CHAIN OF CUSTODY

BC LABORATORIES, INC. 4100 Atlas Court - Bakersfield, CA 93308 (805) 327-4911 - FAX (805) 327-1918

Report To: Arcadis	
Name: Geraghty + Miller	Project: LLM/Torrance
Address: 1400 N Harbor Ste 200	Project #: CA0002800006000
City: Fullerton	Sampler Name:
State: CA Zip: 92835	Tim Teeple
Attn: Teresa Wilson	Submission #
Phone: (714) 278-0992	99-8271

Analysis Requested

Lab #	Sample Description	Date & Time Sampled	8260-VOC's	6010-CAM 17	8015M-TPH-HC	1296-Cr+6	Alkalinity (Total)	Ammonia, Nitrogen	415.1-DOC	Ortho-Phosphate	Nitrite/Nitrate	207.7-Fe, Mn	Sulfate	Chloride				MATRIX (DW - Drinking Water, GW - Ground Water, WW - Waste Water, S - Soil, O - Oil, SL - Sludge, M - Miscellaneous)	Turn Around Time Requested	Number and Container Type
-1	P-16A	7-15-99/0920	X	X	X	X	X	X	X	X	X	X	X	X				GW		9 Bottles
-2	P-24	7-15-99/1238	X	X	X	X	X	X	X	X	X	X	X	X				GW		9 Bottles
-3	P-7	7-15-99/1430	X	X	X	X	X	X	X	X	X	X	X	X				GW		9 Bottles
-4	P-22	7-15-99/1545	X	X	X	X	X	X	X	X	X	X	X	X				GW		9 Bottles
-5	P-17	7-15-99/1645	X	X	X	X	X	X	X	X	X	X	X	X				GW		9 Bottles
-6	FB071599A	7-15-99/1640	X	X	X	X	X	X	X	X	X	X	X	X				DI		9 Bottles
FTB	Trip blank																	DI		2 Bottles

DISTRIBUTION: MA | SB | BK | TC

NUMBERING CHECKED BY

Billing Information:

Name: Same as above

Address:

City State Zip

Attention:

PO #

BC Lab. Field Service

Time : Miles:

Equipment: Flat Rate

Report Drinking Water on State Form ? Y / N

Send Copy to State of Calif. Y / N

Comments: * Please review LTO for specifics

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Timothy Teeple	Jerry Mitchell	7-15-99	17:12
Jerry Mitchell	Thomas Gil	7.15.99	2035

Revised 5/97....Sample Disposal by BC Labs may be billed at $5.00 / sample for non-aqueous Samples:

BOE-C6-0102133

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No.0 10/13/95 Page ___ of ___

Submission #: 99-8271 **Project Code:**

SHIPPING INFORMATION

Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify) _____

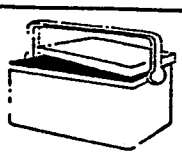
SHIPPING CONTAINER

Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify) _____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐



Ice Chest ID Blue Date/Time 7/15/99 2046
Temperature: 2.8 °C
Thermometer ID: #48 Analyst Init CFOO
Emissivity .90
Container TBlank

Ice Chest ID Red Date/Time 7/15/99 2055
Temperature: 3.2 °C
Thermometer ID: #48 Analyst Init GFOE
Emissivity .90
Container TBlank

SAMPLE CONTAINERS	SAMPLE NUMBERS																						
					TB														TB				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
QT GENERAL MINERAL/ GENERAL PHYSICAL	1	1	1	1													1	1					
PT PE UNPRESERVED																							
QT INORGANIC CHEMICAL METALS	2	2	2	2													2	2					
PT INORGANIC CHEMICAL METALS																							
PT CYANIDE																							
PT NITROGEN FORMS	1	1	1	1													1	1					
PT TOTAL SULFIDE																							
2oz. NITRATE / NITRITE																							
100ml TOTAL ORGANIC CARBON	1	1	1	1													1	1					
QT TOX																							
PT CHEMICAL OXYGEN DEMAND																							
100ml PHENOLICS*																							
40ml VOA VIAL TRAVEL BLANK					2														2				
40ml VOA VIAL																							
QT EPA 413.1, 413.2, 418.1																							
PT ODOR																							
RADIOLOGICAL																							
BACTERIOLOGICAL																							
PT EPA 504																							
QT EPA 508/608/8080																							
QT EPA 515.1/8150																							
QT EPA 525																							
QT EPA 525 TRAVEL BLANK																							
100ml EPA 547																							
100ml EPA 531.1																							
QT EPA 548																							
QT EPA 549																							
QT EPA 632																							
QT EPA 8015M																							
QT QA/QC																							
QT AMBER	1	1	1	1													1	1					
8 OZ. JAR																							
32 OZ. JAR																							
SOIL SLEEVE																							
PCB VIAL																							
PLASTIC BAG																							

Comments:

BC Laboratories, Inc.

WATER ANALYSIS
(GENERAL CHEMISTRY)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/27/99
Date Received: 07/15/99
Laboratory No.: 99-08271-1

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-16A
Sampling Date/Time: 07/15/99 @ 09:20AM
Sample Collected By: TIM TEEPLE

Constituents	Results	Units	P.Q.L.	Method	Date Prepared	Date Analyzed	Dilution Factor
Sulfate	97.	mg/L	2.0	EPA-300.0	07/19/99	07/19/99	2
Chloride	626.	mg/L	1.0	EPA-300.0	07/19/99	07/19/99	2
Nitrate/Nitrite as N	9.6	mg/L	0.5	EPA-353.2	07/20/99	07/20/99	5
Total Alkalinity as CaCO3	240.	mg/L	5.0	EPA-310.1	07/19/99	07/19/99	1
Ammonia as N	None Detected	mg/L	0.02	EPA-350.1	07/21/99	07/21/99	1
Ortho-phosphate	4.7	mg/L	0.5	EPA-365.1	07/16/99	07/16/99	10
Dissolved Non-Volatile Organic Carbon	2.0	mg/L	1.0	EPA-415.1	07/19/99	07/19/99	1

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

California D.O.H.S. Cert. #1186

Marna Atencio
Department Supervisor

BC Laboratories, Inc.

WATER ANALYSIS
(GENERAL CHEMISTRY)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/27/99
Date Received: 07/15/99
Laboratory No.: 99-08271-2

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-24
Sampling Date/Time: 07/15/99 @ 12:38PM
Sample Collected By: TIM TEEPLE

Constituents	Results	Units	P.Q.L.	Method	Date Prepared	Date Analyzed	Dilution Factor
Sulfate	64.	mg/L	2.0	EPA-300.0	07/19/99	07/19/99	2
Chloride	387.	mg/L	1.0	EPA-300.0	07/19/99	07/19/99	2
Nitrate/Nitrite as N	1.9	mg/L	0.1	EPA-353.2	07/20/99	07/20/99	1
Total Alkalinity as CaCO3	414.	mg/L	5.0	EPA-310.1	07/19/99	07/19/99	1
Ammonia as N	0.07	mg/L	0.02	EPA-350.1	07/21/99	07/21/99	1
Ortho-phosphate	2.3	mg/L	0.25	EPA-365.1	07/16/99	07/16/99	5
Dissolved Non-Volatile Organic Carbon	6.1	mg/L	1.0	EPA-415.1	07/19/99	07/19/99	1

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

California D.O.H.S. Cert. #1186

Marna Atencio
Department Supervisor

... not a third party interpretation.

BC Laboratories, Inc.

WATER ANALYSIS
(GENERAL CHEMISTRY)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/27/99
Date Received: 07/15/99
Laboratory No.: 99-08271-3

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-7
Sampling Date/Time: 07/15/99 @ 02:30PM
Sample Collected By: TIM TEEPLE

Constituents	Results	Units	P.Q.L.	Method	Date Prepared	Date Analyzed	Dilution Factor
Sulfate	77.	mg/L	2.0	EPA-300.0	07/19/99	07/19/99	2
Chloride	361.	mg/L	1.0	EPA-300.0	07/19/99	07/19/99	2
Nitrate/Nitrite as N	7.5	mg/L	0.2	EPA-353.2	07/20/99	07/20/99	2
Total Alkalinity as CaCO3	253.	mg/L	5.0	EPA-310.1	07/19/99	07/19/99	1
Ammonia as N	0.22	mg/L	0.02	EPA-350.1	07/21/99	07/21/99	1
Ortho-phosphate	1.9	mg/L	0.1	EPA-365.1	07/16/99	07/16/99	2
Dissolved Non-Volatile Organic Carbon	7.2	mg/L	1.0	EPA-415.1	07/19/99	07/19/99	1

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

California D.O.H.S. Cert. #1186

Marna Atencio
Department Supervisor

... subject to third party interpretation.

BC Laboratories, Inc.

WATER ANALYSIS
(GENERAL CHEMISTRY)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/27/99
Date Received: 07/15/99
Laboratory No.: 99-08271-4

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-22
Sampling Date/Time: 07/15/99 @ 03:45PM
Sample Collected By: TIM TEEPLE

Constituents	Results	Units	P.Q.L.	Method	Date Prepared	Date Analyzed	Dilution Factor
Sulfate	11.	mg/L	5.0	EPA-300.0	07/19/99	07/19/99	5
Chloride	881.	mg/L	2.5	EPA-300.0	07/19/99	07/19/99	5
Nitrate/Nitrite as N	5.1	mg/L	0.1	EPA-353.2	07/20/99	07/20/99	1
Total Alkalinity as CaCO3	314.	mg/L	5.0	EPA-310.1	07/19/99	07/19/99	1
Ammonia as N	None Detected	mg/L	0.02	EPA-350.1	07/21/99	07/21/99	1
Ortho-phosphate	2.2	mg/L	0.25	EPA-365.1	07/16/99	07/16/99	5
Dissolved Non-Volatile Organic Carbon	4.9	mg/L	1.0	EPA-415.1	07/19/99	07/19/99	1

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

California D.O.H.S. Cert. #1186

Marna Atencio
Department Supervisor

...detachment or third party interpretation.

BC Laboratories, Inc.

WATER ANALYSIS
(GENERAL CHEMISTRY)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/27/99
Date Received: 07/15/99
Laboratory No.: 99-08271-5

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-17
Sampling Date/Time: 07/15/99 @ 05:15PM
Sample Collected By: TIM TEEPLE

Constituents	Results	Units	P.Q.L.	Method	Date Prepared	Date Analyzed	Dilution Factor
Sulfate	28.	mg/L	2.0	EPA-300.0	07/19/99	07/19/99	2
Chloride	394.	mg/L	1.0	EPA-300.0	07/19/99	07/19/99	2
Nitrate/Nitrite as N	7.0	mg/L	0.2	EPA-353.2	07/20/99	07/20/99	2
Total Alkalinity as CaCO3	280.	mg/L	5.0	EPA-310.1	07/19/99	07/19/99	1
Ammonia as N	None Detected	mg/L	0.02	EPA-350.1	07/21/99	07/21/99	1
Ortho-phosphate	0.10	mg/L	0.05	EPA-365.1	07/16/99	07/16/99	1
Dissolved Non-Volatile Organic Carbon	5.0	mg/L	1.0	EPA-415.1	07/19/99	07/19/99	1

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

California D.O.H.S. Cert. #1186

Marna Atencio
Department Supervisor

...datahement or third party interpretation

BC Laboratories, Inc.

WATER ANALYSIS
(GENERAL CHEMISTRY)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/27/99
Date Received: 07/15/99
Laboratory No.: 99-08271-6

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: FB071599A
Sampling Date/Time: 07/15/99 @ 04:40PM
Sample Collected By: TIM TEEPLE

Constituents	Results	Units	P.Q.L.	Method	Date Prepared	Date Analyzed	Dilution Factor
Sulfate	None Detected	mg/L	1.0	EPA-300.0	07/19/99	07/19/99	1
Chloride	None Detected	mg/L	0.5	EPA-300.0	07/19/99	07/19/99	1
Nitrate/Nitrite as N	None Detected	mg/L	0.1	EPA-353.2	07/20/99	07/20/99	1
Total Alkalinity as CaCO3	None Detected	mg/L	5.0	EPA-310.1	07/19/99	07/19/99	1
Ammonia as N	None Detected	mg/L	0.02	EPA-350.1	07/21/99	07/21/99	1
Ortho-phosphate	None Detected	mg/L	0.05	EPA-365.1	07/16/99	07/16/99	1
Dissolved Non-Volatile Organic Carbon	3.7	mg/L	1.0	EPA-415.1	07/19/99	07/19/99	1

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

California D.O.H.S. Cert. #1186

Marna Atencio
Department Supervisor

...tachment or third party interpretation.

BC Laboratories, Inc.

WATER ANALYSIS
(METALS)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 08/02/99
Date Received: 07/15/99
Laboratory No.: 99-08271-1

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-16A
Sampling Date/Time: 07/15/99 @ 09:20AM
Sample Collected By: TIM TEEPLE

Constituents		Results	Units	P.Q.L.	Method	Date Prepared	Date Analyzed	Dilution Factor
Dissolved Aluminum		None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Antimony		None Detected	µg/L	100.	EPA-6010	07/15/99	07/22/99	1
Dissolved Arsenic		8.3	µg/L	2.	SM-3114B	07/19/99	07/29/99	1
Dissolved Barium		None Detected	µg/L	100.	EPA-6010	07/15/99	07/22/99	1
Dissolved Beryllium		None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Cadmium		None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Chromium		12.	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Hexavalent Chromium		15.	µg/L	2.	EPA-7196	07/16/99	07/16/99	1
Dissolved Cobalt		None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Copper		None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Lead		None Detected	µg/L	5.	EPA-7421	07/15/99	07/19/99	1
Dissolved Manganese		None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Mercury		None Detected	µg/L	0.2	EPA-7470	07/26/99	07/27/99	1
Dissolved Molybdenum		None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Nickel		None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Selenium		None Detected	µg/L	2.	SM-3114B	07/19/99	07/29/99	1
Dissolved Silver		None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Titanium		None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Thallium		None Detected	µg/L	1.	EPA-7841	07/15/99	07/19/99	1
Dissolved Vanadium		None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Zinc		None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Total Aluminum		4530.	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Antimony		None Detected	µg/L	100.	EPA-6010	07/19/99	07/21/99	1
Total Arsenic		9.2	µg/L	2.	SM-3114B	07/19/99	07/21/99	1
Total Barium		104.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Beryllium		None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Cadmium		None Detected	µg/L	5.	EPA-6010	07/19/99	07/21/99	1
Total Chromium		21.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Cobalt		None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Copper		53.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Iron		5240.	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Lead		None Detected	µg/L	5.	EPA-7421	07/21/99	07/22/99	1
Total Manganese		102.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Mercury		None Detected	µg/L	0.2	EPA-7470	07/20/99	07/20/99	1
Total Molybdenum		None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Nickel		None Detected	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Selenium		None Detected	µg/L	2.	SM-3114B	07/19/99	07/20/99	1
Total Silver		None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Titanium	*04	247.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Thallium		None Detected	µg/L	5.0	EPA-7841	07/21/99	07/22/99	1
Total Vanadium		16.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Zinc		None Detected	µg/L	50.	EPA-6010	07/19/99	07/21/99	1

BC Laboratories, Inc.

WATER ANALYSIS
(METALS)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 08/02/99
Date Received: 07/15/99
Laboratory No.: 99-08271-1

Sample Description: CA000280-0007-00001, ILM, P-16A, 07/15/99 @ 09:20AM, TIM TEEPLE

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

Dissolved analysis reported on sample filtered and acidified in the field.

Flag Explanations:
*04 = Matrix spike recoveries not within established limits, results may be affected.

California D.O.H.S. Cert. #1186

M. Atencio for

Dan Schultz
Laboratory Director

BC Laboratories, Inc.

WATER ANALYSIS
(METALS)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 08/02/99
Date Received: 07/15/99
Laboratory No.: 99-08271-2

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-24
Sampling Date/Time: 07/15/99 @ 12:38PM
Sample Collected By: TIM TEEPLE

Constituents		Results	Units	P.Q.L.	Method	Date Prepared	Date Analyzed	Dilution Factor
Dissolved Aluminum		None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Antimony		None Detected	µg/L	100.	EPA-6010	07/15/99	07/22/99	1
Dissolved Arsenic		4.0	µg/L	2.	SM-3114B	07/19/99	07/29/99	1
Dissolved Barium		133.	µg/L	100.	EPA-6010	07/15/99	07/22/99	1
Dissolved Beryllium		None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Cadmium		None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Chromium		None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Hexavalent Chromium		None Detected	µg/L	2.	EPA-7196	07/16/99	07/16/99	1
Dissolved Cobalt		None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Copper		None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Lead		None Detected	µg/L	5.	EPA-7421	07/15/99	07/19/99	1
Dissolved Manganese		114.	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Mercury		None Detected	µg/L	0.2	EPA-7470	07/26/99	07/27/99	1
Dissolved Molybdenum		None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Nickel		None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Selenium		None Detected	µg/L	2.	SM-3114B	07/19/99	07/29/99	1
Dissolved Silver		None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Titanium		None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Thallium		None Detected	µg/L	1.	EPA-7841	07/15/99	07/19/99	1
Dissolved Vanadium		None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Zinc		None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Total Aluminum		4150.	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Antimony		None Detected	µg/L	100.	EPA-6010	07/19/99	07/21/99	1
Total Arsenic		5.9	µg/L	2.	SM-3114B	07/19/99	07/21/99	1
Total Barium		147.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Beryllium		None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Cadmium		None Detected	µg/L	5.	EPA-6010	07/19/99	07/21/99	1
Total Chromium		12.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Cobalt		None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Copper		23.	µg/L	10.	EPA-6010	07/19/99	07/22/99	1
Total Iron		5180.	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Lead		None Detected	µg/L	5.	EPA-7421	07/21/99	07/22/99	1
Total Manganese		181.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Mercury		None Detected	µg/L	0.2	EPA-7470	07/20/99	07/20/99	1
Total Molybdenum		None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Nickel		None Detected	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Selenium		None Detected	µg/L	2.	SM-3114B	07/19/99	07/20/99	1
Total Silver		None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Titanium	*04	197.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Thallium		None Detected	µg/L	5.0	EPA-7841	07/21/99	07/22/99	1
Total Vanadium		14.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Zinc		None Detected	µg/L	50.	EPA-6010	07/19/99	07/21/99	1

BC Laboratories, Inc.

WATER ANALYSIS
(METALS)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 08/02/99
Date Received: 07/15/99
Laboratory No.: 99-08271-2

Sample Description: CA000280-0007-00001, ILM, P-24, 07/15/99 @ 12:38PM, TIM TEEPLE

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

Dissolved analysis reported on sample filtered and acidified in the field.

Flag Explanations:
*04 = Matrix spike recoveries not within established limits, results may be affected.

California D.O.H.S. Cert. #1186

Dan Schultz
Laboratory Director

BC Laboratories, Inc.

WATER ANALYSIS
(METALS)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 08/02/99
Date Received: 07/15/99
Laboratory No.: 99-08271-3

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-7
Sampling Date/Time: 07/15/99 @ 02:30PM
Sample Collected By: TIM TEEPLE

Constituents	Results	Units	P.Q.L.	Method	Date Prepared	Date Analyzed	Dilution Factor
Dissolved Aluminum	None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Antimony	None Detected	µg/L	100.	EPA-6010	07/15/99	07/22/99	1
Dissolved Arsenic	5.0	µg/L	2.	SM-3114B	07/19/99	07/29/99	1
Dissolved Barium	108.	µg/L	100.	EPA-6010	07/15/99	07/22/99	1
Dissolved Beryllium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Cadmium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Chromium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Hexavalent Chromium	2.	µg/L	2.	EPA-7196	07/16/99	07/16/99	1
Dissolved Cobalt	None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Copper	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Lead	None Detected	µg/L	5.	EPA-7421	07/15/99	07/19/99	1
Dissolved Manganese	268.	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Mercury	None Detected	µg/L	0.2	EPA-7470	07/26/99	07/27/99	1
Dissolved Molybdenum	None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Nickel	None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Selenium	None Detected	µg/L	2.	SM-3114B	07/19/99	07/29/99	1
Dissolved Silver	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Titanium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Thallium	None Detected	µg/L	1.	EPA-7841	07/15/99	07/19/99	1
Dissolved Vanadium	11.	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Zinc	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Total Aluminum	14000.	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Antimony	None Detected	µg/L	100.	EPA-6010	07/19/99	07/21/99	1
Total Arsenic	9.2	µg/L	2.	SM-3114B	07/19/99	07/21/99	1
Total Barium	184.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Beryllium	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Cadmium	None Detected	µg/L	5.	EPA-6010	07/19/99	07/21/99	1
Total Chromium	22.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Cobalt	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Copper	27.	µg/L	10.	EPA-6010	07/19/99	07/22/99	1
Total Iron	16500.	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Lead	9.8	µg/L	5.	EPA-7421	07/21/99	07/22/99	1
Total Manganese	452.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Mercury	None Detected	µg/L	0.2	EPA-7470	07/20/99	07/20/99	1
Total Molybdenum	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Nickel	None Detected	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Selenium	None Detected	µg/L	2.	SM-3114B	07/19/99	07/20/99	1
Total Silver	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Titanium	*04 762.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Thallium	None Detected	µg/L	5.0	EPA-7841	07/21/99	07/22/99	1
Total Vanadium	38.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Zinc	66.	µg/L	50.	EPA-6010	07/19/99	07/21/99	1

BC Laboratories, Inc.

WATER ANALYSIS
(METALS)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 08/02/99
Date Received: 07/15/99
Laboratory No.: 99-08271-3

Sample Description: CA000280-0007-00001, ILM, P-7, 07/15/99 @ 02:30PM, TIM TEEPLE

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

Dissolved analysis reported on sample filtered and acidified in the field.

Flag Explanations:
*04 = Matrix spike recoveries not within established limits, results may be affected.

California D.O.H.S. Cert. #1186

M. Atencio for

Dan Schultz
Laboratory Director

BC Laboratories, Inc.

WATER ANALYSIS
(METALS)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 08/02/99
Date Received: 07/15/99
Laboratory No.: 99-08271-4

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-22
Sampling Date/Time: 07/15/99 @ 03:45PM
Sample Collected By: TIM TEEPLE

Constituents	Results	Units	P.Q.L.	Method	Date Prepared	Date Analyzed	Dilution Factor
Dissolved Aluminum	None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Antimony	None Detected	µg/L	100.	EPA-6010	07/15/99	07/22/99	1
Dissolved Arsenic	3.3	µg/L	2.	SM-3114B	07/19/99	07/29/99	1
Dissolved Barium	190.	µg/L	100.	EPA-6010	07/15/99	07/22/99	1
Dissolved Beryllium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Cadmium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Chromium	11.	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Hexavalent Chromium	17.	µg/L	2.	EPA-7196	07/16/99	07/16/99	1
Dissolved Cobalt	None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Copper	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Lead	None Detected	µg/L	5.	EPA-7421	07/15/99	07/19/99	1
Dissolved Manganese	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Mercury	None Detected	µg/L	0.2	EPA-7470	07/20/99	07/20/99	1
Dissolved Molybdenum	None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Nickel	None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Selenium	2.1	µg/L	2.	SM-3114B	07/19/99	07/29/99	1
Dissolved Silver	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Titanium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Thallium	None Detected	µg/L	1.	EPA-7841	07/15/99	07/19/99	1
Dissolved Vanadium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Zinc	16.	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Total Aluminum	473.	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Antimony	None Detected	µg/L	100.	EPA-6010	07/19/99	07/21/99	1
Total Arsenic	4.0	µg/L	2.	SM-3114B	07/19/99	07/21/99	1
Total Barium	187.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Beryllium	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Cadmium	None Detected	µg/L	5.	EPA-6010	07/19/99	07/21/99	1
Total Chromium	16.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Cobalt	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Copper	None Detected	µg/L	10.	EPA-6010	07/19/99	07/22/99	1
Total Iron	690.	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Lead	None Detected	µg/L	5.	EPA-7421	07/21/99	07/22/99	1
Total Manganese	27.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Mercury	None Detected	µg/L	0.2	EPA-7470	07/20/99	07/20/99	1
Total Molybdenum	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Nickel	None Detected	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Selenium	2.1	µg/L	2.	SM-3114B	07/19/99	07/20/99	1
Total Silver	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Titanium	*04 22.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Thallium	None Detected	µg/L	5.0	EPA-7841	07/21/99	07/22/99	1
Total Vanadium	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Zinc	None Detected	µg/L	50.	EPA-6010	07/19/99	07/21/99	1

...tation, detachment or third party interpretation.

BC Laboratories, Inc.

WATER ANALYSIS
(METALS)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 08/02/99
Date Received: 07/15/99
Laboratory No.: 99-08271-4

Sample Description: CA000280-0007-00001, ILM, P-22, 07/15/99 @ 03:45PM, TIM TEEPLE

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

Dissolved analysis reported on sample filtered and acidified in the field.

Flag Explanations:
*04 = Matrix spike recoveries not within established limits, results may be affected.

California D.O.H.S. Cert. #1186

Dan Schultz
Laboratory Director

BC Laboratories, Inc. assumes no responsibility for report alteration, detahcment or third party interpretatiion.

BC Laboratories, Inc.

WATER ANALYSIS
(METALS)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 08/02/99
Date Received: 07/15/99
Laboratory No.: 99-08271-5

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-17
Sampling Date/Time: 07/15/99 @ 05:15PM
Sample Collected By: TIM TEEPLE

Constituents	Results	Units	P.Q.L.	Method	Date Prepared	Date Analyzed	Dilution Factor
Dissolved Aluminum	None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Antimony	None Detected	µg/L	100.	EPA-6010	07/15/99	07/22/99	1
Dissolved Arsenic	None Detected	µg/L	2.	SM-3114B	07/19/99	07/29/99	1
Dissolved Barium	None Detected	µg/L	100.	EPA-6010	07/15/99	07/22/99	1
Dissolved Beryllium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Cadmium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Chromium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Hexavalent Chromium	23.	µg/L	2.	EPA-7196	07/16/99	07/16/99	1
Dissolved Cobalt	24.	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Copper	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Lead	None Detected	µg/L	5.	EPA-7421	07/15/99	07/19/99	1
Dissolved Manganese	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Mercury	12.	µg/L	0.2	EPA-7470	07/26/99	07/27/99	1
Dissolved Molybdenum	None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Nickel	None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Selenium	None Detected	µg/L	2.	SM-3114B	07/19/99	07/29/99	1
Dissolved Silver	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Titanium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Thallium	None Detected	µg/L	1.	EPA-7841	07/15/99	07/19/99	1
Dissolved Vanadium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Zinc	10.	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Total Aluminum	2950.	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Antimony	None Detected	µg/L	100.	EPA-6010	07/19/99	07/21/99	1
Total Arsenic	2.6	µg/L	2.	SM-3114B	07/19/99	07/21/99	1
Total Barium	86.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Beryllium	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Cadmium	None Detected	µg/L	5.	EPA-6010	07/19/99	07/21/99	1
Total Chromium	34.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Cobalt	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Copper	None Detected	µg/L	10.	EPA-6010	07/19/99	07/22/99	1
Total Iron	3890.	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Lead	7.2	µg/L	5.	EPA-7421	07/21/99	07/22/99	1
Total Manganese	70.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Mercury	None Detected	µg/L	0.2	EPA-7470	07/20/99	07/20/99	1
Total Molybdenum	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Nickel	None Detected	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Selenium	None Detected	µg/L	2.	SM-3114B	07/19/99	07/20/99	1
Total Silver	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Titanium	*04 185.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Thallium	None Detected	µg/L	5.0	EPA-7841	07/21/99	07/22/99	1
Total Vanadium	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Zinc	173.	µg/L	50.	EPA-6010	07/19/99	07/21/99	1

BC Laboratories, Inc.

