CDM Camp Dresser & McKee

SFUND RECORDS CTR
30891

Report

Baldwin Park Operable Unit Pre-Remedial Design Groundwater Monitoring Program

Draft Pre-Remedial Design Report

Appendix B Continued

December 1996

B

Appendix B

TMA
Thermo Analytical

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1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274
Formerly Terra Tech Labs

CAMP DRESSER & McKEE, INC.
18881 VON KARMAN, STE 650

JUL 24 1996

July 23, 1996

Ms. Suzanne Rowe
Camp Dresser & McKee
18881 Von Karman, Suite 650
Irvine, CA 92715

RE: CLP-Like Deliverables Case Narrative for Project Number 2581-112-T4-SAMP/L3506

Dear Ms. Rowe:

Listed below is additional information to clarify special circumstances that were encountered during the analysis of the above referenced project. This letter should be forwarded to the appropriate agency along with the deliverables package enclosed.

The water samples received on 06/24/96 were analyzed by Thermo Analytical for Volatile Organic Compounds (VOC's) by EPA Method 8021.

The EPA Method 8021 samples taken on 06/24/96 were analyzed 06/27/96-06/28/96 which is within the allowable method holding time. The samples and associated quality control samples may have been analyzed during the evening shift via auto-samplers both before and after midnight. The dates reported on the forms will then include one date for the samples run before midnight and a different date for the samples run after midnight. All of the samples are considered to have been run in one batch, and will have one set of quality control data.

Sample BP-GW-MW51703-062496 was originally analyzed 07/01/96. Since a number of compounds were detected above the calibration range, a dilution was performed and the sample reanalyzed 07/01/96. However, Tetrachloroethene was still above the calibration range. Therefore a final dilution was performed 07/11/96 outside the recommended holding time.

The 07/10 Method Blank had detectable levels of Styrene and sec-Butylbenzene. However, the only compound of interest was Tetrachloroethene.

The 07/01/96-07/02/96 continuing calibrations had one compound with percent differences outside the acceptable QC limits. Chloromethane had response factors less than the initial calibration response factors. However, the confirmation column Chloromethane response factors were greater than the initial calibration response factors. Since the compounds was not detected in any of the samples, the results were reported as is.

Target compounds which were analyzed for but not detected in the samples were flagged with a "U" on the sample data forms. If a "U" flag was used, the method detection limit (MDL) for that compound was inserted in the corresponding concentration column. A "B" flag was used for compounds which had detectable levels present in the associated method blank.

If you should have any questions or need further information, please contact me at 714.757.7022.

Sincerely,

Don Burley

Don Burley
Program Manager

Enclosure

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/24/96
Project Name:	Baldwin Park OU	Date Received:	06/24/96
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	09:26
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-MW51101-062496	Lab Sample ID:	L3506-1

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.45	
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	19	
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	7.9	
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/24/96
Project Name:	Baldwin Park OU	Date Received:	06/24/96
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	09:26
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-MW51101-062496	Lab Sample ID:	L3506-1

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.23	
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.18	
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.73	

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/24/96
Project Name:	Baldwin Park OU	Date Received:	06/24/96
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	19:22
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-MW51102-062496	Lab Sample ID:	L3506-2

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	1.8	
75-09-2	Methylene chloride	0.85	
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.35	
156-59-4	cis-1,2-Dichloroethene	58	D
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	4.5	
71-55-6	1,1,1-Trichloroethane	0.29	
56-23-5	Carbon tetrachloride	4.0	
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	2.8	
79-01-6	Trichloroethene	790	D
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	1100	D
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.38	
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

D = Dilution factor = 50 (analyzed 07/01/96).
U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
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EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/24/96
Project Name:	Baldwin Park OU	Date Received:	06/24/96
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	19:22
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-MW51102-062496	Lab Sample ID:	L3506-2

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.26	
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.23	
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.84	

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

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EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/24/96
Project Name:	Baldwin Park OU	Date Received:	06/24/96
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	07:23
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-MW51102N-062496	Lab Sample ID:	L3506-3

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/24/96
Project Name:	Baldwin Park OU	Date Received:	06/24/96
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	07:23
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-MW51102N-062496	Lab Sample ID:	L3506-3

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.43	
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	1.1	
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/24/96
Project Name:	Baldwin Park OU	Date Received:	06/24/96
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	17:18
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-MW51103-062496	Lab Sample ID:	L3506-4

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	1.9	
75-35-4	1,1-Dichloroethene	21	
75-09-2	Methylene chloride	0.70	
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	1.2	
156-59-4	cis-1,2-Dichloroethene	8.9	
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	2.8	
71-55-6	1,1,1-Trichloroethane	8.0	
56-23-5	Carbon tetrachloride	1.1	
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	1.5	
79-01-6	Trichloroethene	94	D
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	97	D
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

D = Dilution factor = 5 (analyzed 07/01/96).
U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/24/96
Project Name:	Baldwin Park OU	Date Received:	06/24/96
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	17:18
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-MW51103-062496	Lab Sample ID:	L3506-4

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.20	
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.14	
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/24/96
Project Name:	Baldwin Park OU	Date Received:	06/24/96
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	18:00
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-MW51103K-062496	Lab Sample ID:	L3506-5

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	1.7	
75-35-4	1,1-Dichloroethene	19	
75-09-2	Methylene chloride	0.70	
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	1.1	
156-59-4	cis-1,2-Dichloroethene	8.5	
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	2.6	
71-55-6	1,1,1-Trichloroethane	7.7	
56-23-5	Carbon tetrachloride	1.0	
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	1.4	
79-01-6	Trichloroethene	83	D
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	86	D
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

D = Dilution factor = 5 (analyzed 07/01/96).
U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/24/96
Project Name:	Baldwin Park OU	Date Received:	06/24/96
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	18:00
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-MW51103K-062496	Lab Sample ID:	L3506-5

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.24	
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.39	
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	1.3	

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/24/96
Project Name:	Baldwin Park OU	Date Received:	06/24/96
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	08:04
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-MW51701-062496	Lab Sample ID:	L3506-6

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.29	
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.50	
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.67	
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	2.4	
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/24/96
Project Name:	Baldwin Park OU	Date Received:	06/24/96
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	08:04
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-MW51701-062496	Lab Sample ID:	L3506-6

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/24/96
Project Name:	Baldwin Park OU	Date Received:	06/24/96
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	08:45
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-MW51702-062496	Lab Sample ID:	L3506-7

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.28	
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	8.4	
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	9.4	
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/24/96
Project Name:	Baldwin Park OU	Date Received:	06/24/96
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	08:45
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-MW51702-062496	Lab Sample ID:	L3506-7

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/24/96
Project Name:	Baldwin Park OU	Date Received:	06/24/96
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	18:41
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-MW51703-062496	Lab Sample ID:	L3506-8

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	42	D1
75-09-2	Methylene chloride	0.76	
156-60-5	trans-1,2-Dichloroethene	0.54	
75-34-3	1,1-Dichloroethane	2.8	
156-59-4	cis-1,2-Dichloroethene	110	D1
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.97	
71-55-6	1,1,1-Trichloroethane	49	D1
56-23-5	Carbon tetrachloride	0.43	
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	8.60	
79-01-6	Trichloroethene	140	D1
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	1.70	
127-18-4	Tetrachloroethene	670	D2
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.78	
630-20-6	1,1,1,2-Tetrachloroethane	1.7	
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

D1 = Dilution factor = 10 (analyzed 07/01/96).
D2 = Dilution factor = 50 (analyzed 07/11/96).
U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/24/96
Project Name:	Baldwin Park OU	Date Received:	06/24/96
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	18:41
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-MW51703-062496	Lab Sample ID:	L3506-8

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.20	
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.18	
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	1.4	

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	04:37
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	06/30 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/01/96
	Irwindale, CA	Time Analyzed:	04:37
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	06/30 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/11/96
	Irwindale, CA	Time Analyzed:	03:40
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/10 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	MW5-11/MW5-17	Date Analyzed:	07/11/96
	Irwindale, CA	Time Analyzed:	03:40
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/10 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.12	
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Surrogate Recovery

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	7/1/96-7/2/96
Project Name:	Baldwin Park OU		
Project Address:	MW5-11/MW5-17 Irwindale, CA		
Matrix:	Liquid		
GC Column 1:	DB-VRX, 75m, 0.45 mmID	GC ID:	OC

LAB SAMPLE NUMBER	% REC S 1 #	% REC S 2 #	% REC S 3 #
CCV	94	85	96
CCV	103	91	98
CCV	99	86	100
Method Blank	96	96	102
L3506-1	95	94	103
L3506-2	96	101	102
L3506-3	96	99	103
L3506-4	110	110	105
L3506-5	107	105	106
L3506-6	92	97	103
L3506-7	94	97	100
L3506-8	107	109	106
L3506-2 DIL1	108	107	104
L3506-4 DIL1	91	92	99
L3506-5 DIL1	89	96	94
L3506-8 DIL1	89	97	98
LCS	94	101	99
MS	89	87	94
MSD	90	92	100
QC Limits:	75-125	75-125	75-125

S 1 = 2-Chloropropane
S 2 = 1,4-Dichlorobutane
S 3 = aaa-Trifluorotoluene

Column used to flag recovery values with an asterisk.

* Value outside of QC limits.

TMA
Thermo Analytical

EPA 8021 Surrogate Recovery

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/11/96
Project Name:	Baldwin Park OU		
Project Address:	MW5-11/MW5-17 Irwindale, CA		
Matrix:	Liquid		
GC Column 1:	DB-VRX, 75m, 0.45 mmID	GC ID:	OC

LAB SAMPLE NUMBER	% REC S 1 #	% REC S 2 #	% REC S 3 #
CCV	92	90	96
CCV	101	91	102
Method Blank	96	95	103
L3506-8 DIL2	95	92	100
LCS	96	85	100
MS	91	87	104
MSD	94	82	102
QC Limits:	75-125	75-125	75-125

S 1 = 2-Chloropropane
S 2 = 1,4-Dichlorobutane
S 3 = aaa-Trifluorotoluene

Column used to flag recovery values with an asterisk.

* Value outside of QC limits.

TMA
Thermo Analytical

EPA 8021 Matrix Spike/Matrix Spike Duplicate Recovery

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/01/96
Project Name:	Baldwin Park OU		
Project Address:	MW5-11/MW5-17 Irwindale, CA		
Matrix:	Liquid		
Client Sample ID:	BP-GW-MW51102-062496	Lab Sample ID:	L3506-2

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONC. (µg/L)	MS CONC. (µg/L)	MS % REC. #	QC LIMITS REC.
Benzene	10.0	0	10.3	103	74-121
Toluene	10.0	0.26	10.0	97	72-121
Ethylbenzene	10.0	0	9.95	100	72-117
o-Xylene	10.0	0	10.0	100	66-124
1,1-Dichloroethane	10.0	0.35	9.91	96	73-121
1,1,1-Trichloroethane	10.0	0.29	9.74	95	72-126
cis-1,3-Dichloropropene	10.0	0	9.52	95	58-124
Chlorobenzene	10.0	0	10.5	105	52-131

COMPOUND	SPIKE ADDED (µg/L)	MSD CONC. (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	10.0	10.4	104	1	0-10	74-121
Toluene	10.0	10.1	98	1	0-16	72-121
Ethylbenzene	10.0	10.2	102	2	0-14	72-117
o-Xylene	10.0	10.3	103	3	0-14	66-124
1,1-Dichloroethane	10.0	9.79	94	2	0-18	73-121
1,1,1-Trichloroethane	10.0	9.28	90	5	0-15	72-126
cis-1,3-Dichloropropene	10.0	9.44	94	1	0-22	58-124
Chlorobenzene	10.0	10.5	105	0	0-42	52-131

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

RPD: 0 out of 8 outside limits.
Spike Recovery: 0 out of 16 outside limits.

TMA
Thermo Analytical

EPA 8021 Matrix Spike/Matrix Spike Duplicate Recovery

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/11/96
Project Name:	Baldwin Park OU		
Project Address:	MW5-11/MW5-17 Irwindale, CA		
Matrix:	Liquid		
Client Sample ID:	BP-GW-MW51502-070996	Lab Sample ID:	L3547-5

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONC. (µg/L)	MS CONC. (µg/L)	MS % REC. #	QC LIMITS REC.
Benzene	10.0	0	9.85	99	74-121
Toluene	10.0	0.27	9.72	95	72-121
Ethylbenzene	10.0	0	9.69	97	72-117
o-Xylene	10.0	0.16	9.77	96	66-124
1,1-Dichloroethane	10.0	1.28	10.3	90	73-121
1,1,1-Trichloroethane	10.0	8.74	17.7	90	72-126
cis-1,3-Dichloropropene	10.0	0	9.52	95	58-124
Chlorobenzene	10.0	0	10.2	102	52-131

COMPOUND	SPIKE ADDED (µg/L)	MSD CONC. (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	10.0	9.48	95	4	0-10	74-121
Toluene	10.0	9.40	91	4	0-16	72-121
Ethylbenzene	10.0	9.42	94	3	0-14	72-117
o-Xylene	10.0	9.56	94	2	0-14	66-124
1,1-Dichloroethane	10.0	10.5	92	2	0-18	73-121
1,1,1-Trichloroethane	10.0	17.9	92	2	0-15	72-126
cis-1,3-Dichloropropene	10.0	9.40	94	1	0-22	58-124
Chlorobenzene	10.0	10.0	100	2	0-42	52-131

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

RPD: 0 out of 8 outside limits.
Spike Recovery: 0 out of 16 outside limits.

TMA
Thermo Analytical

EPA 8021 Laboratory Control Sample Recovery

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/01/96
Project Name:	Baldwin Park OU		
Project Address:	MW5-11/MW5-17 Irwindale, CA		

Matrix: Liquid
LCS Source: Ultra Scientific
Lab Sample ID: LCS

COMPOUND	SPIKE ADDED (µg/L)	LCS CONC. (µg/L)	LCS % REC. #	QC LIMITS REC.
Benzene	10.0	9.81	98	75-125
Toluene	10.0	9.55	96	75-125
Ethylbenzene	10.0	9.56	96	75-125
o-Xylene	10.0	9.92	99	75-125
1,1-Dichloroethane	10.0	9.53	95	75-125
1,1,1-Trichloroethane	10.0	9.02	90	75-125
cis-1,3-Dichloropropene	10.0	9.37	94	75-125
Chlorobenzene	10.0	9.07	91	75-125

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

Spike Recovery: 0 out of 8 outside limits.

Comments:

TMA
Thermo Analytical

EPA 8021 Laboratory Control Sample Recovery

Lab:	Thermo Analytical	Report Date:	07/16/96
Client:	CDM, Inc.	Lab P.N.:	L3506
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/11/96
Project Name:	Baldwin Park OU		
Project Address:	MW5-11/MW5-17 Irwindale, CA		

Matrix: Liquid
LCS Source: Ultra Scientific
Lab Sample ID: LCS

COMPOUND	SPIKE ADDED (µg/L)	LCS CONC. (µg/L)	LCS % REC. #	QC LIMITS REC.
Benzene	10.0	9.71	97	75-125
Toluene	10.0	9.45	95	75-125
Ethylbenzene	10.0	9.62	96	75-125
o-Xylene	10.0	9.77	98	75-125
1,1-Dichloroethane	10.0	9.19	92	75-125
1,1,1-Trichloroethane	10.0	9.49	95	75-125
cis-1,3-Dichloropropene	10.0	9.74	97	75-125
Chlorobenzene	10.0	9.78	98	75-125

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

Spike Recovery: 0 out of 8 outside limits.

Comments:

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/16/96

Lab P.N.: L3506

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 06/30/96

Daily Calibration Date: 07/01/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	52097	8
Chloromethane	58441	9	45870	22*
Vinyl chloride	76709	7	70728	8
Bromomethane	43281	8	40933	5
Chloroethane	79236	6	71570	10
Trichlorofluoromethane	114511	8	107408	6
1,1-Dichloroethene	109789	8	101591	7
Methylene chloride	133849	11	124903	7
trans-1,2-Dichloroethene	114567	8	108741	5
1,1-Dichloroethane	113583	7	108085	5
cis-1,2-Dichloroethene	114171	7	107490	6
2,2-Dichloropropane	96980	9	85701	12
Bromochloromethane	82078	7	74944	9
Chloroform	145387	9	134335	8
1,1,1-Trichloroethane	133003	8	123309	7
Carbon tetrachloride	144402	6	134694	7
1,1-Dichloropropene	50937	5	47531	7
1,2-Dichloroethane	108993	9	97747	10
Trichloroethene	145231	10	129051	11
1,2-Dichloropropane	102103	8	94144	8
Dibromomethane	54981	7	48602	12
Bromodichloromethane	105109	8	98674	6
2-Chloroethyl vinyl ether	50937	5	47531	7
cis-1,3-Dichloropropene	91437	8	82710	10
trans-1,3-Dichloropropene	85647	11	76323	11
1,1,2-Trichloroethane	112065	12	101652	9
Tetrachloroethene	136777	14	123821	9
1,3-Dichloropropane	89531	10	80870	10
Dibromochloromethane	72030	8	65962	8
1,2-Dibromoethane	48062	8	43151	10
Chlorobenzene	54838	8	51957	5
1,1,1,2-Tetrachloroethane	126272	10	115607	8
Bromoform	50442	8	45863	9
1,1,2,2-Tetrachloroethane	86153	17	74109	14
1,2,3-Trichloropropane	70240	11	63158	10
2-Chlorotoluene	44765	8	41831	7
4-Chlorotoluene	46223	8	44603	4
1,3-Dichlorobenzene	73463	10	67740	8
1,4-Dichlorobenzene	78426	11	71539	9
1,2-Dichlorobenzene	74471	10	69269	7

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/16/96

Lab P.N.: L3506

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 06/30/96

Daily Calibration Date: 07/01/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	22007	9
1,2,4-Trichlorobenzene	86267	12	77440	10
Hexachlorobutadiene	122627	14	106319	13
1,2,3-Trichlorobenzene	85565	14	78537	8
Benzene	15849	2	14763	7
Toluene	14971	4	13715	8
Ethylbenzene	13454	2	12462	7
p,m-Xylenes	15499	1	14500	6
o-Xylene	13254	2	12462	6
Styrene	17056	2	15795	7
Isopropylbenzene	10038	2	9360	7
Bromobenzene	34276	7	31837	7
Propylbenzene	13275	2	12274	8
1,3,5-Trimethylbenzene	18378	2	16943	8
tert-Butylbenzene	11218	10	9559	15
1,2,4-Trimethylbenzene	14062	3	12829	9
sec-Butylbenzene	11083	3	10207	8
4-Isopropyltoluene	10693	3	9677	10
n-Butylbenzene	11850	4	10544	11
Naphthalene	13153	6	11565	12
Carbon disulfide	1678	11	1657	1
MTBE	7346	7	7581	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/16/96
Lab P.N.: L3506
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/01/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	58107	3
Chloromethane	58441	9	48975	16*
Vinyl chloride	76709	7	79796	4
Bromomethane	43281	8	45560	5
Chloroethane	79236	6	77371	2
Trichlorofluoromethane	114511	8	117755	3
1,1-Dichloroethene	109789	8	111781	2
Methylene chloride	133849	11	138379	3
trans-1,2-Dichloroethene	114567	8	116119	1
1,1-Dichloroethane	113583	7	115359	2
cis-1,2-Dichloroethene	114171	7	115851	1
2,2-Dichloropropane	96980	9	105882	9
Bromochloromethane	82078	7	82093	0
Chloroform	145387	9	145029	0
1,1,1-Trichloroethane	133003	8	134392	1
Carbon tetrachloride	144402	6	149834	4
1,1-Dichloropropene	50937	5	54062	6
1,2-Dichloroethane	108993	9	106236	3
Trichloroethene	145231	10	136987	6
1,2-Dichloropropane	102103	8	101903	0
Dibromomethane	54981	7	54605	1
Bromodichloromethane	105109	8	101398	4
2-Chloroethyl vinyl ether	50937	5	54062	6
cis-1,3-Dichloropropene	91437	8	93187	2
trans-1,3-Dichloropropene	85647	11	85509	0
1,1,2-Trichloroethane	112065	12	108962	3
Tetrachloroethene	136777	14	135071	1
1,3-Dichloropropane	89531	10	87499	2
Dibromochloromethane	72030	8	72845	1
1,2-Dibromoethane	48062	8	48583	1
Chlorobenzene	54838	8	52797	4
1,1,1,2-Tetrachloroethane	126272	10	124401	1
Bromoform	50442	8	51651	2
1,1,2,2-Tetrachloroethane	86153	17	89682	4
1,2,3-Trichloropropane	70240	11	68934	2
2-Chlorotoluene	44765	8	45059	1
4-Chlorotoluene	46223	8	46636	1
1,3-Dichlorobenzene	73463	10	72791	1
1,4-Dichlorobenzene	78426	11	76414	3
1,2-Dichlorobenzene	74471	10	72803	2

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/16/96
Lab P.N.: L3506
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/01/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	24537	2
1,2,4-Trichlorobenzene	86267	12	84854	2
Hexachlorobutadiene	122627	14	118754	3
1,2,3-Trichlorobenzene	85565	14	82146	4
Benzene	15849	2	15515	2
Toluene	14971	4	14306	4
Ethylbenzene	13454	2	12936	4
p,m-Xylenes	15499	1	15065	3
o-Xylene	13254	2	12847	3
Styrene	17056	2	16509	3
Isopropylbenzene	10038	2	9726	3
Bromobenzene	34276	7	34791	2
Propylbenzene	13275	2	14458	9
1,3,5-Trimethylbenzene	18378	2	17883	3
tert-Butylbenzene	11218	10	9992	11
1,2,4-Trimethylbenzene	14062	3	13297	5
sec-Butylbenzene	11083	3	10621	4
4-Isopropyltoluene	10693	3	10280	4
n-Butylbenzene	11850	4	11453	3
Naphthalene	13153	6	11819	10
Carbon disulfide	1678	11	1655	1
MTBE	7346	7	7595	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical
GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/16/96
Lab P.N.: L3506
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/02/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	52480	7
Chloromethane	58441	9	41509	29*
Vinyl chloride	76709	7	71740	6
Bromomethane	43281	8	42928	1
Chloroethane	79236	6	71125	10
Trichlorofluoromethane	114511	8	106692	7
1,1-Dichloroethene	109789	8	102256	7
Methylene chloride	133849	11	128980	4
trans-1,2-Dichloroethene	114567	8	104632	9
1,1-Dichloroethane	113583	7	106966	6
cis-1,2-Dichloroethene	114171	7	105439	8
2,2-Dichloropropane	96980	9	82724	15
Bromochloromethane	82078	7	76115	7
Chloroform	145387	9	133413	8
1,1,1-Trichloroethane	133003	8	121309	9
Carbon tetrachloride	144402	6	132551	8
1,1-Dichloropropene	50937	5	45723	10
1,2-Dichloroethane	108993	9	98390	10
Trichloroethene	145231	10	135365	7
1,2-Dichloropropane	102103	8	95851	6
Dibromomethane	54981	7	51212	7
Bromodichloromethane	105109	8	99449	5
2-Chloroethyl vinyl ether	50937	5	45723	10
cis-1,3-Dichloropropene	91437	8	84352	8
trans-1,3-Dichloropropene	85647	11	78412	8
1,1,2-Trichloroethane	112065	12	106168	5
Tetrachloroethene	136777	14	131744	4
1,3-Dichloropropane	89531	10	83933	6
Dibromochloromethane	72030	8	69253	4
1,2-Dibromoethane	48062	8	46418	3
Chlorobenzene	54838	8	52147	5
1,1,1,2-Tetrachloroethane	126272	10	119447	5
Bromoform	50442	8	48383	4
1,1,2,2-Tetrachloroethane	86153	17	73389	15
1,2,3-Trichloropropane	70240	11	65267	7
2-Chlorotoluene	44765	8	41893	6
4-Chlorotoluene	46223	8	43919	5
1,3-Dichlorobenzene	73463	10	67968	7
1,4-Dichlorobenzene	78426	11	73007	7
1,2-Dichlorobenzene	74471	10	69408	7

