
1,2,3,4,6,7,8-HpCDD	14.9			4.24	A
OCDD	108			14.2	
2,3,7,8-TCDF	ND	1.03		1.10	
1,2,3,7,8-PeCDF	ND	1.83		4.52	
2,3,4,7,8-PeCDF	ND	1.65		4.09	
1,2,3,4,7,8-HxCDF	ND	1.62		4.67	
1,2,3,6,7,8-HxCDF	ND	1.60		5.30	
2,3,4,6,7,8-HxCDF	ND	1.88		4.16	
1,2,3,7,8,9-HxCDF	ND	2.26		6.34	
1,2,3,4,6,7,8-HpCDF	ND	1.83		4.53	
1,2,3,4,7,8,9-HpCDF	ND	2.51		5.88	
OCDF	11.0			9.29	A

	Labeled Standard	%R	LCL-UCL[d]	Qualifiers
IS	13C-2,3,7,8-TCDD	93.5	40 - 135	
	13C-1,2,3,7,8-PeCDD	91.1	40 - 135	
	13C-1,2,3,4,7,8-HxCDD	83.9	40 - 135	
	13C-1,2,3,6,7,8-HxCDD	106	40 - 135	
	13C-1,2,3,4,6,7,8-HpCDD	78.8	40 - 135	
	13C-OCDD	72.9	40 - 135	
	13C-2,3,7,8-TCDF	90.0	40 - 135	
	13C-1,2,3,7,8-PeCDF	96.9	40 - 135	
	13C-2,3,4,7,8-PeCDF	94.3	40 - 135	
	13C-1,2,3,4,7,8-HxCDF	70.1	40 - 135	
	13C-1,2,3,6,7,8-HxCDF	71.8	40 - 135	
	13C-2,3,4,6,7,8-HxCDF	74.9	40 - 135	
	13C-1,2,3,7,8,9-HxCDF	78.7	40 - 135	
	13C-1,2,3,4,6,7,8-HpCDF	71.2	40 - 135	
	13C-1,2,3,4,7,8,9-HpCDF	71.0	40 - 135	
	13C-OCDF	66.7	40 - 135	
CRS	37Cl-2,3,7,8-TCDD	87.2	40 - 135	

Totals		
Total TCDD	ND	1.14
Total PeCDD	ND	3.01
Total HxCDD	5.16	
Total HpCDD	27.8	
Total TCDF	ND	1.03
Total PeCDF	ND	1.73
Total HxCDF	ND	1.83
Total HpCDF	ND	2.14

TEQ Data[e]

TEQ (Min-Max): 0.784 - 5.78

a. Sample specific estimated detection limit
b. Estimated maximum possible concentration
c. Method detection limit
d. Lower control limit - upper control limit
e. Toxic Equivalent Quotient (TEQ) based on International Toxic Equivalent Factors (ITEF)

Analyst: FW

Approved By: Martin M. Mater 11 Dec 2001 17:09

BC Laboratories, Inc.

8260

A-5 Div 12/2/01 1 of 3

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: 12/19/2001
Date Received: 12/03/2001
Laboratory No.: 01-13677-1

Project Number: 47540-3000
Sampling Location: CASMALIA
Sample ID: A5-1202-DIVERSION-01
Sample Matrix: Water

Date Collected: 12/02/2001 @ 15:55
Date Extracted: 12/08/2001
Date Analyzed: 12/08/2001 @ 03:47
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	*
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	*03
Chloroform	None Detected	µg/L	0.5	0.20	
Chloromethane	None Detected	µg/L	0.5	0.30	*03
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.

A-5 Div 12/20

2 of 3

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: 12/19/2001
Date Received: 12/03/2001
Laboratory No.: 01-13677-1

Sample Description: 47540-3000, CASMALIA, AS-1202-DIVERSION-01, 12/02/2001 @ 15:55

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	0.26	
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	*03
Isobutyl alcohol	None Detected	µg/L	50.	32.	
Isopropyl alcohol	None Detected	µg/L	100.	26.	
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.

8260
A-5 12/26
3x63

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: 12/19/2001
Date Received: 12/03/2001
Laboratory No.: 01-13677-1

Sample Description: 47540-3000, CASMALIA, A5-1202-DIVERSION-01, 12/02/2001 @ 15:55

Quality Control Data

Surrogates	% Recovery	Control Limits
1,2-Dichloroethane-d4	105.	76-114
Toluene-d8	105.	88-110
4-Bromofluorobenzene	97.	86-115

Flag Explanations:
* = ICV criteira not met.
* = CCV recovery not within method limits.
ICV criteira 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.