WATER ANALYSIS
(METALS)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 08/02/99
Date Received: 07/15/99
Laboratory No.: 99-08271-5

Sample Description: CA000280-0007-00001, ILM, P-17, 07/15/99 @ 05:15PM, TIM TEEPLE

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

Dissolved analysis reported on sample filtered and acidified in the field.

Flag Explanations:
*04 = Matrix spike recoveries not within established limits, results may be affected.

California D.O.H.S. Cert. #1186

Dan Schultz
Laboratory Director

BC Laboratories, Inc.

WATER ANALYSIS
(METALS)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 08/02/99
Date Received: 07/15/99
Laboratory No.: 99-08271-6

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: FB071599A
Sampling Date/Time: 07/15/99 @ 04:40PM
Sample Collected By: TIM TEEPLE

Constituents	Results	Units	P.Q.L.	Method	Date Prepared	Date Analyzed	Dilution Factor
Dissolved Aluminum	None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Antimony	None Detected	µg/L	100.	EPA-6010	07/15/99	07/22/99	1
Dissolved Arsenic	None Detected	µg/L	2.	SM-3114B	07/19/99	07/29/99	1
Dissolved Barium	None Detected	µg/L	100.	EPA-6010	07/15/99	07/22/99	1
Dissolved Beryllium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Cadmium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Chromium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Hexavalent Chromium	None Detected	µg/L	2.	EPA-7196	07/16/99	07/16/99	1
Dissolved Cobalt	None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Copper	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Lead	None Detected	µg/L	5.	EPA-7421	07/15/99	07/19/99	1
Dissolved Manganese	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Mercury	None Detected	µg/L	0.2	EPA-7470	07/26/99	07/27/99	1
Dissolved Molybdenum	None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Nickel	None Detected	µg/L	50.	EPA-6010	07/15/99	07/22/99	1
Dissolved Selenium	None Detected	µg/L	2.	SM-3114B	07/19/99	07/29/99	1
Dissolved Silver	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Titanium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Thallium	None Detected	µg/L	1.	EPA-7841	07/15/99	07/19/99	1
Dissolved Vanadium	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Dissolved Zinc	None Detected	µg/L	10.	EPA-6010	07/15/99	07/22/99	1
Total Aluminum	None Detected	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Antimony	None Detected	µg/L	100.	EPA-6010	07/19/99	07/21/99	1
Total Arsenic	None Detected	µg/L	2.	SM-3114B	07/19/99	07/21/99	1
Total Barium	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Beryllium	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Cadmium	None Detected	µg/L	5.	EPA-6010	07/19/99	07/21/99	1
Total Chromium	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Cobalt	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Copper	21.	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Iron	None Detected	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Lead	None Detected	µg/L	5.	EPA-7421	07/21/99	07/22/99	1
Total Manganese	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Mercury	None Detected	µg/L	0.2	EPA-7470	07/20/99	07/20/99	1
Total Molybdenum	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Nickel	None Detected	µg/L	50.	EPA-6010	07/19/99	07/21/99	1
Total Selenium	None Detected	µg/L	2.	SM-3114B	07/19/99	07/20/99	1
Total Silver	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Titanium	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Thallium	None Detected	µg/L	5.0	EPA-7841	07/21/99	07/22/99	1
Total Vanadium	None Detected	µg/L	10.	EPA-6010	07/19/99	07/21/99	1
Total Zinc	None Detected	µg/L	50.	EPA-6010	07/19/99	07/21/99	1

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BC Laboratories, Inc.

WATER ANALYSIS
(METALS)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 08/02/99
Date Received: 07/15/99
Laboratory No.: 99-08271-6

Sample Description: CA000280-0007-00001, ILM, FB071599A, 07/15/99 @ 04:40PM, TIM TEEPLE

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

Dissolved analysis reported on sample filtered and acidified in the field.

California D.O.H.S. Cert. #1186

Dan Schultz
Laboratory Director

...sponsibility for report alteration, detachment or third party interpretation

BC Laboratories, Inc.

EPA 8015M
Fuel Identification / Quantitation Summary

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/23/99
Date Received: 07/15/99
Laboratory No.: 99-08271-1

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-16A
Sample Matrix: Groundwater
Sample Collected By: TIM TEEPLE

Date Collected: 07/15/99 @ 09:20AM
Date Extracted: 07/16/99
Date Analyzed: 07/20/99
Dilution Used: 1

Constituents	Analysis Results	Reporting Units	Practical Quantitation Limit
Stoddard / White Spirits	None Detected	µg/L	200.
JP 4	None Detected	µg/L	1000.
JP 5	None Detected	µg/L	1000.
JP 6	None Detected	µg/L	1000.
JP 8	None Detected	µg/L	200.
Kerosene / Jet Fuel	None Detected	µg/L	200.
Diesel	None Detected	µg/L	200.
Crude Oil	None Detected	µg/L	1000.
Hydraulic Oil	None Detected	µg/L	1000.
Waste Oil	None Detected	µg/L	1000.
Motor Oil	None Detected	µg/L	1000.
Surrogate % Recovery	87.	%	33-138

METHOD: 8015M DOHS LUFT MANUAL
Boiling Range: 70 - 300 C

Mixtures of hydrocarbons are identified by a boiling point range and a fingerprint. Hydrocarbons that fall within a boiling range but do not exhibit the pattern are quantitated versus the fuel that corresponds with the boiling range, but are qualified with a note.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

BC Laboratories, Inc.

EPA 8015M
Fuel Identification / Quantitation Summary

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/23/99
Date Received: 07/15/99
Laboratory No.: 99-08271-2

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-24
Sample Matrix: Groundwater
Sample Collected By: TIM TEEPLE

Date Collected: 07/15/99 @ 12:38PM
Date Extracted: 07/16/99
Date Analyzed: 07/20/99
Dilution Used: 1

Constituents	Analysis Results	Reporting Units	Practical Quantitation Limit
Stoddard / White Spirits	None Detected	µg/L	200.
JP 4	None Detected	µg/L	1000.
JP 5	None Detected	µg/L	1000.
JP 6	None Detected	µg/L	1000.
JP 8	None Detected	µg/L	200.
Kerosene / Jet Fuel	None Detected	µg/L	200.
Diesel	None Detected	µg/L	200.
Crude Oil	1600.	µg/L	1000.
Hydraulic Oil	None Detected	µg/L	1000.
Waste Oil	None Detected	µg/L	1000.
Motor Oil	None Detected	µg/L	1000.
Surrogate % Recovery	91.	%	33-138

METHOD: 8015M DOHS LUFT MANUAL
Boiling Range: 70 - 300 C

Mixtures of hydrocarbons are identified by a boiling point range and a fingerprint. Hydrocarbons that fall within a boiling range but do not exhibit the pattern are quantitated versus the fuel that corresponds with the boiling range, but are qualified with a note.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

BC Laboratories, Inc.

EPA 8015M
Fuel Identification / Quantitation Summary

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/23/99
Date Received: 07/15/99
Laboratory No.: 99-08271-3

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-7
Sample Matrix: Groundwater
Sample Collected By: TIM TEEPLE

Date Collected: 07/15/99 @ 02:30PM
Date Extracted: 07/16/99
Date Analyzed: 07/20/99
Dilution Used: 1

Constituents	Analysis Results	Reporting Units	Practical Quantitation Limit
Stoddard / White Spirits	None Detected	µg/L	200.
JP 4	None Detected	µg/L	1000.
JP 5	None Detected	µg/L	1000.
JP 6	None Detected	µg/L	1000.
JP 8	None Detected	µg/L	200.
Kerosene / Jet Fuel	None Detected	µg/L	200.
Diesel	None Detected	µg/L	200.
Crude Oil	None Detected	µg/L	1000.
Hydraulic Oil	None Detected	µg/L	1000.
Waste Oil	None Detected	µg/L	1000.
Motor Oil	None Detected	µg/L	1000.
Surrogate % Recovery	90.	%	33-138

METHOD: 8015M DOHS LUFT MANUAL
Boiling Range: 70 - 300 C

Mixtures of hydrocarbons are identified by a boiling point range and a fingerprint. Hydrocarbons that fall within a boiling range but do not exhibit the pattern are quantitated versus the fuel that corresponds with the boiling range, but are qualified with a note.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

BC Laboratories, Inc.

EPA 8015M
Fuel Identification / Quantitation Summary

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/23/99
Date Received: 07/15/99
Laboratory No.: 99-08271-4

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-22
Sample Matrix: Groundwater
Sample Collected By: TIM TEEPLE

Date Collected: 07/15/99 @ 03:45PM
Date Extracted: 07/16/99
Date Analyzed: 07/20/99
Dilution Used: 1

Constituents	Analysis Results	Reporting Units	Practical Quantitation Limit
Stoddard / White Spirits	None Detected	µg/L	200.
JP 4	None Detected	µg/L	1000.
JP 5	None Detected	µg/L	1000.
JP 6	None Detected	µg/L	1000.
JP 8	None Detected	µg/L	200.
Kerosene / Jet Fuel	None Detected	µg/L	200.
Diesel	None Detected	µg/L	200.
Crude Oil	None Detected	µg/L	1000.
Hydraulic Oil	None Detected	µg/L	1000.
Waste Oil	None Detected	µg/L	1000.
Motor Oil	None Detected	µg/L	1000.
Surrogate % Recovery	103.	%	33-138

METHOD: 8015M DOHS LUFT MANUAL
Boiling Range: 70 - 300 C

Mixtures of hydrocarbons are identified by a boiling point range and a fingerprint. Hydrocarbons that fall within a boiling range but do not exhibit the pattern are quantitated versus the fuel that corresponds with the boiling range, but are qualified with a note.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

BC Laboratories, Inc.

EPA 8015M
Fuel Identification / Quantitation Summary

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/23/99
Date Received: 07/15/99
Laboratory No.: 99-08271-5

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-17
Sample Matrix: Groundwater
Sample Collected By: TIM TEEPLE

Date Collected: 07/15/99 @ 05:15PM
Date Extracted: 07/16/99
Date Analyzed: 07/20/99
Dilution Used: 1

Constituents	Analysis Results	Reporting Units	Practical Quantitation Limit
Stoddard / White Spirits	None Detected	µg/L	200.
JP 4	None Detected	µg/L	1000.
JP 5	None Detected	µg/L	1000.
JP 6	None Detected	µg/L	1000.
JP 8	None Detected	µg/L	200.
Kerosene / Jet Fuel	None Detected	µg/L	200.
Diesel	None Detected	µg/L	200.
Crude Oil	None Detected	µg/L	1000.
Hydraulic Oil	None Detected	µg/L	1000.
Waste Oil	None Detected	µg/L	1000.
Motor Oil	None Detected	µg/L	1000.
Surrogate % Recovery	94.	%	33-138

METHOD: 8015M DOHS LUFT MANUAL
Boiling Range: 70 - 300 C

Mixtures of hydrocarbons are identified by a boiling point range and a fingerprint. Hydrocarbons that fall within a boiling range but do not exhibit the pattern are quantitated versus the fuel that corresponds with the boiling range, but are qualified with a note.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

BC Laboratories, Inc.

EPA 8015M
Fuel Identification / Quantitation Summary

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/23/99
Date Received: 07/15/99
Laboratory No.: 99-08271-6

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: FB071599A
Sample Matrix: Blank Water
Sample Collected By: TIM TEEPLE

Date Collected: 07/15/99 @ 04:40PM
Date Extracted: 07/16/99
Date Analyzed: 07/20/99
Dilution Used: 1

Constituents	Analysis Results	Reporting Units	Practical Quantitation Limit
Stoddard / White Spirits	None Detected	µg/L	200.
JP 4	None Detected	µg/L	1000.
JP 5	None Detected	µg/L	1000.
JP 6	None Detected	µg/L	1000.
JP 8	None Detected	µg/L	200.
Kerosene / Jet Fuel	None Detected	µg/L	200.
Diesel	None Detected	µg/L	200.
Crude Oil	None Detected	µg/L	1000.
Hydraulic Oil	None Detected	µg/L	1000.
Waste Oil	None Detected	µg/L	1000.
Motor Oil	None Detected	µg/L	1000.
Surrogate % Recovery	91.	%	33-138

METHOD: 8015M DOHS LUFT MANUAL
Boiling Range: 70 - 300 C

Mixtures of hydrocarbons are identified by a boiling point range and a fingerprint. Hydrocarbons that fall within a boiling range but do not exhibit the pattern are quantitated versus the fuel that corresponds with the boiling range, but are qualified with a note.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/29/99
Date Received: 07/15/99
Laboratory No.: 99-08271-1

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-16A
Sample Matrix: Groundwater
Sample Collected By: TIM TEEPLE

Date Collected: 07/15/99 @ 09:20AM
Date Extracted: 07/21/99
Date Analyzed: 07/21/99
Dilution Used: 10

Constituents	Analysis Results	Reporting Units	Method P.Q.L.	Method Detection Level	
Benzene	None Detected	µg/L	5.	0.08	
Bromobenzene	None Detected	µg/L	5.	0.07	
Bromochloromethane	None Detected	µg/L	5.	0.08	
Bromodichloromethane	None Detected	µg/L	5.	0.08	
Bromoform	None Detected	µg/L	5.	0.15	*03
Bromomethane	None Detected	µg/L	5.	0.20	
n-Butylbenzene	None Detected	µg/L	5.	0.08	
sec-Butylbenzene	None Detected	µg/L	5.	0.07	
tert-Butylbenzene	None Detected	µg/L	5.	0.07	
Carbon tetrachloride	None Detected	µg/L	5.	0.11	
Chlorobenzene	None Detected	µg/L	5.	0.25	
Chloroethane	None Detected	µg/L	5.	0.08	
2-Chloroethylvinyl ether	None Detected	µg/L	200.	10.	
Chloroform	None Detected	µg/L	5.	0.06	
Chloromethane	None Detected	µg/L	5.	0.15	
2-Chlorotoluene	None Detected	µg/L	5.	0.07	
4-Chlorotoluene	None Detected	µg/L	5.	0.11	
Dibromochloromethane	None Detected	µg/L	5.	0.11	
1,2-Dibromo-3-Chloropropane	None Detected	µg/L	5.	0.37	*03
1,2-Dibromoethane	None Detected	µg/L	5.	0.06	
Dibromomethane	None Detected	µg/L	5.	0.10	
1,2-Dichlorobenzene	None Detected	µg/L	5.	0.12	
1,3-Dichlorobenzene	None Detected	µg/L	5.	0.10	
1,4-Dichlorobenzene	None Detected	µg/L	5.	0.11	
Dichlorodifluoromethane	None Detected	µg/L	5.	0.09	
1,1-Dichloroethane	None Detected	µg/L	5.	0.08	
1,2-Dichloroethane	None Detected	µg/L	5.	0.12	
1,1-Dichloroethene	12.	µg/L	5.	0.11	
cis-1,2-Dichloroethene	6.2	µg/L	5.	0.09	
trans-1,2-Dichloroethene	None Detected	µg/L	5.	0.09	
1,2-Dichloropropane	None Detected	µg/L	5.	0.09	
1,3-Dichloropropane	None Detected	µg/L	5.	0.10	
2,2-Dichloropropane	None Detected	µg/L	5.	0.14	*03
1,1-Dichloropropene	None Detected	µg/L	5.	0.09	
cis-1,3-Dichloropropene	None Detected	µg/L	5.	0.17	
trans-1,3-Dichloropropene	None Detected	µg/L	5.	0.17	
Ethyl Benzene	None Detected	µg/L	5.	0.07	
Hexachlorobutadiene	None Detected	µg/L	5.	0.13	
Isopropylbenzene	None Detected	µg/L	5.	0.06	
p-Isopropyltoluene	None Detected	µg/L	5.	0.06	
Methylene Chloride	None Detected	µg/L	5.	0.08	
Naphthalene	None Detected	µg/L	5.	0.11	

BC Laboratories, Inc. assumes no responsibility for report alteration, detahcment or third party interpretatiion.

BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/29/99
Date Received: 07/15/99
Laboratory No.: 99-08271-1

Sample Description: CA000280-0007-00001, ILM, P-16A, 07/15/99 @ 09:20AM, TIM TEEPLE

Constituents	Analysis Results	Reporting Units	Method P.Q.L.	Method Detection Level
n-Propylbenzene	None Detected	µg/L	5.	0.07
Styrene	None Detected	µg/L	5.	0.07
1,1,1,2-Tetrachloroethane	None Detected	µg/L	5.	0.08
1,1,2,2-Tetrachloroethane	None Detected	µg/L	5.	0.06
Tetrachloroethene	7.5	µg/L	5.	0.16
Toluene	None Detected	µg/L	5.	0.07
1,2,3-Trichlorobenzene	None Detected	µg/L	5.	0.12
1,2,4-Trichlorobenzene	None Detected	µg/L	5.	0.11
1,1,1-Trichloroethane	None Detected	µg/L	5.	0.10
1,1,2-Trichloroethane	None Detected	µg/L	5.	0.12
Trichloroethene	530.	µg/L	5.	0.09
Trichlorofluoromethane	None Detected	µg/L	5.	0.07
1,2,3-Trichloropropane	None Detected	µg/L	5.	0.16
1,2,4-Trimethylbenzene	None Detected	µg/L	5.	0.06
1,3,5-Trimethylbenzene	None Detected	µg/L	5.	0.07
Vinyl Chloride	None Detected	µg/L	5.	0.09
Total Xylenes	None Detected	µg/L	10.	0.13

Quality Control Data

Surrogates	% Recovery	Control Limits
1,2-Dichloroethane-d4	83.	76-114
Toluene-d8	98.	88-110
4-Bromofluorobenzene	98.	86-115

Note: PQL's were raised due to high concentration of target analytes requiring sample dilution.

Flag Explanations:
*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.

Volatile Organic Analysis
(EPA Method 8260)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/29/99
Date Received: 07/15/99
Laboratory No.: 99-08271-2

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-24
Sample Matrix: Groundwater
Sample Collected By: TIM TEEPLE

Date Collected: 07/15/99 @ 12:38PM
Date Extracted: 07/21/99
Date Analyzed: 07/21/99
Dilution Used: 5

Constituents	Analysis Results	Reporting Units	Method P.Q.L.	Method Detection Level	
Benzene	None Detected	µg/L	3.	0.08	
Bromobenzene	None Detected	µg/L	3.	0.07	
Bromochloromethane	None Detected	µg/L	3.	0.08	
Bromodichloromethane	None Detected	µg/L	3.	0.08	
Bromoform	None Detected	µg/L	3.	0.15	*03
Bromomethane	None Detected	µg/L	3.	0.20	
n-Butylbenzene	None Detected	µg/L	3.	0.08	
sec-Butylbenzene	None Detected	µg/L	3.	0.07	
tert-Butylbenzene	None Detected	µg/L	3.	0.07	
Carbon tetrachloride	None Detected	µg/L	3.	0.11	
Chlorobenzene	None Detected	µg/L	3.	0.25	
Chloroethane	None Detected	µg/L	3.	0.08	
2-Chloroethylvinyl ether	None Detected	µg/L	100.	10.	
Chloroform	4.8	µg/L	3.	0.06	
Chloromethane	None Detected	µg/L	3.	0.15	
2-Chlorotoluene	None Detected	µg/L	3.	0.07	
4-Chlorotoluene	None Detected	µg/L	3.	0.11	
Dibromochloromethane	None Detected	µg/L	3.	0.11	
1,2-Dibromo-3-Chloropropane	None Detected	µg/L	3.	0.37	*03
1,2-Dibromoethane	None Detected	µg/L	3.	0.06	
Dibromomethane	None Detected	µg/L	3.	0.10	
1,2-Dichlorobenzene	None Detected	µg/L	3.	0.12	
1,3-Dichlorobenzene	None Detected	µg/L	3.	0.10	
1,4-Dichlorobenzene	None Detected	µg/L	3.	0.11	
Dichlorodifluoromethane	None Detected	µg/L	3.	0.09	
1,1-Dichloroethane	None Detected	µg/L	3.	0.08	
1,2-Dichloroethane	None Detected	µg/L	3.	0.12	
1,1-Dichloroethene	None Detected	µg/L	3.	0.11	
cis-1,2-Dichloroethene	None Detected	µg/L	3.	0.09	
trans-1,2-Dichloroethene	None Detected	µg/L	3.	0.09	
1,2-Dichloropropane	None Detected	µg/L	3.	0.09	
1,3-Dichloropropane	None Detected	µg/L	3.	0.10	
2,2-Dichloropropane	None Detected	µg/L	3.	0.14	*03
1,1-Dichloropropene	None Detected	µg/L	3.	0.09	
cis-1,3-Dichloropropene	None Detected	µg/L	3.	0.17	
trans-1,3-Dichloropropene	None Detected	µg/L	3.	0.17	
Ethyl Benzene	None Detected	µg/L	3.	0.07	
Hexachlorobutadiene	None Detected	µg/L	3.	0.13	
Isopropylbenzene	None Detected	µg/L	3.	0.06	
p-Isopropyltoluene	None Detected	µg/L	3.	0.06	
Methylene Chloride	None Detected	µg/L	3.	0.08	
Naphthalene	None Detected	µg/L	3.	0.11	

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BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/29/99
Date Received: 07/15/99
Laboratory No.: 99-08271-2

Sample Description: CA000280-0007-00001, ILM, P-24, 07/15/99 @ 12:38PM, TIM TEEPLE

Constituents	Analysis Results	Reporting Units	Method P.Q.L.	Method Detection Level
n-Propylbenzene	None Detected	µg/L	3.	0.07
Styrene	None Detected	µg/L	3.	0.07
1,1,1,2-Tetrachloroethane	None Detected	µg/L	3.	0.08
1,1,2,2-Tetrachloroethane	None Detected	µg/L	3.	0.06
Tetrachloroethene	None Detected	µg/L	3.	0.16
Toluene	None Detected	µg/L	3.	0.07
1,2,3-Trichlorobenzene	None Detected	µg/L	3.	0.12
1,2,4-Trichlorobenzene	None Detected	µg/L	3.	0.11
1,1,1-Trichloroethane	None Detected	µg/L	3.	0.10
1,1,2-Trichloroethane	None Detected	µg/L	3.	0.12
Trichloroethene	210.	µg/L	3.	0.09
Trichlorofluoromethane	None Detected	µg/L	3.	0.07
1,2,3-Trichloropropane	None Detected	µg/L	3.	0.16
1,2,4-Trimethylbenzene	None Detected	µg/L	3.	0.06
1,3,5-Trimethylbenzene	None Detected	µg/L	3.	0.07
Vinyl Chloride	None Detected	µg/L	3.	0.09
Total Xylenes	None Detected	µg/L	5.	0.13

Quality Control Data

Surrogates	% Recovery	Control Limits
1,2-Dichloroethane-d4	80.	76-114
Toluene-d8	99.	88-110
4-Bromofluorobenzene	95.	86-115

Note: PQL's were raised due to high concentration of target analytes requiring sample dilution.

Flag Explanations:
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

... assumes no responsibility for report alteration, detahcment or third party interpretation.

BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/29/99
Date Received: 07/15/99
Laboratory No.: 99-08271-3

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-7
Sample Matrix: Groundwater
Sample Collected By: TIM TEEPLE

Date Collected: 07/15/99 @ 02:30PM
Date Extracted: 07/21/99
Date Analyzed: 07/21/99
Dilution Used: 10

Constituents	Analysis Results	Reporting Units	Method P.Q.L.	Method Detection Level	
Benzene	None Detected	µg/L	5.	0.08	
Bromobenzene	None Detected	µg/L	5.	0.07	
Bromochloromethane	None Detected	µg/L	5.	0.08	
Bromodichloromethane	None Detected	µg/L	5.	0.08	
Bromoform	None Detected	µg/L	5.	0.15	*03
Bromomethane	None Detected	µg/L	5.	0.20	
n-Butylbenzene	None Detected	µg/L	5.	0.08	
sec-Butylbenzene	None Detected	µg/L	5.	0.07	
tert-Butylbenzene	None Detected	µg/L	5.	0.07	
Carbon tetrachloride	None Detected	µg/L	5.	0.11	
Chlorobenzene	None Detected	µg/L	5.	0.25	
Chloroethane	None Detected	µg/L	5.	0.08	
2-Chloroethylvinyl ether	None Detected	µg/L	200.	10.	
Chloroform	10.	µg/L	5.	0.06	
Chloromethane	None Detected	µg/L	5.	0.15	
2-Chlorotoluene	None Detected	µg/L	5.	0.07	
4-Chlorotoluene	None Detected	µg/L	5.	0.11	
Dibromochloromethane	None Detected	µg/L	5.	0.11	
1,2-Dibromo-3-Chloropropane	None Detected	µg/L	5.	0.37	*03
1,2-Dibromoethane	None Detected	µg/L	5.	0.06	
Dibromomethane	None Detected	µg/L	5.	0.10	
1,2-Dichlorobenzene	None Detected	µg/L	5.	0.12	
1,3-Dichlorobenzene	None Detected	µg/L	5.	0.10	
1,4-Dichlorobenzene	None Detected	µg/L	5.	0.11	
Dichlorodifluoromethane	None Detected	µg/L	5.	0.09	
1,1-Dichloroethane	None Detected	µg/L	5.	0.08	
1,2-Dichloroethane	None Detected	µg/L	5.	0.12	
1,1-Dichloroethene	6.8	µg/L	5.	0.11	
cis-1,2-Dichloroethene	85.	µg/L	5.	0.09	
trans-1,2-Dichloroethene	None Detected	µg/L	5.	0.09	
1,2-Dichloropropane	None Detected	µg/L	5.	0.09	
1,3-Dichloropropane	None Detected	µg/L	5.	0.10	
2,2-Dichloropropane	None Detected	µg/L	5.	0.14	*03
1,1-Dichloropropene	None Detected	µg/L	5.	0.09	
cis-1,3-Dichloropropene	None Detected	µg/L	5.	0.17	
trans-1,3-Dichloropropene	None Detected	µg/L	5.	0.17	
Ethyl Benzene	None Detected	µg/L	5.	0.07	
Hexachlorobutadiene	None Detected	µg/L	5.	0.13	
Isopropylbenzene	None Detected	µg/L	5.	0.06	
p-Isopropyltoluene	None Detected	µg/L	5.	0.06	
Methylene Chloride	None Detected	µg/L	5.	0.08	
Naphthalene	None Detected	µg/L	5.	0.11	

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BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/29/99
Date Received: 07/15/99
Laboratory No.: 99-08271-3

Sample Description: CA000280-0007-00001, ILM, P-7, 07/15/99 @ 02:30PM, TIM TEEPLE

Constituents	Analysis Results	Reporting Units	Method P.Q.L.	Method Detection Level
n-Propylbenzene	None Detected	µg/L	5.	0.07
Styrene	None Detected	µg/L	5.	0.07
1,1,1,2-Tetrachloroethane	None Detected	µg/L	5.	0.08
1,1,2,2-Tetrachloroethane	None Detected	µg/L	5.	0.06
Tetrachloroethene	9.7	µg/L	5.	0.16
Toluene	None Detected	µg/L	5.	0.07
1,2,3-Trichlorobenzene	None Detected	µg/L	5.	0.12
1,2,4-Trichlorobenzene	None Detected	µg/L	5.	0.11
1,1,1-Trichloroethane	6.4	µg/L	5.	0.10
1,1,2-Trichloroethane	None Detected	µg/L	5.	0.12
Trichloroethene	1100.	µg/L	20.	0.09
Trichlorofluoromethane	None Detected	µg/L	5.	0.07
1,2,3-Trichloropropane	None Detected	µg/L	5.	0.16
1,2,4-Trimethylbenzene	None Detected	µg/L	5.	0.06
1,3,5-Trimethylbenzene	None Detected	µg/L	5.	0.07
Vinyl Chloride	None Detected	µg/L	5.	0.09
Total Xylenes	None Detected	µg/L	10.	0.13

Quality Control Data

Surrogates	% Recovery	Control Limits
1,2-Dichloroethane-d4	81.	76-114
Toluene-d8	99.	88-110
4-Bromofluorobenzene	94.	86-115

Note: PQL's were raised due to high concentration of target analytes requiring sample dilution.

Flag Explanations:
*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.

Volatile Organic Analysis
(EPA Method 8260)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/29/99
Date Received: 07/15/99
Laboratory No.: 99-08271-4

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-22
Sample Matrix: Groundwater
Sample Collected By: TIM TEEPLE

Date Collected: 07/15/99 @ 03:45PM
Date Extracted: 07/21/99
Date Analyzed: 07/21/99
Dilution Used: 25

Constituents	Analysis Results	Reporting Units	Method P.Q.L.	Method Detection Level	
Benzene	None Detected	µg/L	10.	0.08	
Bromobenzene	None Detected	µg/L	10.	0.07	
Bromochloromethane	None Detected	µg/L	10.	0.08	
Bromodichloromethane	None Detected	µg/L	10.	0.08	
Bromoform	None Detected	µg/L	10.	0.15	*03
Bromomethane	None Detected	µg/L	10.	0.20	
n-Butylbenzene	None Detected	µg/L	10.	0.08	
sec-Butylbenzene	None Detected	µg/L	10.	0.07	
tert-Butylbenzene	None Detected	µg/L	10.	0.07	
Carbon tetrachloride	None Detected	µg/L	10.	0.11	
Chlorobenzene	None Detected	µg/L	10.	0.25	
Chloroethane	None Detected	µg/L	10.	0.08	
2-Chloroethylvinyl ether	None Detected	µg/L	500.	10.	
Chloroform	None Detected	µg/L	10.	0.06	
Chloromethane	None Detected	µg/L	10.	0.15	
2-Chlorotoluene	None Detected	µg/L	10.	0.07	
4-Chlorotoluene	None Detected	µg/L	10.	0.11	
Dibromochloromethane	None Detected	µg/L	10.	0.11	
1,2-Dibromo-3-Chloropropane	None Detected	µg/L	10.	0.37	*03
1,2-Dibromoethane	None Detected	µg/L	10.	0.06	
Dibromomethane	None Detected	µg/L	10.	0.10	
1,2-Dichlorobenzene	None Detected	µg/L	10.	0.12	
1,3-Dichlorobenzene	None Detected	µg/L	10.	0.10	
1,4-Dichlorobenzene	None Detected	µg/L	10.	0.11	
Dichlorodifluoromethane	None Detected	µg/L	10.	0.09	
1,1-Dichloroethane	None Detected	µg/L	10.	0.08	
1,2-Dichloroethane	None Detected	µg/L	10.	0.12	
1,1-Dichloroethene	14.	µg/L	10.	0.11	
cis-1,2-Dichloroethene	12.	µg/L	10.	0.09	
trans-1,2-Dichloroethene	None Detected	µg/L	10.	0.09	
1,2-Dichloropropane	None Detected	µg/L	10.	0.09	
1,3-Dichloropropane	None Detected	µg/L	10.	0.10	
2,2-Dichloropropane	None Detected	µg/L	10.	0.14	*03
1,1-Dichloropropene	None Detected	µg/L	10.	0.09	
cis-1,3-Dichloropropene	None Detected	µg/L	10.	0.17	
trans-1,3-Dichloropropene	None Detected	µg/L	10.	0.17	
Ethyl Benzene	None Detected	µg/L	10.	0.07	
Hexachlorobutadiene	None Detected	µg/L	10.	0.13	
Isopropylbenzene	None Detected	µg/L	10.	0.06	
p-Isopropyltoluene	None Detected	µg/L	10.	0.06	
Methylene Chloride	None Detected	µg/L	10.	0.08	
Naphthalene	None Detected	µg/L	10.	0.11	

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BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/29/99
Date Received: 07/15/99
Laboratory No.: 99-08271-4

Sample Description: CA000280-0007-00001, ILM, P-22, 07/15/99 @ 03:45PM, TIM TEEPLE

Constituents	Analysis Results	Reporting Units	Method P.Q.L.	Method Detection Level
n-Propylbenzene	None Detected	µg/L	10.	0.07
Styrene	None Detected	µg/L	10.	0.07
1,1,1,2-Tetrachloroethane	None Detected	µg/L	10.	0.08
1,1,2,2-Tetrachloroethane	None Detected	µg/L	10.	0.06
Tetrachloroethene	19.	µg/L	10.	0.16
Toluene	None Detected	µg/L	10.	0.07
1,2,3-Trichlorobenzene	None Detected	µg/L	10.	0.12
1,2,4-Trichlorobenzene	None Detected	µg/L	10.	0.11
1,1,1-Trichloroethane	None Detected	µg/L	10.	0.10
1,1,2-Trichloroethane	None Detected	µg/L	10.	0.12
Trichloroethene	1300.	µg/L	10.	0.09
Trichlorofluoromethane	None Detected	µg/L	10.	0.07
1,2,3-Trichloropropane	None Detected	µg/L	10.	0.16
1,2,4-Trimethylbenzene	None Detected	µg/L	10.	0.06
1,3,5-Trimethylbenzene	None Detected	µg/L	10.	0.07
Vinyl Chloride	None Detected	µg/L	10.	0.09
Total Xylenes	None Detected	µg/L	30.	0.13

Quality Control Data

Surrogates	% Recovery	Control Limits
1,2-Dichloroethane-d4	82.	76-114
Toluene-d8	99.	88-110
4-Bromofluorobenzene	95.	86-115

Note: PQL's were raised due to high concentration of target analytes requiring sample dilution.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/29/99
Date Received: 07/15/99
Laboratory No.: 99-08271-5

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: P-17
Sample Matrix: Groundwater
Sample Collected By: TIM TEEPLE

Date Collected: 07/15/99 @ 05:15PM
Date Extracted: 07/21/99
Date Analyzed: 07/21/99
Dilution Used: 25

Constituents	Analysis Results	Reporting Units	Method P.Q.L.	Method Detection Level	
Benzene	None Detected	µg/L	10.	0.08	
Bromobenzene	None Detected	µg/L	10.	0.07	
Bromochloromethane	None Detected	µg/L	10.	0.08	
Bromodichloromethane	None Detected	µg/L	10.	0.08	
Bromoform	None Detected	µg/L	10.	0.15	*03
Bromomethane	None Detected	µg/L	10.	0.20	
n-Butylbenzene	None Detected	µg/L	10.	0.08	
sec-Butylbenzene	None Detected	µg/L	10.	0.07	
tert-Butylbenzene	None Detected	µg/L	10.	0.07	
Carbon tetrachloride	None Detected	µg/L	10.	0.11	
Chlorobenzene	None Detected	µg/L	10.	0.25	
Chloroethane	None Detected	µg/L	10.	0.08	
2-Chloroethylvinyl ether	None Detected	µg/L	500.	10.	
Chloroform	None Detected	µg/L	10.	0.06	
Chloromethane	None Detected	µg/L	10.	0.15	
2-Chlorotoluene	None Detected	µg/L	10.	0.07	
4-Chlorotoluene	None Detected	µg/L	10.	0.11	
Dibromochloromethane	None Detected	µg/L	10.	0.11	
1,2-Dibromo-3-Chloropropane	None Detected	µg/L	10.	0.37	*03
1,2-Dibromoethane	None Detected	µg/L	10.	0.06	
Dibromomethane	None Detected	µg/L	10.	0.10	
1,2-Dichlorobenzene	None Detected	µg/L	10.	0.12	
1,3-Dichlorobenzene	None Detected	µg/L	10.	0.10	
1,4-Dichlorobenzene	None Detected	µg/L	10.	0.11	
Dichlorodifluoromethane	None Detected	µg/L	10.	0.09	
1,1-Dichloroethane	14.	µg/L	10.	0.08	
1,2-Dichloroethane	None Detected	µg/L	10.	0.12	
1,1-Dichloroethene	150.	µg/L	10.	0.11	
cis-1,2-Dichloroethene	None Detected	µg/L	10.	0.09	
trans-1,2-Dichloroethene	None Detected	µg/L	10.	0.09	
1,2-Dichloropropane	None Detected	µg/L	10.	0.09	
1,3-Dichloropropane	None Detected	µg/L	10.	0.10	
2,2-Dichloropropane	None Detected	µg/L	10.	0.14	*03
1,1-Dichloropropene	None Detected	µg/L	10.	0.09	
cis-1,3-Dichloropropene	None Detected	µg/L	10.	0.17	
trans-1,3-Dichloropropene	None Detected	µg/L	10.	0.17	
Ethyl Benzene	None Detected	µg/L	10.	0.07	
Hexachlorobutadiene	None Detected	µg/L	10.	0.13	
Isopropylbenzene	None Detected	µg/L	10.	0.06	
p-Isopropyltoluene	None Detected	µg/L	10.	0.06	
Methylene Chloride	None Detected	µg/L	10.	0.08	
Naphthalene	None Detected	µg/L	10.	0.11	

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BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/29/99
Date Received: 07/15/99
Laboratory No.: 99-08271-5

Sample Description: CA000280-0007-00001, ILM, P-17, 07/15/99 @ 05:15PM, TIM TEEPLE

Constituents	Analysis Results	Reporting Units	Method P.Q.L.	Method Detection Level
n-Propylbenzene	None Detected	µg/L	10.	0.07
Styrene	None Detected	µg/L	10.	0.07
1,1,1,2-Tetrachloroethane	None Detected	µg/L	10.	0.08
1,1,2,2-Tetrachloroethane	None Detected	µg/L	10.	0.06
Tetrachloroethene	230.	µg/L	10.	0.16
Toluene	None Detected	µg/L	10.	0.07
1,2,3-Trichlorobenzene	None Detected	µg/L	10.	0.12
1,2,4-Trichlorobenzene	None Detected	µg/L	10.	0.11
1,1,1-Trichloroethane	14.	µg/L	10.	0.10
1,1,2-Trichloroethane	None Detected	µg/L	10.	0.12
Trichloroethene	1600.	µg/L	10.	0.09
Trichlorofluoromethane	None Detected	µg/L	10.	0.07
1,2,3-Trichloropropane	None Detected	µg/L	10.	0.16
1,2,4-Trimethylbenzene	None Detected	µg/L	10.	0.06
1,3,5-Trimethylbenzene	None Detected	µg/L	10.	0.07
Vinyl Chloride	None Detected	µg/L	10.	0.09
Total Xylenes	None Detected	µg/L	30.	0.13

Quality Control Data

Surrogates	% Recovery	Control Limits
1,2-Dichloroethane-d4	81.	76-114
Toluene-d8	99.	88-110
4-Bromofluorobenzene	96.	86-115

Note: PQL's were raised due to high concentration of target analytes requiring sample dilution.

Flag Explanations:
*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.

Volatile Organic Analysis
(EPA Method 8260)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/29/99
Date Received: 07/15/99
Laboratory No.: 99-08271-6

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: FB071599A
Sample Matrix: Blank Water
Sample Collected By: TIM TEEPLE

Date Collected: 07/15/99 @ 04:40PM
Date Extracted: 07/22/99
Date Analyzed: 07/22/99
Dilution Used: 1

Constituents	Analysis Results	Reporting Units	Method P.Q.L.	Method Detection Level	
Benzene	None Detected	µg/L	0.5	0.08	
Bromobenzene	None Detected	µg/L	0.5	0.07	
Bromochloromethane	None Detected	µg/L	0.5	0.08	
Bromodichloromethane	None Detected	µg/L	0.5	0.08	
Bromoform	None Detected	µg/L	0.5	0.15	*03
Bromomethane	None Detected	µg/L	0.5	0.20	
n-Butylbenzene	None Detected	µg/L	0.5	0.08	
sec-Butylbenzene	None Detected	µg/L	0.5	0.07	
tert-Butylbenzene	None Detected	µg/L	0.5	0.07	
Carbon tetrachloride	None Detected	µg/L	0.5	0.11	
Chlorobenzene	None Detected	µg/L	0.5	0.25	
Chloroethane	None Detected	µg/L	0.5	0.08	
2-Chloroethylvinyl ether	None Detected	µg/L	20.	10.	
Chloroform	None Detected	µg/L	0.5	0.06	
Chloromethane	None Detected	µg/L	0.5	0.15	
2-Chlorotoluene	None Detected	µg/L	0.5	0.07	
4-Chlorotoluene	None Detected	µg/L	0.5	0.11	
Dibromochloromethane	None Detected	µg/L	0.5	0.11	
1,2-Dibromo-3-Chloropropane	None Detected	µg/L	0.5	0.37	*03
1,2-Dibromoethane	None Detected	µg/L	0.5	0.06	
Dibromomethane	None Detected	µg/L	0.5	0.10	
1,2-Dichlorobenzene	None Detected	µg/L	0.5	0.12	
1,3-Dichlorobenzene	None Detected	µg/L	0.5	0.10	
1,4-Dichlorobenzene	None Detected	µg/L	0.5	0.11	
Dichlorodifluoromethane	None Detected	µg/L	0.5	0.09	
1,1-Dichloroethane	None Detected	µg/L	0.5	0.08	
1,2-Dichloroethane	None Detected	µg/L	0.5	0.12	
1,1-Dichloroethene	None Detected	µg/L	0.5	0.11	
cis-1,2-Dichloroethene	None Detected	µg/L	0.5	0.09	
trans-1,2-Dichloroethene	None Detected	µg/L	0.5	0.09	
1,2-Dichloropropane	None Detected	µg/L	0.5	0.09	
1,3-Dichloropropane	None Detected	µg/L	0.5	0.10	
2,2-Dichloropropane	None Detected	µg/L	0.5	0.14	*03
1,1-Dichloropropene	None Detected	µg/L	0.5	0.09	
cis-1,3-Dichloropropene	None Detected	µg/L	0.5	0.17	
trans-1,3-Dichloropropene	None Detected	µg/L	0.5	0.17	
Ethyl Benzene	None Detected	µg/L	0.5	0.07	
Hexachlorobutadiene	None Detected	µg/L	0.5	0.13	
Isopropylbenzene	None Detected	µg/L	0.5	0.06	
p-Isopropyltoluene	None Detected	µg/L	0.5	0.06	
Methylene Chloride	None Detected	µg/L	0.5	0.08	
Naphthalene	None Detected	µg/L	0.5	0.11	

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BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/29/99
Date Received: 07/15/99
Laboratory No.: 99-08271-6

Sample Description: CA000280-0007-00001, ILM, FB071599A, 07/15/99 @ 04:40PM, TIM TEEPLE

Constituents	Analysis Results	Reporting Units	Method P.Q.L.	Method Detection Level
n-Propylbenzene	None Detected	µg/L	0.5	0.07
Styrene	None Detected	µg/L	0.5	0.07
1,1,1,2-Tetrachloroethane	None Detected	µg/L	0.5	0.08
1,1,2,2-Tetrachloroethane	None Detected	µg/L	0.5	0.06
Tetrachloroethene	None Detected	µg/L	0.5	0.16
Toluene	None Detected	µg/L	0.5	0.07
1,2,3-Trichlorobenzene	None Detected	µg/L	0.5	0.12
1,2,4-Trichlorobenzene	None Detected	µg/L	0.5	0.11
1,1,1-Trichloroethane	None Detected	µg/L	0.5	0.10
1,1,2-Trichloroethane	None Detected	µg/L	0.5	0.12
Trichloroethene	None Detected	µg/L	0.5	0.09
Trichlorofluoromethane	None Detected	µg/L	0.5	0.07
1,2,3-Trichloropropane	None Detected	µg/L	0.5	0.16
1,2,4-Trimethylbenzene	None Detected	µg/L	0.5	0.06
1,3,5-Trimethylbenzene	None Detected	µg/L	0.5	0.07
Vinyl Chloride	None Detected	µg/L	0.5	0.09
Total Xylenes	None Detected	µg/L	1.	0.13

Quality Control Data

Surrogates	% Recovery	Control Limits
1,2-Dichloroethane-d4	81.	76-114
Toluene-d8	93.	88-110
4-Bromofluorobenzene	97.	86-115

Flag Explanations:
*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.

Volatile Organic Analysis
(EPA Method 8260)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/29/99
Date Received: 07/15/99
Laboratory No.: 99-08271-7TB

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: TRIP BLANK
Sample Matrix: Blank Water
Sample Collected By: TIM TEEPLE

Date Collected: 07/15/99
Date Extracted: 07/21/99
Date Analyzed: 07/21/99
Dilution Used: 1

Constituents	Analysis Results	Reporting Units	Method P.Q.L.	Method Detection Level	
Benzene	None Detected	µg/L	0.5	0.08	
Bromobenzene	None Detected	µg/L	0.5	0.07	
Bromochloromethane	None Detected	µg/L	0.5	0.08	
Bromodichloromethane	None Detected	µg/L	0.5	0.08	
Bromoform	None Detected	µg/L	0.5	0.15	*03
Bromomethane	None Detected	µg/L	0.5	0.20	
n-Butylbenzene	None Detected	µg/L	0.5	0.08	
sec-Butylbenzene	None Detected	µg/L	0.5	0.07	
tert-Butylbenzene	None Detected	µg/L	0.5	0.07	
Carbon tetrachloride	None Detected	µg/L	0.5	0.11	
Chlorobenzene	None Detected	µg/L	0.5	0.25	
Chloroethane	None Detected	µg/L	0.5	0.08	
2-Chloroethylvinyl ether	None Detected	µg/L	20.	10.	
Chloroform	None Detected	µg/L	0.5	0.06	
Chloromethane	None Detected	µg/L	0.5	0.15	
2-Chlorotoluene	None Detected	µg/L	0.5	0.07	
4-Chlorotoluene	None Detected	µg/L	0.5	0.11	
Dibromochloromethane	None Detected	µg/L	0.5	0.11	
1,2-Dibromo-3-Chloropropane	None Detected	µg/L	0.5	0.37	*03
1,2-Dibromoethane	None Detected	µg/L	0.5	0.06	
Dibromomethane	None Detected	µg/L	0.5	0.10	
1,2-Dichlorobenzene	None Detected	µg/L	0.5	0.12	
1,3-Dichlorobenzene	None Detected	µg/L	0.5	0.10	
1,4-Dichlorobenzene	None Detected	µg/L	0.5	0.11	
Dichlorodifluoromethane	None Detected	µg/L	0.5	0.09	
1,1-Dichloroethane	None Detected	µg/L	0.5	0.08	
1,2-Dichloroethane	None Detected	µg/L	0.5	0.12	
1,1-Dichloroethene	None Detected	µg/L	0.5	0.11	
cis-1,2-Dichloroethene	None Detected	µg/L	0.5	0.09	
trans-1,2-Dichloroethene	None Detected	µg/L	0.5	0.09	
1,2-Dichloropropane	None Detected	µg/L	0.5	0.09	
1,3-Dichloropropane	None Detected	µg/L	0.5	0.10	
2,2-Dichloropropane	None Detected	µg/L	0.5	0.14	
1,1-Dichloropropene	None Detected	µg/L	0.5	0.09	
cis-1,3-Dichloropropene	None Detected	µg/L	0.5	0.17	
trans-1,3-Dichloropropene	None Detected	µg/L	0.5	0.17	
Ethyl Benzene	None Detected	µg/L	0.5	0.07	
Hexachlorobutadiene	None Detected	µg/L	0.5	0.13	
Isopropylbenzene	None Detected	µg/L	0.5	0.06	
p-Isopropyltoluene	None Detected	µg/L	0.5	0.06	
Methylene Chloride	2.2	µg/L	0.5	0.08	
Naphthalene	None Detected	µg/L	0.5	0.11	

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BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/29/99
Date Received: 07/15/99
Laboratory No.: 99-08271-7TB

Sample Description: CA000280-0007-00001, ILM, TRIP BLANK, 07/15/99, TIM TEEPLE

Constituents	Analysis Results	Reporting Units	Method P.Q.L.	Method Detection Level
n-Propylbenzene	None Detected	µg/L	0.5	0.07
Styrene	None Detected	µg/L	0.5	0.07
1,1,1,2-Tetrachloroethane	None Detected	µg/L	0.5	0.08
1,1,2,2-Tetrachloroethane	None Detected	µg/L	0.5	0.06
Tetrachloroethene	None Detected	µg/L	0.5	0.16
Toluene	None Detected	µg/L	0.5	0.07
1,2,3-Trichlorobenzene	None Detected	µg/L	0.5	0.12
1,2,4-Trichlorobenzene	None Detected	µg/L	0.5	0.11
1,1,1-Trichloroethane	None Detected	µg/L	0.5	0.10
1,1,2-Trichloroethane	None Detected	µg/L	0.5	0.12
Trichloroethene	None Detected	µg/L	0.5	0.09
Trichlorofluoromethane	None Detected	µg/L	0.5	0.07
1,2,3-Trichloropropane	None Detected	µg/L	0.5	0.16
1,2,4-Trimethylbenzene	None Detected	µg/L	0.5	0.06
1,3,5-Trimethylbenzene	None Detected	µg/L	0.5	0.07
Vinyl Chloride	None Detected	µg/L	0.5	0.09
Total Xylenes	None Detected	µg/L	1.	0.13

Quality Control Data

Surrogates	% Recovery	Control Limits
1,2-Dichloroethane-d4	79.	76-114
Toluene-d8	94.	88-110
4-Bromofluorobenzene	93.	86-115

Flag Explanations:
*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

BC LABORATORIES
QUALITY CONTROL REPORT - LEVEL III
(Instrumental & Blank Parameters)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08271-1 - 99-08271-6

Constituents	ICV % Found	CCV % Found Before	CCV % Found After	% Found Control Limits	CCB Readings Before	CCB Readings After	Units	Method Blank Readings	Units
Sulfate	96.	97.	97.	90 - 110	< 1.0	< 1.0	mg/L	< 1.	mg/L
Chloride	99.	99.	99.	90 - 110	< 0.5	< 0.5	mg/L	< 0.5	mg/L
Nitrate/Nitrite as N	98.	107.	110.	90 - 110	< 0.1	< 0.1	mg/L	< 0.1	mg/L
Total Alkalinity as CaCO3								< 5.0	mg/L
Ammonia as N	100.	97.	90.	90 - 110	< 0.02	< 0.02	mg/L	< 0.02	mg/L
Ortho-phosphate	99.	97.	96.	90 - 110	< 0.05	< 0.05	mg/L	< 0.05	mg/L
Dissolved Non-Volatile Organic Carbon	103.	103.	104.	90 - 110	< 1.	< 1.	mg/L	< 1.	mg/L

ICV = Initial Calibration Verification; CCV = Continuing Calibration Verification
CCB = Continuing Calibration Blank

Quality Control Officer

Anthony Ponanno

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT - LEVEL III
(Precision & Accuracy)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwate

Samples Affected: 99-08271-1 - 99-08271-6

Constituents	QC Sample ID	Sample Result	Sample Duplicate	MS Result	MSD Result	MS Spike Level	MSD Spike Level	Units	Sample R.P.D.	Spike R.P.D.	Precision Control Limits	MS % Rec	MSD % Rec	Accuracy Control Limits
Sulfate	8271-4X5	10.72	10.22	484.5	486.3	500.0	500.0	mg/L	<PQL	0.	10	95.	95.	90 - 11
Chloride	8271-4X5	880.8	884.9	1354.	1370.	500.0	500.0	mg/L	0.	1.	10	95.	98.	90 - 11
Nitrate/Nitrite as N	8205-1X2	3.765	3.765	7.997	8.072	4.211	4.211	mg/L	0.	1.	10	101.	102.	90 - 11
Bicarbonate	8271-1	2.53	2.55	3.87	3.90	1.33	1.33	mls.titr.	1.	1.	10	101.	103.	80 - 12
Ammonia as N	8205-1	< 0.02	< 0.02	0.5413	0.5413	0.5263	0.5263	mg/L	<PQL	0.	10	103.	103.	90 - 11
Ortho-phosphate	8272-1	< 0.05	< 0.05	0.63	0.63	0.6132	0.6132	mg/L	<PQL	0.	10	103.	103.	90 - 11
Dissolved Non-Volatile Organic Carbon	DOC-8205-1	7.515	7.523	24.37	24.08	20.00	20.00	mg/L	0.	1.	10	84.	83.	80 - 12