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/16/96

Lab P.N.: L3506

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 06/30/96

Daily Calibration Date: 07/02/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	22888	5
1,2,4-Trichlorobenzene	86267	12	78404	9
Hexachlorobutadiene	122627	14	111377	9
1,2,3-Trichlorobenzene	85565	14	76160	11
Benzene	15849	2	15441	3
Toluene	14971	4	14075	6
Ethylbenzene	13454	2	12753	5
p,m-Xylenes	15499	1	14799	5
o-Xylene	13254	2	12767	4
Styrene	17056	2	16255	5
Isopropylbenzene	10038	2	9606	4
Bromobenzene	34276	7	32471	5
Propylbenzene	13275	2	12859	3
1,3,5-Trimethylbenzene	18378	2	17428	5
tert-Butylbenzene	11218	10	9945	11
1,2,4-Trimethylbenzene	14062	3	13184	6
sec-Butylbenzene	11083	3	10514	5
4-Isopropyltoluene	10693	3	10149	5
n-Butylbenzene	11850	4	11116	6
Naphthalene	13153	6	12073	8
Carbon disulfide	1678	11	1734	3
MTBE	7346	7	7562	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/16/96

Lab P.N.: L3506

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 06/30/96

Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane				
Chloromethane				
Vinyl chloride				
Bromomethane				
Chloroethane				
Trichlorofluoromethane				
1,1-Dichloroethene				
Methylene chloride				
trans-1,2-Dichloroethene				
1,1-Dichloroethane				
cis-1,2-Dichloroethene				
2,2-Dichloropropane				
Bromochloromethane				
Chloroform				
1,1,1-Trichloroethane				
Carbon tetrachloride				
1,1-Dichloropropene				
1,2-Dichloroethane				
Trichloroethene				
1,2-Dichloropropane				
Dibromomethane				
Bromodichloromethane				
2-Chloroethyl vinyl ether				
cis-1,3-Dichloropropene				
trans-1,3-Dichloropropene				
1,1,2-Trichloroethane				
Tetrachloroethene	136777	14	123803	9
1,3-Dichloropropane				
Dibromochloromethane				
1,2-Dibromoethane				
Chlorobenzene				
1,1,1,2-Tetrachloroethane				
Bromoform				
1,1,2,2-Tetrachloroethane				
1,2,3-Trichloropropane				
2-Chlorotoluene				
4-Chlorotoluene				
1,3-Dichlorobenzene				
1,4-Dichlorobenzene				
1,2-Dichlorobenzene				

(a) Control limits = 0 - 20 %

(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/16/96

Lab P.N.: L3506

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 06/30/96

Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane				
1,2,4-Trichlorobenzene				
Hexachlorobutadiene				
1,2,3-Trichlorobenzene				
Benzene				
Toluene				
Ethylbenzene				
p,m-Xylenes				
o-Xylene				
Styrene				
Isopropylbenzene				
Bromobenzene				
Propylbenzene				
1,3,5-Trimethylbenzene				
tert-Butylbenzene				
1,2,4-Trimethylbenzene				
sec-Butylbenzene				
4-Isopropyltoluene				
n-Butylbenzene				
Naphthalene				
Carbon disulfide				
MTBE				

(a) Control limits = 0 - 20 %

(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical
GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/16/96
Lab P.N.: L3506
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane				
Chloromethane				
Vinyl chloride				
Bromomethane				
Chloroethane				
Trichlorofluoromethane				
1,1-Dichloroethene				
Methylene chloride				
trans-1,2-Dichloroethene				
1,1-Dichloroethane				
cis-1,2-Dichloroethene				
2,2-Dichloropropane				
Bromochloromethane				
Chloroform				
1,1,1-Trichloroethane				
Carbon tetrachloride				
1,1-Dichloropropene				
1,2-Dichloroethane				
Trichloroethene				
1,2-Dichloropropane				
Dibromomethane				
Bromodichloromethane				
2-Chloroethyl vinyl ether				
cis-1,3-Dichloropropene				
trans-1,3-Dichloropropene				
1,1,2-Trichloroethane				
Tetrachloroethene	136777	14	129308	5
1,3-Dichloropropane				
Dibromochloromethane				
1,2-Dibromoethane				
Chlorobenzene				
1,1,1,2-Tetrachloroethane				
Bromoform				
1,1,2,2-Tetrachloroethane				
1,2,3-Trichloropropane				
2-Chlorotoluene				
4-Chlorotoluene				
1,3-Dichlorobenzene				
1,4-Dichlorobenzene				
1,2-Dichlorobenzene				

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/16/96
Lab P.N.: L3506
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane				
1,2,4-Trichlorobenzene				
Hexachlorobutadiene				
1,2,3-Trichlorobenzene				
Benzene				
Toluene				
Ethylbenzene				
p,m-Xylenes				
o-Xylene				
Styrene				
Isopropylbenzene				
Bromobenzene				
Propylbenzene				
1,3,5-Trimethylbenzene				
tert-Butylbenzene				
1,2,4-Trimethylbenzene				
sec-Butylbenzene				
4-Isopropyltoluene				
n-Butylbenzene				
Naphthalene				
Carbon disulfide				
MTBE				

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

CHAIN-OF-CUSTODY RECORD

3269

Client: CDM

Date: 6-24-96

Project Name / #: Baldwin Park OU 258-112-T4-SAMP

Project Address: MWS-11 / MWS-17

Irwindale, CA

P.O.#:

Quote #:

Project Contact (please print): Suzanne Rowe / B. Wells

State where samples were collected:

Page 1 of 1

Lab Use Only
Lab Job # L3506
C.O. #
C.O. #
C.O. #
C.O. #
Sample Condition Upon Receipt:
Chilled X yes no
Sealed yes X no

Analysis Requested All analyses and deliverables must be identified

Sample Identification	Date Collected	Time Collected	Grab	Comp.	Lab Sample Number	Physical State: Solid (S), Liquid (L), Vapor (V)	Preservation: Iced (I), Filtered (F), Preservative (P)	EPA 8021-VOCs							Total Number of Containers	Remarks	Temp of Sample Upon Receipt (if requested)
BP-GW-MWS1101-062496	6/24/96	855	X		L3506-1	L		X							3	40 ml VOAs w/HCl	
BP-GW-MWS1102-062496		940	X		-2	L		X							5*	* Lab QC	
BP-GW-MWS1102N-062496		955	X		-3	L		X							3		
BP-GW-MWS1103-062496		1015	X		-4	L		X							3		
BP-GW-MWS1103K-062496		1030	X		-5	L		X							2		
BP-GW-MWS1701-062496		1210	X		-6	L		X							3		
BP-GW-MWS1702-062496		1300	X		-7	L		X							3		
BP-GW-MWS1703-062496		1340	X		-8	L		X							3		

25 Total Number of Containers

Method of Shipment

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to TMA approval and surcharge)

Date Results are Needed:

Rush Results requested by (please circle): Phone Fax

Phone #:

Fax #:

Data Package Options (please circle if requested)

QC Summary CLP-Like

Type I, Type II, Type III, Type IV, Type V, Type VI, Type VII, Other

Site Specific QC Required?: YES NO
(if yes, indicate QC sample and submit triplicate volume)

SDG Complete?: YES NO

❶ Relinquished by (signature)*	❷ Received by (signature)	Date
Company	Company	Time
❸ Relinquished by (signature)*	❹ Received by Laboratory (signature)	Date 6/24/96
Company	Laboratory Name TMH Santa Ana	Time 3:05pm

Special Instructions
CLP-Like deliverables

*See Terms And Conditions on reverse **before** signing

☐ 300 Second Avenue, Waltham, MA 02254
(617) 890-7200, Fax (617) 890-3883

☐ 603 South Main Street, New Ellenton, SC 29809
(803) 652-3324, Fax (803) 652-7995

X 1920 E. Deere Avenue, Santa Ana, CA 92705
(714) 757-7022, Fax (714) 757-7274

☐ 387 Airport Industrial Drive, Ypsilanti, MI 48198
(313) 480-2500, Fax (313) 480-2295

TMA Thermo Analytical

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TMA
Thermo Analytical

1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274

Formerly Terra Tech Labs

CAMP DRESSER & McKEE, INC.
18881 VON KARMAN, STE 650
IRVINE, CA 92715

JUL 24 1996
JUL 22 1996

July 23, 1996

Ms. Suzanne Rowe
Camp Dresser & McKee
18881 Von Karman, Suite 650
Irvine, CA 92715

RE: CLP-Like Deliverables Case Narrative for Project Number 2581-112-T4-SAMP/L3510

Dear Ms. Rowe:

Listed below is additional information to clarify special circumstances that were encountered during the analysis of the above referenced project. This letter should be forwarded to the appropriate agency along with the deliverables package enclosed.

The water samples received on 06/25/96 were analyzed by Thermo Analytical for Volatile Organic Compounds (VOC's) by EPA Method 8021 and Nitrate/Nitrite by EPA Method 300.0.

The EPA Method 8021 samples taken on 06/25/96 were analyzed 07/01/96 which is within the allowable method holding time. The samples and associated quality control samples may have been analyzed during the evening shift via auto-samplers both before and after midnight. The dates reported on the forms will then include one date for the samples run before midnight and a different date for the samples run after midnight. All of the samples are considered to have been run in one batch, and will have one set of quality control data.

The 07/01/96-07/02/96 continuing calibrations had one compound with percent differences outside the acceptable QC limits. Chloromethane had response factors less than the initial calibration response factors. However, the confirmation column Chloromethane response factors were greater than the initial calibration response factors. Since the compounds was not detected in any of the samples. the results were reported as is.

Target compounds which were analyzed for but not detected in the samples were flagged with a "U" on the sample data forms. If a "U" flag was used, the method detection limit (MDL) for that compound was inserted in the corresponding concentration column. A "B" flag was used for compounds which had detectable levels present in the associated method blank.

If you should have any questions or need further information, please contact me at 714.757.7022.

Sincerely,

Don Burley

Don Burley
Program Manager

Enclosure

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/11/96
Client:	CDM, Inc.	Lab P.N.:	L3510
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/25/96
Project Name:	BPOU - Quarterly Monitoring	Date Received:	06/25/96
Project Address:	Scott Place + Main St.	Date Analyzed:	07/01/96
	GW Monitoring (2nd Quarter)	Time Analyzed:	20:03
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	J&W DB-VRX, 75m, 0.45mm ID		
Client Sample ID:	BP-GW-Z1000006-062596	Lab Sample ID:	L3510-1

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.52	
75-35-4	1,1-Dichloroethene	85	D
75-09-2	Methylene chloride	0.94	
156-60-5	trans-1,2-Dichloroethene	0.35	
75-34-3	1,1-Dichloroethane	2.4	
156-59-4	cis-1,2-Dichloroethene	81	D
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	17	
71-55-6	1,1,1-Trichloroethane	19	
56-23-5	Carbon tetrachloride	1.2	
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	1.8	
79-01-6	Trichloroethene	680	D
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	450	D
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

D = Dilution factor = 50 (analyzed 07/01/96).
U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/11/96
Client:	CDM, Inc.	Lab P.N.:	L3510
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/25/96
Project Name:	BPOU - Quarterly Monitoring	Date Received:	06/25/96
Project Address:	Scott Place + Main St.	Date Analyzed:	07/01/96
	GW Monitoring (2nd Quarter)	Time Analyzed:	20:03
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	J&W DB-VRX, 75m, 0.45mm ID		
Client Sample ID:	BP-GW-Z1000006-062596	Lab Sample ID:	L3510-1

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.14	
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/11/96
Client:	CDM, Inc.	Lab P.N.:	L3510
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/25/96
Project Name:	BPOU - Quarterly Monitoring	Date Received:	06/25/96
Project Address:	Scott Place + Main St.	Date Analyzed:	07/01/96
	GW Monitoring (2nd Quarter)	Time Analyzed:	05:18
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	J&W DB-VRX, 75m, 0.45mm ID		
Client Sample ID:	BP-GW-Z1000006(F)-062596	Lab Sample ID:	L3510-2

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.68	
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.44	
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/11/96
Client:	CDM, Inc.	Lab P.N.:	L3510
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/25/96
Project Name:	BPOU - Quarterly Monitoring	Date Received:	06/25/96
Project Address:	Scott Place + Main St.	Date Analyzed:	07/01/96
	GW Monitoring (2nd Quarter)	Time Analyzed:	05:18
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	J&W DB-VRX, 75m, 0.45mm ID		
Client Sample ID:	BP-GW-Z1000006(F)-062596	Lab Sample ID:	L3510-2

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/11/96
Client:	CDM, Inc.	Lab P.N.:	L3510
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Sampled:	NA
Project Name:	BPOU - Quarterly Monitoring	Date Received:	NA
Project Address:	Scott Place + Main St. GW Monitoring (2nd Quarter)	Date Analyzed:	07/01/96
		Time Analyzed:	04:37
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	J&W DB-VRX, 75m, 0.45mm ID		
Client Sample ID:	Method Blank	Lab Sample ID:	06/30 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.38	U
590-20-7	2,2-Dichloropropane	0.38	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.46	U
563-58-6	1,1-Dichloropropene	0.46	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.44	U
110-75-8	2-Chloroethyl vinyl ether	0.46	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.47	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.59	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/11/96
Client:	CDM, Inc.	Lab P.N.:	L3510
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Sampled:	NA
Project Name:	BPOU - Quarterly Monitoring	Date Received:	NA
Project Address:	Scott Place + Main St. GW Monitoring (2nd Quarter)	Date Analyzed:	07/01/96
		Time Analyzed:	04:37
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	J&W DB-VRX, 75m, 0.45mm ID		
Client Sample ID:	Method Blank	Lab Sample ID:	06/30 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Surrogate Recovery

Lab:	Thermo Analytical	Report Date:	07/11/96
Client:	CDM, Inc.	Lab P.N.:	L3510
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/01/96-07/02/96
Project Name:	BPOU - Quarterly Sampling		
Project Address:	Scott Place + Main St. GW Monitoring (2nd Quarter)		
Matrix:	Liquid		
GC Column 1:	DB-VRX, 75m, 0.45mm ID	GC ID:	OC

LAB SAMPLE NUMBER	% REC S 1 #	% REC S 2 #	% REC S 3 #
CCV	94	85	96
CCV	103	91	98
CCV	99	86	100
Method Blank	96	96	102
L3510-1 DIL	110	108	105
L3510-1	98	98	106
L3510-2	98	97	103
MS	89	87	94
MSD	90	92	100
LCS	94	101	99
QC Limits:	75-125	75-125	75-125

S 1 = 2-Chloropropane
S 2 = 1,4-Dichlorobutane
S 3 = aaa-Trifluorotoluene

Column used to flag recovery values with an asterisk.

* Value outside of QC limits.

TMA
Thermo Analytical

EPA 8021 Matrix Spike/Matrix Spike Duplicate Recovery

Lab:	Thermo Analytical	Report Date:	07/11/96
Client:	CDM, Inc.	Lab P.N.:	L3510
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/01/96
Project Name:	BPOU - Quarterly Sampling		
Project Address:	Scott Place + Main St. GW Monitoring (2nd Quarter)		
Matrix:	Liquid		
Client Sample:	BP-GW-MW51102-062496	Lab Sample ID:	L3506-2

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONC. (µg/L)	MS CONC. (µg/L)	MS % REC. #	QC LIMITS REC.
Benzene	10.0	0.0	10.3	103	74-121
Toluene	10.0	0.26	10.0	97	72-121
Ethylbenzene	10.0	0.0	9.95	100	72-117
o-Xylene	10.0	0.0	10.0	100	66-124
1,1-Dichloroethane	10.0	0.35	9.91	96	73-121
1,1,1-Trichloroethane	10.0	0.29	9.74	95	72-126
cis-1,3-Dichloropropene	10.0	0.0	9.52	95	58-124
Chlorobenzene	10.0	0.0	10.5	105	52-131

COMPOUND	SPIKE ADDED (µg/L)	MSD CONC. (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	10.0	10.4	104	1	0-10	74-121
Toluene	10.0	10.1	98	1	0-16	72-121
Ethylbenzene	10.0	10.2	102	2	0-14	72-117
o-Xylene	10.0	10.3	103	3	0-14	66-124
1,1-Dichloroethane	10.0	9.79	94	2	0-18	73-121
1,1,1-Trichloroethane	10.0	9.28	90	5	0-15	72-126
cis-1,3-Dichloropropene	10.0	9.44	94	1	0-22	58-124
Chlorobenzene	10.0	10.5	105	0	0-42	52-131

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

RPD: 0 out of 8 outside limits.
Spike Recovery: 0 out of 16 outside limits.

TMA
Thermo Analytical

EPA 8021 Laboratory Control Sample Recovery

Lab:	Thermo Analytical	Report Date:	07/11/96
Client:	CDM, Inc.	Lab P.N.:	L3510
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/01/96
Project Name:	BPOU - Quarterly Sampling		
Project Address:	Scott Place + Main St. GW Monitoring (2nd Quarter)		

Matrix: Liquid
LCS Source: Ultra Scientific
Lab Sample ID: LCS

COMPOUND	SPIKE ADDED (µg/L)	LCS CONC. (µg/L)	LCS % REC. #	QC LIMITS REC.
Benzene	10.0	9.81	98	75-125
Toluene	10.0	9.55	96	75-125
Ethylbenzene	10.0	9.56	96	75-125
o-Xylene	10.0	9.92	99	75-125
1,1-Dichloroethane	10.0	9.53	95	75-125
1,1,1-Trichloroethane	10.0	9.02	90	75-125
cis-1,3-Dichloropropene	10.0	9.37	94	75-125
Chlorobenzene	10.0	9.07	91	75-125

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

Spike Recovery: 0 out of 8 outside limits.

Comments:

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab:	Thermo Analytical	Report Date:	07/11/96
		Lab P.N.:	L3510
GC Column 1:	J&W DB-VRX, 75m, 0.45mm ID	Client P.N.:	2581-112-T4-SAMP
Instrument ID:	OC	Initial Calibration Date:	06/30/96
		Daily Calibration Date:	07/01/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	52097	8
Chloromethane	58441	9	45870	22*
Vinyl chloride	76709	7	70728	8
Bromomethane	43281	8	40933	5
Chloroethane	79236	6	71570	10
Trichlorofluoromethane	114511	8	107408	6
1,1-Dichloroethene	109789	8	101591	7
Methylene chloride	133849	11	124903	7
trans-1,2-Dichloroethene	114567	8	108741	5
1,1-Dichloroethane	113583	7	108085	5
cis-1,2-Dichloroethene	114171	7	107490	6
2,2-Dichloropropane	96980	9	85701	12
Bromochloromethane	82078	7	74944	9
Chloroform	145387	9	134335	8
1,1,1-Trichloroethane	133003	8	123309	7
Carbon tetrachloride	144402	6	134694	7
1,1-Dichloropropene	50937	5	47532	7
1,2-Dichloroethane	108993	9	97747	10
Trichloroethene	145231	10	129051	11
1,2-Dichloropropane	102103	8	94144	8
Dibromomethane	54981	7	48602	12
Bromodichloromethane	105109	8	98674	6
2-Chloroethyl vinyl ether	50937	5	47532	7
cis-1,3-Dichloropropene	91437	8	82710	10
trans-1,3-Dichloropropene	85647	11	76323	11
1,1,2-Trichloroethane	112065	12	101652	9
Tetrachloroethene	136777	14	123821	9
1,3-Dichloropropane	89531	10	80870	10
Dibromochloromethane	72030	8	65962	8
1,2-Dibromoethane	48062	8	43151	10
Chlorobenzene	54838	8	51957	5
1,1,1,2-Tetrachloroethane	126272	10	115607	8
Bromoform	50442	8	45863	9
1,1,2,2-Tetrachloroethane	86153	17	74109	14
1,2,3-Trichloropropane	70240	11	63158	10
2-Chlorotoluene	44765	8	41831	7
4-Chlorotoluene	46223	8	44603	4
1,3-Dichlorobenzene	73463	10	67740	8
1,4-Dichlorobenzene	78426	11	71539	9
1,2-Dichlorobenzene	74471	10	69269	7