A-5 Div
SOG
12/21/01
1 of 4

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: 12/14/2001
Date Received: 12/03/2001
Laboratory No.: 01-13677-1

Project Number: 47540-3000
Sampling Location: CASMALIA
Sample ID: A5-1202-DIVERSION-01
Sample Matrix: Water

Date Collected: 12/02/2001 @ 15:55
Date Extracted: 12/04/2001
Date Analyzed: 12/10/2001 @ 11:51
Analyst: SKC
Dilution Used: 1.25

Constituents	Analysis Results	Reporting Units	P.Q.L.	M.D.L.
Acenaphthene	None Detected	µg/L	3.	1.2
Acenaphthylene	None Detected	µg/L	3.	1.3
Aniline	None Detected	µg/L	7.	0.86
Anthracene	None Detected	µg/L	3.	1.2
Benzo (a) anthracene	None Detected	µg/L	3.	1.1
Benzo (b) fluoranthene	None Detected	µg/L	3.	1.2
Benzo (k) fluoranthene	None Detected	µg/L	3.	1.2
Benzo (a) pyrene	None Detected	µg/L	3.	1.1
Benzo (ghi) perylene	None Detected	µg/L	3.	0.55
Benzoic Acid	None Detected	µg/L	20.	12.
Benzyl alcohol	None Detected	µg/L	3.	0.96
bis(2-chloroethyl)ether	None Detected	µg/L	3.	1.2
bis(2-chloroethoxy)methane	None Detected	µg/L	3.	1.2
bis(2-chloro-1-methylethyl)	None Detected	µg/L	3.	1.1
bis(2-ethylhexyl)phthalate	None Detected	µg/L	7.	1.2
4-Bromophenyl phenyl ether	None Detected	µg/L	3.	1.2
4-Chloroaniline	None Detected	µg/L	3.	0.99
2-Chloronaphthalene	None Detected	µg/L	3.	1.2
4-Chlorophenyl phenyl ether	None Detected	µg/L	3.	1.3
Chrysene	None Detected	µg/L	3.	1.3
Dibenzo (a,h) anthracene	None Detected	µg/L	4.	0.52
Dibenzofuran	None Detected	µg/L	3.	1.3
Di-n-butyl phthalate	None Detected	µg/L	3.	1.3
3,3-Dichlorobenzidine	None Detected	µg/L	20.	0.73
Diethyl phthalate	None Detected	µg/L	3.	1.2
Dimethyl phthalate	None Detected	µg/L	3.	0.99
2,4-Dinitrotoluene	None Detected	µg/L	3.	0.97
2,6-Dinitrotoluene	None Detected	µg/L	3.	1.1
Di-n-octylphthalate	None Detected	µg/L	3.	0.95
Fluoranthene	None Detected	µg/L	3.	1.5
Fluorene	None Detected	µg/L	3.	1.2
Hexachlorobenzene	None Detected	µg/L	3.	1.2
Hexachlorocyclopentadiene	None Detected	µg/L	3.	1.1
Hexachloroethane	None Detected	µg/L	3.	1.1
Indeno (1,2,3-cd) pyrene	None Detected	µg/L	3	0.59
Isophorone	None Detected	µg/L	3.	1.2
2-Methylnaphthalene	None Detected	µg/L	3.	1.3
2-Naphthylamine	None Detected	µg/L	30.	1.5

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BC Laboratories, Inc.

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

A-5 Div
SOC
12/2/01
2044

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

Date Reported: 12/14/2001
Date Received: 12/03/2001
Laboratory No.: 01-13677-1

Sample Description: 47540-3000, CASMALIA, A5-1202-DIVERSION-01, 12/02/2001 @ 15:55