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

Quality Control Officer

Anthony Bonanno

esults listed in this report are for the exclusive use of the submitting party. BC L ories, Inc. assumes no responsibility for report alteration, separation, detachment party interpretation.
4100 Atlas Court * Bakersfield, CA 93 * (661) 327-4911 * Fax (661) 327-1918 * www.bclabs.com

BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT - LEVEL III
(Laboratory Control Sample)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08271-1 - 99-08271-6

Constituents	QC Sample ID	Sample Result	Spike Level	Units	% Rec	Accuracy Control Limits
Sulfate	LCSW-07-18	95.99	100.	mg/L	96.	90 - 110
Chloride	LCSW-07-18	97.34	100.	mg/L	97.	90 - 110
Nitrate/Nitrite as N	LCSW	1.918	2.	mg/L	96.	90 - 110
Bicarbonate	LCSW	2.19	2.12	mls.titr.	103.	90 - 110
Ammonia as N	LCSW	0.5	0.5	mg/L	100.	90 - 110
Ortho-phosphate	LCSW-7-16-	30.63	30.662	mg/L	100.	90 - 110
Dissolved Non-Volatile Organic Carbon	LCSW1-07-1	20.48	20.	mg/L	102.	85 - 115

Quality Control Officer

Anthony Bonanno

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08271-1 - 99-08271-6

Constituents	Method Blank Readings	Units
Dissolved Aluminum	<50.	µg/L
Dissolved Antimony	<100.	µg/L
Dissolved Arsenic	< 2.	µg/L
Dissolved Barium	<100.	µg/L
Dissolved Beryllium	<10.	µg/L
Dissolved Cadmium	<10.	µg/L
Dissolved Chromium	<10.	µg/L
Hexavalent Chromium	< 2.	µg/L
Dissolved Cobalt	<50.	µg/L
Dissolved Copper	<10.	µg/L
Dissolved Lead	< 5.	µg/L
Dissolved Manganese	<10.	µg/L
Dissolved Mercury	< 0.2	µg/L
Dissolved Mercury #4	< 0.2	µg/L
Dissolved Molybdenum	<50.	µg/L
Dissolved Nickel	<50.	µg/L
Dissolved Selenium	< 2.	µg/L
Dissolved Silver	<10.	µg/L
Dissolved Titanium	<10.	µg/L
Dissolved Thallium	< 1.0	µg/L
Dissolved Vanadium	<10.	µg/L
Dissolved Zinc	<10.	µg/L
Total Aluminum	<50.	µg/L
Total Antimony	<100.	µg/L
Total Arsenic	< 2.	µg/L
Total Barium	<10.	µg/L
Total Beryllium	<10.	µg/L
Total Cadmium	< 5.	µg/L
Total Chromium	<10.	µg/L
Total Cobalt	<10.	µg/L
Total Copper	<10.	µg/L

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08271-1 - 99-08271-6

Constituents	Method Blank Readings	Units
Total Iron	<50.	µg/L
Total Lead	< 5.	µg/L
Total Manganese	<10.	µg/L
Total Mercury	< 0.2	µg/L
Total Molybdenum	<10.	µg/L
Total Nickel	<50.	µg/L
Total Selenium	< 2.	µg/L
Total Silver	<10.	µg/L
Total Titanium	<10.	µg/L
Total Thallium	< 5.0	µg/L
Total Vanadium	<10.	µg/L
Total Zinc	<50.	µg/L

Quality Control Officer

Anthony Bonanno

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BC Laboratories, Inc

B. C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwat

Samples Affected: 99-08271-1 - 99-08271-6

Constituents	QC Sample ID	Sample Result	Sample Duplicate	MS Result	MSD Result	MS Spike Level	MSD Spike Level	Units	Sample R.P.D.	Spike R.P.D.	Precision Control Limits	MS % Rec	MSD % Rec	Accurac Contro Limits
Dissolved Aluminum	8271-6	< 50.	< 50.	401.	412.	408.	408.	µg/L	<PQL	3.	20	98.	100.	85 - 1
Dissolved Antimony	8271-6	<100.	<100.	422.	424.	408.	408.	µg/L	<PQL	0.	20	103.	104.	85 - 1
Dissolved Arsenic	DISS-8271-2	3.98	4.06	24.2	24.4	20.	20.	µg/L	<PQL	1.	20	101.	102.	80 - 1
Dissolved Barium	8271-6	<100.	<100.	208.	209.	204.	204.	µg/L	<PQL	0.	20	101.	102.	85 - 1
Dissolved Beryllium	8271-6	< 10.	< 10.	201.	200.	204.	204.	µg/L	<PQL	0.	20	98.	98.	85 - 1
Dissolved Cadmium	8271-6	< 10.	< 10.	204.	208.	204.	204.	µg/L	<PQL	2.	20	100.	101.	85 - 1
Dissolved Chromium	8271-6	< 10.	< 10.	211.	210.	204.	204.	µg/L	<PQL	0.	20	103.	103.	85 - 1
Hexavalent Chromium	8271-1	15.	15.	67.6	69.	52.6	52.6	µg/L	0.	2.	10	100.	103.	85 - 1
Dissolved Cobalt	8271-6	< 50.	< 50.	209.	206.	204.	204.	µg/L	<PQL	1.	20	102.	100.	85 - 1
Dissolved Copper	8271-6	< 10.	< 10.	205.	205.	204.	204.	µg/L	<PQL	0.	20	101.	101.	85 - 1
Dissolved Lead	DISS-8271-1	< 5.	< 5.	22.	22.2	25.	25.	µg/L	<PQL	1.	20	88.	89.	85 - 1
Dissolved Manganese	8271-6	< 10.	< 10.	205.	205.	204.	204.	µg/L	<PQL	0.	20	100.	100.	85 - 1
Dissolved Mercury	DISS-08272-1	< 0.2	< 0.2	1.02	0.967	1.	1.	µg/L	<PQL	5.	20	100.	95.	70 - 1
Dissolved Mercury #4	DISS-08519-1	< 0.2	< 0.2	1.01	1.14	1.	1.	µg/L	<PQL	13.	20	100.	114.	70 - 1
Dissolved Molybdenum	8271-6	< 50.	< 50.	178.	186.	204.	204.	µg/L	<PQL	5.	20	85.	89.	85 - 1
Dissolved Nickel	8271-6	< 50.	< 50.	404.	402.	408.	408.	µg/L	<PQL	0.	20	99.	99.	85 - 1
Dissolved Selenium	DISS-8271-2	< 2.	< 2.	19.3	19.3	20.	20.	µg/L	<PQL	0.	20	93.	93.	80 - 1
Dissolved Silver	8271-6	< 10.	< 10.	212.	209.	204.	204.	µg/L	<PQL	1.	20	104.	103.	85 - 1
Dissolved Titanium	8271-6	< 10.	< 10.	193.	195.	204.	204.	µg/L	<PQL	1.	20	94.	95.	85 - 1
Dissolved Thallium	DISS-8205-1	< 1.	< 1.	24.4	24.6	25.	25.	µg/L	<PQL	1.	20	98.	99.	85 - 1
Dissolved Vanadium	8271-6	< 10.	< 10.	207.	206.	204.	204.	µg/L	<PQL	0.	20	101.	100.	85 - 1
Dissolved Zinc	8271-6	< 50.	< 50.	211.	212.	204.	204.	µg/L	<PQL	0.	20	103.	103.	85 - 1
Total Aluminum	TOTAL-8271-1-0	4530.	4550.	9190.	9200.	400.	400.	µg/L	0.	0.	20	H MEAN	H MEAN	80 - 1
Total Antimony	TOTAL-8271-1-0	<100.	<100.	440.	437.	400.	400.	µg/L	<PQL	1.	20	111.	110.	80 - 1
Total Arsenic	TOTAL-8271-1	9.18	9.5	27.2	28.	20.	20.	µg/L	<PQL	3.	20	90.	94.	80 - 1
Total Barium	TOTAL-8271-1-0	104.	104.	297.	297.	200.	200.	µg/L	<PQL	0.	20	96.	97.	80 - 1
Total Beryllium	TOTAL-8271-1-0	< 10.	< 10.	206.	206.	200.	200.	µg/L	<PQL	0.	20	103.	103.	80 - 1
Total Cadmium	TOTAL-8271-1-0	< 10.	< 10.	196.	197.	200.	200.	µg/L	<PQL	0.	20	100.	100.	80 - 1
Total Chromium	TOTAL-8271-1-0	21.4	23.	229.	228.	200.	200.	µg/L	<PQL	0.	20	104.	103.	80 - 1
Total Cobalt	TOTAL-8271-1-0	< 50.	< 50.	209.	208.	200.	200.	µg/L	<PQL	1.	20	103.	103.	80 - 1
Total Copper	TOTAL-8271-1-0	53.3	57.1	228.	225.	200.	200.	µg/L	7.	1.	20	88.	86.	80 - 1

esults listed in this report are for the exclusive use of the submitting party. BC L .ories, Inc. assumes no responsibility for report alteration, separation, detachment o party interpretation.

BC Laboratories, Inc

BC LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwat

Samples Affected: 99-08271-1 - 99-08271-6

Constituents	QC Sample ID	Sample Result	Sample Duplicate	MS Result	MSD Result	MS Spike Level	MSD Spike Level	Units	Sample R.P.D.	Spike R.P.D.	Precision Control Limits	MS % Rec	MSD % Rec	Accurac Contro Limits
Total Iron	TOTAL-8271-1-0	5240.	5260.	6660.	6680.	400.	400.	µg/L	0.	0.	20	H MEAN	H MEAN	80 - 1
Total Lead	TOTAL-8271-6	< 5.	< 5.	20.6	20.6	20.	20.	µg/L	<PQL	0.	20	103.	103.	80 - 1
Total Manganese	TOTAL-8271-1-0	102.	103.	299.	300.	200.	200.	µg/L	0.	0.	20	99.	99.	80 - 1
Total Mercury	TOTAL-08271-1	< 0.2	< 0.2	1.25	1.18	1.	1.	µg/L	<PQL	6.	20	116.	110.	70 - 1
Total Molybdenum	TOTAL-8271-1-0	< 50.	< 50.	218.	219.	200.	200.	µg/L	<PQL	1.	20	106.	107.	80 - 1
Total Nickel	TOTAL-8271-1-0	< 50.	< 50.	413.	414.	400.	400.	µg/L	<PQL	0.	20	102.	102.	80 - 1
Total Selenium	TOTAL-8271-1	< 2.	< 2.	20.3	20.	20.	20.	µg/L	<PQL	1.	20	96.	95.	80 - 1
Total Silver	TOTAL-8271-1-0	< 10.	< 10.	192.	192.	200.	200.	µg/L	<PQL	0.	20	97.	97.	80 - 1
Total Titanium	TOTAL-8271-1-0	247.	249.	575.	576.	200.	200.	µg/L	1.	0.	20	164.	164.	80 - 1
Total Thallium	TOTAL-8271-6	< 1.	< 1.	23.6	21.9	20.	20.	µg/L	<PQL	8.	20	118.	109.	80 - 1
Total Vanadium	TOTAL-8271-1-0	16.	16.8	217.	217.	200.	200.	µg/L	<PQL	0.	20	100.	100.	80 - 1
Total Zinc	TOTAL-8271-1-0	36.1	36.5	242.	242.	200.	200.	µg/L	<PQL	0.	20	103.	103.	80 - 1

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

H MEAN - The sample concentration is greater than four times the spike level.
The matrix spike recoveries for total titanium are outside QC limits.
The samples were redigested and re-analyzed, not yielding improved recoveries.
The sample reports are flagged accordingly.

Quality Control Officer

Anthony Bonanno

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

BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08271-1 - 99-08271-6

Constituents	QC Sample ID	Sample Result	Spike Level	Units	% Rec	Accuracy Control Limits
Dissolved Aluminum	LFB#1-0630	378.	400.	µg/L	94.	85 - 115
Dissolved Antimony	LFB#1-0630	392.	400.	µg/L	98.	85 - 115
Dissolved Arsenic	LCSW1-07-2	9.4	10.	µg/L	94.	85 - 115
Dissolved Barium	LFB#1-0630	198.	200.	µg/L	99.	85 - 115
Dissolved Beryllium	LFB#1-0630	191.	200.	µg/L	95.	85 - 115
Dissolved Cadmium	LFB#1-0630	192.	200.	µg/L	96.	85 - 115
Dissolved Chromium	LFB#1-0630	200.	200.	µg/L	100.	85 - 115
Hexavalent Chromium	LCSW-7-16-	952.	1000.	µg/L	95.	85 - 115
Dissolved Cobalt	LFB#1-0630	197.	200.	µg/L	98.	85 - 115
Dissolved Copper	LFB#1-0630	194.	200.	µg/L	97.	85 - 115
Dissolved Lead	LFB-25-LCS	23.1	25.	µg/L	92.	85 - 115
Dissolved Manganese	LFB#1-0630	194.	200.	µg/L	97.	85 - 115
Dissolved Mercury	LCSW1-07-2	1.1	1.0	µg/L	110.	85 - 115
Dissolved Mercury #4	LCSW2-08-0	1.1	1.0	µg/L	111.	85 - 115
Dissolved Molybdenum	LFB#1-0630	186.	200.	µg/L	93.	85 - 115
Dissolved Nickel	LFB#1-0630	382.	400.	µg/L	96.	85 - 115
Dissolved Selenium	LCSW1-07-2	9.5	10.	µg/L	95.	85 - 115
Dissolved Silver	LFB#1-0630	202.	200.	µg/L	101.	85 - 115
Dissolved Titanium	LFB#1-0630	186.	200.	µg/L	93.	85 - 115
Dissolved Thallium	LFB-25-LCS	25.9	25.	µg/L	104.	85 - 115
Dissolved Vanadium	LFB#1-0630	197.	200.	µg/L	98.	85 - 115
Dissolved Zinc	LFB#1-0630	197.	200.	µg/L	99.	85 - 115
Total Aluminum	TOTAL-LCSW	442.	400.	µg/L	111.	85 - 115
Total Antimony	TOTAL-LCSW	448.	400.	µg/L	112.	85 - 115
Total Arsenic	LCSW1-07-1	9.81	10.	µg/L	98.	85 - 115
Total Barium	TOTAL-LCSW	196.	200.	µg/L	98.	85 - 115
Total Beryllium	TOTAL-LCSW	209.	200.	µg/L	105.	85 - 115
Total Cadmium	TOTAL-LCSW	205.	200.	µg/L	103.	85 - 115
Total Chromium	TOTAL-LCSW	216.	200.	µg/L	108.	85 - 115
Total Cobalt	TOTAL-LCSW	217.	200.	µg/L	108.	85 - 115
Total Copper	TOTAL-LCSW	192.	200.	µg/L	96.	85 - 115

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08271-1 - 99-08271-6

Constituents	QC Sample ID	Sample Result	Spike Level	Units	% Rec	Accuracy Control Limits
Total Iron	TOTAL-LCSW	428.	400.	µg/L	107.	85 - 115
Total Lead	TOTAL-LCSW	20.5	20.	µg/L	102.	80 - 120
Total Manganese	TOTAL-LCSW	201.	200.	µg/L	101.	85 - 115
Total Mercury	LCSW2-07-2	1.09	1.0	µg/L	109.	85 - 115
Total Molybdenum	TOTAL-LCSW	223.	200.	µg/L	111.	85 - 115
Total Nickel	TOTAL-LCSW	428.	400.	µg/L	107.	85 - 115
Total Selenium	LCSW1-07-1	9.99	10.	µg/L	100.	85 - 115
Total Silver	TOTAL-LCSW	203.	200.	µg/L	102.	85 - 115
Total Titanium	TOTAL-LCSW	203.	200.	µg/L	102.	85 - 115
Total Thallium	TOTAL-LCSW	23.	20.	µg/L	115.	80 - 120
Total Vanadium	TOTAL-LCSW	204.	200.	µg/L	102.	85 - 115
Total Zinc	TOTAL-LCSW	211.	200.	µg/L	105.	85 - 115

Quality Control Officer

Anthony Bonanno

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
METHOD 8015M FUEL FINGERPRINT

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08271-1 - 99-08271-6

Constituents	Method Blank Readings	Units
Stoddard / White Spirits	<200.	µg/L
JP 4	<1000.	µg/L
JP 5	<1000.	µg/L
JP 6	<1000.	µg/L
JP 8	<200.	µg/L
Kerosene / Jet Fuel	<200.	µg/L
Diesel	<200.	µg/L
Crude Oil	<1000.	µg/L
Hydraulic Oil	<1000.	µg/L
Waste Oil	<1000.	µg/L
Motor Oil	<1000.	µg/L
Surrogate % Recovery	80.	%

Quality Control Officer

Anthony Bonanno

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)
METHOD 8015M FUEL FINGERPRINT

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08271-1 - 99-08271-6

Constituents	QC Sample ID	Sample Result	MS Result	MSD Result	MS Spike Level	MSD Spike Level	Units	Spike R.P.D.	Precision Control Limits	MS % Rec	MSD % Rec	Accuracy Control Limits
Diesel	EL-105-93-0716	<200.	2290.	2267.	2500.	2500.	µg/L	1.	30	92.	91.	43 - 148
Surrogate % Recovery	MS/MSD									79.	79.	33 - 138

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

Quality Control Officer

Anthony Bonanno

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)
METHOD 8015M FUEL FINGERPRINT

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08271-1 - 99-08271-6

Constituents	QC Sample ID	Sample Result	Spike Level	Units	% Rec	Accuracy Control Limits
Diesel	LCS	2403.	2500.	µg/L	96.	43 - 148
Surrogate % Recovery	LCS				82.	33 - 138

Quality Control Officer

Anthony Bonanno

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BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/24/99
Date Received: 07/15/99
Laboratory No.: 99-08272-4TB

Project Number: CA000280-0007-00001
Sampling Location: ILM
Sample ID: TRIP BLANK
Sample Matrix: Blank Water
Sample Collected By: TIM TEEPLE

Date Collected: 07/15/99
Date Extracted: 07/22/99
Date Analyzed: 07/22/99
Dilution Used: 1

Constituents	Analysis Results	Reporting Units	Practical Quantitation Limit	
Benzene	None Detected	µg/L	0.5	
Bromobenzene	None Detected	µg/L	0.5	
Bromochloromethane	None Detected	µg/L	0.5	
Bromodichloromethane	None Detected	µg/L	0.5	
Bromoform	None Detected	µg/L	0.5	
Bromomethane	None Detected	µg/L	0.5	
n-Butylbenzene	None Detected	µg/L	0.5	
sec-Butylbenzene	None Detected	µg/L	0.5	
tert-Butylbenzene	None Detected	µg/L	0.5	
Carbon tetrachloride	None Detected	µg/L	0.5	
Chlorobenzene	None Detected	µg/L	0.5	
Chloroethane	None Detected	µg/L	0.5	
2-Chloroethylvinyl ether	None Detected	µg/L	20.	*03
Chloroform	None Detected	µg/L	0.5	
Chloromethane	None Detected	µg/L	0.5	
2-Chlorotoluene	None Detected	µg/L	0.5	
4-Chlorotoluene	None Detected	µg/L	0.5	
Dibromochloromethane	None Detected	µg/L	0.5	
1,2-Dibromo-3-Chloropropane	None Detected	µg/L	0.5	
1,2-Dibromoethane	None Detected	µg/L	0.5	
Dibromomethane	None Detected	µg/L	0.5	
1,2-Dichlorobenzene	None Detected	µg/L	0.5	
1,3-Dichlorobenzene	None Detected	µg/L	0.5	
1,4-Dichlorobenzene	None Detected	µg/L	0.5	
Dichlorodifluoromethane	None Detected	µg/L	0.5	
1,1-Dichloroethane	None Detected	µg/L	0.5	
1,2-Dichloroethane	None Detected	µg/L	0.5	
1,1-Dichloroethene	None Detected	µg/L	0.5	
cis-1,2-Dichloroethene	None Detected	µg/L	0.5	
trans-1,2-Dichloroethene	None Detected	µg/L	0.5	
1,2-Dichloropropane	None Detected	µg/L	0.5	
1,3-Dichloropropane	None Detected	µg/L	0.5	
2,2-Dichloropropane	None Detected	µg/L	0.5	
1,1-Dichloropropene	None Detected	µg/L	0.5	
cis-1,3-Dichloropropene	None Detected	µg/L	0.5	
trans-1,3-Dichloropropene	None Detected	µg/L	0.5	
Ethyl Benzene	None Detected	µg/L	0.5	
Hexachlorobutadiene	None Detected	µg/L	0.5	
Isopropylbenzene	None Detected	µg/L	0.5	
p-Isopropyltoluene	None Detected	µg/L	0.5	
Methylene Chloride	2.4	µg/L	0.5	*66
Naphthalene	None Detected	µg/L	0.5	

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BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
Attn: TERESA WILSON 714-278-0992

Date Reported: 07/24/99
Date Received: 07/15/99
Laboratory No.: 99-08272-4TB

Sample Description: CA000280-0007-00001, ILM, TRIP BLANK, 07/15/99, TIM TEEPLE

Constituents	Analysis Results	Reporting Units	Practical Quantitation Limit
n-Propylbenzene	None Detected	µg/L	0.5
Styrene	None Detected	µg/L	0.5
1,1,1,2-Tetrachloroethane	None Detected	µg/L	0.5
1,1,2,2-Tetrachloroethane	None Detected	µg/L	0.5
Tetrachloroethene	None Detected	µg/L	0.5
Toluene	None Detected	µg/L	0.5
1,2,3-Trichlorobenzene	None Detected	µg/L	0.5
1,2,4-Trichlorobenzene	None Detected	µg/L	0.5
1,1,1-Trichloroethane	None Detected	µg/L	0.5
1,1,2-Trichloroethane	None Detected	µg/L	0.5
Trichloroethene	None Detected	µg/L	0.5
Trichlorofluoromethane	None Detected	µg/L	0.5
1,2,3-Trichloropropane	None Detected	µg/L	0.5
1,2,4-Trimethylbenzene	None Detected	µg/L	0.5
1,3,5-Trimethylbenzene	None Detected	µg/L	0.5
Vinyl Chloride	None Detected	µg/L	0.5
Total Xylenes	None Detected	µg/L	1.

Quality Control Data

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

Flag Explanations:
*03 = CCV recovery not within method limits.
*66 = Note: Methylene chloride present in the method blank at 0.24 µg/L.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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BC Laboratories, Inc

B.C LABORATORIES
QUALITY CONTROL REPORT - LEVEL III
(Instrumental & Blank Parameters)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1 - 99-08272-3

Constituents	ICV % Found	CCV % Found Before	CCV % Found After	% Found Control Limits	CCB Readings Before	CCB Readings After	Units	Method Blank Readings	Units
Sulfate	96.	97.	97.	90 - 110	< 1.0	< 1.0	mg/L	< 1.	mg/L
Chloride	99.	99.	99.	90 - 110	< 0.5	< 0.5	mg/L	< 0.5	mg/L
Nitrate/Nitrite as N #1,2	98.	107.	110.	90 - 110	< 0.1	< 0.1	mg/L	< 0.1	mg/L
Nitrate/Nitrite as N #3	98.	110.	108.	90 - 110	< 0.1	< 0.1	mg/L	< 0.1	mg/L
Ammonia as N #1	100.	97.	90.	90 - 110	< 0.02	< 0.02	mg/L	< 0.02	mg/L
Ammonia as N #2,3	100.	90.	97.	90 - 110	< 0.02	< 0.02	mg/L	< 0.02	mg/L
Ortho-phosphate	99.	99.	99.	90 - 110	< 0.05	< 0.05	mg/L	< 0.05	mg/L
Dissolved Non-Volatile Organic Carbon #1	103.	103.	104.	90 - 110	< 1.	< 1.	mg/L	< 1.	mg/L
Dissolved Non-Volatile Organic Carbon #2,3	100.	105.	105.	90 - 110	< 1.	< 1.	mg/L	< 1.	mg/L

ICV = Initial Calibration Verification; CCV = Continuing Calibration Verification
CCB = Continuing Calibration Blank

Quality Control Officer

Anthony Bonanno

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT - LEVEL III
(Precision & Accuracy)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1 - 99-08272-3

Constituents	QC Sample ID	Sample Result	Sample Duplicate	MS Result	MSD Result	MS Spike Level	MSD Spike Level	Units	Sample R.P.D.	Spike R.P.D.	Precision Control Limits	MS % Rec	MSD % Rec	Accuracy Control Limits
Sulfate	8272-3X5	65.4	63.6	564.	584.	500.	500.	mg/L	3.	3.	10	100.	104.	90 - 110
Chloride	8272-3X5	1140.	1140.	1620.	1610.	500.	500.	mg/L	0.	1.	10	97.	95.	90 - 110
Nitrate/Nitrite as N #1	8205-1X2	3.76	3.76	8.	8.07	4.21	4.21	mg/L	0.	1.	10	101.	102.	90 - 110
Nitrate/Nitrite as N #2,3	8272-2	< 0.1	< 0.1	2.21	2.17	2.1	2.1	mg/L	<PQL	2.	10	105.	103.	90 - 110
Bicarbonate	8286-2	1.99	1.99	3.30	3.32	1.33	1.33	mls.titr.	0.	1.	10	98.	100.	80 - 120
Ammonia as N	8205-1	< 0.02	< 0.02	0.541	0.541	0.526	0.526	mg/L	<PQL	0.	10	103.	103.	90 - 110
Ammonia as N #2,3	8272-2	< 0.02	< 0.02	0.526	0.541	0.526	0.526	mg/L	<PQL	3.	10	100.	103.	90 - 110
Ortho-phosphate	8272-1	< 0.05	< 0.05	0.63	0.63	0.613	0.613	mg/L	<PQL	0.	10	103.	103.	90 - 110
Dissolved Non-Volatile Organic Carbon #1	DOC-8205-1	7.52	7.52	24.4	24.1	20.	20.	mg/L	<PQL	1.	10	84.	83.	80 - 120
Dissolved Non-Volatile Organic Carbon #2,3	DOC-8272-2	2.18	2.19	7.09	7.1	5.00	5.00	mg/L	<PQL	0.	10	98.	98.	80 - 120

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

Quality Control Officer

Anthony Bonanno

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT - LEVEL III
(Laboratory Control Sample)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1 - 99-08272-3