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab:	Thermo Analytical	Report Date:	07/11/96
		Lab P.N.:	L3510
GC Column 1:	J&W DB-VRX, 75m, 0.45mm ID	Client P.N.:	2581-112-T4-SAMP
Instrument ID:	OC	Initial Calibration Date:	06/30/96
		Daily Calibration Date:	07/01/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	22007	9
1,2,4-Trichlorobenzene	86267	12	77440	10
Hexachlorobutadiene	122627	14	106319	13
1,2,3-Trichlorobenzene	85565	14	78537	8
Benzene	15849	2	14763	7
Toluene	14971	4	13715	8
Ethylbenzene	13454	2	12462	7
p,m-Xylenes	15499	1	14500	6
o-Xylene	13254	2	12462	6
Styrene	17056	2	15795	7
Isopropylbenzene	10038	2	9360	7
Bromobenzene	34276	7	31837	7
Propylbenzene	13275	2	12274	8
1,3,5-Trimethylbenzene	18378	2	16943	8
tert-Butylbenzene	11218	10	9559	15
1,2,4-Trimethylbenzene	14062	3	12829	9
sec-Butylbenzene	11083	3	10207	8
4-Isopropyltoluene	10693	3	9677	10
n-Butylbenzene	11850	4	10544	11
Naphthalene	13153	6	11565	12
Carbon disulfide	1678	11	1657	1
MTBE	7346	7	7581	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab:	Thermo Analytical	Report Date:	07/11/96
		Lab P.N.:	L3510
GC Column 1:	J&W DB-VRX, 75m, 0.45mm ID	Client P.N.:	2581-112-T4-SAMP
Instrument ID:	OC	Initial Calibration Date:	06/30/96
		Daily Calibration Date:	07/01/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	58107	3
Chloromethane	58441	9	48975	16*
Vinyl chloride	76709	7	79796	4
Bromomethane	43281	8	45560	5
Chloroethane	79236	6	77371	2
Trichlorofluoromethane	114511	8	117755	3
1,1-Dichloroethene	109789	8	111781	2
Methylene chloride	133849	11	138379	3
trans-1,2-Dichloroethene	114567	8	116119	1
1,1-Dichloroethane	113583	7	115359	2
cis-1,2-Dichloroethene	114171	7	115851	1
2,2-Dichloropropane	96980	9	105882	9
Bromochloromethane	82078	7	82093	0
Chloroform	145387	9	145029	0
1,1,1-Trichloroethane	133003	8	134392	1
Carbon tetrachloride	144402	6	149834	4
1,1-Dichloropropene	50937	5	54063	6
1,2-Dichloroethane	108993	9	106236	3
Trichloroethene	145231	10	136987	6
1,2-Dichloropropane	102103	8	101903	0
Dibromomethane	54981	7	54605	1
Bromodichloromethane	105109	8	101398	4
2-Chloroethyl vinyl ether	50937	5	54063	6
cis-1,3-Dichloropropene	91437	8	93187	2
trans-1,3-Dichloropropene	85647	11	85509	0
1,1,2-Trichloroethane	112065	12	108962	3
Tetrachloroethene	136777	14	135071	1
1,3-Dichloropropane	89531	10	87499	2
Dibromochloromethane	72030	8	72845	1
1,2-Dibromoethane	48062	8	48583	1
Chlorobenzene	54838	8	52797	4
1,1,1,2-Tetrachloroethane	126272	10	124401	1
Bromoform	50442	8	51651	2
1,1,2,2-Tetrachloroethane	86153	17	89682	4
1,2,3-Trichloropropane	70240	11	68934	2
2-Chlorotoluene	44765	8	45059	1
4-Chlorotoluene	46223	8	46636	1
1,3-Dichlorobenzene	73463	10	72791	1
1,4-Dichlorobenzene	78426	11	76414	3
1,2-Dichlorobenzene	74471	10	72803	2

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab:	Thermo Analytical	Report Date:	07/11/96
		Lab P.N.:	L3510
GC Column 1:	J&W DB-VRX, 75m, 0.45mm ID	Client P.N.:	2581-112-T4-SAMP
Instrument ID:	OC	Initial Calibration Date:	06/30/96
		Daily Calibration Date:	07/01/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	24537	2
1,2,4-Trichlorobenzene	86267	12	84854	2
Hexachlorobutadiene	122627	14	118754	3
1,2,3-Trichlorobenzene	85565	14	82146	4
Benzene	15849	2	15515	2
Toluene	14971	4	14306	4
Ethylbenzene	13454	2	12936	4
p,m-Xylenes	15499	1	15065	3
o-Xylene	13254	2	12847	3
Styrene	17056	2	16509	3
Isopropylbenzene	10038	2	9726	3
Bromobenzene	34276	7	34791	2
Propylbenzene	13275	2	14458	9
1,3,5-Trimethylbenzene	18378	2	17883	3
tert-Butylbenzene	11218	10	9992	11
1,2,4-Trimethylbenzene	14062	3	13297	5
sec-Butylbenzene	11083	3	10621	4
4-Isopropyltoluene	10693	3	10280	4
n-Butylbenzene	11850	4	11453	3
Naphthalene	13153	6	11819	10
Carbon disulfide	1678	11	1655	1
MTBE	7346	7	7595	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab:	Thermo Analytical	Report Date:	07/11/96
		Lab P.N.:	L3510
GC Column 1:	J&W DB-VRX, 75m, 0.45mm ID	Client P.N.:	2581-112-T4-SAMP
Instrument ID:	OC	Initial Calibration Date:	06/30/96
		Daily Calibration Date:	07/02/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	52480	7
Chloromethane	58441	9	41509	29*
Vinyl chloride	76709	7	71740	6
Bromomethane	43281	8	42928	1
Chloroethane	79236	6	71125	10
Trichlorofluoromethane	114511	8	106692	7
1,1-Dichloroethene	109789	8	102256	7
Methylene chloride	133849	11	128980	4
trans-1,2-Dichloroethene	114567	8	104632	9
1,1-Dichloroethane	113583	7	106966	6
cis-1,2-Dichloroethene	114171	7	105439	8
2,2-Dichloropropane	96980	9	82724	15
Bromochloromethane	82078	7	76225	7
Chloroform	145387	9	133413	8
1,1,1-Trichloroethane	133003	8	121309	9
Carbon tetrachloride	144402	6	132551	8
1,1-Dichloropropene	50937	5	45723	10
1,2-Dichloroethane	108993	9	98390	10
Trichloroethene	145231	10	135365	7
1,2-Dichloropropane	102103	8	95851	6
Dibromomethane	54981	7	51212	7
Bromodichloromethane	105109	8	99449	5
2-Chloroethyl vinyl ether	50937	5	45723	10
cis-1,3-Dichloropropene	91437	8	84352	8
trans-1,3-Dichloropropene	85647	11	78412	8
1,1,2-Trichloroethane	112065	12	106168	5
Tetrachloroethene	136777	14	131744	4
1,3-Dichloropropane	89531	10	83933	6
Dibromochloromethane	72030	8	69253	4
1,2-Dibromoethane	48062	8	46418	3
Chlorobenzene	54838	8	52147	5
1,1,1,2-Tetrachloroethane	126272	10	119447	5
Bromoform	50442	8	48383	4
1,1,2,2-Tetrachloroethane	86153	17	73389	15
1,2,3-Trichloropropane	70240	11	65267	7
2-Chlorotoluene	44765	8	41893	6
4-Chlorotoluene	46223	8	43919	5
1,3-Dichlorobenzene	73463	10	67968	7
1,4-Dichlorobenzene	78426	11	73007	7
1,2-Dichlorobenzene	74471	10	69408	7

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab:	Thermo Analytical	Report Date:	07/11/96
		Lab P.N.:	L3510
GC Column 1:	J&W DB-VRX, 75m, 0.45mm ID	Client P.N.:	2581-112-T4-SAMP
Instrument ID:	OC	Initial Calibration Date:	06/30/96
		Daily Calibration Date:	07/02/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	22888	5
1,2,4-Trichlorobenzene	86267	12	78404	9
Hexachlorobutadiene	122627	14	111377	9
1,2,3-Trichlorobenzene	85565	14	76160	11
Benzene	15849	2	15441	3
Toluene	14971	4	14075	6
Ethylbenzene	13454	2	12753	5
p,m-Xylenes	15499	1	14799	5
o-Xylene	13254	2	12767	4
Styrene	17056	2	16255	5
Isopropylbenzene	10038	2	9606	4
Bromobenzene	34276	7	32471	5
Propylbenzene	13275	2	12859	3
1,3,5-Trimethylbenzene	18378	2	17428	5
tert-Butylbenzene	11218	10	9945	11
1,2,4-Trimethylbenzene	14062	3	13184	6
sec-Butylbenzene	11083	3	10514	5
4-Isopropyltoluene	10693	3	10149	5
n-Butylbenzene	11850	4	11116	6
Naphthalene	13153	6	12073	8
Carbon disulfide	1678	11	1734	3
MTBE	7346	7	7562	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

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1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274
Formerly Terra Tech Labs

LABORATORY REPORT

Client:	CDM, Inc.	Report Date:	7/10/96
Client Address:	18881 Von Karman, Suite 750	Lab P.N.:	L3510
	Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Lab Cert. #:	1155
Contact:	Suzanne Rowe		
Project Name:	Baldwin Park OU	Date Sampled:	6/25/96
Project Address:	Scott Place & Main Street	Date Received:	6/25/96
	GW Monitoring (2nd Quarter)	Date Analyzed:	6/26/96
		Physical State:	Liquid

Quality Assurance/Quality Control Summary

Parameter (Method)	QC Type	Percent Recovery	Duplicate Percent Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
Nitrate-N (EPA 300.0)	M	82	90	80-120	9	0-20
Nitrate-N (EPA 300.0)	L	94	94	80-120	0	0-20
Nitrite-N (EPA 300.0)	M	97	96	80-120	1	0-20
Nitrite-N (EPA 300.0)	L	101	98	80-120	3	0-20

M = Matrix Spike / Matrix Spike Duplicate

L = Laboratory Control Sample Spike / Spike Duplicate

Reviewed

Approved

The samples were received by Thermo Analytical in a chilled state, intact and accompanied by the Chain-of-Custody Record.
Acceptance of samples by Thermo Analytical is not an indication of condition upon receipt.
Laboratory Results apply only to the sample matrix analyzed and may not apply to an apparently identical or similar sample.
The Laboratory Report is the property of the client to whom it is addressed.
The Laboratory Results are only a portion of the Laboratory Report.

LABORATORY RESULTS

Client:	CDM, Inc.	Report Date:	7/10/96
Client Address:	18881 Von Karman, Suite 750	Lab P.N.:	L3510
	Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
Project Name:	Baldwin Park OU	Date Sampled:	6/25/96
Project Address:	Scott Place & Main Street	Date Analyzed:	6/26/96
	GW Monitoring (2nd Quarter)	Physical State:	Liquid

Client Sample ID	Nitrite-N EPA 300.0 mg/l	Nitrate-N EPA 300.0 mg/l
BP-GW-Z1000006-062596	ND	8.9
Method Blank	ND	ND
Quantitation Limits mg/l	0.25	0.25

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

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CHAIN-OF-CUSTODY RECORD

Client: CDM

Date: 6-25-96

Project Name: Baldwin Park Operable Unit

Client Reference #: 2581-112-T4-SAMP

Project Address: Scott Place + Main St.

GW Monitoring (2nd Quarter)

Project Contact (please print): Suzanne Rowe / Barbara Wells

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 48-96 Hours
- ☒ Normal
- ☐ Mobile Lab

Analysis Requested
All analyses and deliverables must be identified (see section 4.8 & 4.9 on reverse)

Page: 1 of 1

Lab Use Only
Lab Job # L3510
C.O. #
C.O. #
C.O. #
C.O. #

Sample Condition Upon Receipt:
Chilled ☒ yes ☐ no
Sealed ☐ yes ☒ no

Sample ID	Sample Location	Date	Time	Physical State: Solid (S), Liquid (L), Vapor (V)	8021 VOC's	300 Nitrate/Nitrite							Number of Containers	Container/Comments	Lab Sample Number
BP-GW-Z1000006-062596	Key Well	JM 25 June 1996	1035	L	X								3	40-ml VOAs + HCL	L3510-1
↓		↓	↓	L		X							1	150-ml poly	↓
BP-GW-Z1000006(F)-062596		↓	1050	L	X								3	40-ml VOAs + HCL	↓ -2

❶ Relinquished by (signature)*	❷ Received by (signature)	Date	7	Total Number of Containers
Suzanne M. Muñoz				
Company: CDM	Company:	Time:		
❸ Relinquished by (signature)*	❹ Received by Laboratory (signature): [signature]	Date: 6/25/96		
Company:	Laboratory Name: TMA Santa Ana	Time: 1:10pm		

Special Instructions: CLP TYPE PAPERWORK

*See Terms And Conditions (section 2) on reverse **before** signing

TERRA TECH LABS

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Fax 714.757.7274

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3902 E. University Drive, Suite 4
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Tel 602.437.9367 Fax 602.437.9362

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TMA
Thermo Analytical

29 1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274

Formerly Terra Tech Labs

July 23, 1996

Ms. Suzanne Rowe
Camp Dresser & McKee
18881 Von Karman, Suite 650
Irvine, CA 92715

RE: CLP-Like Deliverables Case Narrative for Project Number 2581-112-T4-SAMP/L3516

Dear Ms. Rowe:

Listed below is additional information to clarify special circumstances that were encountered during the analysis of the above referenced project. This letter should be forwarded to the appropriate agency along with the deliverables package enclosed.

The water samples received on 06/26/96 were analyzed by Thermo Analytical for Volatile Organic Compounds (VOC's) by EPA Method 8021 and Nitrate/Nitrite by EPA Method 300.0.

The EPA Method 8021 samples taken on 06/26/96 were analyzed 07/01/96 which is within the allowable method holding time. The samples and associated quality control samples may have been analyzed during the evening shift via auto-samplers both before and after midnight. The dates reported on the forms will then include one date for the samples run before midnight and a different date for the samples run after midnight. All of the samples are considered to have been run in one batch, and will have one set of quality control data.

The 07/01/96-07/02/96 continuing calibrations had one compound with percent differences outside the acceptable QC limits. Chloromethane had response factors less than the initial calibration response factors. However, the confirmation column Chloromethane response factors were greater than the initial calibration response factors. Since the compounds was not detected in any of the samples, the results were reported as is.

Target compounds which were analyzed for but not detected in the samples were flagged with a "U" on the sample data forms. If a "U" flag was used, the method detection limit (MDL) for that compound was inserted in the corresponding concentration column. A "B" flag was used for compounds which had detectable levels present in the associated method blank.

If you should have any questions or need further information, please contact me at 714.757.7022.

Sincerely,

Don Burley
Program Manager

Enclosure

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/17/96
Client:	CDM, Inc.	Lab P.N.:	L3516
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/26/96
Project Name:	Baldwin Park OU	Date Received:	06/26/96
Project Address:	Quarterly Monitoring - 2nd	Date Analyzed:	07/01/96
	Big Dalton	Time Analyzed:	06:00
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900035-062696	Lab Sample ID:	L3516-1

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	2.0	
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.43	
156-59-4	cis-1,2-Dichloroethene	1.1	
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	1.4	
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.63	
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	1.7	
79-01-6	Trichloroethene	15	
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	3.9	
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/17/96
Client:	CDM, Inc.	Lab P.N.:	L3516
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/26/96
Project Name:	Baldwin Park OU	Date Received:	06/26/96
Project Address:	Quarterly Monitoring - 2nd	Date Analyzed:	07/01/96
	Big Dalton	Time Analyzed:	06:00
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900035-062696	Lab Sample ID:	L3516-1

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.18	
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/17/96
Client:	CDM, Inc.	Lab P.N.:	L3516
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/26/96
Project Name:	Baldwin Park OU	Date Received:	06/26/96
Project Address:	Quarterly Monitoring - 2nd	Date Analyzed:	07/01/96
	Big Dalton	Time Analyzed:	06:41
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900035(K)-062696	Lab Sample ID:	L3516-2

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	2.0	
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.24	
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.41	
156-59-4	cis-1,2-Dichloroethene	1.2	
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	1.4	
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.62	
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	1.7	
79-01-6	Trichloroethene	16	
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	4.3	
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/17/96
Client:	CDM, Inc.	Lab P.N.:	L3516
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/26/96
Project Name:	Baldwin Park OU	Date Received:	06/26/96
Project Address:	Quarterly Monitoring - 2nd	Date Analyzed:	07/01/96
	Big Dalton	Time Analyzed:	06:41
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900035(K)-062696	Lab Sample ID:	L3516-2

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/17/96
Client:	CDM, Inc.	Lab P.N.:	L3516
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	Quarterly Monitoring - 2nd	Date Analyzed:	07/01/96
	Big Dalton	Time Analyzed:	04:37
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	06/30 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/17/96
Client:	CDM, Inc.	Lab P.N.:	L3516
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	Quarterly Monitoring - 2nd	Date Analyzed:	07/01/96
	Big Dalton	Time Analyzed:	04:37
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	06/30 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Surrogate Recovery

Lab:	Thermo Analytical	Report Date:	07/17/96
Client:	CDM, Inc.	Lab P.N.:	L3516
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/01/96-07/02/96
Project Name:	Baldwin Park OU		
Project Address:	Quarterly Monitoring - 2nd Big Dalton		
Matrix:	Liquid		
GC Column 1:	DB-VRX, 75m, 0.45 mmID	GC ID:	OC

LAB SAMPLE NUMBER	% REC S 1 #	% REC S 2 #	% REC S 3 #
CCV	94	85	96
CCV	103	91	98
CCV	99	86	100
Method Blank	96	96	102
L3516-1	104	99	101
L3516-2	103	106	103
LCS	94	101	99
MS	89	87	94
MSD	90	92	100
QC Limits:	75-125	75-125	75-125

S 1 = 2-Chloropropane
S 2 = 1,4-Dichlorobutane
S 3 = aaa-Trifluorotoluene

Column used to flag recovery values with an asterisk.

* Value outside of QC limits.

TMA
Thermo Analytical

EPA 8021 Matrix Spike/Matrix Spike Duplicate Recovery

Lab:	Thermo Analytical	Report Date:	07/17/96
Client:	CDM, Inc.	Lab P.N.:	L3516
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/01/96
Project Name:	Baldwin Park OU		
Project Address:	Quarterly Monitoring - 2nd Big Dalton		
Matrix:	Liquid		
Client Sample ID:	BP-GW-MW51102-062496	Lab Sample ID:	L3506-2

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONC. (µg/L)	MS CONC. (µg/L)	MS % REC. #	QC LIMITS REC.
Benzene	10.0	0	10.3	103	74-121
Toluene	10.0	0.26	10.0	97	72-121
Ethylbenzene	10.0	0	9.95	100	72-117
o-Xylene	10.0	0	10.0	100	66-124
1,1-Dichloroethane	10.0	0.35	9.91	96	73-121
1,1,1-Trichloroethane	10.0	0.29	9.74	95	72-126
cis-1,3-Dichloropropene	10.0	0	9.52	95	58-124
Chlorobenzene	10.0	0	10.5	105	52-131

COMPOUND	SPIKE ADDED (µg/L)	MSD CONC. (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	10.0	10.4	104	1	0-10	74-121
Toluene	10.0	10.1	98	1	0-16	72-121
Ethylbenzene	10.0	10.2	102	2	0-14	72-117
o-Xylene	10.0	10.3	103	3	0-14	66-124
1,1-Dichloroethane	10.0	9.79	94	2	0-18	73-121
1,1,1-Trichloroethane	10.0	9.28	90	5	0-15	72-126
cis-1,3-Dichloropropene	10.0	9.44	94	1	0-22	58-124
Chlorobenzene	10.0	10.5	105	0	0-42	52-131

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

RPD: 0 out of 8 outside limits.
Spike Recovery: 0 out of 16 outside limits.

TMA
Thermo Analytical

EPA 8021 Laboratory Control Sample Recovery

Lab:	Thermo Analytical	Report Date:	07/17/96
Client:	CDM, Inc.	Lab P.N.:	L3516
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/01/96
Project Name:	Baldwin Park OU		
Project Address:	Quarterly Monitoring - 2nd Big Dalton		
Matrix:	Liquid		
LCS Source:	Ultra Scientific		
Lab Sample ID:	LCS		

COMPOUND	SPIKE ADDED (µg/L)	LCS CONC. (µg/L)	LCS % REC. #	QC LIMITS REC.
Benzene	10.0	9.81	98	75-125
Toluene	10.0	9.55	96	75-125
Ethylbenzene	10.0	9.56	96	75-125
o-Xylene	10.0	9.92	99	75-125
1,1-Dichloroethane	10.0	9.53	95	75-125
1,1,1-Trichloroethane	10.0	9.02	90	75-125
cis-1,3-Dichloropropene	10.0	9.37	94	75-125
Chlorobenzene	10.0	9.07	91	75-125

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

Spike Recovery: 0 out of 8 outside limits.