Constituents	Analysis Results	Reporting Units	P.Q.L.	M.D.L.	
2-Nitroaniline	None Detected	µg/L	3.	0.96	
3-Nitroaniline	None Detected	µg/L	3.	0.89	
4-Nitroaniline	None Detected	µg/L	7.	0.91	
Nitrobenzene	None Detected	µg/L	3.	1.1	
n-Nitrosodimethylamine	None Detected	µg/L	3.	1.4	
n-Nitrosodiphenylamine	None Detected	µg/L	3.	1.2	
N-Nitrosodi-n-propylamine	None Detected	µg/L	3.	1.1	
Phenanthrene	None Detected	µg/L	3.	1.3	
Pyrene	None Detected	µg/L	3.	1.1	
4-Chloro-3-methylphenol	None Detected	µg/L	7.	1.1	
2-Chlorophenol	None Detected	µg/L	3.	0.92	
2,4-Dichlorophenol	None Detected	µg/L	3.	0.94	
2,4-Dimethylphenol	None Detected	µg/L	3.	1.1	
2,4-Dinitrophenol	None Detected	µg/L	20.	2.8	
2-Nitrophenol	None Detected	µg/L	3.	1.0	
4-Nitrophenol	None Detected	µg/L	3.	0.35	
Pentachlorophenol	None Detected	µg/L	20.	0.89	
Phenol	None Detected	µg/L	3.	0.58	
2,4,5-Trichlorophenol	None Detected	µg/L	7.	1.0	
2,4,6-Trichlorophenol	None Detected	µg/L	7.	1.1	
Acetophenone	None Detected	µg/L	20.	0.15	
2-Acetylaminofluorene	None Detected	µg/L	20.	0.57	
4-Aminobiphenyl	None Detected	µg/L	30.	0.21	
Aramite	None Detected	µg/L	20.	0.64	
n-butyl benzyl phthalate	None Detected	µg/L	3.	1.3	
Chlorobenzilate	None Detected	µg/L	20.	0.37	
o-Cresol	None Detected	µg/L	3.	0.94	
m- & p-Cresol	None Detected	µg/L	3.	1.8	
Diallate	None Detected	µg/L	20.	2.1	
2,6-Dichlorophenol	None Detected	µg/L	20.	0.21	
Dimethoate	None Detected	µg/L	30.	3.6	*40
Dimethylaminoazobenzene	None Detected	µg/L	20.	0.083	
7,12-Dimethylbenz (a) anthracene	None Detected	µg/L	20.	0.13	
3,3'-Dimethylbenzidine	None Detected	µg/L	30.	0.31	
a,a-Dimethylphenethylamine	None Detected	µg/L	30.	4.4	
m-Dinitrobenzene	None Detected	µg/L	20.	0.13	
4,6-Dinitro-2-methylphenol	None Detected	µg/L	20.	2.2	
Diphenylamine	None Detected	µg/L	20.	0.10	
Disulfoton	None Detected	µg/L	20.	0.21	
Ethyl methacrylate	None Detected	µg/L	20.	0.071	
Ethyl methanesulfonate	None Detected	µg/L	20.	0.21	
Famphur	None Detected	µg/L	30.	1.7	
Hexachlorophene	None Detected	µg/L	300.	35.	
Hexachloropropene	None Detected	µg/L	30.	0.18	
Isodrin	None Detected	µg/L	20.	0.16	

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BC Laboratories, Inc.

A-5 Div
SOCs
12/2/01
3044

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: 12/14/2001
Date Received: 12/03/2001
Laboratory No.: 01-13677-1

Sample Description: 47540-3000, CASMALIA, A5-1202-DIVERSION-01, 12/02/2001 @ 15:55