Constituents	QC Sample ID	Sample Result	Spike Level	Units	% Rec	Accuracy Control Limits
Sulfate	LCSW-07-18	95.99	100.	mg/L	96.	90 - 110
Chloride	LCSW-07-18	97.34	100.	mg/L	97.	90 - 110
Nitrate/Nitrite as N	LCSW	1.918	2.	mg/L	96.	90 - 110
Bicarbonate	LCSW	2.19	2.12	mls.titr.	103.	90 - 110
Ammonia as N	LCSW	0.5	0.5	mg/L	100.	90 - 110
Ortho-phosphate	LCSW-7-16-	30.63	30.662	mg/L	100.	90 - 110
Dissolved Non-Volatile Organic Carbon	LCSW1-07-1	20.48	20.	mg/L	102.	85 - 115

Quality Control Officer

Anthony Bonanno

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BC Laboratories, Inc

B.C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1

Constituents	ICV % Found	ICV %Found Control Limits	CCV % Found Before	CCV % Found After	% Found Control Limits	CCB Readings Before	Units	CCB Readings After	Units	Method Blank Readings	Units
Dissolved Aluminum	102.	90 - 110	100.	98.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Dissolved Antimony	103.	90 - 110	101.	101.	90 - 110	<100.	µg/L	<100.	µg/L	<100.	µg/L
Dissolved Arsenic	105.	90 - 110	105.	93.	80 - 120	< 1.	µg/L	< 1.	µg/L	< 2.	µg/L
Dissolved Barium	98.	90 - 110	101.	101.	90 - 110	<100.	µg/L	<100.	µg/L	<100.	µg/L
Dissolved Beryllium	101.	90 - 110	97.	95.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Cadmium	99.	90 - 110	98.	97.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Chromium	100.	90 - 110	97.	96.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Cobalt	98.	90 - 110	97.	96.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Dissolved Copper	96.	90 - 110	99.	99.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Lead	100.	90 - 110	92.	98.	80 - 120	< 5.	µg/L	< 5.	µg/L	< 5.	µg/L
Dissolved Manganese	98.	90 - 110	98.	97.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Mercury	103.	90 - 110	103.	98.	80 - 120	< 0.2	µg/L	< 0.2	µg/L	< 0.2	µg/L
Dissolved Molybdenum	101.	90 - 110	97.	97.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Dissolved Nickel	102.	90 - 110	97.	95.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Dissolved Selenium	102.	90 - 110	102.	100.	90 - 110	< 1.	µg/L	< 1.	µg/L	< 2.	µg/L
Dissolved Silver	101.	90 - 110	99.	100.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Titanium	99.	90 - 110	96.	94.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Thallium	101.	90 - 110	103.	108.	80 - 120	< 1.	µg/L	< 1.	µg/L	< 1.	µg/L
Dissolved Vanadium	104.	90 - 110	103.	102.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Zinc	100.	90 - 110	99.	99.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Aluminum	102.	90 - 110	103.	103.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Total Antimony	103.	90 - 110	110.	110.	90 - 110	<100.	µg/L	<100.	µg/L	<100.	µg/L
Total Arsenic	105.	90 - 110	105.	93.	90 - 110	< 1.	µg/L	< 1.	µg/L	< 2.	µg/L
Total Barium	98.	90 - 110	97.	97.	90 - 110	<100.	µg/L	<100.	µg/L	<10.	µg/L
Total Beryllium	101.	90 - 110	103.	104.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Cadmium	99.	90 - 110	100.	100.	90 - 110	<10.	µg/L	<10.	µg/L	< 5.	µg/L
Total Chromium	100.	90 - 110	104.	105.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Cobalt	98.	90 - 110	100.	100.	90 - 110	<50.	µg/L	<50.	µg/L	<10.	µg/L
Total Copper	96.	90 - 110	97.	97.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Iron	101.	90 - 110	104.	104.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Total Lead	102.	90 - 110	104.	110.	80 - 120	< 5.	µg/L	< 5.	µg/L	< 5.	µg/L

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1

Constituents	ICV % Found	ICV % Found Control Limits	CCV % Found Before	CCV % Found After	% Found Control Limits	CCB Readings Before	Units	CCB Readings After	Units	Method Blank Readings	Units
Total Manganese	98.	90 - 110	99.	99.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Mercury	103.	90 - 110	107.	110.	80 - 120	< 0.2	µg/L	< 0.2	µg/L	< 0.2	µg/L
Total Molybdenum	101.	90 - 110	106.	107.	90 - 110	<50.	µg/L	<50.	µg/L	<10.	µg/L
Total Nickel	102.	90 - 110	105.	105.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Total Selenium	102.	90 - 110	102.	100.	90 - 110	< 1.	µg/L	< 1.	µg/L	< 2.	µg/L
Total Silver	101.	90 - 110	106.	98.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Titanium	99.	90 - 110	101.	101.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Thallium	101.	90 - 110	108.	104.	80 - 120	< 1.	µg/L	< 1.	µg/L	< 5.0	µg/L
Total Vanadium	104.	90 - 110	104.	104.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Zinc	100.	90 - 110	103.	103.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L

ICV = Initial Calibration Verification; CCV = Continuing Calibration Verification; CCB = Continuing Calibration Blank

Quality Control Officer

Anthony Bonanno

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BOE-C6-0102191

BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1

Constituents	QC Sample ID	Sample Result	Sample Duplicate	MS Result	MSD Result	MS Spike Level	MSD Spike Level	Units	Sample R.P.D.	Spike R.P.D.	Precision Control Limits	MS % Rec	MSD % Rec	Accuracy Control Limits
Dissolved Aluminum	8272-1	< 50.	< 50.	403.	394.8	408.2	408.2	µg/L	<PQL	2.	20	107.	105.	85 - 115
Dissolved Antimony	8272-1	<100.	<100.	421.5	414.9	408.2	408.2	µg/L	<PQL	2.	20	105.	104.	85 - 115
Dissolved Arsenic	DISS-8272-1	< 2.	< 2.	19.36	20.22	20.00	20.00	µg/L	<PQL	4.	20	97.	101.	80 - 120
Dissolved Barium	8272-1	<100.	<100.	204.5	204.1	204.1	204.1	µg/L	<PQL	0.	20	100.	100.	85 - 115
Dissolved Beryllium	8272-1	< 10.	< 10.	198.4	197.8	204.1	204.1	µg/L	<PQL	0.	20	97.	97.	85 - 115
Dissolved Cadmium	8272-1	< 10.	< 10.	205.9	207.1	204.1	204.1	µg/L	<PQL	1.	20	102.	102.	85 - 115
Dissolved Chromium	8272-1	< 10.	< 10.	199.4	201.5	204.1	204.1	µg/L	<PQL	1.	20	99.	100.	85 - 115
Dissolved Cobalt	8272-1	< 50.	< 50.	209.2	209.8	204.1	204.1	µg/L	<PQL	0.	20	103.	103.	85 - 115
Dissolved Copper	8272-1	< 10.	< 10.	205.7	207.7	204.1	204.1	µg/L	<PQL	1.	20	103.	104.	85 - 115
Dissolved Lead	DISS-8271-1	< 5.	< 5.	22.01	22.2	25.00	25.00	µg/L	<PQL	1.	20	88.	89.	85 - 115
Dissolved Manganese	8272-1	< 10.	< 10.	199.8	199.	204.1	204.1	µg/L	<PQL	0.	20	98.	97.	85 - 115
Dissolved Mercury	DISS-08272-1	< 0.2	< 0.2	1.02	0.9673	1.000	1.000	µg/L	<PQL	5.	20	100.	95.	70 - 130
Dissolved Molybdenum	8272-1	< 50.	< 50.	198.	210.7	204.1	204.1	µg/L	<PQL	6.	20	97.	103.	85 - 115
Dissolved Nickel	8272-1	< 50.	< 50.	404.4	403.3	408.2	408.2	µg/L	<PQL	0.	20	100.	99.	85 - 115
Dissolved Selenium	DISS-8272-1	< 2.	< 2.	19.72	19.64	20.00	20.00	µg/L	<PQL	0.	20	98.	97.	80 - 120
Dissolved Silver	8272-1	< 10.	< 10.	191.3	194.6	204.1	204.1	µg/L	<PQL	2.	20	97.	98.	85 - 115
Dissolved Titanium	8272-1	< 10.	< 10.	196.	196.2	204.1	204.1	µg/L	<PQL	0.	20	96.	97.	85 - 115
Dissolved Thallium	DISS-8335-1	< 1.	< 1.	23.09	22.22	25.00	25.00	µg/L	<PQL	4.	20	93.	90.	85 - 115
Dissolved Vanadium	8272-1	< 10.	< 10.	199.2	201.4	204.1	204.1	µg/L	<PQL	1.	20	98.	99.	85 - 115
Dissolved Zinc	8272-1	< 10.	< 10.	217.1	215.7	204.1	204.1	µg/L	<PQL	1.	20	104.	103.	85 - 115
Total Aluminum	TOTAL-8271-1-0	4528.	4550.	9194.	9199.	400.0	400.0	µg/L	0.	0.	20	H MEAN	H MEAN	80 - 120
Total Antimony	TOTAL-8271-1-0	<100.	<100.	439.5	436.8	400.0	400.0	µg/L	<PQL	1.	20	111.	110.	80 - 120
Total Arsenic	DISS-8272-1	< 2.	< 2.	19.36	20.22	20.00	20.00	µg/L	<PQL	4.	20	97.	101.	80 - 120
Total Barium	TOTAL-8271-1-0	104.	104.	296.7	297.	200.0	200.0	µg/L	<PQL	0.	20	96.	97.	80 - 120
Total Beryllium	TOTAL-8271-1-0	< 10.	< 10.	205.9	206.3	200.0	200.0	µg/L	<PQL	0.	20	103.	103.	80 - 120
Total Cadmium	TOTAL-8271-1-0	< 10.	< 10.	196.2	197.	200.0	200.0	µg/L	<PQL	0.	20	100.	100.	80 - 120
Total Chromium	TOTAL-8271-1-0	21.4	23.	229.	227.9	200.0	200.0	µg/L	<PQL	0.	20	104.	103.	80 - 120
Total Cobalt	TOTAL-8271-1-0	< 50.	< 50.	209.1	207.8	200.0	200.0	µg/L	<PQL	1.	20	103.	103.	80 - 120
Total Copper	TOTAL-8271-1-0	53.3	57.1	228.5	225.3	200.0	200.0	µg/L	7.	1.	20	88.	86.	80 - 120
Total Iron	TOTAL-8271-1-0	5242.	5261.	6662.	6676.	400.0	400.0	µg/L	0.	0.	20	H MEAN	H MEAN	80 - 120
Total Lead	TOTAL-8271-6	< 5.	< 5.	20.57	20.61	20.00	20.00	µg/L	<PQL	0.	20	103.	103.	80 - 120

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1

Constituents	QC Sample ID	Sample Result	Sample Duplicate	MS Result	MSD Result	MS Spike Level	MSD Spike Level	Units	Sample R.P.D.	Spike R.P.D.	Precision Control Limits	MS % Rec	MSD % Rec	Accuracy Control Limits
Total Manganese	TOTAL-8271-1-0	102.4	102.6	299.4	299.7	200.0	200.0	µg/L	0.	0.	20	99.	99.	80 - 120
Total Mercury	TOTAL-08271-1	< 0.2	< 0.2	1.251	1.184	1.000	1.000	µg/L	<PQL	6.	20	116.	110.	70 - 130
Total Molybdenum	TOTAL-8271-1-0	< 50.	< 50.	217.9	219.2	200.0	200.0	µg/L	<PQL	1.	20	106.	107.	80 - 120
Total Nickel	TOTAL-8271-1-0	< 50.	< 50.	412.7	413.6	400.0	400.0	µg/L	<PQL	0.	20	102.	102.	80 - 120
Total Selenium	DISS-8272-1	< 2.	< 2.	19.72	19.64	20.00	20.00	µg/L	<PQL	0.	20	98.	97.	80 - 120
Total Silver	TOTAL-8271-1-0	< 10.	< 10.	192.3	192.3	200.0	200.0	µg/L	<PQL	0.	20	97.	97.	80 - 120
Total Titanium	TOTAL-8271-1-0	247.1	248.8	574.8	575.9	200.0	200.0	µg/L	1.	0.	20	164.	164.	80 - 120
Total Thallium	TOTAL-8271-6	< 1.	< 1.	23.61	21.88	20.00	20.00	µg/L	<PQL	8.	20	118.	109.	80 - 120
Total Vanadium	TOTAL-8271-1-0	16.	16.8	216.8	216.6	200.0	200.0	µg/L	<PQL	0.	20	100.	100.	80 - 120
Total Zinc	TOTAL-8271-1-0	36.1	36.5	241.8	242.5	200.0	200.0	µg/L	<PQL	0.	20	103.	103.	80 - 120

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

H MEAN - The sample concentration is greater than four times the spike level.
The matrix spike recoveries for total titanium are outside QC limits.
The samples were redigested and re-analyzed, not yielding improved recoveries.
The sample reports are flagged accordingly.

Quality Control Officer

Anthony Bonanno

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BOE-C6-0102193

BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1

Constituents	QC Sample ID	Sample Result	Spike Level	Units	% Rec	Accuracy Control Limits
Dissolved Aluminum	LFB#3-0129	353.5	400.	µg/L	88.	85 - 115
Dissolved Antimony	LFB#3-0129	375.2	400.	µg/L	94.	85 - 115
Dissolved Arsenic	LCSW1-07-2	9.44	10.	µg/L	94.	85 - 115
Dissolved Barium	LFB#3-0129	179.7	200.	µg/L	90.	85 - 115
Dissolved Beryllium	LFB#3-0129	174.8	200.	µg/L	87.	85 - 115
Dissolved Cadmium	LFB#3-0129	179.4	200.	µg/L	90.	85 - 115
Dissolved Chromium	LFB#3-0129	177.8	200.	µg/L	89.	85 - 115
Dissolved Cobalt	LFB#3-0129	187.	200.	µg/L	94.	85 - 115
Dissolved Copper	LFB#3-0129	182.5	200.	µg/L	91.	85 - 115
Dissolved Lead	LFB-25-LCS	23.07	25.	µg/L	92.	85 - 115
Dissolved Manganese	LFB#3-0129	176.	200.	µg/L	88.	85 - 115
Dissolved Mercury	LCSW1-07-2	1.099	1.0	µg/L	110.	85 - 115
Dissolved Molybdenum	LFB#3-0129	181.2	200.	µg/L	91.	85 - 115
Dissolved Nickel	LFB#3-0129	357.6	400.	µg/L	89.	85 - 115
Dissolved Selenium	LCSW1-07-2	10.06	10.	µg/L	101.	85 - 115
Dissolved Silver	LFB#3-0129	173.	200.	µg/L	87.	85 - 115
Dissolved Titanium	LFB#3-0129	173.9	200.	µg/L	87.	85 - 115
Dissolved Thallium	LFB-25-LCS	25.07	25.	µg/L	100.	85 - 115
Dissolved Vanadium	LFB#3-0129	178.7	200.	µg/L	89.	85 - 115
Dissolved Zinc	LFB#3-0129	183.	200.	µg/L	92.	85 - 115
Total Aluminum	TOTAL-LCSW	442.5	400.	µg/L	111.	85 - 115
Total Antimony	TOTAL-LCSW	448.5	400.	µg/L	112.	85 - 115
Total Arsenic	LCSW1-07-2	9.44	10.	µg/L	94.	85 - 115
Total Barium	TOTAL-LCSW	196.	200.	µg/L	98.	85 - 115
Total Beryllium	TOTAL-LCSW	209.3	200.	µg/L	105.	85 - 115
Total Cadmium	TOTAL-LCSW	205.3	200.	µg/L	103.	85 - 115
Total Chromium	TOTAL-LCSW	215.7	200.	µg/L	108.	85 - 115
Total Cobalt	TOTAL-LCSW	216.6	200.	µg/L	108.	85 - 115
Total Copper	TOTAL-LCSW	192.5	200.	µg/L	96.	85 - 115
Total Iron	TOTAL-LCSW	428.4	400.	µg/L	107.	85 - 115
Total Lead	TOTAL-LCSW	20.48	20.	µg/L	102.	85 - 115

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1

Constituents	QC Sample ID	Sample Result	Spike Level	Units	% Rec	Accuracy Control Limits
Total Manganese	TOTAL-LCSW	201.1	200.	µg/L	101.	85 - 115
Total Mercury	LCSW2-07-2	1.087	1.0	µg/L	109.	85 - 115
Total Molybdenum	TOTAL-LCSW	222.8	200.	µg/L	111.	85 - 115
Total Nickel	TOTAL-LCSW	428.	400.	µg/L	107.	85 - 115
Total Selenium	LCSW1-07-2	10.06	10.	µg/L	101.	85 - 115
Total Silver	TOTAL-LCSW	203.1	200.	µg/L	102.	85 - 115
Total Titanium	TOTAL-LCSW	203.1	200.	µg/L	102.	85 - 115
Total Thallium	TOTAL-LCSW	23.01	20.	µg/L	115.	85 - 115
Total Vanadium	TOTAL-LCSW	204.1	200.	µg/L	102.	85 - 115
Total Zinc	TOTAL-LCSW	210.8	200.	µg/L	105.	85 - 115

Quality Control Officer

Anthony Bonanno

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BOE-C6-0102195

BC Laboratories, Inc

BC LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-2

Constituents	ICV % Found	ICV %Found Control Limits	CCV % Found Before	CCV % Found After	% Found Control Limits	CCB Readings Before	Units	CCB Readings After	Units	Method Blank Readings	Units
Dissolved Aluminum	102.	90 - 110	100.	98.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Dissolved Antimony	103.	90 - 110	101.	101.	90 - 110	<100.	µg/L	<100.	µg/L	<100.	µg/L
Dissolved Arsenic	105.	80 - 120	105.	93.	80 - 120	< 1.	µg/L	< 1.	µg/L	< 2.	µg/L
Dissolved Barium	98.	90 - 110	101.	101.	90 - 110	<100.	µg/L	<100.	µg/L	<100.	µg/L
Dissolved Beryllium	101.	90 - 110	97.	95.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Cadmium	99.	90 - 110	98.	97.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Chromium	100.	90 - 110	97.	96.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Cobalt	98.	90 - 110	97.	96.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Dissolved Copper	96.	90 - 110	99.	99.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Lead	100.	80 - 120	92.	98.	80 - 120	< 5.	µg/L	< 5.	µg/L	< 5.	µg/L
Dissolved Manganese	98.	90 - 110	98.	97.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Mercury	103.	80 - 120	103.	98.	80 - 120	< 0.08	µg/L	< 0.08	µg/L	< 0.2	µg/L
Dissolved Molybdenum	101.	90 - 110	97.	97.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Dissolved Nickel	102.	90 - 110	97.	95.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Dissolved Selenium	102.	80 - 120	102.	100.	80 - 120	< 1.	µg/L	< 1.	µg/L	< 2.	µg/L
Dissolved Silver	101.	90 - 110	99.	100.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Titanium	99.	90 - 110	96.	94.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Thallium	101.	80 - 120	103.	108.	80 - 120	< 1.	µg/L	< 1.	µg/L	< 1.	µg/L
Dissolved Vanadium	104.	90 - 110	103.	102.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Zinc	100.	90 - 110	99.	99.	90 - 110	<50.	µg/L	<50.	µg/L	<10.	µg/L
Total Aluminum	102.	90 - 110	103.	103.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Total Antimony	103.	90 - 110	110.	110.	90 - 110	<100.	µg/L	<100.	µg/L	<100.	µg/L
Total Arsenic	105.	80 - 120	105.	93.	80 - 120	< 1.	µg/L	< 1.	µg/L	< 2.	µg/L
Total Barium	98.	90 - 110	97.	97.	90 - 110	<100.	µg/L	<100.	µg/L	<100.	µg/L
Total Beryllium	101.	90 - 110	103.	104.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Cadmium	99.	90 - 110	100.	100.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Chromium	100.	90 - 110	104.	105.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Cobalt	98.	90 - 110	100.	100.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Total Copper	96.	90 - 110	97.	97.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Iron	101.	90 - 110	104.	104.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Total Lead	102.	80 - 120	104.	110.	80 - 120	< 5.	µg/L	< 5.	µg/L	< 5.	µg/L

results listed in this report are for the exclusive use of the submitting party. BC Lab es, Inc. assumes no responsibility for report alteration, separation, detachment or thir v interpretation.
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BOE-C6-0102196

BC Laboratories, Inc

B. C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-2

Constituents	ICV % Found	ICV % Found Control Limits	CCV % Found Before	CCV % Found After	% Found Control Limits	CCB Readings Before	Units	CCB Readings After	Units	Method Blank Readings	Units
Total Manganese	98.	90 - 110	99.	99.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Mercury	103.	80 - 120	107.	110.	80 - 120	< 0.08	µg/L	< 0.08	µg/L	< 0.2	µg/L
Total Molybdenum	101.	90 - 110	106.	107.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Total Nickel	102.	90 - 110	105.	105.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Total Selenium	102.	80 - 120	102.	100.	80 - 120	< 1.	µg/L	< 1.	µg/L	< 2.	µg/L
Total Silver	101.	90 - 110	106.	98.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Titanium	99.	90 - 110	101.	101.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Thallium	101.	80 - 120	108.	104.	80 - 120	< 1.	µg/L	< 1.	µg/L	< 1.	µg/L
Total Vanadium	104.	90 - 110	104.	104.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Zinc	100.	90 - 110	103.	103.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L

ICV = Initial Calibration Verification; CCV = Continuing Calibration Verification; CCB = Continuing Calibration Blank

Quality Control Officer

Anthony Bonenno

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.
Court * Bakersfield, CA 93308 * (661) 327-4911 * Fax (661) 327-1918 * www.bclabs.com

BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-2

Constituents	QC Sample ID	Sample Result	Sample Duplicate	MS Result	MSD Result	MS Spike Level	MSD Spike Level	Units	Sample R.P.D.	Spike R.P.D.	Precision Control Limits	MS % Rec	MSD % Rec	Accuracy Control Limits
Dissolved Aluminum	8272-2	< 50.	< 50.	416.1	392.8	408.2	408.2	µg/L	<PQL	6.	20	106.	101.	85 - 115
Dissolved Antimony	8272-2	<100.	<100.	434.5	430.1	408.2	408.2	µg/L	<PQL	1.	20	108.	107.	85 - 115
Dissolved Arsenic	DISS-8272-1	< 2.	< 2.	19.36	20.22	20.00	20.00	µg/L	<PQL	4.	20	97.	101.	80 - 120
Dissolved Barium	8272-2	<100.	<100.	207.2	207.4	204.1	204.1	µg/L	<PQL	0.	20	102.	102.	85 - 115
Dissolved Beryllium	8272-2	< 10.	< 10.	201.5	200.4	204.1	204.1	µg/L	<PQL	1.	20	99.	98.	85 - 115
Dissolved Cadmium	8272-2	< 10.	< 10.	210.	209.	204.1	204.1	µg/L	<PQL	0.	20	104.	103.	85 - 115
Dissolved Chromium	8272-2	< 10.	< 10.	204.	202.	204.1	204.1	µg/L	<PQL	1.	20	101.	100.	85 - 115
Dissolved Cobalt	8272-2	< 50.	< 50.	213.3	213.2	204.1	204.1	µg/L	<PQL	0.	20	104.	104.	85 - 115
Dissolved Copper	8272-2	< 10.	< 10.	211.8	210.1	204.1	204.1	µg/L	<PQL	1.	20	106.	105.	85 - 115
Dissolved Lead	DISS-8271-1	< 5.	< 5.	22.01	22.2	25.00	25.00	µg/L	<PQL	1.	20	88.	89.	85 - 115
Dissolved Manganese	8272-2	< 10.	< 10.	203.	201.2	204.1	204.1	µg/L	<PQL	1.	20	99.	98.	85 - 115
Dissolved Mercury	DISS-08272-1	< 0.2	< 0.2	1.02	0.9673	1.000	1.000	µg/L	<PQL	5.	20	100.	95.	70 - 130
Dissolved Molybdenum	8272-2	< 50.	< 50.	198.	201.4	204.1	204.1	µg/L	<PQL	2.	20	98.	99.	85 - 115
Dissolved Nickel	8272-2	< 50.	< 50.	411.6	407.8	408.2	408.2	µg/L	<PQL	1.	20	102.	101.	85 - 115
Dissolved Selenium	DISS-8272-1	< 2.	< 2.	19.72	19.64	20.00	20.00	µg/L	<PQL	0.	20	98.	97.	80 - 120
Dissolved Silver	8272-2	< 10.	< 10.	197.	194.9	204.1	204.1	µg/L	<PQL	1.	20	99.	98.	85 - 115
Dissolved Titanium	8272-2	< 10.	< 10.	199.5	198.1	204.1	204.1	µg/L	<PQL	1.	20	98.	97.	85 - 115
Dissolved Thallium	DISS-8335-1	< 1.	< 1.	23.09	22.22	25.00	25.00	µg/L	<PQL	4.	20	93.	90.	85 - 115
Dissolved Vanadium	8272-2	< 10.	< 10.	204.5	203.9	204.1	204.1	µg/L	<PQL	0.	20	101.	100.	85 - 115
Dissolved Zinc	8272-2	< 50.	< 50.	217.7	215.	204.1	204.1	µg/L	<PQL	1.	20	105.	104.	85 - 115
Total Aluminum	TOTAL-8271-1-0	4528.	4550.	9194.	9199.	400.0	400.0	µg/L	0.	0.	20	H MEAN	H MEAN	80 - 120
Total Antimony	TOTAL-8271-1-0	<100.	<100.	439.5	436.8	400.0	400.0	µg/L	<PQL	1.	20	111.	110.	80 - 120
Total Arsenic	DISS-8272-1	< 2.	< 2.	19.36	20.22	20.00	20.00	µg/L	<PQL	4.	20	97.	101.	80 - 120
Total Barium	TOTAL-8271-1-0	104.	104.	296.7	297.	200.0	200.0	µg/L	0.	0.	20	96.	97.	80 - 120
Total Beryllium	TOTAL-8271-1-0	< 10.	< 10.	205.9	206.3	200.0	200.0	µg/L	<PQL	0.	20	103.	103.	80 - 120
Total Cadmium	TOTAL-8271-1-0	< 10.	< 10.	196.2	197.	200.0	200.0	µg/L	<PQL	0.	20	100.	100.	80 - 120
Total Chromium	TOTAL-8271-1-0	21.4	23.	229.	227.9	200.0	200.0	µg/L	7.	0.	20	104.	103.	80 - 120
Total Cobalt	TOTAL-8271-1-0	< 50.	< 50.	209.1	207.8	200.0	200.0	µg/L	<PQL	1.	20	103.	103.	80 - 120
Total Copper	TOTAL-8271-1-0	53.3	57.1	228.5	225.3	200.0	200.0	µg/L	7.	1.	20	88.	86.	80 - 120
Total Iron	TOTAL-8271-1-0	5242.	5261.	6662.	6676.	400.0	400.0	µg/L	0.	0.	20	H MEAN	H MEAN	80 - 120
Total Lead	TOTAL-8271-6	< 5.	< 5.	20.57	20.61	20.00	20.00	µg/L	<PQL	0.	20	103.	103.	80 - 120

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-2

Constituents	QC Sample ID	Sample Result	Sample Duplicate	MS Result	MSD Result	MS Spike Level	MSD Spike Level	Units	Sample R.P.D.	Spike R.P.D.	Precision Control Limits	MS % Rec	MSD % Rec	Accuracy Control Limits
Total Manganese	TOTAL-8271-1-0	102.4	102.6	299.4	299.7	200.0	200.0	µg/L	0.	0.	20	99.	99.	80 - 120
Total Mercury	TOTAL-08271-1	< 0.2	< 0.2	1.251	1.184	1.000	1.000	µg/L	<PQL	6.	20	116.	110.	70 - 130
Total Molybdenum	TOTAL-8271-1-0	< 50.	< 50.	217.9	219.2	200.0	200.0	µg/L	<PQL	1.	20	106.	107.	80 - 120
Total Nickel	TOTAL-8271-1-0	< 50.	< 50.	412.7	413.6	400.0	400.0	µg/L	<PQL	0.	20	102.	102.	80 - 120
Total Selenium	DISS-8272-1	< 2.	< 2.	19.72	19.64	20.00	20.00	µg/L	<PQL	0.	20	98.	97.	80 - 120
Total Silver	TOTAL-8271-1-0	< 10.	< 10.	192.3	192.3	200.0	200.0	µg/L	<PQL	0.	20	97.	97.	80 - 120
Total Titanium	TOTAL-8271-1-0	247.1	248.8	574.8	575.9	200.0	200.0	µg/L	1.	0.	20	164.	164.	80 - 120
Total Thallium	TOTAL-8271-6	< 1.	< 1.	23.61	21.88	20.00	20.00	µg/L	<PQL	8.	20	118.	109.	80 - 120
Total Vanadium	TOTAL-8271-1-0	16.	16.8	216.8	216.6	200.0	200.0	µg/L	5.	0.	20	100.	100.	80 - 120
Total Zinc	TOTAL-8271-1-0	36.1	36.5	241.8	242.5	200.0	200.0	µg/L	<PQL	0.	20	103.	103.	80 - 120

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

H Mean - sample concentration is greater than four times the spike level.
The matrix spike recoveries for total titanium are outside QC limits.
The samples were redigested and re-analyzed, not yielding improved recoveries.
The sample reports are flagged accordingly.