Comments:

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical
GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/17/96
Lab P.N.: L3516
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/01/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	52097	8
Chloromethane	58441	9	45870	22*
Vinyl chloride	76709	7	70728	8
Bromomethane	43281	8	40933	5
Chloroethane	79236	6	71570	10
Trichlorofluoromethane	114511	8	107408	6
1,1-Dichloroethene	109789	8	101591	7
Methylene chloride	133849	11	124903	7
trans-1,2-Dichloroethene	114567	8	108741	5
1,1-Dichloroethane	113583	7	108085	5
cis-1,2-Dichloroethene	114171	7	107490	6
2,2-Dichloropropane	96980	9	85701	12
Bromochloromethane	82078	7	74944	9
Chloroform	145387	9	134335	8
1,1,1-Trichloroethane	133003	8	123309	7
Carbon tetrachloride	144402	6	134694	7
1,1-Dichloropropene	50937	5	47532	7
1,2-Dichloroethane	108993	9	97747	10
Trichloroethene	145231	10	129051	11
1,2-Dichloropropane	102103	8	94144	8
Dibromomethane	54981	7	48602	12
Bromodichloromethane	105109	8	98674	6
2-Chloroethyl vinyl ether	50937	5	47532	7
cis-1,3-Dichloropropene	91437	8	82710	10
trans-1,3-Dichloropropene	85647	11	76323	11
1,1,2-Trichloroethane	112065	12	101652	9
Tetrachloroethene	136777	14	123821	9
1,3-Dichloropropane	89531	10	80870	10
Dibromochloromethane	72030	8	65962	8
1,2-Dibromoethane	48062	8	43151	10
Chlorobenzene	54838	8	51957	5
1,1,1,2-Tetrachloroethane	126272	10	115607	8
Bromoform	50442	8	45863	9
1,1,2,2-Tetrachloroethane	86153	17	74109	14
1,2,3-Trichloropropane	70240	11	63158	10
2-Chlorotoluene	44765	8	41831	7
4-Chlorotoluene	46223	8	44603	4
1,3-Dichlorobenzene	73463	10	67740	8
1,4-Dichlorobenzene	78426	11	71539	9
1,2-Dichlorobenzene	74471	10	69269	7

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/17/96
Lab P.N.: L3516
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/01/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	22007	9
1,2,4-Trichlorobenzene	86267	12	77440	10
Hexachlorobutadiene	122627	14	106319	13
1,2,3-Trichlorobenzene	85565	14	78537	8
Benzene	15849	2	14763	7
Toluene	14971	4	13715	8
Ethylbenzene	13454	2	12462	7
p,m-Xylenes	15499	1	14500	6
o-Xylene	13254	2	12462	6
Styrene	17056	2	15795	7
Isopropylbenzene	10038	2	9360	7
Bromobenzene	34276	7	31837	7
Propylbenzene	13275	2	12274	8
1,3,5-Trimethylbenzene	18378	2	16943	8
tert-Butylbenzene	11218	10	9559	15
1,2,4-Trimethylbenzene	14062	3	12829	9
sec-Butylbenzene	11083	3	10207	8
4-Isopropyltoluene	10693	3	9677	10
n-Butylbenzene	11850	4	10544	11
Naphthalene	13153	6	11565	12
Carbon disulfide	1678	11	1657	1
MTBE	7346	7	7581	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical
GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/17/96
Lab P.N.: L3516
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/01/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	58107	3
Chloromethane	58441	9	48975	16*
Vinyl chloride	76709	7	79796	4
Bromomethane	43281	8	45560	5
Chloroethane	79236	6	77371	2
Trichlorofluoromethane	114511	8	117755	3
1,1-Dichloroethene	109789	8	111781	2
Methylene chloride	133849	11	138379	3
trans-1,2-Dichloroethene	114567	8	116119	1
1,1-Dichloroethane	113583	7	115359	2
cis-1,2-Dichloroethene	114171	7	115851	1
2,2-Dichloropropane	96980	9	105882	9
Bromochloromethane	82078	7	82093	0
Chloroform	145387	9	145029	0
1,1,1-Trichloroethane	133003	8	134392	1
Carbon tetrachloride	144402	6	149834	4
1,1-Dichloropropene	50937	5	54063	6
1,2-Dichloroethane	108993	9	106236	3
Trichloroethene	145231	10	136987	6
1,2-Dichloropropane	102103	8	101903	0
Dibromomethane	54981	7	54605	1
Bromodichloromethane	105109	8	101398	4
2-Chloroethyl vinyl ether	50937	5	54063	6
cis-1,3-Dichloropropene	91437	8	93187	2
trans-1,3-Dichloropropene	85647	11	85509	0
1,1,2-Trichloroethane	112065	12	108962	3
Tetrachloroethene	136777	14	135071	1
1,3-Dichloropropane	89531	10	87499	2
Dibromochloromethane	72030	8	72845	1
1,2-Dibromoethane	48062	8	48583	1
Chlorobenzene	54838	8	52797	4
1,1,1,2-Tetrachloroethane	126272	10	124401	1
Bromoform	50442	8	51651	2
1,1,2,2-Tetrachloroethane	86153	17	89682	4
1,2,3-Trichloropropane	70240	11	68934	2
2-Chlorotoluene	44765	8	45059	1
4-Chlorotoluene	46223	8	46636	1
1,3-Dichlorobenzene	73463	10	72791	1
1,4-Dichlorobenzene	78426	11	76414	3
1,2-Dichlorobenzene	74471	10	72803	2

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/17/96

Lab P.N.: L3516

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 06/30/96

Daily Calibration Date: 07/01/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	24537	2
1,2,4-Trichlorobenzene	86267	12	84854	2
Hexachlorobutadiene	122627	14	118754	3
1,2,3-Trichlorobenzene	85565	14	82146	4
Benzene	15849	2	15515	2
Toluene	14971	4	14306	4
Ethylbenzene	13454	2	12936	4
p,m-Xylenes	15499	1	15065	3
o-Xylene	13254	2	12847	3
Styrene	17056	2	16509	3
Isopropylbenzene	10038	2	9726	3
Bromobenzene	34276	7	34791	2
Propylbenzene	13275	2	14458	9
1,3,5-Trimethylbenzene	18378	2	17883	3
tert-Butylbenzene	11218	10	9992	11
1,2,4-Trimethylbenzene	14062	3	13297	5
sec-Butylbenzene	11083	3	10621	4
4-Isopropyltoluene	10693	3	10280	4
n-Butylbenzene	11850	4	11453	3
Naphthalene	13153	6	11819	10
Carbon disulfide	1678	11	1655	1
MTBE	7346	7	7595	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical
GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/17/96
Lab P.N.: L3516
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/02/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	52480	7
Chloromethane	58441	9	41509	29*
Vinyl chloride	76709	7	71740	6
Bromomethane	43281	8	42928	1
Chloroethane	79236	6	71125	10
Trichlorofluoromethane	114511	8	106692	7
1,1-Dichloroethene	109789	8	102256	7
Methylene chloride	133849	11	128980	4
trans-1,2-Dichloroethene	114567	8	104632	9
1,1-Dichloroethane	113583	7	106966	6
cis-1,2-Dichloroethene	114171	7	105439	8
2,2-Dichloropropane	96980	9	82724	15
Bromochloromethane	82078	7	76225	7
Chloroform	145387	9	133413	8
1,1,1-Trichloroethane	133003	8	121309	9
Carbon tetrachloride	144402	6	132551	8
1,1-Dichloropropene	50937	5	45723	10
1,2-Dichloroethane	108993	9	98390	10
Trichloroethene	145231	10	135365	7
1,2-Dichloropropane	102103	8	95851	6
Dibromomethane	54981	7	51212	7
Bromodichloromethane	105109	8	99449	5
2-Chloroethyl vinyl ether	50937	5	45723	10
cis-1,3-Dichloropropene	91437	8	84352	8
trans-1,3-Dichloropropene	85647	11	78412	8
1,1,2-Trichloroethane	112065	12	106168	5
Tetrachloroethene	136777	14	131744	4
1,3-Dichloropropane	89531	10	83933	6
Dibromochloromethane	72030	8	69253	4
1,2-Dibromoethane	48062	8	46418	3
Chlorobenzene	54838	8	52147	5
1,1,1,2-Tetrachloroethane	126272	10	119447	5
Bromoform	50442	8	48383	4
1,1,2,2-Tetrachloroethane	86153	17	73389	15
1,2,3-Trichloropropane	70240	11	65267	7
2-Chlorotoluene	44765	8	41893	6
4-Chlorotoluene	46223	8	43919	5
1,3-Dichlorobenzene	73463	10	67968	7
1,4-Dichlorobenzene	78426	11	73007	7
1,2-Dichlorobenzene	74471	10	69408	7

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical
GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/17/96
Lab P.N.: L3516
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/02/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	22888	5
1,2,4-Trichlorobenzene	86267	12	78404	9
Hexachlorobutadiene	122627	14	111377	9
1,2,3-Trichlorobenzene	85565	14	76160	11
Benzene	15849	2	15441	3
Toluene	14971	4	14075	6
Ethylbenzene	13454	2	12753	5
p,m-Xylenes	15499	1	14799	5
o-Xylene	13254	2	12767	4
Styrene	17056	2	16255	5
Isopropylbenzene	10038	2	9606	4
Bromobenzene	34276	7	32471	5
Propylbenzene	13275	2	12859	3
1,3,5-Trimethylbenzene	18378	2	17428	5
tert-Butylbenzene	11218	10	9945	11
1,2,4-Trimethylbenzene	14062	3	13184	6
sec-Butylbenzene	11083	3	10514	5
4-Isopropyltoluene	10693	3	10149	5
n-Butylbenzene	11850	4	11116	6
Naphthalene	13153	6	12073	8
Carbon disulfide	1678	11	1734	3
MTBE	7346	7	7562	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

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1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274
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LABORATORY REPORT

Client:	CDM, Inc.	Report Date:	7/10/96
Client Address:	18881 Von Karman, Suite 750	Lab P.N.:	L3516
	Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Lab Cert. #:	1155
Contact:	Suzanne Rowe		
Project Name:	Baldwin Park OU	Date Sampled:	6/26/96
Project Address:	Quarterly Monitoring - 2nd.	Date Received:	6/26/96
	Big Dalton	Date Analyzed:	6/27/96
		Physical State:	Liquid

Quality Assurance/Quality Control Summary

Parameter (Method)	QC Type	Percent Recovery	Duplicate Percent Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
Nitrate-N (EPA 300.0)	M	90	95	80-120	5	0-20
Nitrate-N (EPA 300.0)	L	93	93	80-120	0	0-20
Nitrite-N (EPA 300.0)	M	96	99	80-120	3	0-20
Nitrite-N (EPA 300.0)	L	98	95	80-120	3	0-20

M = Matrix Spike / Matrix Spike Duplicate

L = Laboratory Control Sample Spike / Spike Duplicate

Reviewed

Approved

The samples were received by Thermo Analytical in a chilled state, intact and accompanied by the Chain-of-Custody Record.
Acceptance of samples by Thermo Analytical is not an indication of condition upon receipt.
Laboratory Results apply only to the sample matrix analyzed and may not apply to an apparently identical or similar sample.
The Laboratory Report is the property of the client to whom it is addressed.
The Laboratory Results are only a portion of the Laboratory Report.

LABORATORY RESULTS

Client:	CDM, Inc.	Report Date:	7/10/96
Client Address:	18881 Von Karman, Suite 750	Lab P.N.:	L3516
	Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
Project Name:	Baldwin Park OU	Date Sampled:	6/26/96
Project Address:	Quarterly Monitoring - 2nd.	Date Analyzed:	6/27/96
	Big Dalton	Physical State:	Liquid

Client Sample ID	Nitrite-N EPA 300.0 mg/l	Nitrate-N EPA 300.0 mg/l
BP-GW-01900035-062696	ND	4.3
BP-GW-01900035(K)-062696	ND	4.3
Method Blank	ND	ND
Quantitation Limits mg/l	0.25	0.25

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

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CHAIN-OF-CUSTODY RECORD

3284

Client: CDM

Date: June 26/96

Project Name / #: BP04 / Quarterly Monitoring - 2nd

Project Address: Big Dalton.

P.O.#: 2581-112-T4-SAMP

Quote #:

Project Contact (please print): Suzanne Rowe / B. Wells

State where samples were collected:

Page 1 of 1

Lab Use Only
Lab Job # L3516
C.O #
C.O. #
C.O. #
C.O. #
Sample Condition Upon Receipt:
Chilled X yes no
Sealed yes X no

Analysis Requested All analyses and deliverables must be identified

Sample Identification	Date Collected	Time Collected	Grab	Comp.	Lab Sample Number	Physical State: Solid (S), Liquid (L), Vapor (V)	Preservation: Iced (I), Filtered (F), Preservative (P)	8021 VOCs	300 Nitrate/Nitrite						Total Number of Containers	Remarks	Temp of Sample Upon Receipt (if requested)
BP-GW-01900035-062696	6/26/96	1350	X		L3516-1	L	IP	X							3	40-ml VOAs + HCL	
↓	↓	↓	X		↓	L	I		X						1	100ml poly	
BP-GW-01900035(K)-062696	6/26/96	1550	X		L3516-2	L	IP	X							3	40-ml VOAs + HCL	
↓	↓	↓	X		↓	L	I		X						1	100-ml poly	
															8	Total Number of Containers	

Method of Shipment

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to TMA approval and surcharge)

Date Results are Needed:

Rush Results requested by (please circle): Phone Fax

Phone #:

Fax #:

Data Package Options (please circle if requested)

QC Summary
Type I, Type II, Type III, Type IV, Type V, Type VI, Type VII, Other

Site Specific QC Required?: YES NO
(if yes, indicate QC sample and submit triplicate volume)

SDG Complete?: YES NO

❶ Relinquished by (signature)*	❷ Received by (signature)	Date
[signature]	[signature]	6/26/96
Company: CDM	Company: TMA	Time: 1705 pm
❸ Relinquished by (signature)*	❹ Received by Laboratory (signature)	Date
Company	Laboratory Name	Time

Special Instructions
* CLP TYPE PAPERWORK *

*See Terms And Conditions on reverse **before** signing

☐ 300 Second Avenue, Waltham, MA 02254
(617) 890-7200, Fax (617) 890-3883

☐ 603 South Main Street, New Ellenton, SC 29809
(803) 652-3324, Fax (803) 652-7995

☑ 1920 E. Deere Avenue, Santa Ana, CA 92705
(714) 757-7022, Fax (714) 757-7274

☐ 387 Airport Industrial Drive, Ypsilanti, MI 48198
(313) 480-2500, Fax (313) 480-2295

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(714) 757-7022 Fax: 757-7274

Formerly Terra Tech Labs

CAMP DRESSER & McKEE, INC.
18881 VON KARMAN, STE 650
IRVINE CA 92715

JUL 26 1996

July 25, 1996

Ms. Suzanne Rowe
Camp Dresser & McKee
18881 Von Karman, Suite 650
Irvine, CA 92715

RE: CLP-Like Deliverables Case Narrative for Project Number 2581-112-T4-SAMP/L3522

Dear Ms. Rowe:

Listed below is additional information to clarify special circumstances that were encountered during the analysis of the above referenced project. This letter should be forwarded to the appropriate agency along with the deliverables package enclosed.

The water samples received on 06/27/96 were analyzed by Thermo Analytical for Volatile Organic Compounds (VOC's) by EPA Method 8021, Metals by EPA 6000/7000 and various Wet Chemistry parameters.

The EPA Method 8021 samples taken on 06/27/96 were analyzed 07/10/96-7/11/96 which is within the allowable method holding time. The samples and associated quality control samples may have been analyzed during the evening shift via auto-samplers both before and after midnight. The dates reported on the forms will then include one date for the samples run before midnight and a different date for the samples run after midnight. All of the samples are considered to have been run in one batch, and will have one set of quality control data.

The 07/10 Method Blank analyzed 07/11/96 had detectable levels of Styrene and sec-Butylbenzene. However, these were not compounds of interest for the dilution analyses.

The 07/10/96 continuing calibration had three compounds with percent differences outside the acceptable QC limits. Chloromethane, Trichloroethene and Dibromomethane had response factors less than the initial calibration response factors. However, the Chloromethane, Trichloroethene and Dibromomethane confirmation column response factors were greater than the initial calibration response factors. Since Chloromethane and Dibromomethane were not detected in any of the samples, the results were reported as is. Because Trichloroethene was detected in the samples, the results were quantified on the DB-624 column. The results were confirmed by PID on both columns.

The 07/11/96 continuing calibrations had several compounds with percent differences outside the acceptable QC limits. These compounds had response factors less than the initial calibration response factors. However, the confirmation column response factors were greater than the initial calibration response factors. Since the compounds were not detected in any of the samples, the results were reported as is.

The Metals were analyzed 07/02/96-07/08/96. The matrix spike percent recovery for Calcium was outside the acceptableQC limits due to the high concentration found in the native sample. The post spike sample percent recoveries for Calcium and Magnesium were outside the acceptable QC limits due to the high concentrations found in the native sample.

Target compounds which were analyzed for but not detected in the samples were flagged with a "U" on the sample data forms. If a "U" flag was used, the method detection limit (MDL) for that compound was inserted in the corresponding concentration column. A "B" flag was used for compounds which had detectable levels present in the associated method blank.

Sincerely,

Don Burley

Don Burley
Program Manager

Enclosure

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/27/96
Project Name:	Baldwin Park OU	Date Received:	06/27/96
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/10/96
	Production Wells	Time Analyzed:	17:59
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01902920-062796	Lab Sample ID:	L3522-1

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.31	
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	2.6	
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

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EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/27/96
Project Name:	Baldwin Park OU	Date Received:	06/27/96
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/10/96
	Production Wells	Time Analyzed:	17:59
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01902920-062796	Lab Sample ID:	L3522-1

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

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EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/27/96
Project Name:	Baldwin Park OU	Date Received:	06/27/96
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/10/96
	Production Wells	Time Analyzed:	18:41
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-W10NCMW1-062796	Lab Sample ID:	L3522-2

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.80	
75-35-4	1,1-Dichloroethene	20	
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.71	
156-59-4	cis-1,2-Dichloroethene	14	
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	2.4	
71-55-6	1,1,1-Trichloroethane	9.9	
56-23-5	Carbon tetrachloride	1.9	
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	2.20	
79-01-6	Trichloroethene	130	D
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	150	D
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

D = Dilution factor = 10 (analyzed 07/11/96).
U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

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EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/27/96
Project Name:	Baldwin Park OU	Date Received:	06/27/96
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/10/96
	Production Wells	Time Analyzed:	18:41
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-W10NCMW1-062796	Lab Sample ID:	L3522-2

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.15	
108-88-3	Toluene	0.19	
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

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EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/27/96
Project Name:	Baldwin Park OU	Date Received:	06/27/96
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/10/96
	Production Wells	Time Analyzed:	19:23
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-08000070(F)-062796	Lab Sample ID:	L3522-3

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1.2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1.3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

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Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/27/96
Project Name:	Baldwin Park OU	Date Received:	06/27/96
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/10/96
	Production Wells	Time Analyzed:	19:23
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-08000070(F)-062796	Lab Sample ID:	L3522-3

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/27/96
Project Name:	Baldwin Park OU	Date Received:	06/27/96
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/10/96
	Production Wells	Time Analyzed:	20:04
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-08000070-062796	Lab Sample ID:	L3522-4

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	5.5	
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.95	
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Sampled:	06/27/96
Project Name:	Baldwin Park OU	Date Received:	06/27/96
Project Address:	2nd Quarterly Sampling Production Wells	Date Analyzed:	07/10/96
		Time Analyzed:	20:04
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-08000070-062796	Lab Sample ID:	L3522-4

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Sampled:	06/27/96
Project Name:	Baldwin Park OU	Date Received:	06/27/96
Project Address:	2nd Quarterly Sampling Production Wells	Date Analyzed:	07/10/96
		Time Analyzed:	20:45
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01902169-062796	Lab Sample ID:	L3522-5

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	36	D
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.57	
75-34-3	1,1-Dichloroethane	1.5	
156-59-4	cis-1,2-Dichloroethene	27	D
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	67	D
71-55-6	1,1,1-Trichloroethane	24	
56-23-5	Carbon tetrachloride	0.44	
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.93	
79-01-6	Trichloroethene	260	D
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	360	D
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.68	
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

D = Dilution factor = 50 (analyzed 07/11/96).
U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	06/27/96
Project Name:	Baldwin Park OU	Date Received:	06/27/96
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/10/96
	Production Wells	Time Analyzed:	20:45
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01902169-062796	Lab Sample ID:	L3522-5

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/10/96
	Production Wells	Time Analyzed:	17:18
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/10 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/10/96
	Production Wells	Time Analyzed:	17:18
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/10 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/11/96
	Production Wells	Time Analyzed:	03:40
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/10 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/11/96
	Production Wells	Time Analyzed:	03:40
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/10 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.12	
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Surrogate Recovery

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/10/96-07/11/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Quarterly Sampling Production Wells		
Matrix:	Liquid		
GC Column 1:	DB-VRX, 75m, 0.45 mmID	GC ID:	OC

LAB SAMPLE NUMBER	% REC S 1 #	% REC S 2 #	% REC S 3 #
CCV	96	82	102
CCV	92	90	96
CCV	104	91	102
Method Blank	86	83	103
L3522-1	92	95	105
L3522-2	90	97	104
L3522-3	88	94	103
L3522-4	82	91	102
L3522-5	83	90	105
Method Blank	96	95	103
L3522-2 DIL	81	87	102
L3522-5 DIL	78	85	100
LCS	96	85	100
MS	91	87	104
MSD	94	82	102
QC Limits:	75-125	75-125	75-125

S 1 = 2-Chloropropane
S 2 = 1,4-Dichlorobutane
S 3 = aaa-Trifluorotoluene

Column used to flag recovery values with an asterisk.

* Value outside of QC limits.

TMA
Thermo Analytical

EPA 8021 Matrix Spike/Matrix Spike Duplicate Recovery

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/11/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Quarterly Sampling Production Wells		
Matrix:	Liquid		
Client Sample ID:	BP-GW-MW51502-070996	Lab Sample ID:	L3547-5

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONC. (µg/L)	MS CONC. (µg/L)	MS % REC. #	QC LIMITS REC.
Benzene	10.0	0	9.85	99	74-121
Toluene	10.0	0.27	9.72	95	72-121
Ethylbenzene	10.0	0	9.69	97	72-117
o-Xylene	10.0	0.16	9.77	96	66-124
1,1-Dichloroethane	10.0	1.28	10.3	90	73-121
1,1,1-Trichloroethane	10.0	8.74	17.7	90	72-126
cis-1,3-Dichloropropene	10.0	0	9.52	95	58-124
Chlorobenzene	10.0	0	10.2	102	52-131

COMPOUND	SPIKE ADDED (µg/L)	MSD CONC. (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	10.0	9.48	95	4	0-10	74-121
Toluene	10.0	9.40	91	4	0-16	72-121
Ethylbenzene	10.0	9.42	94	3	0-14	72-117
o-Xylene	10.0	9.56	94	2	0-14	66-124
1,1-Dichloroethane	10.0	10.5	92	2	0-18	73-121
1,1,1-Trichloroethane	10.0	17.9	92	2	0-15	72-126
cis-1,3-Dichloropropene	10.0	9.40	94	1	0-22	58-124
Chlorobenzene	10.0	10.0	100	2	0-42	52-131

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

RPD: 0 out of 8 outside limits.
Spike Recovery: 0 out of 16 outside limits.

TMA
Thermo Analytical

EPA 8021 Laboratory Control Sample Recovery

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/11/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Quarterly Sampling Production Wells		

Matrix: Liquid
LCS Source: Ultra Scientific
Lab Sample ID: LCS

COMPOUND	SPIKE ADDED (µg/L)	LCS CONC. (µg/L)	LCS % REC. #	QC LIMITS REC.
Benzene	10.0	9.71	97	75-125
Toluene	10.0	9.45	95	75-125
Ethylbenzene	10.0	9.62	96	75-125
o-Xylene	10.0	9.77	98	75-125
1,1-Dichloroethane	10.0	9.19	92	75-125
1,1,1-Trichloroethane	10.0	9.49	95	75-125
cis-1,3-Dichloropropene	10.0	9.74	97	75-125
Chlorobenzene	10.0	9.78	98	75-125

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

Spike Recovery: 0 out of 8 outside limits.