Constituents	Analysis Results	Reporting Units	P.Q.L.	M.D.L.	
Isosafrole	None Detected	µg/L	20.	0.45	
Kepone	None Detected	µg/L	30.	1.7	
Methapyrilene	None Detected	µg/L	20.	1.1	*40
3-Methylcholanthrene	None Detected	µg/L	20.	0.19	
Methyl methanesulfonate	None Detected	µg/L	20.	0.16	
Methyl parathion	None Detected	µg/L	20.	1.5	*40
1,4-Napthoquinone	None Detected	µg/L	30.	0.59	
1-Napthylamine	None Detected	µg/L	30.	0.23	
5-Nitro-o-toluidine	None Detected	µg/L	20.	0.077	
Nitroquinoline-1-oxide	None Detected	µg/L	30.	1.1	
n-Nitrosodibutylamine	None Detected	µg/L	20.	0.24	
n-Nitrosodiethylamine	None Detected	µg/L	20.	0.25	
n-Nitrosomethylethylamine	None Detected	µg/L	20.	0.32	
n-Nitrosomorpholine	None Detected	µg/L	20.	0.23	
n-Nitrosopiperidine	None Detected	µg/L	20.	0.22	
n-Nitrosopyrrolidine	None Detected	µg/L	20.	0.20	
Parathion	None Detected	µg/L	20.	0.13	
Pentachlorobenzene	None Detected	µg/L	20.	0.16	
Pentachloronitrobenzene	None Detected	µg/L	20.	0.21	
Phenacetin	None Detected	µg/L	20.	0.16	
1,4-Phenylenediamine	None Detected	µg/L	30.	0.60	*03
Phorate	None Detected	µg/L	20.	0.19	
2-Picoline	None Detected	µg/L	20.	0.32	
Pronamide	None Detected	µg/L	20.	0.17	
Pyridine	None Detected	µg/L	20.	0.51	
Safrole	None Detected	µg/L	20.	0.23	
1,2,4,5-Tetrachlorobenzene	None Detected	µg/L	20.	0.24	
2,3,4,6-Tetrachlorophenol	None Detected	µg/L	20.	0.30	
Tetraethyldithiopyro-phosphate	None Detected	µg/L	20.	0.16	
Thionazin	None Detected	µg/L	20.	0.21	
o-Toluidine	None Detected	µg/L	20.	0.089	
O,O,O-Triethyl phosphorothioate	None Detected	µg/L	20.	0.22	
1,3,5-Trinitrobenzene	None Detected	µg/L	20.	0.073	

Quality Control Data

Surrogates	% Recovery	Control Limits
2-Fluorophenol	47.	21-100
Phenol-d5	36.	10-94
Nitrobenzene-d5	78.	35-114
2-Fluorobiphenyl	64.	43-116
2,4,6-Tribromophenol	77.	10-123

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BC Laboratories, Inc.

A-5 Div SOCs 12/26/01 York

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: 12/14/2001
Date Received: 12/03/2001
Laboratory No.: 01-13677-1

Sample Description: 47540-3000, CASMALIA, AS-1202-DIVERSION-01, 12/02/2001 @ 15:55

Quality Control Data

Surrogates	% Recovery	Control Limits
d14-Terphenyl	88.	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

Note: PQL's and/or MDL's were raised due to inadequate sample size received.

Flag Explanations:
*03 = CCV recovery not within method limits.
*40 = Initial calibration linearity criteria not met.

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Stuart G. Buttram
Department Supervisor

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BC Laboratories, Inc.

Chlorinated Herbicides
(EPA Method 8150) A-5 11/21/01

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

Date Reported: 12/10/2001
Date Received: 12/03/2001
Laboratory No.: 01-13677-1

Project Number: 47540-3000
Sampling Location: CASMALIA
Sample ID: A5-1202-DIVERSION-01
Sample Matrix: Water

Date Collected: 12/02/2001 @ 15:55
Date Extracted: 12/04/2001
Date Analyzed: 12/05/2001 @ 15:36
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	0.23	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	108.	40-115

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.

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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: 12/26/2001
Date Received: 12/03/2001
Laboratory No.: 01-13677-1

Project Number: 47540-3000
Sampling Location: CASMALIA
Sample ID: AS-1202-DIVERSION-01
Sampling Date/Time: 12/02/2001 @ 15:55

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	12/04/01	12/06/01
Total Arsenic		2.0	µg/L	5.0	0.85	EPA-200.8	12/04/01	12/06/01
Total Barium		460.	µg/L	10.	0.9	EPA-6010	12/04/01	12/05/01
Total Beryllium	*02	1.3	µg/L	10.	0.32	EPA-6010	12/04/01	12/05/01
Total Cadmium		None Detected	µg/L	10.	4.	EPA-6010	12/04/01	12/05/01
Total Chromium		120.	µg/L	10.	4.	EPA-6010	12/04/01	12/05/01
Total Cobalt	*02	10.	µg/L	50	2.	EPA-6010	12/04/01	12/05/01
Total Copper		50.	µg/L	10.	3.	EPA-6010	12/04/01	12/06/01
Total Lead	*66	18.	µg/L	5.0	0.28	EPA-200.8	12/04/01	12/06/01
Total Mercury		None Detected	µg/L	0.2	0.10	EPA-7470	12/13/01	12/13/01
Total Molybdenum	*02	10.	µg/L	50.	3.	EPA-6010	12/04/01	12/05/01
Total Nickel		99.	µg/L	10.	3.	EPA-6010	12/04/01	12/05/01
Total Selenium		32.	µg/L	5.0	0.54	EPA-200.8	12/04/01	12/06/01
Total Silver	*02	4.	µg/L	10.	3.	EPA-6010	12/04/01	12/05/01
Total Tin	*01	None Detected	µg/L	5.0	0.26	EPA-200.8	12/04/01	12/06/01
Total Thallium	*01	0.48	µg/L	5.0	0.28	EPA-200.8	12/04/01	12/06/01
Total Vanadium		100.	µg/L	10.	3.	EPA-6010	12/04/01	12/05/01
Total Zinc	*66	310.	µg/L	50.	0.89	EPA-6010	12/04/01	12/05/01