Quality Control Officer

Anthony Bonanno

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BOE-C6-0102199

BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-2

Constituents	QC Sample ID	Sample Result	Spike Level	Units	% Rec	Accuracy Control Limits
Dissolved Aluminum	LFB#4-0129	389.9	400.	µg/L	97.	85 - 115
Dissolved Antimony	LFB#4-0129	418.2	400.	µg/L	105.	85 - 115
Dissolved Arsenic	LCSW1-07-2	9.44	10.	µg/L	94.	85 - 115
Dissolved Barium	LFB#4-0129	203.7	200.	µg/L	102.	85 - 115
Dissolved Beryllium	LFB#4-0129	198.5	200.	µg/L	99.	85 - 115
Dissolved Cadmium	LFB#4-0129	206.5	200.	µg/L	103.	85 - 115
Dissolved Chromium	LFB#4-0129	196.8	200.	µg/L	98.	85 - 115
Dissolved Cobalt	LFB#4-0129	209.8	200.	µg/L	105.	85 - 115
Dissolved Copper	LFB#4-0129	202.1	200.	µg/L	101.	85 - 115
Dissolved Lead	LFB-25-LCS	23.07	25.	µg/L	92.	85 - 115
Dissolved Manganese	LFB#4-0129	199.6	200.	µg/L	100.	85 - 115
Dissolved Mercury	LCSW1-07-2	1.099	1.0	µg/L	110.	85 - 115
Dissolved Molybdenum	LFB#4-0129	204.8	200.	µg/L	102.	85 - 115
Dissolved Nickel	LFB#4-0129	402.9	400.	µg/L	101.	85 - 115
Dissolved Selenium	LCSW1-07-2	10.06	10.	µg/L	101.	85 - 115
Dissolved Silver	LFB#4-0129	189.1	200.	µg/L	95.	85 - 115
Dissolved Titanium	LFB#4-0129	196.4	200.	µg/L	98.	85 - 115
Dissolved Thallium	LFB-25-LCS	25.07	25.	µg/L	100.	85 - 115
Dissolved Vanadium	LFB#4-0129	200.	200.	µg/L	100.	85 - 115
Dissolved Zinc	LFB#4-0129	213.6	200.	µg/L	107.	85 - 115
Total Aluminum	TOTAL-LCSW	442.5	400.	µg/L	111.	85 - 115
Total Antimony	TOTAL-LCSW	448.5	400.	µg/L	112.	85 - 115
Total Arsenic	LCSW1-07-2	9.44	10.	µg/L	94.	85 - 115
Total Barium	TOTAL-LCSW	196.	200.	µg/L	98.	85 - 115
Total Beryllium	TOTAL-LCSW	209.3	200.	µg/L	105.	85 - 115
Total Cadmium	TOTAL-LCSW	205.3	200.	µg/L	103.	85 - 115
Total Chromium	TOTAL-LCSW	215.7	200.	µg/L	108.	85 - 115
Total Cobalt	TOTAL-LCSW	216.6	200.	µg/L	108.	85 - 115
Total Copper	TOTAL-LCSW	192.5	200.	µg/L	96.	85 - 115
Total Iron	TOTAL-LCSW	428.4	400.	µg/L	107.	85 - 115
Total Lead	TOTAL-LCSW	20.48	20.	µg/L	102.	85 - 115

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BOE-C6-0102200

BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-2

Constituents	QC Sample ID	Sample Result	Spike Level	Units	% Rec	Accuracy Control Limits
Total Manganese	TOTAL-LCSW	201.1	200.	µg/L	101.	85 - 115
Total Mercury	LCSW2-07-2	1.087	1.0	µg/L	109.	85 - 115
Total Molybdenum	TOTAL-LCSW	222.8	200.	µg/L	111.	85 - 115
Total Nickel	TOTAL-LCSW	428.	400.	µg/L	107.	85 - 115
Total Selenium	LCSW1-07-2	10.06	10.	µg/L	101.	85 - 115
Total Silver	TOTAL-LCSW	203.1	200.	µg/L	102.	85 - 115
Total Titanium	TOTAL-LCSW	203.1	200.	µg/L	102.	85 - 115
Total Thallium	TOTAL-LCSW	23.01	20.	µg/L	115.	85 - 115
Total Vanadium	TOTAL-LCSW	204.1	200.	µg/L	102.	85 - 115
Total Zinc	TOTAL-LCSW	210.8	200.	µg/L	105.	85 - 115

Quality Control Officer

Anthony Bonanno

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BC Laboratories, Inc

BC LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-3

Constituents	ICV % Found	ICV %Found Control Limits	CCV % Found Before	CCV % Found After	% Found Control Limits	CCB Readings Before	Units	CCB Readings After	Units	Method Blank Readings	Units
Dissolved Aluminum	99.	90 - 110	99.	100.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Dissolved Antimony	103.	90 - 110	103.	102.	90 - 110	<100.	µg/L	<100.	µg/L	<100.	µg/L
Dissolved Arsenic	105.	90 - 110	105.	93.	90 - 110	< 1.	µg/L	< 1.	µg/L	< 2.	µg/L
Dissolved Barium	99.	90 - 110	99.	96.	90 - 110	<100.	µg/L	<100.	µg/L	<100.	µg/L
Dissolved Beryllium	97.	90 - 110	97.	97.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Cadmium	99.	90 - 110	99.	98.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Chromium	99.	90 - 110	99.	99.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Cobalt	99.	90 - 110	99.	97.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Dissolved Copper	98.	90 - 110	100.	103.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Lead	100.	90 - 110	92.	98.	80 - 120	< 5.	µg/L	< 5.	µg/L	< 5.	µg/L
Dissolved Manganese	99.	90 - 110	99.	97.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Mercury	103.	90 - 110	103.	98.	80 - 120	< 0.08	µg/L	< 0.08	µg/L	< 0.2	µg/L
Dissolved Molybdenum	97.	90 - 110	97.	97.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Dissolved Nickel	98.	90 - 110	98.	98.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Dissolved Selenium	102.	90 - 110	102.	100.	90 - 110	< 1.	µg/L	< 1.	µg/L	< 2.	µg/L
Dissolved Silver	106.	90 - 110	106.	107.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Titanium	96.	90 - 110	96.	96.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Thallium	101.	90 - 110	103.	108.	80 - 120	< 1.	µg/L	< 1.	µg/L	< 1.	µg/L
Dissolved Vanadium	103.	90 - 110	103.	100.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Dissolved Zinc	100.	90 - 110	100.	99.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Aluminum	102.	90 - 110	103.	103.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Total Antimony	103.	90 - 110	110.	110.	90 - 110	<100.	µg/L	<100.	µg/L	<100.	µg/L
Total Arsenic	105.	90 - 110	93.	105.	90 - 110	< 1.	µg/L	< 1.	µg/L	< 2.	µg/L
Total Barium	98.	90 - 110	97.	97.	90 - 110	<100.	µg/L	<100.	µg/L	<100.	µg/L
Total Beryllium	101.	90 - 110	103.	104.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Cadmium	99.	90 - 110	100.	100.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Chromium	100.	90 - 110	104.	105.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Cobalt	98.	90 - 110	100.	100.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Total Copper	96.	90 - 110	96.	93.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Iron	101.	90 - 110	104.	104.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Total Lead	102.	90 - 110	104.	110.	80 - 120	< 5.	µg/L	< 5.	µg/L	< 5.	µg/L

...ll results listed in this report are for the exclusive use of the submitting party. BC Lab...es, Inc. assumes no responsibility for report alteration, separation, detachment or thi... interpretation.

BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-3

Constituents	ICV % Found	ICV %Found Control Limits	CCV % Found Before	CCV % Found After	% Found Control Limits	CCB Readings Before	Units	CCB Readings After	Units	Method Blank Readings	Units
Total Manganese	98.	90 - 110	99.	99.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Mercury	103.	90 - 110	107.	110.	80 - 120	< 0.08	µg/L	< 0.08	µg/L	< 0.2	µg/L
Total Molybdenum	101.	90 - 110	106.	107.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Total Nickel	102.	90 - 110	105.	105.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L
Total Selenium	102.	90 - 110	100.	100.	90 - 110	< 1.	µg/L	< 1.	µg/L	< 2.	µg/L
Total Silver	97.	90 - 110	97.	100.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Titanium	99.	90 - 110	101.	101.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Thallium	101.	90 - 110	108.	104.	80 - 120	< 1.	µg/L	< 1.	µg/L	< 1.	µg/L
Total Vanadium	104.	90 - 110	104.	104.	90 - 110	<10.	µg/L	<10.	µg/L	<10.	µg/L
Total Zinc	100.	90 - 110	103.	103.	90 - 110	<50.	µg/L	<50.	µg/L	<50.	µg/L

ICV = Initial Calibration Verification; CCV = Continuing Calibration Verification; CCB = Continuing Calibration Blank

Quality Control Officer

Anthony Bonanno

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)

Date of Report: 08/12/99
Sample Matrix: Groundwater

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Samples Affected: 99-08272-3

Constituents	QC Sample ID	Sample Result	Sample Duplicate	MS Result	MSD Result	MS Spike Level	MSD Spike Level	Units	Sample R.P.D.	Spike R.P.D.	Precision Control Limits	MS % Rec	MSD % Rec	Accuracy Control Limits
Dissolved Aluminum	8205-2-Q-C	< 50.	< 50.	430.	414.1	408.2	408.2	µg/L	<PQL	4.	20	110.	106.	85 - 115
Dissolved Antimony	8205-2-Q-C	<100.	<100.	438.6	445.8	408.2	408.2	µg/L	<PQL	2.	20	108.	110.	85 - 115
Dissolved Arsenic	DISS-8272-1	< 2.	< 2.	19.36	20.22	20.00	20.00	µg/L	<PQL	4.	20	97.	101.	80 - 120
Dissolved Barium	8205-2-Q-C	<100.	<100.	236.8	234.3	204.1	204.1	µg/L	<PQL	1.	20	105.	104.	85 - 115
Dissolved Beryllium	8205-2-Q-C	< 10.	< 10.	207.8	206.1	204.1	204.1	µg/L	<PQL	1.	20	102.	101.	85 - 115
Dissolved Cadmium	8205-2-Q-C	< 10.	< 10.	221.6	220.2	204.1	204.1	µg/L	<PQL	1.	20	107.	106.	85 - 115
Dissolved Chromium	8205-2-Q-C	< 10.	5.4	209.9	212.1	204.1	204.1	µg/L	<PQL	1.	20	101.	102.	85 - 115
Dissolved Cobalt	8205-2-Q-C	< 50.	< 50.	218.9	217.	204.1	204.1	µg/L	<PQL	1.	20	108.	107.	85 - 115
Dissolved Copper	DISS-8335-2	< 10.	< 10.	213.	217.3	204.1	204.1	µg/L	<PQL	2.	20	103.	105.	85 - 115
Dissolved Lead	DISS-8271-1	< 5.	< 5.	22.01	22.2	25.00	25.00	µg/L	<PQL	1.	20	88.	89.	85 - 115
Dissolved Manganese	8205-2-Q-C	7.	6.8	222.3	221.	204.1	204.1	µg/L	<PQL	1.	20	106.	105.	85 - 115
Dissolved Mercury	DISS-08272-1	< 0.2	< 0.2	1.02	0.9673	1.000	1.000	µg/L	<PQL	5.	20	100.	95.	70 - 130
Dissolved Molybdenum	8205-2-Q-C	< 50.	< 50.	204.	211.	204.1	204.1	µg/L	<PQL	3.	20	98.	102.	85 - 115
Dissolved Nickel	8205-2-Q-C	< 50.	< 50.	418.	416.4	408.2	408.2	µg/L	<PQL	0.	20	102.	102.	85 - 115
Dissolved Selenium	DISS-8272-1	< 2.	< 2.	19.72	19.64	20.00	20.00	µg/L	<PQL	0.	20	98.	97.	80 - 120
Dissolved Silver	8205-2-Q-C	< 10.	< 10.	213.	214.3	204.1	204.1	µg/L	<PQL	1.	20	110.	110.	85 - 115
Dissolved Titanium	8205-2-Q-C	< 10.	< 10.	204.2	203.2	204.1	204.1	µg/L	<PQL	0.	20	101.	101.	85 - 115
Dissolved Thallium	DISS-8335-1	< 1.	< 1.	23.09	22.22	25.00	25.00	µg/L	<PQL	4.	20	93.	90.	85 - 115
Dissolved Vanadium	8205-2-Q-C	< 10.	5.1	211.8	212.8	204.1	204.1	µg/L	<PQL	0.	20	102.	102.	85 - 115
Dissolved Zinc	8205-2-Q-C	< 50.	< 50.	223.7	222.9	204.1	204.1	µg/L	<PQL	0.	20	109.	108.	85 - 115
Total Aluminum	TOTAL-8271-1-0	4528.	4550.	9194.	9199.	400.0	400.0	µg/L	0.	0.	20	H MEAN	H MEAN	80 - 120
Total Antimony	TOTAL-8271-1-0	<100.	<100.	439.5	436.8	400.0	400.0	µg/L	<PQL	1.	20	111.	110.	80 - 120
Total Arsenic	DISS-8272-1	< 2.	< 2.	19.36	20.22	20.00	20.00	µg/L	<PQL	4.	20	97.	101.	80 - 120
Total Barium	TOTAL-8271-1-0	104.	104.	296.7	297.	200.0	200.0	µg/L	<PQL	0.	20	96.	97.	80 - 120
Total Beryllium	TOTAL-8271-1-0	< 10.	< 10.	205.9	206.3	200.0	200.0	µg/L	<PQL	0.	20	103.	103.	80 - 120
Total Cadmium	TOTAL-8271-1-0	< 10.	< 10.	196.2	197.	200.0	200.0	µg/L	<PQL	0.	20	100.	100.	80 - 120
Total Chromium	TOTAL-8271-1-0	21.4	23.	229.	227.9	200.0	200.0	µg/L	<PQL	0.	20	104.	103.	80 - 120
Total Cobalt	TOTAL-8271-1-0	< 50.	< 50.	209.1	207.8	200.0	200.0	µg/L	<PQL	1.	20	103.	103.	80 - 120
Total Copper	TOTAL-8271-1-0	53.3	57.1	228.5	225.3	200.0	200.0	µg/L	7.	1.	20	88.	86.	80 - 120
Total Iron	TOTAL-8271-1-0	5242.	5261.	6662.	6676.	400.0	400.0	µg/L	0.	0.	20	H MEAN	H MEAN	80 - 120
Total Lead	TOTAL-8271-6	< 5.	< 5.	20.57	20.61	20.00	20.00	µg/L	<PQL	0.	20	103.	103.	80 - 120

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BOE-C6-0102204

BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-3

Constituents	QC Sample ID	Sample Result	Sample Duplicate	MS Result	MSD Result	MS Spike Level	MSD Spike Level	Units	Sample R.P.D.	Spike R.P.D.	Precision Control Limits	MS % Rec	MSD % Rec	Accuracy Control Limits
Total Manganese	TOTAL-8271-1-0	102.4	102.6	299.4	299.7	200.0	200.0	µg/L	0.	0.	20	99.	99.	80 - 120
Total Mercury	TOTAL-08271-1	< 0.2	< 0.2	1.251	1.184	1.000	1.000	µg/L	<PQL	6.	20	116.	110.	70 - 130
Total Molybdenum	TOTAL-8271-1-0	< 50.	< 50.	217.9	219.2	200.0	200.0	µg/L	<PQL	1.	20	106.	107.	80 - 120
Total Nickel	TOTAL-8271-1-0	< 50.	< 50.	412.7	413.6	400.0	400.0	µg/L	<PQL	0.	20	102.	102.	80 - 120
Total Selenium	DISS-8272-1	< 2.	< 2.	19.72	19.64	20.00	20.00	µg/L	<PQL	0.	20	98.	97.	80 - 120
Total Silver	TOTAL-8271-1-0	< 10.	< 10.	192.3	192.3	200.0	200.0	µg/L	<PQL	0.	20	97.	97.	80 - 120
Total Titanium	TOTAL-8271-1-0	247.1	248.8	574.8	575.9	200.0	200.0	µg/L	1.	0.	20	164.	164.	80 - 120
Total Thallium	TOTAL-8271-6	< 1.	< 1.	23.61	21.88	20.00	20.00	µg/L	<PQL	8.	20	118.	109.	80 - 120
Total Vanadium	TOTAL-8271-1-0	16.	16.8	216.8	216.6	200.0	200.0	µg/L	<PQL	0.	20	100.	100.	80 - 120
Total Zinc	TOTAL-8271-1-0	36.1	36.5	241.8	242.5	200.0	200.0	µg/L	<PQL	0.	20	103.	103.	80 - 120

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

H Mean - sample concentration is greater than four times the spike level.
The matrix spike recoveries for total titanium are outside QC limits.
The samples were redigested and re-analyzed, not yielding improved recoveries.
The sample reports are flagged accordingly.

Quality Control Officer

Anthony Bonanno

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-3

Constituents	QC Sample ID	Sample Result	Spike Level	Units	% Rec	Accuracy Control Limits
Dissolved Aluminum	LFB#1-0630	383.3	400.	µg/L	96.	85 - 115
Dissolved Antimony	LFB#1-0630	410.2	400.	µg/L	103.	85 - 115
Dissolved Arsenic	LCSW1-07-2	9.44	10.	µg/L	94.	85 - 115
Dissolved Barium	LFB#1-0630	202.	200.	µg/L	101.	85 - 115
Dissolved Beryllium	LFB#1-0630	191.7	200.	µg/L	96.	85 - 115
Dissolved Cadmium	LFB#1-0630	204.3	200.	µg/L	102.	85 - 115
Dissolved Chromium	LFB#1-0630	191.7	200.	µg/L	96.	85 - 115
Dissolved Cobalt	LFB#1-0630	204.5	200.	µg/L	102.	85 - 115
Dissolved Copper	LFB-1	220.7	200.	µg/L	110.	85 - 115
Dissolved Lead	LFB-25-LCS	23.07	25.	µg/L	92.	85 - 115
Dissolved Manganese	LFB#1-0630	199.8	200.	µg/L	100.	85 - 115
Dissolved Mercury	LCSW1-07-2	1.099	1.0	µg/L	110.	85 - 115
Dissolved Molybdenum	LFB#1-0630	181.8	200.	µg/L	91.	85 - 115
Dissolved Nickel	LFB#1-0630	386.8	400.	µg/L	97.	85 - 115
Dissolved Selenium	LCSW1-07-2	10.06	10.	µg/L	101.	85 - 115
Dissolved Silver	LFB#1-0630	199.9	200.	µg/L	100.	85 - 115
Dissolved Titanium	LFB#1-0630	189.3	200.	µg/L	95.	85 - 115
Dissolved Thallium	LFB-25-LCS	25.07	25.	µg/L	100.	85 - 115
Dissolved Vanadium	LFB#1-0630	193.9	200.	µg/L	97.	85 - 115
Dissolved Zinc	LFB#1-0630	203.8	200.	µg/L	102.	85 - 115
Total Aluminum	TOTAL-LCSW	442.5	400.	µg/L	111.	85 - 115
Total Antimony	TOTAL-LCSW	448.5	400.	µg/L	112.	85 - 115
Total Arsenic	LCSW1-07-2	9.44	10.	µg/L	94.	85 - 115
Total Barium	TOTAL-LCSW	196.	200.	µg/L	98.	85 - 115
Total Beryllium	TOTAL-LCSW	209.3	200.	µg/L	105.	85 - 115
Total Cadmium	TOTAL-LCSW	205.3	200.	µg/L	103.	85 - 115
Total Chromium	TOTAL-LCSW	215.7	200.	µg/L	108.	85 - 115
Total Cobalt	TOTAL-LCSW	216.6	200.	µg/L	108.	85 - 115
Total Copper	TOTAL-LCSW	192.5	200.	µg/L	96.	85 - 115
Total Iron	TOTAL-LCSW	428.4	400.	µg/L	107.	85 - 115
Total Lead	TOTAL-LCSW	20.48	20.	µg/L	102.	85 - 115

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-3

Constituents	QC Sample ID	Sample Result	Spike Level	Units	% Rec	Accuracy Control Limits
Total Manganese	TOTAL-LCSW	201.1	200.	µg/L	101.	85 - 115
Total Mercury	LCSW2-07-2	1.087	1.0	µg/L	109.	85 - 115
Total Molybdenum	TOTAL-LCSW	222.8	200.	µg/L	111.	85 - 115
Total Nickel	TOTAL-LCSW	428.	400.	µg/L	107.	85 - 115
Total Selenium	LCSW1-07-2	10.06	10.	µg/L	101.	85 - 115
Total Silver	TOTAL-LCSW	203.1	200.	µg/L	102.	85 - 115
Total Titanium	TOTAL-LCSW	203.1	200.	µg/L	102.	85 - 115
Total Thallium	TOTAL-LCSW	23.01	20.	µg/L	115.	85 - 115
Total Vanadium	TOTAL-LCSW	204.1	200.	µg/L	102.	85 - 115
Total Zinc	TOTAL-LCSW	210.8	200.	µg/L	105.	85 - 115

Quality Control Officer

Anthony Bonanno

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Preparation & Analysis Information)
METHOD 8015M FUEL FINGERPRINT

ARCADIS GERAGHTY & MILLER,. INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1 - 99-08272-3

Constituents	Preparation Method	Preparation Date	Preparation Technician	Analytical Method	Run Date	Analyst
Stoddard / White Spirits	3510	07/16/99	SLM	8015M	07/21/99	EDW
JP 4	3510	07/16/99	SLM	8015M	07/21/99	EDW
JP 5	3510	07/16/99	SLM	8015M	07/21/99	EDW
JP 6	3510	07/16/99	SLM	8015M	07/21/99	EDW
JP 8	3510	07/16/99	SLM	8015M	07/21/99	EDW
Kerosene / Jet Fuel	3510	07/16/99	SLM	8015M	07/21/99	EDW
Diesel	3510	07/16/99	SLM	8015M	07/21/99	EDW
Crude Oil	3510	07/16/99	SLM	8015M	07/21/99	EDW
Hydraulic Oil	3510	07/16/99	SLM	8015M	07/21/99	EDW
Waste Oil	3510	07/16/99	SLM	8015M	07/21/99	EDW
Motor Oil	3510	07/16/99	SLM	8015M	07/21/99	EDW

Quality Control Officer

Anthony Bonanno

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BOE-C6-0102208

BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
METHOD 8015M FUEL FINGERPRINT

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1 - 99-08272-3

Constituents	Method Blank Readings	Units
Stoddard / White Spirits	<200.	µg/L
JP 4	<1000.	µg/L
JP 5	<1000.	µg/L
JP 6	<1000.	µg/L
JP 8	<200.	µg/L
Kerosene / Jet Fuel	<200.	µg/L
Diesel	<200.	µg/L
Crude Oil	<1000.	µg/L
Hydraulic Oil	<1000.	µg/L
Waste Oil	<1000.	µg/L
Motor Oil	<1000.	µg/L
Surrogate % Recovery	80.	%

Quality Control Officer

Anthony Sonanno

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BC Laboratories, Inc

BC LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)
METHOD 8015M FUEL FINGERPRINT

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1 - 99-08272-3

Constituents	QC Sample ID	Sample Result	MS Result	MSD Result	MS Spike Level	MSD Spike Level	Units	Spike R.P.D.	Precision Control Limits	MS % Rec	MSD % Rec	Accuracy Control Limits
Diesel	EL-105-93-0716	<200.	2290.	2267.	2500.	2500.	µg/L	1.	30	92.	91.	43 - 148
Surrogate % Recovery	MS/MSD									79.	79.	33 - 138

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

Quality Control Officer

Anthony Bonanno

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)
METHOD 8015M FUEL FINGERPRINT

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1 - 99-08272-3

Constituents	QC Sample ID	Sample Result	Spike Level	Units	% Rec	Accuracy Control Limits
Diesel	LCS	2403.	2500.	µg/L	96.	43 - 148
Surrogate % Recovery	LCS				82.	33 - 138