Comments:

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3522
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/10/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	51701	9
Chloromethane	58449	9	33953	42*
Vinyl chloride	76709	7	77511	1
Bromomethane	43281	8	37473	13
Chloroethane	79236	6	76337	4
Trichlorofluoromethane	114511	8	110346	4
1,1-Dichloroethene	109789	8	102506	7
Methylene chloride	133849	11	131045	2
trans-1,2-Dichloroethene	114567	8	109123	5
1,1-Dichloroethane	113583	7	107625	5
cis-1,2-Dichloroethene	114171	7	105814	7
2,2-Dichloropropane	96980	9	107682	11
Bromochloromethane	82078	7	74360	9
Chloroform	145387	9	131379	10
1,1,1-Trichloroethane	133003	8	128465	3
Carbon tetrachloride	144402	6	142417	1
1,1-Dichloropropene	50937	5	49030	4
1,2-Dichloroethane	108993	9	95969	12
Trichloroethene	145231	10	119526	18*
1,2-Dichloropropane	102103	8	92435	9
Dibromomethane	54981	7	46396	16*
Bromodichloromethane	105109	8	103787	1
2-Chloroethyl vinyl ether	50937	5	49030	4
cis-1,3-Dichloropropene	91437	8	85475	7
trans-1,3-Dichloropropene	85647	11	77095	10
1,1,2-Trichloroethane	112065	12	103665	7
Tetrachloroethene	136777	14	125200	8
1,3-Dichloropropane	89531	10	82463	8
Dibromochloromethane	72030	8	67908	6
1,2-Dibromoethane	48062	8	44398	8
Chlorobenzene	54838	8	56234	3
1,1,1,2-Tetrachloroethane	126272	10	109990	13
Bromoform	50442	8	45211	10
1,1,2,2-Tetrachloroethane	86153	17	82746	4
1,2,3-Trichloropropane	70240	11	65419	7
2-Chlorotoluene	44765	8	38874	13
4-Chlorotoluene	46223	8	44709	3
1,3-Dichlorobenzene	73463	10	63053	14
1,4-Dichlorobenzene	78426	11	74682	5
1,2-Dichlorobenzene	74471	10	69354	7

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3522
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/10/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	20416	15
1,2,4-Trichlorobenzene	86267	12	74989	13
Hexachlorobutadiene	122627	14	107410	12
1,2,3-Trichlorobenzene	85565	14	80931	5
Benzene	15849	2	15379	3
Toluene	14971	4	14132	6
Ethylbenzene	13454	2	12958	4
p,m-Xylenes	15499	1	15088	3
o-Xylene	13254	2	12966	2
Styrene	17056	2	16595	3
Isopropylbenzene	10038	2	9720	3
Bromobenzene	34276	7	31855	7
Propylbenzene	13275	2	12542	6
1,3,5-Trimethylbenzene	18378	2	17837	3
tert-Butylbenzene	11218	10	10080	10
1,2,4-Trimethylbenzene	14062	3	13328	5
sec-Butylbenzene	11083	3	10728	3
4-Isopropyltoluene	10693	3	10147	5
n-Butylbenzene	11850	4	11214	5
Naphthalene	13153	6	12079	8
Carbon disulfide	1678	11	1659	1
MTBE	7346	7	7602	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/23/96

Lab P.N.: L3522

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 06/30/96

Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	49392	13
Chloromethane	58449	9	28374	51*
Vinyl chloride	76709	7	74230	3
Bromomethane	43281	8	36064	17*
Chloroethane	79236	6	74301	6
Trichlorofluoromethane	114511	8	107460	6
1,1-Dichloroethene	109789	8	97827	11
Methylene chloride	133849	11	136235	2
trans-1,2-Dichloroethene	114567	8	108636	5
1,1-Dichloroethane	113583	7	109014	4
cis-1,2-Dichloroethene	114171	7	104771	8
2,2-Dichloropropane	96980	9	98029	1
Bromochloromethane	82078	7	74725	9
Chloroform	145387	9	132427	9
1,1,1-Trichloroethane	133003	8	127616	4
Carbon tetrachloride	144402	6	136105	6
1,1-Dichloropropene	50937	5	45793	10
1,2-Dichloroethane	108993	9	95240	13
Trichloroethene	145231	10	131691	9
1,2-Dichloropropane	102103	8	89349	12
Dibromomethane	54981	7	44999	18*
Bromodichloromethane	105109	8	104916	0
2-Chloroethyl vinyl ether	50937	5	45793	10
cis-1,3-Dichloropropene	91437	8	82986	9
trans-1,3-Dichloropropene	85647	11	73351	14
1,1,2-Trichloroethane	112065	12	103653	8
Tetrachloroethene	136777	14	123803	9
1,3-Dichloropropane	89531	10	82352	8
Dibromochloromethane	72030	8	67327	7
1,2-Dibromoethane	48062	8	44871	7
Chlorobenzene	54838	8	55756	2
1,1,1,2-Tetrachloroethane	126272	10	109684	13
Bromoform	50442	8	45420	10
1,1,2,2-Tetrachloroethane	86153	17	67392	22*
1,2,3-Trichloropropane	70240	11	67086	4
2-Chlorotoluene	44765	8	38145	15
4-Chlorotoluene	46223	8	46647	1
1,3-Dichlorobenzene	73463	10	60116	18*
1,4-Dichlorobenzene	78426	11	74660	5
1,2-Dichlorobenzene	74471	10	68851	8

(a) Control limits = 0 - 20 %

(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3522
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	21546	11
1,2,4-Trichlorobenzene	86267	12	76198	12
Hexachlorobutadiene	122627	14	103960	15
1,2,3-Trichlorobenzene	85565	14	80171	6
Benzene	15849	2	14679	7
Toluene	14971	4	13561	9
Ethylbenzene	13454	2	12274	9
p,m-Xylenes	15499	1	14252	8
o-Xylene	13254	2	12263	7
Styrene	17056	2	15892	7
Isopropylbenzene	10038	2	9212	8
Bromobenzene	34276	7	31255	9
Propylbenzene	13275	2	11784	11
1,3,5-Trimethylbenzene	18378	2	16792	9
tert-Butylbenzene	11218	10	9387	16*
1,2,4-Trimethylbenzene	14062	3	12727	9
sec-Butylbenzene	11083	3	9944	10
4-Isopropyltoluene	10693	3	9575	10
n-Butylbenzene	11850	4	10423	12
Naphthalene	13153	6	11727	11
Carbon disulfide	1678	11	1548	8
MTBE	7346	7	7590	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/23/96

Lab P.N.: L3522

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 06/30/96

Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	55400	2
Chloromethane	58449	9	31321	46*
Vinyl chloride	76709	7	82806	8
Bromomethane	43281	8	36889	15
Chloroethane	79236	6	79861	1
Trichlorofluoromethane	114511	8	118874	4
1,1-Dichloroethene	109789	8	107875	2
Methylene chloride	133849	11	132051	1
trans-1,2-Dichloroethene	114567	8	108652	5
1,1-Dichloroethane	113583	7	108379	5
cis-1,2-Dichloroethene	114171	7	109157	4
2,2-Dichloropropane	96980	9	93715	3
Bromochloromethane	82078	7	76835	6
Chloroform	145387	9	139331	4
1,1,1-Trichloroethane	133003	8	127781	4
Carbon tetrachloride	144402	6	140990	2
1,1-Dichloropropene	50937	5	48929	4
1,2-Dichloroethane	108993	9	101706	7
Trichloroethene	145231	10	139592	4
1,2-Dichloropropane	102103	8	97261	5
Dibromomethane	54981	7	51210	7
Bromodichloromethane	105109	8	102450	3
2-Chloroethyl vinyl ether	50937	5	48929	4
cis-1,3-Dichloropropene	91437	8	88254	3
trans-1,3-Dichloropropene	85647	11	81412	5
1,1,2-Trichloroethane	112065	12	109904	2
Tetrachloroethene	136777	14	129308	5
1,3-Dichloropropane	89531	10	86358	4
Dibromochloromethane	72030	8	70229	3
1,2-Dibromoethane	48062	8	46789	3
Chlorobenzene	54838	8	56102	2
1,1,1,2-Tetrachloroethane	126272	10	118130	6
Bromoform	50442	8	49059	3
1,1,2,2-Tetrachloroethane	86153	17	84464	2
1,2,3-Trichloropropane	70240	11	69581	1
2-Chlorotoluene	44765	8	42563	5
4-Chlorotoluene	46223	8	45990	1
1,3-Dichlorobenzene	73463	10	68275	7
1,4-Dichlorobenzene	78426	11	78604	0
1,2-Dichlorobenzene	74471	10	72248	3

(a) Control limits = 0 - 20 %

(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3522
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	22101	8
1,2,4-Trichlorobenzene	86267	12	80677	6
Hexachlorobutadiene	122627	14	114714	6
1,2,3-Trichlorobenzene	85565	14	84825	1
Benzene	15849	2	15318	3
Toluene	14971	4	14119	6
Ethylbenzene	13454	2	12876	4
p,m-Xylenes	15499	1	15013	3
o-Xylene	13254	2	12902	3
Styrene	17056	2	16544	3
Isopropylbenzene	10038	2	9715	3
Bromobenzene	34276	7	32347	6
Propylbenzene	13275	2	12612	5
1,3,5-Trimethylbenzene	18378	2	17706	4
tert-Butylbenzene	11218	10	10024	11
1,2,4-Trimethylbenzene	14062	3	13302	5
sec-Butylbenzene	11083	3	10718	3
4-Isopropyltoluene	10693	3	10091	6
n-Butylbenzene	11850	4	11047	7
Naphthalene	13153	6	12340	6
Carbon disulfide	1678	11	1563	7
MTBE	7346	7	7255	1

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-624, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/23/96

Lab P.N.: L3522

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 06/30/96

Daily Calibration Date: 07/10/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane				
Chloromethane				
Vinyl chloride				
Bromomethane				
Chloroethane				
Trichlorofluoromethane				
1,1-Dichloroethene				
Methylene chloride				
trans-1,2-Dichloroethene				
1,1-Dichloroethane				
cis-1,2-Dichloroethene				
2,2-Dichloropropane				
Bromochloromethane				
Chloroform				
1,1,1-Trichloroethane				
Carbon tetrachloride				
1,1-Dichloropropene				
1,2-Dichloroethane				
Trichloroethene	66738	11	57065	14
1,2-Dichloropropane				
Dibromomethane				
Bromodichloromethane				
2-Chloroethyl vinyl ether				
cis-1,3-Dichloropropene				
trans-1,3-Dichloropropene				
1,1,2-Trichloroethane				
Tetrachloroethene				
1,3-Dichloropropane				
Dibromochloromethane				
1,2-Dibromoethane				
Chlorobenzene				
1,1,1,2-Tetrachloroethane				
Bromoform				
1,1,2,2-Tetrachloroethane				
1,2,3-Trichloropropane				
2-Chlorotoluene				
4-Chlorotoluene				
1,3-Dichlorobenzene				
1,4-Dichlorobenzene				
1,2-Dichlorobenzene				

(a) Control limits = 0 - 20 %

(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-624, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3522
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane				
1,2,4-Trichlorobenzene				
Hexachlorobutadiene				
1,2,3-Trichlorobenzene				
Benzene				
Toluene				
Ethylbenzene				
p,m-Xylenes				
o-Xylene				
Styrene				
Isopropylbenzene				
Bromobenzene				
Propylbenzene				
1,3,5-Trimethylbenzene				
tert-Butylbenzene				
1,2,4-Trimethylbenzene				
sec-Butylbenzene				
4-Isopropyltoluene				
n-Butylbenzene				
Naphthalene				
Carbon disulfide				
MTBE				

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-624, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/23/96

Lab P.N.: L3522

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 06/30/96

Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane				
Chloromethane				
Vinyl chloride				
Bromomethane				
Chloroethane				
Trichlorofluoromethane				
1,1-Dichloroethene				
Methylene chloride				
trans-1,2-Dichloroethene				
1,1-Dichloroethane				
cis-1,2-Dichloroethene				
2,2-Dichloropropane				
Bromochloromethane				
Chloroform				
1,1,1-Trichloroethane				
Carbon tetrachloride				
1,1-Dichloropropene				
1,2-Dichloroethane				
Trichloroethene	66738	11	64137	4
1,2-Dichloropropane				
Dibromomethane				
Bromodichloromethane				
2-Chloroethyl vinyl ether				
cis-1,3-Dichloropropene				
trans-1,3-Dichloropropene				
1,1,2-Trichloroethane				
Tetrachloroethene				
1,3-Dichloropropane				
Dibromochloromethane				
1,2-Dibromoethane				
Chlorobenzene				
1,1,1,2-Tetrachloroethane				
Bromoform				
1,1,2,2-Tetrachloroethane				
1,2,3-Trichloropropane				
2-Chlorotoluene				
4-Chlorotoluene				
1,3-Dichlorobenzene				
1,4-Dichlorobenzene				
1,2-Dichlorobenzene				

(a) Control limits = 0 - 20 %

(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-624, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3522
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane				
1,2,4-Trichlorobenzene				
Hexachlorobutadiene				
1,2,3-Trichlorobenzene				
Benzene				
Toluene				
Ethylbenzene				
p,m-Xylenes				
o-Xylene				
Styrene				
Isopropylbenzene				
Bromobenzene				
Propylbenzene				
1,3,5-Trimethylbenzene				
tert-Butylbenzene				
1,2,4-Trimethylbenzene				
sec-Butylbenzene				
4-Isopropyltoluene				
n-Butylbenzene				
Naphthalene				
Carbon disulfide				
MTBE				

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

METALS ANALYSIS DATA SHEET

Lab:	Thermo Analytical	Report Date:	7/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92714	Client P.N.:	2581-112-T4-SAMP
		Date Sampled:	06/27/96
Project Name:	BPOU 2nd. Quarter Sampling	Date Received:	06/27/96
Project Address:	Production Wells Calmat, Norac, Santa Fe, Polopulos	Date Analyzed:	7/2/96-7/8/96
		Dilution Factor:	1.0
Matrix:	Liquid	Lab Sample ID:	L3522-5
Client Sample ID:	BP-GW-01902169-062796		
Concentration:	mg/l		

AFI Code	Analyte	Method	Date Analyzed	Concentration	Q
Aluminum	Aluminum	6010	07/02/96	0.0437	U
Arsenic	Arsenic	7060	07/08/96	0.00299	U
Barium	Barium	6010	07/02/96	0.174	
Cadmium	Cadmium	6010	07/02/96	0.00170	U
Chromium	Chromium	6010	07/02/96	0.00180	U
Copper	Copper	6010	07/02/96	0.0139	
Iron	Iron	6010	07/02/96	0.656	
Lead	Lead	7421	07/03/96	0.00482	
Manganese	Manganese	6010	07/02/96	0.0130	
Mercury	Mercury	7470	07/03/96	0.000173	U
Nickel	Nickel	6010	07/02/96	0.00470	U
Zinc	Zinc	6010	07/02/96	0.135	
Calcium	Calcium	6010	07/08/96	86.8	
Magnesium	Magnesium	6010	07/02/96	17.3	
Potassium	Potassium	6010	07/02/96	4.09	
Sodium	Sodium	6010	07/02/96	14.2	

Comments:

TMA
Thermo Analytical

METALS INITIAL AND CONTINUING CALIBRATION REPORT

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: BPOU 2nd. Quarter Sampling
Project Address: Production Wells
Calmat, Norac, Santa Fe, Polopulos

Report Date: 7/23/96
Lab P.N.: L3522
Client P.N.: 2581-112-T4-SAMP

Concentration: mg/l

Metal	Date Analyzed	Initial Calibration			Continuing Calibration					Method
		True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	07/02/96	20.0	19.7	99	2.00	2.05	103	2.09	104	6010
Arsenic	07/08/96	0.0250	0.0231	92	0.0250	0.0252	101	0.0261	104	7060
Barium	07/02/96	20.0	19.6	98	2.00	1.95	98	1.97	99	6010
Cadmium	07/02/96	5.00	4.90	98	2.00	1.94	97	1.98	99	6010
Chromium	07/02/96	2.00	1.95	97	2.00	1.96	98	2.00	100	6010
Copper	07/02/96	2.50	2.46	98	2.00	1.95	97	1.98	99	6010
Iron	07/02/96	10.0	9.69	97	2.00	1.96	98	1.98	99	6010
Lead	07/03/96	0.0250	0.0241	96	0.0250	0.0256	102	0.0262	105	7421
Manganese	07/02/96	5.00	4.85	97	2.00	1.96	98	2.01	100	6010
Mercury	07/03/96	0.00500	0.00509	102	0.00300	0.00293	98	0.00285	95	7470
Nickel	07/02/96	5.00	4.82	96	2.00	1.96	98	2.01	101	6010
Zinc	07/02/96	5.00	4.88	98	2.00	2.00	100	2.04	102	6010
Calcium	07/08/96	50.0	50.0	100	2.00	2.02	101	2.09	105	6010
Magnesium	07/02/96	50.0	48.9	98	2.00	2.12	106	2.14	107	6010
Potassium	07/02/96	50.0	49.2	98	20.0	19.8	99	20.3	102	6010
Sodium	07/02/96	50.0	49.6	99	2.00	2.00	100	2.03	102	6010

% Recovery Control Limits: Mercury 80-120%; Other Metals 90-110%.

TMA
Thermo Analytical

METALS BLANKS

Lab:	Thermo Analytical	Report Date:	7/23/96
Client:	CDM, Inc.	Lab P.N.:	L3522
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
Project Name:	BPOU 2nd. Quarter Sampling		
Project Address:	Production Wells Calmat, Norac, Santa Fe, Polopulos		

Matrix: Liquid
Date Analyzed: 7/2/96-7/8/96
Concentration: mg/l

Analyte	Date Analyzed	Inital Calib. Blank (mg/l)	Q	Continuing Calibration Blank (mg/l)						Preparation Blank	C	Method
				Conc.	C	Conc.	C	Conc.	C			
Aluminum	07/02/96	0.0437	U	0.0978		0.0437	U			0.0437	U	6010
Arsenic	07/08/96	0.00299	U	0.00299	U	0.00299	U	0.00299	U	0.00299	U	7060
Barium	07/02/96	0.00190		0.00134	U	0.00134	U			0.00170		6010
Cadmium	07/02/96	0.00170	U	0.00170	U	0.00170	U			0.00170	U	6010
Chromium	07/02/96	0.00180	U	0.00180	U	0.00180	U			0.00300		6010
Copper	07/02/96	0.00270	U	0.00270	U	0.00270	U			0.00270		6010
Iron	07/02/96	0.0225	U	0.0559		0.0225	U			0.0319		6010
Lead	07/03/96	0.000636	U	0.000636	U	0.000636	U			0.000636	U	7421
Manganese	07/02/96	0.00200	U	0.00200	U	0.00200	U			0.00280		6010
Mercury	07/03/96	0.000173	U	0.000173	U	0.000173	U			0.000173	U	7470
Nickel	07/02/96	0.0164		0.00720		0.00610				0.00470	U	6010
Zinc	07/02/96	0.0175	U	0.0175	U	0.0175	U			0.0404		6010
Calcium	07/08/96	0.102	U	0.102	U	0.102	U			0.578		6010
Magnesium	07/02/96	0.0379	U	0.0938		0.0379	U			0.253		6010
Potassium	07/02/96	0.358	U	0.358	U	0.358	U			0.358	U	6010
Sodium	07/02/96	0.108	U	0.108	U	0.108	U			0.345		6010

TMA
Thermo Analytical

ICP INTERFERENCE CHECK SAMPLE

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: BPOU 2nd. Quarter Sampling
Project Address: Production Wells
Calmat, Norac, Santa Fe, Polopulos

Report Date: 7/23/96
Lab P.N.: L3522
Client P.N.: 2581-112-T4-SAMP

Concentration Unit: mg/l

Analyte	Date Analyzed	Initial True Sol. AB	Initial Found Sol. AB	Initial %R	Final True Sol. AB	Final Found Sol. AB	Final %R
Aluminum	07/02/96	500	500	100	500	509	102
Barium	07/02/96	2.00	1.84	92	2.00	1.85	92
Cadmium	07/02/96	4.00	4.04	101	4.00	4.01	100
Chromium	07/02/96	2.00	1.77	88	2.00	1.75	87
Copper	07/02/96	2.00	1.89	95	2.00	1.96	98
Iron	07/02/96	200	168	84	200	166	83
Manganese	07/02/96	2.00	1.75	87	2.00	1.74	87
Nickel	07/02/96	4.00	3.41	85	4.00	3.44	86
Zinc	07/02/96	4.00	3.78	95	4.00	3.78	95
Calcium	07/08/96	500	490	98	500	499	100
Magnesium	07/02/96	500	468	94	500	467	93

%R control limits = 80 - 120 %.

TMA
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METALS SPIKE SAMPLE RECOVERY

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: BPOU 2nd. Quarter Sampling
Project Address: Production Wells
Calmat, Norac, Santa Fe, Polopulos

Report Date: 7/23/96
Lab P.N.: L3522
Client P.N.: 2581-112-T4-SAMP

Matrix: Liquid
Lab Sample ID: L3522-5
Client Sample ID: BP-GW-01902169-062796
Concentration: mg/l

Metal	Date Analyzed	Spike Added	Sample Result	MS Spiked Sample Result	%MS	Method
Aluminum	07/02/96	2.00	0.000	1.99	100	6010
Arsenic	07/08/96	0.0400	0.000	0.0461	115	7060
Barium	07/02/96	2.00	0.174	2.06	94	6010
Cadmium	07/02/96	2.00	0.000	1.88	94	6010
Chromium	07/02/96	2.00	0.000	1.92	96	6010
Copper	07/02/96	2.00	0.0139	1.86	92	6010
Iron	07/02/96	2.00	0.656	2.52	93	6010
Lead	07/03/96	0.0120	0.00482	0.0168	100	7421
Manganese	07/02/96	2.00	0.0130	1.93	96	6010
Mercury	07/03/96	0.00200	0.000	0.00210	105	7470
Nickel	07/02/96	2.00	0.000	1.88	94	6010
Zinc	07/02/96	2.00	0.135	2.07	97	6010
Calcium	07/08/96	2.00	86.8	92.2	270*	6010
Magnesium	07/02/96	2.00	17.3	19.3	100	6010
Potassium	07/02/96	20.0	4.09	23.5	97	6010
Sodium	07/02/96	2.00	14.2	16.4	110	6010

*Value outside of control limits
Spike Recovery: 1 out of 16 outside limits.

Conc Spk = Concentration of Spike in Sample
%MS = Percent Recovery of MS
Control limits for Spike Samples are 75-125%.

TMA
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METALS POST SPIKE SAMPLE RECOVERY

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: BPOU 2nd. Quarter Sampling
Project Address: Production Wells
Calmat, Norac, Santa Fe, Polopulos

Report Date: 7/23/96
Lab P.N.: L3522
Client P.N.: 2581-112-T4-SAMP

Matrix: Liquid
Lab Sample ID: L3522-5
Client Sample ID: BP-GW-01902169-062796
Concentration: mg/l

Metal	Date Analyzed	Spike Added	Sample Result	MS Spiked Sample Result	%MS	Method
Aluminum	07/02/96	5.00	0.000	5.33	107	6010
Arsenic	07/08/96	0.100	0.000	0.111	111	7060
Barium	07/02/96	5.00	0.174	5.19	100	6010
Cadmium	07/02/96	5.00	0.000	5.08	102	6010
Chromium	07/02/96	5.00	0.000	5.15	103	6010
Copper	07/02/96	5.00	0.0139	4.95	99	6010
Iron	07/02/96	5.00	0.656	5.74	102	6010
Lead	07/03/96	0.100	0.00482	0.111	106	7421
Manganese	07/02/96	5.00	0.0130	5.18	103	6010
Nickel	07/02/96	5.00	0.000	5.12	102	6010
Zinc	07/02/96	5.00	0.135	5.33	104	6010
Calcium	07/08/96	5.00	86.8	99.0	244*	6010
Magnesium	07/02/96	5.00	17.3	23.9	132*	6010
Potassium	07/02/96	50.0	4.09	55.2	102	6010
Sodium	07/02/96	5.00	14.2	20.2	120	6010

* Value outside of QC limits.
Spike Recovery: 2 out of 15 outside limits.