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.
*02 = Sample result is between the MDL and PQL.
*66 = Method blank for Lead detected at 0.31 µg/L.
*66 = Method blank for Zinc detected at 14.2 µg/L.

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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: 12/18/2001
Date Received: 12/03/2001
Laboratory No.: 01-13677-1

Project Number: 47540-3000
Sampling Location: CASMALIA
Sample ID: A5-1202-DIVERSION-01
Sampling Date/Time: 12/02/2001 @ 15:55

Constituents	Results	Units	P.Q.L.	M.D.L.	Method	Date Prepared	Date Analyzed	Time Analyzed	Dilution Factor
Total Calcium	100.	mg/L	0.05	0.02	EPA-6010	12/04/01	12/05/01	12:42	1
Total Magnesium	100.	mg/L	0.05	0.02	EPA-6010	12/04/01	12/05/01	12:42	1
Total Sodium	240	mg/L	0.5	0.07	EPA-6010	12/04/01	12/05/01	12:42	1
Total Potassium	10.	mg/L	1.0	0.2	EPA-6010	12/04/01	12/05/01	12:42	1
Hydroxide Alkalinity as CaCO3	None Detected	mg/L	2.5	2.5	EPA-310.1	12/07/01	12/07/01	13:00	1
Carbonate Alkalinity as CaCO3	None Detected	mg/L	2.5	2.5	EPA-310.1	12/07/01	12/07/01	13:00	1
Bicarbonate Alkalinity as CaCO3	30.	mg/L	2.5	2.5	EPA-310.1	12/07/01	12/07/01	13:00	1
Sulfate	354.	mg/L	2.	0.30	EPA-300.0	12/04/01	12/04/01	13:46	2
Chloride	400	mg/L	1.	0.18	EPA-300.0	12/04/01	12/04/01	13:46	2
Nitrate as NO3	5.4	mg/L	0.88	0.14	EPA-300.0	12/04/01	12/04/01	13:46	2
Nitrate as N	1.2	mg/L	0.2	0.040	EPA-300.0	12/04/01	12/04/01	13:46	2
Fluoride	3.1	mg/L	0.1	0.040	EPA-300.0	12/04/01	12/04/01	13:46	2
Bromide	31.0	mg/L	0.5	0.4	EPA-300.0	12/04/01	12/04/01	13:46	2
pH	6.78	pH Units	-	-	EPA 9040	12/04/01	12/04/01	12:50	1
Total Dissolved Solids @ 180 C	1310.	mg/L	100.	50	EPA-160.3	12/04/01	12/04/01	12:10	10
Alkalinity as CaCO3	30.	mg/L	2.5	2.5	EPA-310.1	12/04/01	12/04/01	12:42	1
Total Cyanide	None Detected	mg/L	0.02	0.0063	SW-9012	12/05/01	12/05/01	14:00	1
Cyanide Amenable to Chlorination	None Detected	mg/L	0.02	0.0063	SW-9012	12/05/01	12/05/01	14:00	1

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4100 Atlas Court * Bakersfield, CA 93308 * (661) 327-4911 * Fax (661) 327-1918 * www.bclabs.com

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BC Laboratories, Inc

WATER ANALYSIS
(GENERAL CHEMISTRY)

HARDING LAWSON ASSOCIATES
10265 ROCKINGHAM DRIVE
SUITE 350
SACRAMENTO, CA 95827
Attn GREG FASTAFO 916-364-0793

Date Reported: 12/18/2001
Date Received: 12/01/2001
Laboratory No. 01-11677-3

Sample Description 47540-3000, CASMALIA, AS-1202-DIVERSION-01, 12/02/2001 @ 15:55

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

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Marna Atencio
Department Supervisor

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