Quality Control Officer

Anthony Bonanno

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BOE-C6-0102211

BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8260

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1 - 99-08272-3, 99-08272-4TB

Constituents	Method Blank Readings	Units
Benzene	< 0.5	µg/L
Bromobenzene	< 0.5	µg/L
Bromochloromethane	< 0.5	µg/L
Bromodichloromethane	< 0.5	µg/L
Bromoform	< 0.5	µg/L
Bromomethane	< 0.5	µg/L
n-Butylbenzene	< 0.5	µg/L
sec-Butylbenzene	< 0.5	µg/L
tert-Butylbenzene	< 0.5	µg/L
Carbon tetrachloride	< 0.5	µg/L
Chlorobenzene	< 0.5	µg/L
Chloroethane	< 0.5	µg/L
2-Chloroethylvinyl ether	<20.	µg/L
Chloroform	< 0.5	µg/L
Chloromethane	< 0.5	µg/L
2-Chlorotoluene	< 0.5	µg/L
4-Chlorotoluene	< 0.5	µg/L
Dibromochloromethane	< 0.5	µg/L
1,2-Dibromo-3-Chloropropane	< 0.5	µg/L
1,2-Dibromoethane	< 0.5	µg/L
Dibromomethane	< 0.5	µg/L
1,2-Dichlorobenzene	< 0.5	µg/L
1,3-Dichlorobenzene	< 0.5	µg/L
1,4-Dichlorobenzene	< 0.5	µg/L
Dichlorodifluoromethane	< 0.5	µg/L
1,1-Dichloroethane	< 0.5	µg/L
1,2-Dichloroethane	< 0.5	µg/L
1,1-Dichloroethene	< 0.5	µg/L
cis-1,2-Dichloroethene	< 0.5	µg/L
trans-1,2-Dichloroethene	< 0.5	µg/L

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8260

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1 - 99-08272-3, 99-08272-4TB

Constituents	Method Blank Readings	Units
1,2-Dichloropropane	< 0.5	µg/L
1,3-Dichloropropane	< 0.5	µg/L
2,2-Dichloropropane	< 0.5	µg/L
1,1-Dichloropropene	< 0.5	µg/L
cis-1,3-Dichloropropene	< 0.5	µg/L
trans-1,3-Dichloropropene	< 0.5	µg/L
Ethyl Benzene	< 0.5	µg/L
Hexachlorobutadiene	< 0.5	µg/L
Isopropylbenzene	< 0.5	µg/L
p-Isopropyltoluene	< 0.5	µg/L
Methylene Chloride	< 0.5	µg/L
Naphthalene	< 0.5	µg/L
n-Propylbenzene	< 0.5	µg/L
Styrene	< 0.5	µg/L
1,1,1,2-Tetrachloroethane	< 0.5	µg/L
1,1,2,2-Tetrachloroethane	< 0.5	µg/L
Tetrachloroethene	< 0.5	µg/L
Toluene	< 0.5	µg/L
1,2,3-Trichlorobenzene	< 0.5	µg/L
1,2,4-Trichlorobenzene	< 0.5	µg/L
1,1,1-Trichloroethane	< 0.5	µg/L
1,1,2-Trichloroethane	< 0.5	µg/L
Trichloroethene	< 0.5	µg/L
Trichlorofluoromethane	< 0.5	µg/L
1,2,3-Trichloropropane	< 0.5	µg/L
1,2,4-Trimethylbenzene	< 0.5	µg/L
1,3,5-Trimethylbenzene	< 0.5	µg/L
Vinyl Chloride	< 0.5	µg/L
Total Xylenes	< 1.	µg/L
1,2-Dichloroethane-d4	99.	%

BOE-C6-0102213

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

BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8260

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1 - 99-08272-3, 99-08272-4TB

Constituents	Method Blank Readings	Units
Toluene-d8	98.	%
4-Bromofluorobenzene	98.	%

The surrogate recoveries for the method blank analyzed on 07/21/99 are as follows (results are none detected):
1,2-Dichloroethane-d4 - 100%
Toluene-d8 - 100%
4-Bromofluorobenzene - 98%
The surrogate recoveries for the method blank analyzed on 07/22/99 are as follows (the results are none detected):
1,2-Dichloroethane-d4 - 98%
Toluene-d8 - 100%
4-Bromofluorobenzene - 101%

Quality Control Officer

Anthony Bonanno

BOE-C6-0102214

.. results listed in this report are for the exclusive use of the submitting party. BC Labo.. ..ies, Inc. assumes no responsibility for report alteration, separation, detachment or third .. interpretation.

BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)
Method 8260

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1 - 99-08272-3, 99-08272-4TB

Constituents	QC Sample ID	Sample Result	MS Result	MSD Result	MS Spike Level	MSD Spike Level	Units	Spike R.P.D.	Precision Control Limits	MS % Rec	MSD % Rec	Accuracy Control Limits
Benzene	8272-3x50	< 25.	760.	803.	800.	800.	µg/L	5.	20	95.	100.	80 - 120
Bromodichloromethane	8272-3x50	< 25.	814.	824.	800.	800.	µg/L	1.	20	102.	103.	80 - 120
Chlorobenzene	8272-3x50	< 25.	793.	811.	800.	800.	µg/L	2.	20	99.	101.	80 - 120
Chloroethane	8272-3x50	66.	836.	887.	800.	800.	µg/L	7.	20	96.	103.	80 - 120
1,4-Dichlorobenzene	8272-3x50	< 25.	803.	824.	800.	800.	µg/L	3.	20	100.	103.	80 - 120
1,1-Dichloroethane	8272-3x50	< 25.	737.	794.	800.	800.	µg/L	7.	20	92.	99.	80 - 120
1,1-Dichloroethene	8272-3x50	< 25.	795.	843.	800.	800.	µg/L	6.	20	99.	105.	80 - 120
Toluene	8272-3x50	25.	761.	771.	800.	800.	µg/L	1.	20	92.	93.	80 - 120
Trichloroethene	8272-3x50	1200.	2116.	2071.	800.	800.	µg/L	4.	20	114.	109.	80 - 120
1,2-Dichloroethane-d4	MS/MSD									94.	100.	76 - 114
Toluene-d8	MS/MSD									101.	102.	88 - 110
4-Bromofluorobenzene	MS/MSD									102.	102.	86 - 115

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

Quality Control Officer

Anthony Bonanno

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

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\JULY99\JULY20\20JULY20.D Vial: 2
Acq On : 20 Jul 1999 8:40 pm Operator: S MAURER
Sample : CCV 2 Inst : MS-V3
Misc : 25 ML 16 UG/L V0-11-4244 Multiplr: 1.00
MS Integration Params: 82604.M

Method : C:\HPCHEM\1\METHODS\82603.M (RTE Integrator)
Title : EPA 8260\524.2
Last Update : Mon Jul 19 21:32:13 1999
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	pentafluorobenzene IS#1	1.000	1.000	0.0	91	0.00
2		dichlorodifluoromethane	0.675	0.809	-19.9	103	0.00
3	P	chloromethane	0.395	0.474	-20.0	100	0.00
4	C	vinyl chloride	0.518	0.575	-11.0	97	0.00
5		bromomethane	0.392	0.395	-0.8	93	0.00
6	M	chloroethane	0.395	0.444	-12.4	97	0.00
7		trichlorofluoromethane	0.854	1.017	-19.1	106	0.00
8		1,1,2-trichloro-1,2,2-trifl	0.977	1.001	-2.5	93	0.00
9	MC	1,1-dichloroethene	0.511	0.541	-5.9	93	0.00
10		methylene chloride	0.544	0.528	2.9	90	0.00
11		MTBE	0.958	0.913	4.7	90	0.00
12		trans-1,2-dichloroethene	0.586	0.589	-0.5	90	0.00
13	MP	1,1-dichloroethane	1.368	1.386	-1.3	89	0.00
14		2,2-dichloropropane	0.958	1.059	-10.5	104	0.00
15		cis-1,2-dichloroethene	0.618	0.638	-3.2	93	0.00
16	C	chloroform	1.224	1.266	-3.4	92	0.00
17		bromochloromethane	0.176	0.178	-1.1	90	0.00
18		1,1,1-trichloroethane	1.036	1.106	-6.8	96	0.00
19		1,1-dichloropropene	1.171	1.254	-7.1	94	0.00
20		carbon tetrachloride	0.783	0.887	-13.3	97	0.00
21	S	1,2-dichloroethane-d4 SMC#1	0.379	0.379	0.0	91	0.00
22		1,2-dichloroethane	0.440	0.486	-10.5	94	0.00
23	M	benzene	2.513	2.601	-3.5	91	0.00
24	I	1,4-difluorobenzene IS#2	1.000	1.000	0.0	86	0.00
25	M	trichloroethene	0.511	0.533	-4.3	93	0.00
26	C	1,2-dichloropropane	0.544	0.577	-6.1	91	0.01
27	M	bromodichloromethane	0.640	0.671	-4.8	92	0.01
28		dibromomethane	0.206	0.224	-8.7	93	0.00
29		2-CEVE	0.067	0.062#	7.5	59	0.00
30		cis-1,3-dichloropropene	0.622	0.664	-6.8	92	0.00
31	S	toluene-d8 SMC#2	1.295	1.316	-1.6	87	0.00
32	MC	toluene	1.060	1.026	3.2	93	0.00
33		trans-1,3-dichloropene	0.409	0.471	-15.2	93	0.00
34		1,1,2-trichloroethane	0.240	0.257	-7.1	92	0.01
35		1,3-dichloropropane	0.462	0.506	-9.5	93	0.00
36		tetrachloroethene	0.425	0.498	-17.2	94	0.01
37		dibromochloromethane	0.258	0.278	-7.8	91	0.00
38		1,2-dibromoethane	0.231	0.261	-13.0	92	0.00
39	I	chlorobenzene-d5 IS#3	1.000	1.000	0.0	88	0.00

(#) = Out of Range

BOE-C6-0102216

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\JULY99\JULY20\20JULY20.D Vial: 2
Acq On : 20 Jul 1999 8:40 pm Operator: S MAURER
Sample : CCV 2 Inst : MS-V3
Misc : 25 ML 16 UG/L V0-11-4244 Multiplr: 1.00
MS Integration Params: 82604.M

Method : C:\HPCHEM\1\METHODS\82603.M (RTE Integrator)
Title : EPA 8260\524.2
Last Update : Mon Jul 19 21:32:13 1999
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	MP	chlorobenzene	3.169	3.275	-3.3	89	0.00
41		1,1,1,2-tetrachloroethane	1.095	1.194	-9.0	89	0.00
42	C	ethylbenzene	7.694	8.298	-7.9	92	0.00
43		m&p-xylene	2.284	2.444	-7.0	92	0.00
44		o-xylene	5.543	5.950	-7.3	92	0.00
45		styrene	3.400	3.632	-6.8	90	0.00
46	P	isopropylbenzene	6.685	7.432	-11.2	94	0.00
47	P	bromoform	0.640	0.714	-11.6	92	0.00
48	P	1,1,2,2-tetrachloroethane	1.236	1.287	-4.1	93	0.00
49	S	4-bromofluorobenzene SMC#3	2.624	2.647	-0.9	88	0.00
50	P	1,2,3-trichloropropane	0.223	0.234	-4.9	92	0.00
51		n-propylbenzene	9.191	10.280	-11.8	94	0.00
52		bromobenzene	1.201	1.248	-3.9	90	0.00
53		1,3,5-trimethylbenzene	4.795	5.273	-10.0	93	0.00
54		2-chlorotoluene	5.913	6.527	-10.4	95	0.00
55		4-chlorotoluene	5.446	5.794	-6.4	90	0.00
56		tert-butylbenzene	4.453	4.830	-8.5	93	0.00
57		1,2,4-trimethylbenzene	4.614	5.071	-9.9	94	0.00
58		sec-butylbenzene	7.238	8.240	-13.8	95	0.00
59		4-isopropyltoluene	4.842	5.290	-9.3	94	0.00
60		1,3-dichlorobenzene	2.124	2.219	-4.5	89	0.00
61	M	1,4-dichlorobenzene	2.037	2.113	-3.7	89	0.00
62		n-butylbenzene	6.294	7.318	-16.3	96	0.00
63		1,2-dichlorobenzene	1.687	1.723	-2.1	89	0.00
64		1,2-dibromo-3-chloropropane	0.188	0.194	-3.2	92	0.00
65		1,2,4-trichlorobenzene	1.374	1.505	-9.5	94	0.00
66		hexachlorobutadiene	1.701	2.021	-18.8	99	0.00
67		naphthalene	0.942	1.076	-14.2	94	0.00
68		1,2,3-trichlorobenzene	1.012	1.179	-16.5	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\JULY99\JULY21\21JULY02.D Vial: 3
Acq On : 21 Jul 1999 7:54 am Operator: S MAURER
Sample : CCV 3 Inst : MS-V3
Misc : 25 ML 16.0 UG/L VB0-11-4244 Multiplr: 1.00
MS Integration Params: 82604.M

Method : C:\HPCHEM\1\METHODS\82603.M (RTE Integrator)
Title : EPA 8260\524.2
Last Update : Mon Jul 19 21:32:13 1999
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	I	pentafluorobenzene IS#1	1.000	1.000	0.0	99	-0.01	
2		dichlorodifluoromethane	0.675	0.785	-16.3	109	-0.01	
3	P	chloromethane	0.395	0.458	-15.9	104	0.00	
4	C	vinyl chloride	0.518	0.557	-7.5	102	0.00	
5		bromomethane	0.392	0.411	-4.8	105	-0.01	
6	M	chloroethane	0.395	0.423	-7.1	100	-0.01	
7		trichlorofluoromethane	0.854	1.016	-19.0	115	0.00	
8		1,1,2-trichloro-1,2,2-trifl	0.977	0.950	2.8	96	-0.01	
9	MC	1,1-dichloroethene	0.511	0.513	-0.4	96	-0.01	
10		methylene chloride	0.544	0.491	9.7	91	0.00	
11		MTBE	0.958	0.772	19.4	82	-0.01	
12		trans-1,2-dichloroethene	0.586	0.556	5.1	92	0.00	
13	MP	1,1-dichloroethane	1.368	1.299	5.0	91	-0.01	
14		2,2-dichloropropane	0.958	1.062	-10.9	114	-0.01	
15		cis-1,2-dichloroethene	0.618	0.581	6.0	92	0.00	
16	C	chloroform	1.224	1.181	3.5	93	0.00	
17		bromochloromethane	0.176	0.155	11.9	85	-0.01	
18		1,1,1-trichloroethane	1.036	1.068	-3.1	101	-0.01	
19		1,1-dichloropropene	1.171	1.200	-2.5	98	-0.01	
20		carbon tetrachloride	0.783	0.843	-7.7	101	-0.01	
21	S	1,2-dichloroethane-d4 SMC#1	0.379	0.346	8.7	90	-0.01	
22		1,2-dichloroethane	0.440	0.428	2.7	90	-0.01	
23	M	benzene	2.513	2.373	5.6	91	-0.01	
24	I	1,4-difluorobenzene IS#2	1.000	1.000	0.0	89	-0.01	
25	M	trichloroethene	0.511	0.527	-3.1	96	0.00	
26	C	1,2-dichloropropane	0.544	0.543	0.2	89	-0.01	
27	M	bromodichloromethane	0.640	0.636	0.6	91	-0.01	
28		dibromomethane	0.206	0.200	2.9	86	-0.01	
29		2-CEVE	0.067	0.038#	56% ~~43.3#~~	37#	-0.02	LR
30		cis-1,3-dichloropropene	0.622	0.623	-0.2	90	-0.02	
31	S	toluene-d8 SMC#2	1.295	1.311	-1.2	90	-0.01	
32	MC	toluene	1.060	0.931	4.8 ~~12.2~~	87	0.00	LR
33		trans-1,3-dichloropene	0.409	0.423	-3.4	87	-0.01	
34		1,1,2-trichloroethane	0.240	0.225	6.2	84	-0.02	
35		1,3-dichloropropane	0.462	0.447	3.2	85	-0.01	
36		tetrachloroethene	0.425	0.480	-12.9	94	-0.01	
37		dibromochloromethane	0.258	0.253	1.9	86	0.00	
38		1,2-dibromoethane	0.231	0.229	0.9	84	-0.01	
39	I	chlorobenzene-d5 IS#3	1.000	1.000	0.0	89	0.00	
40	MP	chlorobenzene	3.169	3.188	-0.6	88	-0.01	
41		1,1,1,2-tetrachloroethane	1.095	1.155	-5.5	88	-0.01	
42	C	ethylbenzene	7.694	8.233	-7.0	93	-0.01	
43		m&p-xylene	2.284	2.427	-6.3	93	-0.01	

7-21-99

44		o-xylene	5.543	5.868	-5.9	93	0.00
45		styrene	3.400	3.506	-3.1	89	0.00
46	P	isopropylbenzene	6.685	7.379	-10.4	95	0.00
47	P	bromoform	0.640	0.639	0.2	84	0.00
48	P	1,1,2,2-tetrachloroethane	1.236	1.150	7.0	85	0.00
49	S	4-bromofluorobenzene SMC#3	2.624	2.639	-0.6	89	0.00
50	P	1,2,3-trichloropropane	0.223	0.206	7.6	83	0.00
51		n-propylbenzene	9.191	10.182	-10.8	95	0.00
52		bromobenzene	1.201	1.197	0.3	88	0.00
53		1,3,5-trimethylbenzene	4.795	5.210	-8.7	93	-0.01
54		2-chlorotoluene	5.913	6.474	-9.5	96	0.00
55		4-chlorotoluene	5.446	5.660	-3.9	90	-0.01
56		tert-butylbenzene	4.453	4.846	-8.8	95	-0.01
57		1,2,4-trimethylbenzene	4.614	5.074	-10.0	96	-0.01
58		sec-butylbenzene	7.238	8.264	-14.2	97	0.00
59		4-isopropyltoluene	4.842	5.295	-9.4	96	-0.01
60		1,3-dichlorobenzene	2.124	2.193	-3.2	90	0.00
61	M	1,4-dichlorobenzene	2.037	2.076	-1.9	89	-0.01
62		n-butylbenzene	6.294	7.380	-17.3	98	0.00
63		1,2-dichlorobenzene	1.687	1.666	1.2	88	-0.01
64		1,2-dibromo-3-chloropropane	0.188	0.176	6.4	85	-0.01
65		1,2,4-trichlorobenzene	1.374	1.443	-5.0	92	0.00
66		hexachlorobutadiene	1.701	2.066	-21.5#	103	-0.01
67		naphthalene	0.942	0.984	-4.5	87	-0.01
68		1,2,3-trichlorobenzene	1.012	1.082	-6.9	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

19JULY17.D 82603.M Wed Jul 21 08:36:39 1999

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\JULY99\JULY21\21JULY20.D Vial: 2
Acq On : 21 Jul 1999 7:20 pm Operator: S MAURER
Sample : ccv 4 Inst : MS-V3
Misc : 25 ml 16.0 ug/l V0-11-4244 Multiplr: 1.00
MS Integration Params: 82604.M

Method : C:\HPCHEM\1\METHODS\82603.M (RTE Integrator)
Title : EPA 8260\524.2
Last Update : Mon Jul 19 21:32:13 1999
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

CL 7-21-99

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	I	pentafluorobenzene IS#1	1.000	1.000	0.0	84	0.00	
2		dichlorodifluoromethane	0.675	0.778	-15.3	92	0.00	
3	P	chloromethane	0.395	0.429	-8.6	83	0.01	
4	C	vinyl chloride	0.518	0.530	-2.3	83	0.00	
5		bromomethane	0.392	0.404	-3.1	88	0.00	
6	M	chloroethane	0.395	0.423	-7.1	86	0.00	
7		trichlorofluoromethane	0.854	0.974	-14.1	94	0.00	
8		1,1,2-trichloro-1,2,2-trifl	0.977	0.953	2.5	82	0.00	
9	MC	1,1-dichloroethene	0.511	0.515	-0.8	82	0.00	
10		methylene chloride	0.544	0.496	8.8	78	0.00	
11		MTBE	0.958	0.871	9.1	79	0.00	
12		trans-1,2-dichloroethene	0.586	0.560	4.4	79	0.00	
13	MP	1,1-dichloroethane	1.368	1.316	3.8	79	-0.01	
14		2,2-dichloropropane	0.958	0.944	1.5	86	0.00	
15		cis-1,2-dichloroethene	0.618	0.625	-1.1	84	0.00	
16	C	chloroform	1.224	1.237	-1.1	83	0.00	
17		bromochloromethane	0.176	0.174	1.1	81	0.00	
18		1,1,1-trichloroethane	1.036	1.093	-5.5	88	0.00	
19		1,1-dichloropropene	1.171	1.198	-2.3	83	0.00	
20		carbon tetrachloride	0.783	0.879	-12.3	89	0.00	
21	S	1,2-dichloroethane-d4 SMC#1	0.379	0.383	-1.1	85	0.00	
22		1,2-dichloroethane	0.440	0.489	-11.1	88	0.00	
23	M	benzene	2.513	2.523	-0.4	82	-0.01	
24	I	1,4-difluorobenzene IS#2	1.000	1.000	0.0	77	0.00	
25	M	trichloroethene	0.511	0.542	-6.1	85	-0.01	
26	C	1,2-dichloropropane	0.544	0.584	-7.4	83	0.00	
27	M	bromodichloromethane	0.640	0.693	-8.3	86	0.00	
28		dibromomethane	0.206	0.227	-10.2	85	-0.01	
29		2-CEVE	0.067	0.055#	35# ~~17.9~~	47#	0.00	LR
30		cis-1,3-dichloropropene	0.622	0.665	-6.9	83	0.00	
31	S	toluene-d8 SMC#2	1.295	1.352	-4.4	80	0.00	
32	MC	toluene	1.060	0.981	-0.3 ~~7.5~~	80	0.00	LR
33		trans-1,3-dichloropene	0.409	0.475	-16.1	84	0.00	
34		1,1,2-trichloroethane	0.240	0.260	-8.3	84	0.00	
35		1,3-dichloropropane	0.462	0.517	-11.9	85	0.00	
36		tetrachloroethene	0.425	0.500	-17.6	85	0.00	
37		dibromochloromethane	0.258	0.289	-12.0	85	0.00	
38		1,2-dibromoethane	0.231	0.266	-15.2	84	0.00	
39	I	chlorobenzene-d5 IS#3	1.000	1.000	0.0	80	0.00	

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\JULY99\JULY21\21JULY20.D Vial: 2
Acq On : 21 Jul 1999 7:20 pm Operator: S MAURER
Sample : ccv 4 Inst : MS-V3
Misc : 25 ml 16.0 ug/l V0-11-4244 Multiplr: 1.00
MS Integration Params: 82604.M

Method : C:\HPCHEM\1\METHODS\82603.M (RTE Integrator)
Title : EPA 8260\524.2
Last Update : Mon Jul 19 21:32:13 1999
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	MP	chlorobenzene	3.169	3.208	-1.2	80	0.00
41		1,1,1,2-tetrachloroethane	1.095	1.226	-12.0	84	0.00
42	C	ethylbenzene	7.694	8.218	-6.8	83	0.00
43		m&p-xylene	2.284	2.408	-5.4	82	0.00
44		o-xylene	5.543	5.899	-6.4	83	0.00
45		styrene	3.400	3.589	-5.6	81	0.00
46	P	isopropylbenzene	6.685	7.374	-10.3	85	0.00
47	P	bromoform	0.640	0.710	-10.9	83	0.00
48	P	1,1,2,2-tetrachloroethane	1.236	1.281	-3.6	84	0.00
49	S	4-bromofluorobenzene SMC#3	2.624	2.650	-1.0	80	0.00
50	P	1,2,3-trichloropropane	0.223	0.232	-4.0	83	0.00
51		n-propylbenzene	9.191	10.160	-10.5	85	0.00
52		bromobenzene	1.201	1.262	-5.1	83	0.00
53		1,3,5-trimethylbenzene	4.795	5.264	-9.8	85	0.00
54		2-chlorotoluene	5.913	6.251	-5.7	83	0.00
55		4-chlorotoluene	5.446	6.014	-10.4	86	0.00
56		tert-butylbenzene	4.453	4.788	-7.5	84	0.00
57		1,2,4-trimethylbenzene	4.614	5.064	-9.8	86	0.00
58		sec-butylbenzene	7.238	8.184	-13.1	86	0.00
59		4-isopropyltoluene	4.842	5.262	-8.7	85	0.00
60		1,3-dichlorobenzene	2.124	2.168	-2.1	80	0.00
61	M	1,4-dichlorobenzene	2.037	2.090	-2.6	81	0.00
62		n-butylbenzene	6.294	7.213	-14.6	86	0.00
63		1,2-dichlorobenzene	1.687	1.724	-2.2	82	0.00
64		1,2-dibromo-3-chloropropane	0.188	0.198	-5.3	86	0.00
65		1,2,4-trichlorobenzene	1.374	1.510	-9.9	86	0.00
66		hexachlorobutadiene	1.701	1.970	-15.8	88	0.00
67		naphthalene	0.942	1.071	-13.7	85	0.00
68		1,2,3-trichlorobenzene	1.012	1.177	-16.3	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

BOE-C6-0102221

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\JULY99\JULY21\21JULY38.D Vial: 2
Acq On : 22 Jul 1999 6:48 am Operator: C CARDOZA
Sample : CCV 5 Inst : MS-V3
Misc : 25 ML 16 UG/L VO-11-4244 Multiplr: 1.00
MS Integration Params: 82604.M