Conc Spk = Concentration of Spike in Sample.
%MS = Percent Recovery of MS.
Control limits for Post Digest Spike Samples are 75-125%.

TMA
Thermo Analytical

METALS DUPLICATES

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: BPOU 2nd. Quarter Sampling
Project Address: Production Wells
Calmat, Norac, Santa Fe, Polopulos

Report Date: 7/23/96
Lab P.N.: L3522
Client P.N.: 2581-112-T4-SAMP

Matrix: Liquid
Lab Sample ID: L3522-5
Client Sample ID: BP-GW-01902169-062796

Concentration Units: mg/l

Metal	Date Analyzed	Sample Result	Duplicate Result	RPD	Method
Barium	07/02/96	0.174	0.178	2	6010
Iron	07/02/96	0.656	1.23	61*	6010
Calcium	07/08/96	86.8	83.7	4	6010
Magnesium	07/02/96	17.3	17.7	2	6010
Potassium	07/02/96	4.09	4.16	2	6010
Sodium	07/02/96	14.2	14.6	3	6010

*Value outside control limits

Control limits equal 0-20% if sample and duplicate concentrations >/= 5x MDL.
If both sample and duplicate concentrations are < MDL, then no control limt exists.

1 out of 6 outside limits

Comments: _____

TMA
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METALS LABORATORY CONTROL SAMPLE

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: BPOU 2nd. Quarter Sampling
Project Address: Production Wells
Calmat, Norac, Santa Fe, Polopulos

Report Date: 7/23/96
Lab P.N.: L3522
Client P.N.: 2581-112-T4-SAMP

LCS Source: Inorganic Ventures W1-100 Lot #151, Inorganic Ventures W2-100 ot #W242, Inorganic Ventures CA Lot #J-CA0201 Inorganic Ventures K Lot #J-K01122, Inorganic Ventures Mg Lot #K-Mg02031, & Inorganic Ventures Na Lot #J-NA

Concentration: mg/l

Metal	Date Analyzed	LCS True Conc.	Result	%RC	Method
Aluminum	07/02/96	2.00	1.97	98	6010
Arsenic	07/08/96	0.0400	0.0408	102	7060
Barium	07/02/96	2.00	1.96	98	6010
Cadmium	07/02/96	2.00	1.95	98	6010
Chromium	07/02/96	2.00	2.02	101	6010
Copper	07/02/96	2.00	1.93	97	6010
Iron	07/02/96	2.00	2.00	100	6010
Lead	07/03/96	0.0120	0.0122	102	7421
Manganese	07/02/96	2.00	2.01	100	6010
Mercury	07/03/96	0.00200	0.00187	94	7470
Nickel	07/02/96	2.00	1.99	100	6010
Zinc	07/02/96	2.00	1.96	98	6010
Calcium	07/08/96	2.00	2.35	118	6010
Magnesium	07/02/96	2.00	2.14	107	6010
Potassium	07/02/96	20.0	19.4	97	6010
Sodium	07/02/96	2.00	2.28	114	6010

* Value outside of QC limits.
Spike Recovery: 0 out of 16 outside limits.

Control Limits for Laboratory Control Check Sample are 80-120%.

TMA
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ICP SERIAL DILUTIONS

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: BPOU 2nd. Quarter Sampling
Project Address: Production Wells
Calmat, Norac, Santa Fe, Polopulos

Report Date: 7/23/96
Lab P.N.: L3522
Client P.N.: 2581-112-T4-SAMP

Matrix: Liquid
Concentration Unit: mg/l
Client Sample ID: BP-GW-01902169-062796
Lab Sample ID: L3522-5

Metal	Date Analyzed	Initial Sample Result	Serial Dilution Result	% DIFF	Method
Barium	07/02/96	0.174	0.182	5	6010
Iron	07/02/96	0.656	0.693	6	6010
Calcium	07/08/96	86.8	98.9	14	6010
Magnesium	07/02/96	17.3	18.9	9	6010
Potassium	07/02/96	4.09	5.48	34	6010
Sodium	07/02/96	14.2	15.2	7	6010

%DIFF = % Difference
Series dilution (1:4 with blank water) must be performed for each batch of samples using one representative sample.
%DIFF = [(Sample Result - Series Dilution Result)/Sample Result] X 100

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1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274
Formerly Terra Tech Labs

LABORATORY REPORT

Client:	CDM, Inc.	Report Date:	7/23/96
Client Address:	18881 Von Karman, Suite 750	Lab P.N.:	L3522
	Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Lab Cert. #:	1155
Contact:	Suzanne Rowe		
Project Name:	BPOU 2nd. Quarter Sampling	Date Sampled:	6/27/96
Project Address:	Production Wells	Date Received:	6/27/96
	Calmat, Norac, Santa Fe, Polopulos	Date Analyzed:	6/28/96-7/3/96
		Physical State:	Liquid

Quality Assurance/Quality Control Summary

Parameter (Method)	QC Type	Percent Recovery	Duplicate Percent Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
Alkalinity (EPA 310.1)	M	95	-	80-120	-	-
Alkalinity (EPA 310.1)	L	96	-	80-120	-	-
Chloride (EPA 300.0)	M	33*	31*	80-120	6	0-20
Nitrate-N (EPA 300.0)	M	84	75*	80-120	11	0-20
Nitrite-N (EPA 300.0)	M	96	97	80-120	1	0-20
Sulfate (EPA 300.0)	M	78*	80	80-120	2	0-20
Chloride (EPA 300.0)	L	98	94	80-120	4	0-20
Nitrate-N (EPA 300.0)	L	94	93	80-120	1	0-20
Nitrite-N (EPA 300.0)	L	98	97	80-120	1	0-20
Sulfate (EPA 300.0)	L	91	92	80-120	1	0-20

*MS/MSD were not within acceptable QC limits due to possible matrix interferences; LCS was within acceptable limits.

M = Matrix Spike / Matrix Spike Duplicate

L = Laboratory Control Sample Spike / Spike Duplicate

Reviewed

Approved

Don Bailey

The samples were received by Thermo Analytical in a chilled state, intact and accompanied by the Chain-of-Custody Record.
Acceptance of samples by Thermo Analytical is not an indication of condition upon receipt.
Laboratory Results apply only to the sample matrix analyzed and may not apply to an apparently identical or similar sample.
The Laboratory Report is the property of the client to whom it is addressed.
The Laboratory Results are only a portion of the Laboratory Report.

LABORATORY RESULTS

Client:	CDM, Inc.	Report Date:	7/23/96
Client Address:	18881 Von Karman, Suite 750 Irvine, CA 92715	Lab P.N.:	L3522
		Client P.N.:	2581-112-T4-SAMP
Project Name:	BPOU 2nd. Quarter Sampling	Date Sampled:	6/27/96
Project Address:	Production Wells Calmat, Norac, Santa Fe, Polopulos	Date Analyzed:	7/1/96-7/3/96
		Physical State:	Liquid

Client Sample ID	Alkalinity Bicarbonate EPA 310.1 mg/l	Alkalinity Carbonate EPA 310.1 mg/l	Total Dissolved Solids EPA 160.1 mg/l	Total Suspended Solids EPA 160.2 mg/l
BP-GW-01902169-062796	230	ND	380	ND
Method Blank	ND	ND	ND	ND
Quantitation Limits mg/l	1.0	1.0	12	10

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

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LABORATORY RESULTS

Client:	CDM, Inc.	Report Date:	7/23/96
Client Address:	18881 Von Karman, Suite 750	Lab P.N.:	L3522
	Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
Project Name:	BPOU 2nd. Quarter Sampling	Date Sampled:	6/27/96
Project Address:	Production Wells	Date Analyzed:	6/28/96
	Calmat, Norac, Santa Fe, Polopulos	Physical State:	Liquid

Client Sample ID	Nitrite-N EPA 300.0 mg/l	Nitrate-N EPA 300.0 mg/l	Hardness EPA 130.2 mg/l
BP-GW-01902169-062796	ND	7.5	310
Method Blank	ND	ND	ND
Quantitation Limits mg/l	0.25	0.25	1.0

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
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LABORATORY RESULTS

Client:	CDM, Inc.	Report Date:	7/23/96
Client Address:	18881 Von Karman, Suite 750 Irvine, CA 92715	Lab P.N.:	L3522
		Client P.N.:	2581-112-T4-SAMP
Project Name:	BPOU 2nd. Quarter Sampling	Date Sampled:	6/27/96
Project Address:	Production Wells Calmat, Norac, Santa Fe, Polopulos	Date Analyzed:	6/28/96
		Physical State:	Liquid

Client Sample ID	Sulfate EPA 300.0 mg/l	Quantitation Limits mg/l
BP-GW-01902169-062796	28	5.0
Method Blank	ND	1.0

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

LABORATORY RESULTS

Client:	CDM, Inc.	Report Date:	7/23/96
Client Address:	18881 Von Karman, Suite 750 Irvine, CA 92715	Lab P.N.:	L3522
		Client P.N.:	2581-112-T4-SAMP
Project Name:	BPOU 2nd. Quarter Sampling	Date Sampled:	6/27/96
Project Address:	Production Wells Calmat, Norac, Santa Fe, Polopulos	Date Analyzed:	6/28/96
		Physical State:	Liquid

Client Sample ID	Chloride EPA 300.0 mg/l	Quantitation Limits mg/l
BP-GW-01902169-062796	34	1.3
Method Blank	ND	0.25

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

REPORT

TRUESDAIL LABORATORIES, INC.

CHEMISTS · MICROBIOLOGISTS · ENGINEERS
RESEARCH · DEVELOPMENT · TESTING
ESTABLISHED 1931

14201 FRANKLIN AVENUE
TUSTIN, CALIF. 92680
(714) 730-6239
FAX (714) 730-6462

CLIENT: Thermo Analytical
1920 E. Deere Ave.
Santa Ana, CA 92705
Attention: Don Burley

DATE: 7/08/96

RECEIVED: 6/27/96

LABORATORY NO. 91722

SAMPLE: Water/1

INVESTIGATION: Analysis for Radon in water by Liquid Scintillation

RESULTS

Sample I.D.	Rn-222 pCi/L	Two Sigma Error
BP-GW-01902169-062796	193	+/- 10

Date Analyzed: 6/28/96

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Angela Burke

Angela Burke, Project Manager
Water and Waste Laboratory

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising of publicity matter without prior written authorization from these Laboratories.

CHAIN-OF-CUSTODY RECORD

3398

Client: CDM

Date: June 27 1996

Project Name / #: BPOU- 2nd QTR. Sampling

Project Address: Production Wells

Calmet, Novaa, Santa Fe, Polopulos

P.O.#: 2581-112-T4-SAMP

Quote #:

Project Contact (please print):

State where samples were collected:

Page 1 of 1

Lab Use Only
Lab Job # L3522
C.O. #
C.O. #
C.O. #
C.O. #
Sample Condition Upon Receipt:
Chilled yes no
Sealed yes no

Analysis Requested All analyses and deliverables must be identified

Sample Identification	Date Collected	Time Collected	Grab	Comp.	Lab Sample Number	Physical State: Solid (S), Liquid (L), Vapor (V)	Preservation: Iced (I), Filtered (F), Preservative (P)	VOCs-8021	Radon Draft 913	Metals (Al, As, Ba, Cd, Ca, Cu, Fe, Pb, Mn, Ni, Zn, Hg) - 6010	Cations (Ca, Mg, K, Na)	TDS-TSS (160.1/160.2) Na, dnw 1/30	Anions (Cl, SO4, NO3, NO2) - 300.0	Alkali (CO3, HCO3) - 23.20	Total Number of Containers	Remarks	Temp of Sample Upon Receipt (if requested)
BP-GW-01902920-062796	6/27/96	0800	X		L3522-1	L	IP	X							3	40-ml VOAs + HCL	
↓	↓	0805	X		↓	↓	I	X							2	40-ml VOAs no HCL	
BP-GW-W10NCMW1-062796	↓	1020	X		L3522-2	↓	IP	X							3	40-ml VOAs + HCL	
BP-GW-08000070(F)-062796	↓	1106	X		L3522-3	↓	IP	X							2	↓	
BP-GW-08000070-062796	↓	1135	X		L3522-4	↓	IP	X							3	↓	
↓	↓	↓	X		↓	↓	I	X							2	40-ml VOAs no HCL	
BP-GW-01902169-062796	↓	1235	X		L3522-5	↓	IP	X							3	40-ml VOAs + HCL	
↓	↓	↓	X		↓	↓	I		X						1	125-ml glass	
↓	↓	↓	X		↓	↓	I			X					1	1-l poly no preservative	
↓	↓	↓	X		↓	↓	I				X	X	X	X	1	1-l poly none	
															21	Total Number of Containers	

Method of Shipment

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to TMA approval and surcharge)

Date Results are Needed:

Rush Results requested by (please circle): Phone Fax

Phone #:

Fax #:

Data Package Options (please circle if requested)

QC Summary
Type I, Type II, Type III, Type IV, Type V, Type VI, Type VII, Other

Site Specific QC Required?: YES NO
(if yes, indicate QC sample and submit triplicate volume)

SDG Complete?: YES NO

❶ Relinquished by (signature)*	❷ Received by (signature)	Date
[signature]	[signature]	6/27/96
Company: CDM	Company: TMA	Time: 15:20
❸ Relinquished by (signature)*	❹ Received by Laboratory (signature)	Date
Company	Laboratory Name	Time

Special Instructions: CLP TYPE PAPERWORK

*See Terms And Conditions on reverse **before** signing

☐ 300 Second Avenue, Waltham, MA 02254
(617) 890-7200, Fax (617) 890-3883

☐ 603 South Main Street, New Ellenton, SC 29809
(803) 652-3324, Fax (803) 652-7995

☑ 1920 E. Deere Avenue, Santa Ana, CA 92705
(714) 757-7022, Fax (714) 757-7274

☐ 387 Airport Industrial Drive, Ypsilanti, MI 48198
(313) 480-2500, Fax (313) 480-2295

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31 1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274

Formerly Terra Tech Labs

CAMP DRESSER & McKEE, INC.
18881 VON KARMAN, STE 650
IRVINE, CA 92715

JUL 26 1996

July 25, 1996

Ms. Suzanne Rowe
Camp Dresser & McKee
18881 Von Karman, Suite 650
Irvine, CA 92715

RE: CLP-Like Deliverables Case Narrative for Project Number 2581-112-T4-SAMP/L3532

Dear Ms. Rowe:

Listed below is additional information to clarify special circumstances that were encountered during the analysis of the above referenced project. This letter should be forwarded to the appropriate agency along with the deliverables package enclosed.

The water samples received on 07/01/96 were analyzed by Thermo Analytical for Volatile Organic Compounds (VOC's) by EPA Method 8021 and Nitrate/Nitrite by EPA Method 300.0.

The EPA Method 8021 samples taken on 07/01/96 were analyzed 07/10/96 which is within the allowable method holding time. The samples and associated quality control samples may have been analyzed during the evening shift via auto-samplers both before and after midnight. The dates reported on the forms will then include one date for the samples run before midnight and a different date for the samples run after midnight. All of the samples are considered to have been run in one batch, and will have one set of quality control data.

The 07/10/96 beginning continuing calibration had three compounds with percent differences outside the acceptable QC limits. Chloromethane, Trichloroethene and Dibromomethane had response factors less than the initial calibration response factors. However, the Chloromethane, Trichloroethene and Dibromomethane confirmation column response factors were greater than the initial calibration response factors. Since Chloromethane and Dibromomethane were not detected in any of the samples, the results were reported as is. Because Trichloroethene was detected in sample BP-GW-01900029-070196, the results were quantified on the DB-624 column. The results were confirmed by PID on both columns.

The 07/11/96 continuing calibrations had several compounds with percent differences outside the acceptable QC limits. These compounds had response factors less than the initial calibration response factors. However, the confirmation column response factors were greater than the initial calibration response factors. Since the compounds were not detected in any of the samples, the results were reported as is.

Target compounds which were analyzed for but not detected in the samples were flagged with a "U" on the sample data forms. If a "U" flag was used, the method detection limit (MDL) for that compound was inserted in the corresponding concentration column. A "B" flag was used for compounds which had detectable levels present in the associated method blank.

If you should have any questions or need further information, please contact me at 714.757.7022.

Sincerely,

Don Burley

Don Burley
Program Manager

Enclosure

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3532
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	07/01/96
Project Name:	Baldwin Park OU	Date Received:	07/01/96
Project Address:	2nd Groundwater Sampling	Date Analyzed:	07/10/96
	Morada Well	Time Analyzed:	21:26
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900029-070196	Lab Sample ID:	L3532-1

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	1.2	
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.67	
156-59-4	cis-1,2-Dichloroethene	2.7	
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	1.1	
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	2.0	
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	4.1	
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

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EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3532
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	07/01/96
Project Name:	Baldwin Park OU	Date Received:	07/01/96
Project Address:	2nd Groundwater Sampling	Date Analyzed:	07/10/96
	Morada Well	Time Analyzed:	21:26
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900029-070196	Lab Sample ID:	L3532-1

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3532
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	07/01/96
Project Name:	Baldwin Park OU	Date Received:	07/01/96
Project Address:	2nd Groundwater Sampling	Date Analyzed:	07/10/96
	Morada Well	Time Analyzed:	22:07
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900029(F)-070196	Lab Sample ID:	L3532-2

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3532
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Sampled:	07/01/96
Project Name:	Baldwin Park OU	Date Received:	07/01/96
Project Address:	2nd Groundwater Sampling Morada Well	Date Analyzed:	07/10/96
		Time Analyzed:	22:07
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900029(F)-070196	Lab Sample ID:	L3532-2

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.18	
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
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EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3532
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Groundwater Sampling	Date Analyzed:	07/10/96
	Morada Well	Time Analyzed:	17:18
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/10 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3532
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Groundwater Sampling Morada Well	Date Analyzed:	07/10/96
		Time Analyzed:	17:18
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/10 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
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EPA 8021 Surrogate Recovery

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3532
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/10/96-07/11/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Groundwater Sampling Morada Well		
Matrix:	Liquid		
GC Column 1:	DB-VRX, 75m, 0.45 mmID	GC ID:	OC

LAB SAMPLE NUMBER	% REC S 1 #	% REC S 2 #	% REC S 3 #
CCV	96	82	102
CCV	92	90	96
CCV	104	91	102
Method Blank	86	83	103
L3532-1	83	97	105
L3532-2	84	93	103
LCS	96	85	100
MS	91	87	104
MSD	94	82	102
QC Limits:	75-125	75-125	75-125

S 1 = 2-Chloropropane
S 2 = 1,4-Dichlorobutane
S 3 = aaa-Trifluorotoluene

Column used to flag recovery values with an asterisk.

* Value outside of QC limits.

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EPA 8021 Matrix Spike/Matrix Spike Duplicate Recovery

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3532
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/11/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Groundwater Sampling Morada Well		
Matrix:	Liquid		
Client Sample ID:	BP-GW-MW51502-070996	Lab Sample ID:	L3547-5

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONC. (µg/L)	MS CONC. (µg/L)	MS % REC. #	QC LIMITS REC.
Benzene	10.0	0	9.85	99	74-121
Toluene	10.0	0.27	9.72	95	72-121
Ethylbenzene	10.0	0	9.69	97	72-117
o-Xylene	10.0	0.16	9.77	96	66-124
1,1-Dichloroethane	10.0	1.28	10.3	90	73-121
1,1,1-Trichloroethane	10.0	8.74	17.7	90	72-126
cis-1,3-Dichloropropene	10.0	0	9.52	95	58-124
Chlorobenzene	10.0	0	10.2	102	52-131

COMPOUND	SPIKE ADDED (µg/L)	MSD CONC. (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	10.0	9.48	95	4	0-10	74-121
Toluene	10.0	9.40	91	4	0-16	72-121
Ethylbenzene	10.0	9.42	94	3	0-14	72-117
o-Xylene	10.0	9.56	94	2	0-14	66-124
1,1-Dichloroethane	10.0	10.5	92	2	0-18	73-121
1,1,1-Trichloroethane	10.0	17.9	92	2	0-15	72-126
cis-1,3-Dichloropropene	10.0	9.40	94	1	0-22	58-124
Chlorobenzene	10.0	10.0	100	2	0-42	52-131

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

RPD: 0 out of 8 outside limits.
Spike Recovery: 0 out of 16 outside limits.

TMA
Thermo Analytical

EPA 8021 Laboratory Control Sample Recovery

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3532
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/11/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Groundwater Sampling Morada Well		

Matrix: Liquid
LCS Source: Ultra Scientific
Lab Sample ID: LCS

COMPOUND	SPIKE ADDED (µg/L)	LCS CONC. (µg/L)	LCS % REC.	#	QC LIMITS REC.
Benzene	10.0	9.71	97		75-125
Toluene	10.0	9.45	95		75-125
Ethylbenzene	10.0	9.62	96		75-125
o-Xylene	10.0	9.77	98		75-125
1,1-Dichloroethane	10.0	9.19	92		75-125
1,1,1-Trichloroethane	10.0	9.49	95		75-125
cis-1,3-Dichloropropene	10.0	9.74	97		75-125
Chlorobenzene	10.0	9.78	98		75-125

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

Spike Recovery: 0 out of 8 outside limits.