Method : C:\HPCHEM\1\METHODS\82603.M (RTE Integrator)
Title : EPA 8260\524.2
Last Update : Mon Jul 19 21:32:13 1999
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(min)	
1	I	pentafluorobenzene IS#1	1.000	1.000		0.0	83	-0.01	
2		dichlorodifluoromethane	0.675	0.697		-3.3	82	-0.01	
3	P	chloromethane	0.395	0.389		1.5	75	0.00	
4	C	vinyl chloride	0.518	0.491		5.2	76	0.00	
5		bromomethane	0.392	0.388		1.0	83	-0.01	
6	M	chloroethane	0.395	0.393		0.5	79	-0.01	
7		trichlorofluoromethane	0.854	0.919		-7.6	88	0.00	
8		1,1,2-trichloro-1,2,2-trifl	0.977	0.886		9.3	76	-0.01	
9	MC	1,1-dichloroethene	0.511	0.490		4.1	77	-0.01	
10		methylene chloride	0.544	0.492		9.6	77	-0.01	
11		MTBE	0.958	0.796		16.9	72	-0.02	
12		trans-1,2-dichloroethene	0.586	0.528		9.9	74	-0.01	
13	MP	1,1-dichloroethane	1.368	1.228		10.2	73	-0.02	
14		2,2-dichloropropane	0.958	0.866		9.6	78	0.00	
15		cis-1,2-dichloroethene	0.618	0.573		7.3	76	-0.01	
16	C	chloroform	1.224	1.139		6.9	76	-0.01	
17		bromochloromethane	0.176	0.155		11.9	72	-0.01	
18		1,1,1-trichloroethane	1.036	1.028		0.8	82	-0.01	
19		1,1-dichloropropene	1.171	1.107		5.5	76	-0.01	
20		carbon tetrachloride	0.783	0.825		-5.4	83	0.00	
21	S	1,2-dichloroethane-d4 SMC#1	0.379	0.368		2.9	81	-0.02	
22		1,2-dichloroethane	0.440	0.443		-0.7	79	-0.01	
23	M	benzene	2.513	2.298		8.6	74	-0.02	
24	I	1,4-difluorobenzene IS#2	1.000	1.000		0.0	74	-0.01	
25	M	trichloroethene	0.511	0.530		-3.7	80	-0.01	
26	C	1,2-dichloropropane	0.544	0.565		-3.9	77	-0.01	
27	M	bromodichloromethane	0.640	0.670		-4.7	79	-0.01	
28		dibromomethane	0.206	0.213		-3.4	76	-0.02	
29		2-CEVE	0.067	0.050	41.4*	25.4#	40	-0.01	LR
30		cis-1,3-dichloropropene	0.622	0.636		-2.3	76	-0.03	
31	S	toluene-d8 SMC#2	1.295	1.335		-3.1	76	-0.02	
32	MC	toluene	1.060	0.933	4.6	12.0	72	0.00	LR
33		trans-1,3-dichloropene	0.409	0.431		-5.4	73	0.00	
34		1,1,2-trichloroethane	0.240	0.239		0.4	73	-0.01	
35		1,3-dichloropropane	0.462	0.472		-2.2	74	-0.02	
36		tetrachloroethene	0.425	0.466		-9.6	75	-0.01	
37		dibromochloromethane	0.258	0.265		-2.7	75	-0.02	
38		1,2-dibromoethane	0.231	0.242		-4.8	73	-0.01	
39	I	chlorobenzene-d5 IS#3	1.000	1.000		0.0	74	-0.01	
40	MP	chlorobenzene	3.169	3.111		1.8	72	-0.01	
41		1,1,1,2-tetrachloroethane	1.095	1.164		-6.3	74	-0.02	
42	C	ethylbenzene	7.694	8.074		-4.9	76	-0.01	
43		m&p-xylene	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	

44		o-xylene	5.543	5.787	-4.4	76	-0.01
45		styrene	3.400	3.494	-2.8	73	-0.01
46	P	isopropylbenzene	6.685	7.190	-7.6	77	-0.01
47	P	bromoform	0.640	0.681	-6.4	74	0.00
48	P	1,1,2,2-tetrachloroethane	1.236	1.240	-0.3	76	-0.01
49	S	4-bromofluorobenzene SMC#3	2.624	2.734	-4.2	77	-0.01
50	P	1,2,3-trichloropropane	0.223	0.220	1.3	73	-0.01
51		n-propylbenzene	9.191	9.908	-7.8	77	0.00
52		bromobenzene	1.201	1.231	-2.5	75	-0.01
53		1,3,5-trimethylbenzene	4.795	5.140	-7.2	76	-0.01
54		2-chlorotoluene	5.913	6.193	-4.7	76	-0.01
55		4-chlorotoluene	5.446	5.809	-6.7	76	-0.01
56		tert-butylbenzene	4.453	4.680	-5.1	76	-0.01
57		1,2,4-trimethylbenzene	4.614	4.968	-7.7	78	-0.01
58		sec-butylbenzene	7.238	8.023	-10.8	78	-0.01
59		4-isopropyltoluene	4.842	5.200	-7.4	78	-0.01
60		1,3-dichlorobenzene	2.124	2.147	-1.1	73	-0.01
61	M	1,4-dichlorobenzene	2.037	2.031	0.3	72	-0.01
62		n-butylbenzene	6.294	7.059	-12.2	78	-0.01
63		1,2-dichlorobenzene	1.687	1.692	-0.3	74	-0.01
64		1,2-dibromo-3-chloropropane	0.188	0.187	0.5	75	-0.01
65		1,2,4-trichlorobenzene	1.374	1.502	-9.3	79	-0.01
66		hexachlorobutadiene	1.701	2.004	-17.8	82	-0.01
67		naphthalene	0.942	1.026	-8.9	75	-0.01
68		1,2,3-trichlorobenzene	1.012	1.147	-13.3	79	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
19JULY17.D 82603.M Thu Jul 22 07:36:32 1999

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\JULY99\JULY22\22JULY17.D Vial: 2
Acq On : 22 Jul 1999 6:44 pm Operator: C CARDOZA
Sample : CCV 6 Inst : MS-V3
Misc : 25 ML 16 UG/L VO-11-4244 Multiplr: 1.00
MS Integration Params: 82604.M

Method : C:\HPCHEM\1\METHODS\82603.M (RTE Integrator)
Title : EPA 8260\524.2
Last Update : Mon Jul 19 21:32:13 1999
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	pentafluorobenzene IS#1	1.000	1.000	0.0	78	0.00
2		dichlorodifluoromethane	0.675	0.667	1.2	73	0.00
3	P	chloromethane	0.395	0.415	-5.1	75	0.01
4	C	vinyl chloride	0.518	0.525	-1.4	76	0.00
5		bromomethane	0.392	0.412	-5.1	83	0.00
6	M	chloroethane	0.395	0.430	-8.9	81	0.00
7		trichlorofluoromethane	0.854	0.996	-16.6	89	0.00
8		1,1,2-trichloro-1,2,2-trifl	0.977	0.953	2.5	76	0.00
9	MC	1,1-dichloroethene	0.511	0.538	-5.3	79	-0.01
10		methylene chloride	0.544	0.534	1.8	78	-0.01
11		MTBE	0.958	0.976	-1.9	82	-0.01
12		trans-1,2-dichloroethene	0.586	0.588	-0.3	77	0.00
13	MP	1,1-dichloroethane	1.368	1.373	-0.4	76	-0.01
14		2,2-dichloropropane	0.958	0.989	-3.2	84	0.00
15		cis-1,2-dichloroethene	0.618	0.603	2.4	75	0.00
16	C	chloroform	1.224	1.198	2.1	75	-0.01
17		bromochloromethane	0.176	0.171	2.8	74	-0.01
18		1,1,1-trichloroethane	1.036	1.076	-3.9	80	-0.01
19		1,1-dichloropropene	1.171	1.123	4.1	72	-0.01
20		carbon tetrachloride	0.783	0.910	-16.2	86	-0.02
21	S	1,2-dichloroethane-d4 SMC#1	0.379	0.399	-5.3	82	-0.03
22		1,2-dichloroethane	0.440	0.532	-20.9#	88	-0.02
23	M	benzene	2.513	2.616	-4.1	79	-0.02
24	I	1,4-difluorobenzene IS#2	1.000	1.000	0.0	72	-0.02
25	M	trichloroethene	0.511	0.559	-9.4	82	-0.02
26	C	1,2-dichloropropane	0.544	0.614	-12.9	82	-0.01
27	M	bromodichloromethane	0.640	0.725	-13.3	84	-0.01
28		dibromomethane	0.206	0.246	-19.4	86	-0.02
29		2-CEVE	0.067	0.069#	-3.0	54	-0.02
30		cis-1,3-dichloropropene	0.622	0.709	-14.0	83	-0.02
31	S	toluene-d8 SMC#2	1.295	1.353	-4.5	75	-0.02
32	MC	toluene	1.060	1.011	4.6	77	-0.02
33		trans-1,3-dichloropene	0.409	0.515	-25.9#	85	-0.01
34		1,1,2-trichloroethane	0.240	0.286	-19.2	86	-0.03
35		1,3-dichloropropane	0.462	0.565	-22.3#	87	-0.01
36		tetrachloroethene	0.425	0.515	-21.2#	82	-0.02
37		dibromochloromethane	0.258	0.314	-21.7#	87	-0.01
38		1,2-dibromoethane	0.231	0.292	-26.4#	87	-0.02
39	I	chlorobenzene-d5 IS#3	1.000	1.000	0.0	76	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\JULY99\JULY22\22JULY17.D Vial: 2
Acq On : 22 Jul 1999 6:44 pm Operator: C CARDOZA
Sample : CCV 6 Inst : MS-V3
Misc : 25 ML 16 UG/L VO-11-4244 Multiplr: 1.00
MS Integration Params: 82604.M

Method : C:\HPCHEM\1\METHODS\82603.M (RTE Integrator)
Title : EPA 8260\524.2
Last Update : Mon Jul 19 21:32:13 1999
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	MP	chlorobenzene	3.169	3.296	-4.0	78	-0.02
41		1,1,1,2-tetrachloroethane	1.095	1.275	-16.4	83	-0.01
42	C	ethylbenzene	7.694	8.562	-11.3	83	-0.02
43		m&p-xylene	2.284	2.495	-9.2	81	-0.01
44		o-xylene	5.543	6.221	-12.2	83	-0.01
45		styrene	3.400	3.815	-12.2	82	-0.01
46	P	isopropylbenzene	6.685	7.678	-14.9	84	-0.01
47	P	bromoform	0.640	0.794	-24.1#	89	0.00
48	P	1,1,2,2-tetrachloroethane	1.236	1.442	-16.7	90	0.00
49	S	4-bromofluorobenzene SMC#3	2.624	2.670	-1.8	77	0.00
50	P	1,2,3-trichloropropane	0.223	0.264	-18.4	90	-0.01
51		n-propylbenzene	9.191	10.743	-16.9	85	0.00
52		bromobenzene	1.201	1.318	-9.7	83	0.00
53		1,3,5-trimethylbenzene	4.795	5.551	-15.8	85	-0.01
54		2-chlorotoluene	5.913	6.554	-10.8	83	-0.01
55		4-chlorotoluene	5.446	6.388	-17.3	86	-0.01
56		tert-butylbenzene	4.453	5.014	-12.6	83	-0.01
57		1,2,4-trimethylbenzene	4.614	5.381	-16.6	86	-0.01
58		sec-butylbenzene	7.238	8.648	-19.5	86	0.00
59		4-isopropyltoluene	4.842	5.639	-16.5	87	-0.01
60		1,3-dichlorobenzene	2.124	2.318	-9.1	81	-0.01
61	M	1,4-dichlorobenzene	2.037	2.236	-9.8	82	-0.01
62		n-butylbenzene	6.294	7.769	-23.4#	88	0.00
63		1,2-dichlorobenzene	1.687	1.833	-8.7	82	-0.01
64		1,2-dibromo-3-chloropropane	0.188	0.226	-20.2#	93	-0.01
65		1,2,4-trichlorobenzene	1.374	1.642	-19.5	89	0.00
66		hexachlorobutadiene	1.701	2.081	-22.3#	88	0.00
67		naphthalene	0.942	1.223	-29.8#	92	0.00
68		1,2,3-trichlorobenzene	1.012	1.304	-28.9#	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Response Factor Report MS-V3

Method : C:\HPCHEM\1\METHODS\82603.M (RTE Integrator)
Title : EPA 8260\524.2
Last Update : Mon Jul 19 21:30:29 1999
Response via : Initial Calibration VO-11-4274

Calibration Files
1 =19JULY12.D 2 =19JULY14.D 3 =19JULY16.D
4 =19JULY17.D 5 =19JULY18.D 6 =19JULY19.D

		Compound	1	2	3	4	5	6	Avg	%RSD	
1)	I	pentafluorobenzene IS	----------ISTD----------								
2)		dichlorodifluoromet	0.648	0.664	0.690	0.711	0.662	0.676	0.675	3.33	
3)	P	chloromethane	0.385	0.369	0.421	0.433	0.383	0.378	0.395	6.58	
4)	C	vinyl chloride	0.485	0.543	0.564	0.539	0.489	0.491	0.518	6.54	
5)		bromomethane	0.420	0.390	0.408	0.388	0.358	0.389	0.392	5.44	
6)	M	chloroethane	0.363	0.394	0.422	0.416	0.379	0.398	0.395	5.64	
7)		trichlorofluorometh	0.800	0.866	0.911	0.872	0.833	0.844	0.854	4.42	
8)		1,1,2-trichloro-1,2	0.966	0.995	1.039	0.978	0.928	0.953	0.977	3.91	
9)	MC	1,1-dichloroethene	0.481	0.517	0.542	0.532	0.487	0.510	0.511	4.71	
10)		methylene chloride		0.557	0.564	0.535	0.512	0.551	0.544	3.82	
11)		MTBE	1.044	0.974	0.885	0.926	0.925	0.993	0.958	5.93	
12)		trans-1,2-dichloroe	0.579	0.583	0.609	0.595	0.560	0.588	0.586	2.81	
13)	MP	1,1-dichloroethane	1.419	1.337	1.321	1.410	1.351	1.368	1.368	2.89	
14)		2,2-dichloropropane	1.081	0.991	0.987	0.922	0.890	0.877	0.958	8.04	
15)		cis-1,2-dichloroeth	0.610	0.598	0.659	0.626	0.607	0.605	0.618	3.66	
16)	C	chloroform	1.262	1.171	1.214	1.254	1.199	1.242	1.224	2.87	
17)		bromochloromethane		0.167	0.175	0.180	0.176	0.182	0.176	3.29	
18)		1,1,1-trichloroetha	1.038	1.022	1.081	1.044	1.002	1.030	1.036	2.57	
19)		1,1-dichloropropene	1.111	1.160	1.209	1.213	1.152	1.179	1.171	3.26	
20)		carbon tetrachlorid	0.683	0.781	0.839	0.829	0.767	0.799	0.783	7.17	
21)	S	1,2-dichloroethane-	0.369	0.408	0.367	0.381	0.373	0.374	0.379	4.05	
22)		1,2-dichloroethane	0.368	0.435	0.460	0.470	0.445	0.459	0.440	8.45	
23)	M	benzene	2.667	2.469	2.442	2.588	2.425	2.486	2.513	3.76	
24)	I	1,4-difluorobenzene I	----------ISTD----------								
25)	M	trichloroethene	0.621	0.470	0.521	0.492	0.468	0.495	0.511	11.16	
26)	C	1,2-dichloropropane	0.539	0.522	0.569	0.544	0.526	0.561	0.544	3.47	
27)	M	bromodichloromethan	0.634	0.610	0.662	0.626	0.635	0.670	0.640	3.53	
28)		dibromomethane		0.193	0.207	0.208	0.211	0.210	0.206	3.65	
29)		2-CEVE	0.019	0.054		0.092	0.088	0.082	0.067#	45.68	LR
30)		cis-1,3-dichloropro	0.578	0.593	0.652	0.619	0.625	0.667	0.622	5.43	
31)	S	toluene-d8 SMC#2	1.266	1.279	1.295	1.302	1.311	1.318	1.295	1.50	
32)	MC	toluene	1.412	1.037	1.005	0.951	0.971	0.986	1.060	16.50	LR
33)		trans-1,3-dichlorop	0.336	0.389	0.424	0.437	0.424	0.443	0.409	9.91	
34)		1,1,2-trichloroetha		0.222	0.240	0.240	0.243	0.256	0.240	5.05	
35)		1,3-dichloropropane	0.437	0.442	0.478	0.468	0.459	0.486	0.462	4.18	
36)		tetrachloroethene	0.379	0.407	0.460	0.456	0.420	0.429	0.425	7.17	
37)		dibromochloromethan		0.235	0.256	0.263	0.267	0.269	0.258	5.25	
38)		1,2-dibromoethane	0.182	0.223	0.241	0.244	0.246	0.252	0.231	11.26	
39)	I	chlorobenzene-d5 IS#3	----------ISTD----------								
40)	MP	chlorobenzene	3.224	3.016	3.165	3.217	3.127	3.265	3.169	2.82	
41)		1,1,1,2-tetrachloro	0.931	1.039	1.185	1.172	1.112	1.133	1.095	8.74	
42)	C	ethylbenzene	8.257	7.067	7.758	7.878	7.487	7.718	7.694	5.17	
43)		m&p-xylene	2.404	2.203	2.239	2.341	2.215	2.305	2.284	3.47	
44)		o-xylene	5.907	5.212	5.542	5.664	5.379	5.553	5.543	4.30	
45)		styrene	3.358	3.168	3.372	3.527	3.421	3.553	3.400	4.09	
46)	P	isopropylbenzene	6.763	6.172	6.865	6.946	6.595	6.768	6.685	4.15	
47)	P	bromoform	[illegible]								

48)	P	1,1,2,2-tetrachloro	1.205	1.183	1.260	1.215	1.230	1.324	1.236	4.07
49)	S	4-bromofluorobenzen	2.592	2.588	2.624	2.642	2.605	2.692	2.624	1.50
50)	P	1,2,3-trichloroprop		0.199	0.219	0.223	0.232	0.241	0.223	7.26
51)		n-propylbenzene	9.627	8.205	9.470	9.566	9.015	9.260	9.191	5.79
52)		bromobenzene	1.175	1.169	1.249	1.211	1.154	1.245	1.201	3.39
53)		1,3,5-trimethylbenz	4.939	4.508	4.828	4.980	4.697	4.821	4.795	3.59
54)		2-chlorotoluene	6.138	5.523	5.857	5.996	5.906	6.057	5.913	3.65
55)		4-chlorotoluene	6.328	4.728	5.408	5.622	5.203	5.389	5.446	9.67
56)		tert-butylbenzene	4.777	4.228	4.392	4.560	4.332	4.431	4.453	4.32
57)		1,2,4-trimethylbenz	4.786	4.351	4.643	4.735	4.518	4.651	4.614	3.43
58)		sec-butylbenzene	7.072	6.617	7.535	7.630	7.214	7.361	7.238	5.06
59)		4-isopropyltoluene	5.054	4.606	4.910	4.942	4.711	4.828	4.842	3.36
60)		1,3-dichlorobenzene	2.007	2.017	2.169	2.181	2.144	2.225	2.124	4.26
61)	M	1,4-dichlorobenzene	1.888	1.969	2.117	2.074	2.043	2.128	2.037	4.55
62)		n-butylbenzene	6.074	5.667	6.494	6.695	6.337	6.496	6.294	5.88
63)		1,2-dichlorobenzene	1.543	1.618	1.752	1.692	1.713	1.800	1.687	5.50
64)		1,2-dibromo-3-chlor	0.169	0.188	0.189	0.184	0.197	0.201	0.188	5.94
65)		1,2,4-trichlorobenz	1.224	1.300	1.406	1.405	1.432	1.479	1.374	6.84
66)		hexachlorobutadiene	1.603	1.623	1.743	1.800	1.660	1.775	1.701	4.89
67)		naphthalene	0.726	0.847	0.923	1.007	1.049	1.101	0.942	14.80
68)		1,2,3-trichlorobenz	0.861	0.959	1.023	1.068	1.061	1.099	1.012	8.71

(#) = Out of Range

82603.M Mon Jul 19 21:30:42 1999

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\JULY99\JULY19\19JULY23.D Vial: 2
Acq On : 19 Jul 1999 10:57 pm Operator: C CARDOZA
Sample : ICVA 16 UG/L Inst : MS-V3
Misc : 25 ML VO-11-4275 Multiplr: 1.00
MS Integration Params: 82604.M

Method : C:\HPCHEM\1\METHODS\82603.M (RTE Integrator)
Title : EPA 8260\524.2
Last Update : Mon Jul 19 21:32:13 1999
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	I	pentafluorobenzene IS#1	1.000	1.000	0.0	96	0.00	
2		dichlorodifluoromethane	0.675	0.789	-16.9	106	0.00	
3	P	chloromethane	0.395	0.441	-11.6	98	0.00	
4	C	vinyl chloride	0.518	0.620	-19.7	110	0.00	
5		bromomethane	0.392	0.489	-24.7#	121	0.00	
6	M	chloroethane	0.395	0.466	-18.0	107	0.00	
7		trichlorofluoromethane	0.854	1.050	-23.0#	115	0.00	
8		1,1,2-trichloro-1,2,2-trifl	0.977	1.066	-9.1	105	0.00	
9	MC	1,1-dichloroethene	0.511	0.516	-1.0	93	0.00	
10		methylene chloride	0.544	0.523	3.9	94	0.00	
11		MTBE	0.958	0.883	7.8	91	0.00	
12		trans-1,2-dichloroethene	0.586	0.575	1.9	93	0.00	
13	MP	1,1-dichloroethane	1.368	1.373	-0.4	93	0.00	
14		2,2-dichloropropane	0.958	1.078	-12.5	112	0.00	
15		cis-1,2-dichloroethene	0.618	0.603	2.4	92	0.00	
16	C	chloroform	1.224	1.243	-1.6	95	0.00	
17		bromochloromethane	0.176	0.172	2.3	92	0.00	
18		1,1,1-trichloroethane	1.036	1.050	-1.4	96	0.00	
19		1,1-dichloropropene	1.171	1.228	-4.9	97	0.00	
20		carbon tetrachloride	0.783	0.857	-9.5	99	0.00	
21	S	1,2-dichloroethane-d4 SMC#1	0.379	0.374	1.3	94	0.00	
22		1,2-dichloroethane	0.440	0.481	-9.3	98	0.00	
23	M	benzene	2.513	2.651	-5.5	98	0.00	
24	I	1,4-difluorobenzene IS#2	1.000	1.000	0.0	97	0.00	
25	M	trichloroethene	0.511	0.514	-0.6	101	0.00	
26	C	1,2-dichloropropane	0.544	0.578	-6.2	103	0.00	
27	M	bromodichloromethane	0.640	0.611	4.5	94	0.00	
28		dibromomethane	0.206	0.207	-0.5	97	0.00	
29		2-CEVE	0.067	0.061#	28.0	65	0.00	LR
30		cis-1,3-dichloropropene	0.622	0.644	-3.5	101	0.00	
31	S	toluene-d8 SMC#2	1.295	1.300	-0.4	97	0.00	
32	MC	toluene	1.060	0.983	-0.5	100	0.00	LR
33		trans-1,3-dichloropene	0.409	0.441	-7.8	98	0.00	
34		1,1,2-trichloroethane	0.240	0.238	0.8	96	0.00	
35		1,3-dichloropropane	0.462	0.478	-3.5	99	0.00	
36		tetrachloroethene	0.425	0.448	-5.4	95	0.00	
37		dibromochloromethane	0.258	0.249	3.5	92	0.00	
38		1,2-dibromoethane	0.231	0.243	-5.2	96	0.00	
39	I	chlorobenzene-d5 IS#3	1.000	1.000	0.0	96	0.00	
40	MP	chlorobenzene	3.169	3.258	-2.8	97	0.00	
41		1,1,1,2-tetrachloroethane	1.095	1.198	-9.4	98	0.00	
42	C	ethylbenzene	7.694	7.890	-2.5	96	0.00	
43		m&p-xylene	[illegible]	[illegible]				

44		o-xylene	5.543	5.804	-4.7	98	0.00
45		styrene	3.400	3.619	-6.4	98	0.00
46	P	isopropylbenzene	6.685	7.181	-7.4	99	0.00
47	P	bromoform	0.640	0.685	-7.0	96	0.00
48	P	1,1,2,2-tetrachloroethane	1.236	1.244	-0.6	98	0.00
49	S	4-bromofluorobenzene SMC#3	2.624	2.677	-2.0	97	0.00
50	P	1,2,3-trichloropropane	0.223	0.222	0.4	95	0.00
51		n-propylbenzene	9.191	9.789	-6.5	98	0.00
52		bromobenzene	1.201	1.234	-2.7	97	0.00
53		1,3,5-trimethylbenzene	4.795	5.132	-7.0	98	0.00
54		2-chlorotoluene	5.913	6.028	-1.9	96	0.00
55		4-chlorotoluene	5.446	5.900	-8.3	100	0.00
56		tert-butylbenzene	4.453	4.675	-5.0	98	0.00
57		1,2,4-trimethylbenzene	4.614	4.935	-7.0	100	0.00
58		sec-butylbenzene	7.238	8.147	-12.6	102	0.00
59		4-isopropyltoluene	4.842	5.042	-4.1	97	0.00
60		1,3-dichlorobenzene	2.124	2.219	-4.5	97	0.00
61	M	1,4-dichlorobenzene	2.037	2.138	-5.0	98	0.00
62		n-butylbenzene	6.294	6.983	-10.9	100	0.00
63		1,2-dichlorobenzene	1.687	1.699	-0.7	96	0.00
64		1,2-dibromo-3-chloropropane	0.188	0.182	3.2	94	0.00
65		1,2,4-trichlorobenzene	1.374	1.451	-5.6	99	0.00
66		hexachlorobutadiene	1.701	1.946	-14.4	103	0.00
67		naphthalene	0.942	1.004	-6.6	95	0.00
68		1,2,3-trichlorobenzene	1.012	1.097	-8.4	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
19JULY17.D 82603.M Mon Jul 19 23:34:22 1999

BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)
Method 8260

ARCADIS GERAGHTY & MILLER, INC.
1400 N. HARBOR BLVD., SUITE 700
FULLERTON, CA 92835-4127
TERESA WILSON

Date of Report: 08/12/99
Sample Matrix: Groundwater

Samples Affected: 99-08272-1 - 99-08272-3, 99-08272-4TB

Constituents	QC Sample ID	Sample Result	Spike Level	Units	% Rec	Accuracy Control Limits
Benzene	CCV 4	16.06	16.00	µg/L	100.	80 - 120
Bromodichloromethane	CCV 4	17.33	16.00	µg/L	108.	80 - 120
Chlorobenzene	CCV 4	16.20	16.00	µg/L	101.	80 - 120
Chloroethane	CCV 4	17.13	16.00	µg/L	107.	80 - 120
1,4-Dichlorobenzene	CCV 4	16.42	16.00	µg/L	103.	80 - 120
1,1-Dichloroethane	CCV 4	15.39	16.00	µg/L	96.	80 - 120
1,1-Dichloroethene	CCV 4	16.13	16.00	µg/L	101.	80 - 120
Toluene	CCV 4	14.81	16.00	µg/L	93.	80 - 120
Trichloroethene	CCV 4	16.97	16.00	µg/L	106.	80 - 120
1,2-Dichloroethane-d4	CCV 4				101.	76 - 114
Toluene-d8	CCV 4				104.	88 - 110
4-Bromofluorobenzene	CCV 4				101.	86 - 115

Quality Control Officer

Anthony Bonanno

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