Comments:

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical
GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3532
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/10/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	51701	9
Chloromethane	58449	9	33953	42*
Vinyl chloride	76709	7	77511	1
Bromomethane	43281	8	37473	13
Chloroethane	79236	6	76337	4
Trichlorofluoromethane	114511	8	110346	4
1,1-Dichloroethene	109789	8	102506	7
Methylene chloride	133849	11	131045	2
trans-1,2-Dichloroethene	114567	8	109123	5
1,1-Dichloroethane	113583	7	107625	5
cis-1,2-Dichloroethene	114171	7	105814	7
2,2-Dichloropropane	96980	9	107682	11
Bromochloromethane	82078	7	74360	9
Chloroform	145387	9	131379	10
1,1,1-Trichloroethane	133003	8	128465	3
Carbon tetrachloride	144402	6	142417	1
1,1-Dichloropropene	50937	5	49030	4
1,2-Dichloroethane	108993	9	95969	12
Trichloroethene	145231	10	119526	18*
1,2-Dichloropropane	102103	8	92435	9
Dibromomethane	54981	7	46396	16*
Bromodichloromethane	105109	8	103787	1
2-Chloroethyl vinyl ether	50937	5	49030	4
cis-1,3-Dichloropropene	91437	8	85475	7
trans-1,3-Dichloropropene	85647	11	77095	10
1,1,2-Trichloroethane	112065	12	103665	7
Tetrachloroethene	136777	14	125200	8
1,3-Dichloropropane	89531	10	82463	8
Dibromochloromethane	72030	8	67908	6
1,2-Dibromoethane	48062	8	44398	8
Chlorobenzene	54838	8	56234	3
1,1,1,2-Tetrachloroethane	126272	10	109990	13
Bromoform	50442	8	45211	10
1,1,2,2-Tetrachloroethane	86153	17	82746	4
1,2,3-Trichloropropane	70240	11	65419	7
2-Chlorotoluene	44765	8	38874	13
4-Chlorotoluene	46223	8	44709	3
1,3-Dichlorobenzene	73463	10	63053	14
1,4-Dichlorobenzene	78426	11	74682	5
1,2-Dichlorobenzene	74471	10	69354	7

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3532
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/10/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	20416	15
1,2,4-Trichlorobenzene	86267	12	74989	13
Hexachlorobutadiene	122627	14	107410	12
1,2,3-Trichlorobenzene	85565	14	80931	5
Benzene	15849	2	15379	3
Toluene	14971	4	14132	6
Ethylbenzene	13454	2	12958	4
p,m-Xylenes	15499	1	15088	3
o-Xylene	13254	2	12966	2
Styrene	17056	2	16595	3
Isopropylbenzene	10038	2	9720	3
Bromobenzene	34276	7	31855	7
Propylbenzene	13275	2	12542	6
1,3,5-Trimethylbenzene	18378	2	17837	3
tert-Butylbenzene	11218	10	10080	10
1,2,4-Trimethylbenzene	14062	3	13328	5
sec-Butylbenzene	11083	3	10728	3
4-Isopropyltoluene	10693	3	10147	5
n-Butylbenzene	11850	4	11214	5
Naphthalene	13153	6	12079	8
Carbon disulfide	1678	11	1659	1
MTBE	7346	7	7602	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/23/96

Lab P.N.: L3532

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 06/30/96

Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	49392	13
Chloromethane	58449	9	28374	51*
Vinyl chloride	76709	7	74230	3
Bromomethane	43281	8	36064	17*
Chloroethane	79236	6	74301	6
Trichlorofluoromethane	114511	8	107460	6
1,1-Dichloroethene	109789	8	97827	11
Methylene chloride	133849	11	136235	2
trans-1,2-Dichloroethene	114567	8	108636	5
1,1-Dichloroethane	113583	7	109014	4
cis-1,2-Dichloroethene	114171	7	104771	8
2,2-Dichloropropane	96980	9	98029	1
Bromochloromethane	82078	7	74725	9
Chloroform	145387	9	132427	9
1,1,1-Trichloroethane	133003	8	127616	4
Carbon tetrachloride	144402	6	136105	6
1,1-Dichloropropene	50937	5	45793	10
1,2-Dichloroethane	108993	9	95240	13
Trichloroethene	145231	10	131691	9
1,2-Dichloropropane	102103	8	89349	12
Dibromomethane	54981	7	44999	18*
Bromodichloromethane	105109	8	104916	0
2-Chloroethyl vinyl ether	50937	5	45793	10
cis-1,3-Dichloropropene	91437	8	82986	9
trans-1,3-Dichloropropene	85647	11	73351	14
1,1,2-Trichloroethane	112065	12	103653	8
Tetrachloroethene	136777	14	123803	9
1,3-Dichloropropane	89531	10	82352	8
Dibromochloromethane	72030	8	67327	7
1,2-Dibromoethane	48062	8	44871	7
Chlorobenzene	54838	8	55756	2
1,1,1,2-Tetrachloroethane	126272	10	109684	13
Bromoform	50442	8	45420	10
1,1,2,2-Tetrachloroethane	86153	17	67392	22*
1,2,3-Trichloropropane	70240	11	67086	4
2-Chlorotoluene	44765	8	38145	15
4-Chlorotoluene	46223	8	46647	1
1,3-Dichlorobenzene	73463	10	60116	18*
1,4-Dichlorobenzene	78426	11	74660	5
1,2-Dichlorobenzene	74471	10	68851	8

(a) Control limits = 0 - 20 %

(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3532
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	21546	11
1,2,4-Trichlorobenzene	86267	12	76198	12
Hexachlorobutadiene	122627	14	103960	15
1,2,3-Trichlorobenzene	85565	14	80171	6
Benzene	15849	2	14679	7
Toluene	14971	4	13561	9
Ethylbenzene	13454	2	12274	9
p.m-Xylenes	15499	1	14252	8
o-Xylene	13254	2	12263	7
Styrene	17056	2	15892	7
Isopropylbenzene	10038	2	9212	8
Bromobenzene	34276	7	31255	9
Propylbenzene	13275	2	11784	11
1,3,5-Trimethylbenzene	18378	2	16792	9
tert-Butylbenzene	11218	10	9387	16*
1,2,4-Trimethylbenzene	14062	3	12727	9
sec-Butylbenzene	11083	3	9944	10
4-Isopropyltoluene	10693	3	9575	10
n-Butylbenzene	11850	4	10423	12
Naphthalene	13153	6	11727	11
Carbon disulfide	1678	11	1548	8
MTBE	7346	7	7590	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical
GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3532
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	55400	2
Chloromethane	58449	9	31321	46*
Vinyl chloride	76709	7	82806	8
Bromomethane	43281	8	36889	15
Chloroethane	79236	6	79861	1
Trichlorofluoromethane	114511	8	118874	4
1,1-Dichloroethene	109789	8	107875	2
Methylene chloride	133849	11	132051	1
trans-1,2-Dichloroethene	114567	8	108652	5
1,1-Dichloroethane	113583	7	108379	5
cis-1,2-Dichloroethene	114171	7	109157	4
2,2-Dichloropropane	96980	9	93715	3
Bromochloromethane	82078	7	76835	6
Chloroform	145387	9	139331	4
1,1,1-Trichloroethane	133003	8	127781	4
Carbon tetrachloride	144402	6	140990	2
1,1-Dichloropropene	50937	5	48929	4
1,2-Dichloroethane	108993	9	101706	7
Trichloroethene	145231	10	139592	4
1,2-Dichloropropane	102103	8	97261	5
Dibromomethane	54981	7	51210	7
Bromodichloromethane	105109	8	102450	3
2-Chloroethyl vinyl ether	50937	5	48929	4
cis-1,3-Dichloropropene	91437	8	88254	3
trans-1,3-Dichloropropene	85647	11	81412	5
1,1,2-Trichloroethane	112065	12	109904	2
Tetrachloroethene	136777	14	129308	5
1,3-Dichloropropane	89531	10	86358	4
Dibromochloromethane	72030	8	70229	3
1,2-Dibromoethane	48062	8	46789	3
Chlorobenzene	54838	8	56102	2
1,1,1,2-Tetrachloroethane	126272	10	118130	6
Bromoform	50442	8	49059	3
1,1,2,2-Tetrachloroethane	86153	17	84464	2
1,2,3-Trichloropropane	70240	11	69581	1
2-Chlorotoluene	44765	8	42563	5
4-Chlorotoluene	46223	8	45990	1
1,3-Dichlorobenzene	73463	10	68275	7
1,4-Dichlorobenzene	78426	11	78604	0
1,2-Dichlorobenzene	74471	10	72248	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3532
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	22101	8
1,2,4-Trichlorobenzene	86267	12	80677	6
Hexachlorobutadiene	122627	14	114714	6
1,2,3-Trichlorobenzene	85565	14	84825	1
Benzene	15849	2	15318	3
Toluene	14971	4	14119	6
Ethylbenzene	13454	2	12876	4
p,m-Xylenes	15499	1	15013	3
o-Xylene	13254	2	12902	3
Styrene	17056	2	16544	3
Isopropylbenzene	10038	2	9715	3
Bromobenzene	34276	7	32347	6
Propylbenzene	13275	2	12612	5
1,3,5-Trimethylbenzene	18378	2	17706	4
tert-Butylbenzene	11218	10	10024	11
1,2,4-Trimethylbenzene	14062	3	13302	5
sec-Butylbenzene	11083	3	10718	3
4-Isopropyltoluene	10693	3	10091	6
n-Butylbenzene	11850	4	11047	7
Naphthalene	13153	6	12340	6
Carbon disulfide	1678	11	1563	7
MTBE	7346	7	7255	1

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-624, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3532
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/10/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane				
Chloromethane				
Vinyl chloride				
Bromomethane				
Chloroethane				
Trichlorofluoromethane				
1,1-Dichloroethene				
Methylene chloride				
trans-1,2-Dichloroethene				
1,1-Dichloroethane				
cis-1,2-Dichloroethene				
2,2-Dichloropropane				
Bromochloromethane				
Chloroform				
1,1,1-Trichloroethane				
Carbon tetrachloride				
1,1-Dichloropropene				
1,2-Dichloroethane				
Trichloroethene	66738	11	57065	14
1,2-Dichloropropane				
Dibromomethane				
Bromodichloromethane				
2-Chloroethyl vinyl ether				
cis-1,3-Dichloropropene				
trans-1,3-Dichloropropene				
1,1,2-Trichloroethane				
Tetrachloroethene				
1,3-Dichloropropane				
Dibromochloromethane				
1,2-Dibromoethane				
Chlorobenzene				
1,1,1,2-Tetrachloroethane				
Bromoform				
1,1,2,2-Tetrachloroethane				
1,2,3-Trichloropropane				
2-Chlorotoluene				
4-Chlorotoluene				
1,3-Dichlorobenzene				
1,4-Dichlorobenzene				
1,2-Dichlorobenzene				

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-624, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/23/96

Lab P.N.: L3532

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 06/30/96

Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane				
1,2,4-Trichlorobenzene				
Hexachlorobutadiene				
1,2,3-Trichlorobenzene				
Benzene				
Toluene				
Ethylbenzene				
p,m-Xylenes				
o-Xylene				
Styrene				
Isopropylbenzene				
Bromobenzene				
Propylbenzene				
1,3,5-Trimethylbenzene				
tert-Butylbenzene				
1,2,4-Trimethylbenzene				
sec-Butylbenzene				
4-Isopropyltoluene				
n-Butylbenzene				
Naphthalene				
Carbon disulfide				
MTBE				

(a) Control limits = 0 - 20 %

(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical
GC Column 1: DB-624, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3532
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane				
Chloromethane				
Vinyl chloride				
Bromomethane				
Chloroethane				
Trichlorofluoromethane				
1,1-Dichloroethene				
Methylene chloride				
trans-1,2-Dichloroethene				
1,1-Dichloroethane				
cis-1,2-Dichloroethene				
2,2-Dichloropropane				
Bromochloromethane				
Chloroform				
1,1,1-Trichloroethane				
Carbon tetrachloride				
1,1-Dichloropropene				
1,2-Dichloroethane				
Trichloroethene	66738	11	64137	4
1,2-Dichloropropane				
Dibromomethane				
Bromodichloromethane				
2-Chloroethyl vinyl ether				
cis-1,3-Dichloropropene				
trans-1,3-Dichloropropene				
1,1,2-Trichloroethane				
Tetrachloroethene				
1,3-Dichloropropane				
Dibromochloromethane				
1,2-Dibromoethane				
Chlorobenzene				
1,1,1,2-Tetrachloroethane				
Bromoform				
1,1,2,2-Tetrachloroethane				
1,2,3-Trichloropropane				
2-Chlorotoluene				
4-Chlorotoluene				
1,3-Dichlorobenzene				
1,4-Dichlorobenzene				
1,2-Dichlorobenzene				

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-624, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3532
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane				
1,2,4-Trichlorobenzene				
Hexachlorobutadiene				
1,2,3-Trichlorobenzene				
Benzene				
Toluene				
Ethylbenzene				
p,m-Xylenes				
o-Xylene				
Styrene				
Isopropylbenzene				
Bromobenzene				
Propylbenzene				
1,3,5-Trimethylbenzene				
tert-Butylbenzene				
1,2,4-Trimethylbenzene				
sec-Butylbenzene				
4-Isopropyltoluene				
n-Butylbenzene				
Naphthalene				
Carbon disulfide				
MTBE				

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

TMA
Thermo Analytical

1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274
Formerly Terra Tech Labs

LABORATORY REPORT

Client:	CDM, Inc.	Report Date:	7/10/96
Client Address:	18881 Von Karman, Suite 750	Lab P.N.:	L3532
	Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Lab Cert. #:	1155
Contact:	Suzanne Rowe		
Project Name:	Baldwin Park OU	Date Sampled:	7/1/96
Project Address:	2nd. Groundwater Sampling	Date Received:	7/1/96
	Morada Well	Date Analyzed:	7/3/96
		Physical State:	Liquid

Quality Assurance/Quality Control Summary

Parameter (Method)	QC Type	Percent Recovery	Duplicate Percent Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
Nitrate-N (EPA 300.0)	M	97	96	80-120	1	0-20
Nitrate-N (EPA 300.0)	L	94	94	80-120	0	0-20
Nitrite-N (EPA 300.0)	M	100	99	80-120	1	0-20
Nitrite-N (EPA 300.0)	L	96	96	80-120	0	0-20

M = Matrix Spike / Matrix Spike Duplicate

L = Laboratory Control Sample Spike / Spike Duplicate

Reviewed

Approved

The samples were received by Thermo Analytical in a chilled state, intact and accompanied by the Chain-of-Custody Record.
Acceptance of samples by Thermo Analytical is not an indication of condition upon receipt.
Laboratory Results apply only to the sample matrix analyzed and may not apply to an apparently identical or similar sample.
The Laboratory Report is the property of the client to whom it is addressed.
The Laboratory Results are only a portion of the Laboratory Report.

LABORATORY RESULTS

Client:	CDM, Inc.	Report Date:	7/10/96
Client Address:	18881 Von Karman, Suite 750 Irvine, CA 92715	Lab P.N.:	L3532
		Client P.N.:	2581-112-T4-SAMP
Project Name:	Baldwin Park OU	Date Sampled:	7/1/96
Project Address:	2nd. Groundwater Sampling Morada Well	Date Analyzed:	7/3/96
		Physical State:	Liquid

Client Sample ID	Nitrite-N EPA 300.0 mg/l	Nitrate-N EPA 300.0 mg/l
BP-GW-01900029-070196	ND	13
Method Blank	ND	ND
Quantitation Limits mg/l	0.25	0.25

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

CHAIN-OF-CUSTODY RECORD

3280

Client: CDM

Date: 7/1/96

Project Name / #: Baldwin Park OU, 2nd Groundwater Sampling

Project Address: Morada Well

P.O.#: 2581-112-TY-SAMP

Quote #:

Project Contact (please print): Suzanne Rowe / B. Wells

State where samples were collected:

Page 1 of 1

Lab Use Only
Lab Job # L3532
C.O. #
C.O. #
C.O. #
C.O. #
Sample Condition Upon Receipt:
Chilled X yes no
Sealed yes X no

Analysis Requested
All analyses and deliverables must be identified

Sample Identification	Date Collected	Time Collected	Grab	Comp.	Lab Sample Number	Physical State: Solid (S), Liquid (L), Vapor (V)	Preservation: Iced (I), Filtered (F), Preservative (P)	8021 VOCs	300 Nitrate/Nitrite						Total Number of Containers	Remarks	Temp of Sample Upon Receipt (if requested)
BP-GW-01900029-070196	7/1/96	1145	X		L3532-1	L	IP	X							3	40 ml VOAs + HCL *	
BP-GW-01900029(F)070196	↓	1150	X		L3532-2	L	IP	X							2	" " " *	
BP-GW-01900029-070196	↓	1333	X		L3532-3	L	I		X						1	100 ml poly + none (Bottle Tank 1525)	
															6	Total Number of Containers	

Method of Shipment

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to TMA approval and surcharge)

Date Results are Needed:

Rush Results requested by (please circle): Phone Fax

Phone #:

Fax #:

Data Package Options
(please circle if requested)

QC Summary
Type I, Type II, Type III, Type IV, Type V, Type VI, Type VII, Other

Site Specific QC Required?: YES NO
(if yes, indicate QC sample and submit triplicate volume)

SDG Complete?: YES NO

❶ Relinquished by (signature)* [signature]	❷ Received by (signature)	Date
Company: CDM	Company	Time
❸ Relinquished by (signature)*	❹ Received by Laboratory (signature) [signature]	Date: 7/1/96
Company	Laboratory Name: TMA/Santa Ana	Time: 3:18 PM

Special Instructions
* CLP TYPE PAPERWORK ONLY

*See Terms And Conditions on reverse **before** signing

☐ 300 Second Avenue, Waltham, MA 02254
(617) 890-7200, Fax (617) 890-3883

☐ 603 South Main Street, New Ellenton, SC 29809
(803) 652-3324, Fax (803) 652-7995

☑ 1920 E. Deere Avenue, Santa Ana, CA 92705
(714) 757-7022, Fax (714) 757-7274

☐ 387 Airport Industrial Drive, Ypsilanti, MI 48198
(313) 480-2500, Fax (313) 480-2295

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32 1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274
Formerly Terra Tech Labs

CAMP DRESSER & McKEE, INC.
18881 VON KARMAN, STE 650
IRVINE, CA 92715

JUL 26 1996

July 25, 1996

Ms. Suzanne Rowe
Camp Dresser & McKee
18881 Von Karman, Suite 650
Irvine, CA 92715

RE: CLP-Like Deliverables Case Narrative for Project Number 2581-112-T4-SAMP/L3535

Dear Ms. Rowe:

Listed below is additional information to clarify special circumstances that were encountered during the analysis of the above referenced project. This letter should be forwarded to the appropriate agency along with the deliverables package enclosed.

The water samples received on 07/02/96 were analyzed by Thermo Analytical for Volatile Organic Compounds (VOC's) by EPA Method 8021.

The EPA Method 8021 samples taken on 07/02/96 were analyzed 07/10/96-07/13/96 which is within the allowable method holding time. The samples and associated quality control samples may have been analyzed during the evening shift via auto-samplers both before and after midnight. The dates reported on the forms will then include one date for the samples run before midnight and a different date for the samples run after midnight. All of the samples are considered to have been run in one batch, and will have one set of quality control data.

The 07/10/96 continuing calibration had three compounds with percent differences outside the acceptable QC limits. Chloromethane, Trichloroethene and Dibromomethane had response factors less than the initial calibration response factors. However, the Chloromethane, Trichloroethene and Dibromomethane confirmation column response factors were greater than the initial calibration response factors. Since Chloromethane and Dibromomethane were not detected in any of the samples, the results were reported as is. Because Trichloroethene was detected in sample BP-GW-01900083-070296, the results were quantified on the DB-624 column. The results were confirmed by PID on both columns.

The 07/11/96 continuing calibrations had several compounds with percent differences outside the acceptable QC limits. These compounds had response factors less than the initial calibration response factors. However, the confirmation column response factors were greater than the initial calibration response factors. Since the compounds were not detected in any of the samples, the results were reported as is.

Target compounds which were analyzed for but not detected in the samples were flagged with a "U" on the sample data forms. If a "U" flag was used, the method detection limit (MDL) for that compound was inserted in the corresponding concentration column. A "B" flag was used for compounds which had detectable levels present in the associated method blank.

If you should have any questions or need further information, please contact me at 714.757.7022.

Sincerely,

Don Burley

Don Burley
Program Manager

Enclosure

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3535
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	07/02/96
Project Name:	Baldwin Park OU	Date Received:	07/02/96
Project Address:	2nd Groundwater Sampling	Date Analyzed:	07/10/96
	Glendora 7G	Time Analyzed:	22:48
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900083-070296	Lab Sample ID:	L3535-1

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	27	
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	120	D
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.62	
79-01-6	Trichloroethene	3.4	
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	2.8	
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

D = Dilution factor = 10 (analyzed 07/12/96).
U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

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EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3535
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	07/02/96
Project Name:	Baldwin Park OU	Date Received:	07/02/96
Project Address:	2nd Groundwater Sampling	Date Analyzed:	07/10/96
	Glendora 7G	Time Analyzed:	22:48
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900083-070296	Lab Sample ID:	L3535-1

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

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EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3535
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	07/02/96
Project Name:	Baldwin Park OU	Date Received:	07/02/96
Project Address:	2nd Groundwater Sampling	Date Analyzed:	07/10/96
	Glendora 7G	Time Analyzed:	23:29
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900083(F)-070296	Lab Sample ID:	L3535-2

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

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EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3535
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	07/02/96
Project Name:	Baldwin Park OU	Date Received:	07/02/96
Project Address:	2nd Groundwater Sampling	Date Analyzed:	07/10/96
	Glendora 7G	Time Analyzed:	23:29
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900083(F)-070296	Lab Sample ID:	L3535-2

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

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EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3535
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Groundwater Sampling Glendora 7G	Date Analyzed:	07/10/96
		Time Analyzed:	17:18
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/10 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

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EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3535
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Groundwater Sampling	Date Analyzed:	07/10/96
	Glendora 7G	Time Analyzed:	17:18
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/10 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

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EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3535
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Groundwater Sampling	Date Analyzed:	07/13/96
	Glendora 7G	Time Analyzed:	00:02
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/12 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3535
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Groundwater Sampling Glendora 7G	Date Analyzed:	07/13/96
		Time Analyzed:	00:02
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/12 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Surrogate Recovery

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3535
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/10/96-07/11/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Groundwater Sampling Glendora 7G		
Matrix:	Liquid		
GC Column 1:	DB-VRX, 75m, 0.45 mmID	GC ID:	OC

LAB SAMPLE NUMBER	% REC S 1 #	% REC S 2 #	% REC S 3 #
CCV	96	82	102
CCV	92	90	96
CCV	104	91	102
Method Blank	86	83	103
L3535-1	85	92	103
L3535-2	82	94	98
LCS	96	85	100
MS	91	87	104
MSD	94	82	102
QC Limits:	75-125	75-125	75-125

S 1 = 2-Chloropropane
S 2 = 1,4-Dichlorobutane
S 3 = aaa-Trifluorotoluene

Column used to flag recovery values with an asterisk.

* Value outside of QC limits.

TMA
Thermo Analytical

EPA 8021 Surrogate Recovery

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3535
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/12/96-07/13/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Groundwater Sampling Glendora 7G		
Matrix:	Liquid		
GC Column 1:	DB-VRX, 75m, 0.45 mmID	GC ID:	OC

LAB SAMPLE NUMBER	% REC S 1 #	% REC S 2 #	% REC S 3 #
CCV	102	115	102
CCV	94	96	96
Method Blank	105	103	102
L3535-1 DIL	101	99	102
LCS	96	101	94
MS	89	104	95
MSD	91	94	93
QC Limits:	75-125	75-125	75-125

S 1 = 2-Chloropropane
S 2 = 1,4-Dichlorobutane
S 3 = aaa-Trifluorotoluene

Column used to flag recovery values with an asterisk.

* Value outside of QC limits.

TMA
Thermo Analytical

EPA 8021 Matrix Spike/Matrix Spike Duplicate Recovery

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3535
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/11/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Groundwater Sampling Glendora 7G		
Matrix:	Liquid		
Client Sample ID:	BP-GW-MW51502-070996	Lab Sample ID:	L3547-5

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONC. (µg/L)	MS CONC. (µg/L)	MS % REC. #	QC LIMITS REC.
Benzene	10.0	0	9.85	99	74-121
Toluene	10.0	0.27	9.72	95	72-121
Ethylbenzene	10.0	0	9.69	97	72-117
o-Xylene	10.0	0.16	9.77	96	66-124
1,1-Dichloroethane	10.0	1.28	10.3	90	73-121
1,1,1-Trichloroethane	10.0	8.74	17.7	90	72-126
cis-1,3-Dichloropropene	10.0	0	9.52	95	58-124
Chlorobenzene	10.0	0	10.2	102	52-131

COMPOUND	SPIKE ADDED (µg/L)	MSD CONC. (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	10.0	9.48	95	4	0-10	74-121
Toluene	10.0	9.40	91	4	0-16	72-121
Ethylbenzene	10.0	9.42	94	3	0-14	72-117
o-Xylene	10.0	9.56	94	2	0-14	66-124
1,1-Dichloroethane	10.0	10.5	92	2	0-18	73-121
1,1,1-Trichloroethane	10.0	17.9	92	2	0-15	72-126
cis-1,3-Dichloropropene	10.0	9.40	94	1	0-22	58-124
Chlorobenzene	10.0	10.0	100	2	0-42	52-131

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

RPD: 0 out of 8 outside limits.
Spike Recovery: 0 out of 16 outside limits.

TMA
Thermo Analytical

EPA 8021 Matrix Spike/Matrix Spike Duplicate Recovery

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3535
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/13/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Groundwater Sampling Glendora 7G		
Matrix:	Liquid		
Client Sample ID:	BP-GW-01900031(F)-071296	Lab Sample ID:	L3551-3

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONC. (µg/L)	MS CONC. (µg/L)	MS % REC. #	QC LIMITS REC.
Benzene	10.0	0	9.44	94	74-121
Toluene	10.0	0.16	9.35	92	72-121
Ethylbenzene	10.0	0	9.09	91	72-117
o-Xylene	10.0	0	9.41	94	66-124
1,1-Dichloroethane	10.0	0	9.89	99	73-121
1,1,1-Trichloroethane	10.0	0	10.1	101	72-126
cis-1,3-Dichloropropene	10.0	0	9.81	98	58-124
Chlorobenzene	10.0	0	8.79	88	52-131

COMPOUND	SPIKE ADDED (µg/L)	MSD CONC. (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	10.0	9.43	94	0	0-10	74-121
Toluene	10.0	9.16	90	2	0-16	72-121
Ethylbenzene	10.0	9.09	91	0	0-14	72-117
o-Xylene	10.0	9.12	91	3	0-14	66-124
1,1-Dichloroethane	10.0	9.83	98	1	0-18	73-121
1,1,1-Trichloroethane	10.0	10.1	101	0	0-15	72-126
cis-1,3-Dichloropropene	10.0	9.41	94	4	0-22	58-124
Chlorobenzene	10.0	8.25	83	6	0-42	52-131

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

RPD: 0 out of 8 outside limits.
Spike Recovery: 0 out of 16 outside limits.

TMA
Thermo Analytical

EPA 8021 Laboratory Control Sample Recovery

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3535
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/11/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Groundwater Sampling Glendora 7G		

Matrix: Liquid
LCS Source: Ultra Scientific
Lab Sample ID: LCS

COMPOUND	SPIKE ADDED (µg/L)	LCS CONC. (µg/L)	LCS % REC. #	QC LIMITS REC.
Benzene	10.0	9.71	97	75-125
Toluene	10.0	9.45	95	75-125
Ethylbenzene	10.0	9.62	96	75-125
o-Xylene	10.0	9.77	98	75-125
1,1-Dichloroethane	10.0	9.19	92	75-125
1,1,1-Trichloroethane	10.0	9.49	95	75-125
cis-1,3-Dichloropropene	10.0	9.74	97	75-125
Chlorobenzene	10.0	9.78	98	75-125

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

Spike Recovery: 0 out of 8 outside limits.

Comments:

TMA
Thermo Analytical

EPA 8021 Laboratory Control Sample Recovery

Lab:	Thermo Analytical	Report Date:	07/23/96
Client:	CDM, Inc.	Lab P.N.:	L3535
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/13/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Groundwater Sampling Glendora 7G		

Matrix: Liquid
LCS Source: Ultra Scientific
Lab Sample ID: LCS

COMPOUND	SPIKE ADDED (µg/L)	LCS CONC. (µg/L)	LCS % REC. #	QC LIMITS REC.
Benzene	10.0	10.1	101	75-125
Toluene	10.0	9.91	99	75-125
Ethylbenzene	10.0	9.74	97	75-125
o-Xylene	10.0	9.90	99	75-125
1,1-Dichloroethane	10.0	10.4	104	75-125
1,1,1-Trichloroethane	10.0	10.8	108	75-125
cis-1,3-Dichloropropene	10.0	10.2	102	75-125
Chlorobenzene	10.0	9.19	92	75-125

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

Spike Recovery: 0 out of 8 outside limits.

Comments:

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical
GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3535
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/10/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	51701	9
Chloromethane	58449	9	33953	42*
Vinyl chloride	76709	7	77511	1
Bromomethane	43281	8	37473	13
Chloroethane	79236	6	76337	4
Trichlorofluoromethane	114511	8	110346	4
1,1-Dichloroethene	109789	8	102506	7
Methylene chloride	133849	11	131045	2
trans-1,2-Dichloroethene	114567	8	109123	5
1,1-Dichloroethane	113583	7	107625	5
cis-1,2-Dichloroethene	114171	7	105814	7
2,2-Dichloropropane	96980	9	107682	11
Bromochloromethane	82078	7	74360	9
Chloroform	145387	9	131379	10
1,1,1-Trichloroethane	133003	8	128465	3
Carbon tetrachloride	144402	6	142417	1
1,1-Dichloropropene	50937	5	49030	4
1,2-Dichloroethane	108993	9	95969	12
Trichloroethene	145231	10	119526	18*
1,2-Dichloropropane	102103	8	92435	9
Dibromomethane	54981	7	46396	16*
Bromodichloromethane	105109	8	103787	1
2-Chloroethyl vinyl ether	50937	5	49030	4
cis-1,3-Dichloropropene	91437	8	85475	7
trans-1,3-Dichloropropene	85647	11	77095	10
1,1,2-Trichloroethane	112065	12	103665	7
Tetrachloroethene	136777	14	125200	8
1,3-Dichloropropane	89531	10	82463	8
Dibromochloromethane	72030	8	67908	6
1,2-Dibromoethane	48062	8	44398	8
Chlorobenzene	54838	8	56234	3
1,1,1,2-Tetrachloroethane	126272	10	109990	13
Bromoform	50442	8	45211	10
1,1,2,2-Tetrachloroethane	86153	17	82746	4
1,2,3-Trichloropropane	70240	11	65419	7
2-Chlorotoluene	44765	8	38874	13
4-Chlorotoluene	46223	8	44709	3
1,3-Dichlorobenzene	73463	10	63053	14
1,4-Dichlorobenzene	78426	11	74682	5
1,2-Dichlorobenzene	74471	10	69354	7

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical
GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3535
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/10/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	20416	15
1,2,4-Trichlorobenzene	86267	12	74989	13
Hexachlorobutadiene	122627	14	107410	12
1,2,3-Trichlorobenzene	85565	14	80931	5
Benzene	15849	2	15379	3
Toluene	14971	4	14132	6
Ethylbenzene	13454	2	12958	4
p,m-Xylenes	15499	1	15088	3
o-Xylene	13254	2	12966	2
Styrene	17056	2	16595	3
Isopropylbenzene	10038	2	9720	3
Bromobenzene	34276	7	31855	7
Propylbenzene	13275	2	12542	6
1,3,5-Trimethylbenzene	18378	2	17837	3
tert-Butylbenzene	11218	10	10080	10
1,2,4-Trimethylbenzene	14062	3	13328	5
sec-Butylbenzene	11083	3	10728	3
4-Isopropyltoluene	10693	3	10147	5
n-Butylbenzene	11850	4	11214	5
Naphthalene	13153	6	12079	8
Carbon disulfide	1678	11	1659	1
MTBE	7346	7	7602	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical
GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3535
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	49392	13
Chloromethane	58449	9	28374	51*
Vinyl chloride	76709	7	74230	3
Bromomethane	43281	8	36064	17*
Chloroethane	79236	6	74301	6
Trichlorofluoromethane	114511	8	107460	6
1,1-Dichloroethene	109789	8	97827	11
Methylene chloride	133849	11	136235	2
trans-1,2-Dichloroethene	114567	8	108636	5
1,1-Dichloroethane	113583	7	109014	4
cis-1,2-Dichloroethene	114171	7	104771	8
2,2-Dichloropropane	96980	9	98029	1
Bromochloromethane	82078	7	74725	9
Chloroform	145387	9	132427	9
1,1,1-Trichloroethane	133003	8	127616	4
Carbon tetrachloride	144402	6	136105	6
1,1-Dichloropropene	50937	5	45793	10
1,2-Dichloroethane	108993	9	95240	13
Trichloroethene	145231	10	131691	9
1,2-Dichloropropane	102103	8	89349	12
Dibromomethane	54981	7	44999	18*
Bromodichloromethane	105109	8	104916	0
2-Chloroethyl vinyl ether	50937	5	45793	10
cis-1,3-Dichloropropene	91437	8	82986	9
trans-1,3-Dichloropropene	85647	11	73351	14
1,1,2-Trichloroethane	112065	12	103653	8
Tetrachloroethene	136777	14	123803	9
1,3-Dichloropropane	89531	10	82352	8
Dibromochloromethane	72030	8	67327	7
1,2-Dibromoethane	48062	8	44871	7
Chlorobenzene	54838	8	55756	2
1,1,1,2-Tetrachloroethane	126272	10	109684	13
Bromoform	50442	8	45420	10
1,1,2,2-Tetrachloroethane	86153	17	67392	22*
1,2,3-Trichloropropane	70240	11	67086	4
2-Chlorotoluene	44765	8	38145	15
4-Chlorotoluene	46223	8	46647	1
1,3-Dichlorobenzene	73463	10	60116	18*
1,4-Dichlorobenzene	78426	11	74660	5
1,2-Dichlorobenzene	74471	10	68851	8

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/23/96

Lab P.N.: L3535

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 06/30/96

Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	21546	11
1,2,4-Trichlorobenzene	86267	12	76198	12
Hexachlorobutadiene	122627	14	103960	15
1,2,3-Trichlorobenzene	85565	14	80171	6
Benzene	15849	2	14679	7
Toluene	14971	4	13561	9
Ethylbenzene	13454	2	12274	9
p,m-Xylenes	15499	1	14252	8
o-Xylene	13254	2	12263	7
Styrene	17056	2	15892	7
Isopropylbenzene	10038	2	9212	8
Bromobenzene	34276	7	31255	9
Propylbenzene	13275	2	11784	11
1,3,5-Trimethylbenzene	18378	2	16792	9
tert-Butylbenzene	11218	10	9387	16*
1,2,4-Trimethylbenzene	14062	3	12727	9
sec-Butylbenzene	11083	3	9944	10
4-Isopropyltoluene	10693	3	9575	10
n-Butylbenzene	11850	4	10423	12
Naphthalene	13153	6	11727	11
Carbon disulfide	1678	11	1548	8
MTBE	7346	7	7590	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3535
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	56543	10	55400	2
Chloromethane	58449	9	31321	46*
Vinyl chloride	76709	7	82806	8
Bromomethane	43281	8	36889	15
Chloroethane	79236	6	79861	1
Trichlorofluoromethane	114511	8	118874	4
1,1-Dichloroethene	109789	8	107875	2
Methylene chloride	133849	11	132051	1
trans-1,2-Dichloroethene	114567	8	108652	5
1,1-Dichloroethane	113583	7	108379	5
cis-1,2-Dichloroethene	114171	7	109157	4
2,2-Dichloropropane	96980	9	93715	3
Bromochloromethane	82078	7	76835	6
Chloroform	145387	9	139331	4
1,1,1-Trichloroethane	133003	8	127781	4
Carbon tetrachloride	144402	6	140990	2
1,1-Dichloropropene	50937	5	48929	4
1,2-Dichloroethane	108993	9	101706	7
Trichloroethene	145231	10	139592	4
1,2-Dichloropropane	102103	8	97261	5
Dibromomethane	54981	7	51210	7
Bromodichloromethane	105109	8	102450	3
2-Chloroethyl vinyl ether	50937	5	48929	4
cis-1,3-Dichloropropene	91437	8	88254	3
trans-1,3-Dichloropropene	85647	11	81412	5
1,1,2-Trichloroethane	112065	12	109904	2
Tetrachloroethene	136777	14	129308	5
1,3-Dichloropropane	89531	10	86358	4
Dibromochloromethane	72030	8	70229	3
1,2-Dibromoethane	48062	8	46789	3
Chlorobenzene	54838	8	56102	2
1,1,1,2-Tetrachloroethane	126272	10	118130	6
Bromoform	50442	8	49059	3
1,1,2,2-Tetrachloroethane	86153	17	84464	2
1,2,3-Trichloropropane	70240	11	69581	1
2-Chlorotoluene	44765	8	42563	5
4-Chlorotoluene	46223	8	45990	1
1,3-Dichlorobenzene	73463	10	68275	7
1,4-Dichlorobenzene	78426	11	78604	0
1,2-Dichlorobenzene	74471	10	72248	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3535
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	24141	9	22101	8
1,2,4-Trichlorobenzene	86267	12	80677	6
Hexachlorobutadiene	122627	14	114714	6
1,2,3-Trichlorobenzene	85565	14	84825	1
Benzene	15849	2	15318	3
Toluene	14971	4	14119	6
Ethylbenzene	13454	2	12876	4
p,m-Xylenes	15499	1	15013	3
o-Xylene	13254	2	12902	3
Styrene	17056	2	16544	3
Isopropylbenzene	10038	2	9715	3
Bromobenzene	34276	7	32347	6
Propylbenzene	13275	2	12612	5
1,3,5-Trimethylbenzene	18378	2	17706	4
tert-Butylbenzene	11218	10	10024	11
1,2,4-Trimethylbenzene	14062	3	13302	5
sec-Butylbenzene	11083	3	10718	3
4-Isopropyltoluene	10693	3	10091	6
n-Butylbenzene	11850	4	11047	7
Naphthalene	13153	6	12340	6
Carbon disulfide	1678	11	1563	7
MTBE	7346	7	7255	1

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/23/96

Lab P.N.: L3535

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 07/12/96

Daily Calibration Date: 07/12/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane				
Chloromethane				
Vinyl chloride				
Bromomethane				
Chloroethane				
Trichlorofluoromethane				
1,1-Dichloroethene				
Methylene chloride				
trans-1,2-Dichloroethene				
1,1-Dichloroethane				
cis-1,2-Dichloroethene				
2,2-Dichloropropane				
Bromochloromethane				
Chloroform				
1,1,1-Trichloroethane	115298	10	129127	12
Carbon tetrachloride				
1,1-Dichloropropene				
1,2-Dichloroethane				
Trichloroethene				
1,2-Dichloropropane				
Dibromomethane				
Bromodichloromethane				
2-Chloroethyl vinyl ether				
cis-1,3-Dichloropropene				
trans-1,3-Dichloropropene				
1,1,2-Trichloroethane				
Tetrachloroethene				
1,3-Dichloropropane				
Dibromochloromethane				
1,2-Dibromoethane				
Chlorobenzene				
1,1,1,2-Tetrachloroethane				
Bromoform				
1,1,2,2-Tetrachloroethane				
1,2,3-Trichloropropane				
2-Chlorotoluene				
4-Chlorotoluene				
1,3-Dichlorobenzene				
1,4-Dichlorobenzene				
1,2-Dichlorobenzene				

(a) Control limits = 0 - 20 %

(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3535
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 07/12/96
Daily Calibration Date: 07/12/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane				
1,2,4-Trichlorobenzene				
Hexachlorobutadiene				
1,2,3-Trichlorobenzene				
Benzene				
Toluene				
Ethylbenzene				
p,m-Xylenes				
o-Xylene				
Styrene				
Isopropylbenzene				
Bromobenzene				
Propylbenzene				
1,3,5-Trimethylbenzene				
tert-Butylbenzene				
1,2,4-Trimethylbenzene				
sec-Butylbenzene				
4-Isopropyltoluene				
n-Butylbenzene				
Naphthalene				
Carbon disulfide				
MTBE				

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical
GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3535
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 07/12/96
Daily Calibration Date: 07/12/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane				
Chloromethane				
Vinyl chloride				
Bromomethane				
Chloroethane				
Trichlorofluoromethane				
1,1-Dichloroethene				
Methylene chloride				
trans-1,2-Dichloroethene				
1,1-Dichloroethane				
cis-1,2-Dichloroethene				
2,2-Dichloropropane				
Bromochloromethane				
Chloroform				
1,1,1-Trichloroethane	115298	10	110991	4
Carbon tetrachloride				
1,1-Dichloropropene				
1,2-Dichloroethane				
Trichloroethene				
1,2-Dichloropropane				
Dibromomethane				
Bromodichloromethane				
2-Chloroethyl vinyl ether				
cis-1,3-Dichloropropene				
trans-1,3-Dichloropropene				
1,1,2-Trichloroethane				
Tetrachloroethene				
1,3-Dichloropropane				
Dibromochloromethane				
1,2-Dibromoethane				
Chlorobenzene				
1,1,1,2-Tetrachloroethane				
Bromoform				
1,1,2,2-Tetrachloroethane				
1,2,3-Trichloropropane				
2-Chlorotoluene				
4-Chlorotoluene				
1,3-Dichlorobenzene				
1,4-Dichlorobenzene				
1,2-Dichlorobenzene				

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/23/96

Lab P.N.: L3535

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 07/12/96

Daily Calibration Date: 07/12/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane				
1,2,4-Trichlorobenzene				
Hexachlorobutadiene				
1,2,3-Trichlorobenzene				
Benzene				
Toluene				
Ethylbenzene				
p,m-Xylenes				
o-Xylene				
Styrene				
Isopropylbenzene				
Bromobenzene				
Propylbenzene				
1,3,5-Trimethylbenzene				
tert-Butylbenzene				
1,2,4-Trimethylbenzene				
sec-Butylbenzene				
4-Isopropyltoluene				
n-Butylbenzene				
Naphthalene				
Carbon disulfide				
MTBE				

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-624, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3535
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/10/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane				
Chloromethane				
Vinyl chloride				
Bromomethane				
Chloroethane				
Trichlorofluoromethane				
1,1-Dichloroethene				
Methylene chloride				
trans-1,2-Dichloroethene				
1,1-Dichloroethane				
cis-1,2-Dichloroethene				
2,2-Dichloropropane				
Bromochloromethane				
Chloroform				
1,1,1-Trichloroethane				
Carbon tetrachloride				
1,1-Dichloropropene				
1,2-Dichloroethane				
Trichloroethene	66738	11	57065	14
1,2-Dichloropropane				
Dibromomethane				
Bromodichloromethane				
2-Chloroethyl vinyl ether				
cis-1,3-Dichloropropene				
trans-1,3-Dichloropropene				
1,1,2-Trichloroethane				
Tetrachloroethene				
1,3-Dichloropropane				
Dibromochloromethane				
1,2-Dibromoethane				
Chlorobenzene				
1,1,1,2-Tetrachloroethane				
Bromoform				
1,1,2,2-Tetrachloroethane				
1,2,3-Trichloropropane				
2-Chlorotoluene				
4-Chlorotoluene				
1,3-Dichlorobenzene				
1,4-Dichlorobenzene				
1,2-Dichlorobenzene				

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-624, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/23/96

Lab P.N.: L3535

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 06/30/96

Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane				
1,2,4-Trichlorobenzene				
Hexachlorobutadiene				
1,2,3-Trichlorobenzene				
Benzene				
Toluene				
Ethylbenzene				
p,m-Xylenes				
o-Xylene				
Styrene				
Isopropylbenzene				
Bromobenzene				
Propylbenzene				
1,3,5-Trimethylbenzene				
tert-Butylbenzene				
1,2,4-Trimethylbenzene				
sec-Butylbenzene				
4-Isopropyltoluene				
n-Butylbenzene				
Naphthalene				
Carbon disulfide				
MTBE				

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

J024C

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-624, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/23/96

Lab P.N.: L3535

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 06/30/96

Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane				
Chloromethane				
Vinyl chloride				
Bromomethane				
Chloroethane				
Trichlorofluoromethane				
1,1-Dichloroethene				
Methylene chloride				
trans-1,2-Dichloroethene				
1,1-Dichloroethane				
cis-1,2-Dichloroethene				
2,2-Dichloropropane				
Bromochloromethane				
Chloroform				
1,1,1-Trichloroethane				
Carbon tetrachloride				
1,1-Dichloropropene				
1,2-Dichloroethane				
Trichloroethene	66738	11	64137	4
1,2-Dichloropropane				
Dibromomethane				
Bromodichloromethane				
2-Chloroethyl vinyl ether				
cis-1,3-Dichloropropene				
trans-1,3-Dichloropropene				
1,1,2-Trichloroethane				
Tetrachloroethene				
1,3-Dichloropropane				
Dibromochloromethane				
1,2-Dibromoethane				
Chlorobenzene				
1,1,1,2-Tetrachloroethane				
Bromoform				
1,1,2,2-Tetrachloroethane				
1,2,3-Trichloropropane				
2-Chlorotoluene				
4-Chlorotoluene				
1,3-Dichlorobenzene				
1,4-Dichlorobenzene				
1,2-Dichlorobenzene				

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-624, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/23/96
Lab P.N.: L3535
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 06/30/96
Daily Calibration Date: 07/11/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane				
1,2,4-Trichlorobenzene				
Hexachlorobutadiene				
1,2,3-Trichlorobenzene				
Benzene				
Toluene				
Ethylbenzene				
p,m-Xylenes				
o-Xylene				
Styrene				
Isopropylbenzene				
Bromobenzene				
Propylbenzene				
1,3,5-Trimethylbenzene				
tert-Butylbenzene				
1,2,4-Trimethylbenzene				
sec-Butylbenzene				
4-Isopropyltoluene				
n-Butylbenzene				
Naphthalene				
Carbon disulfide				
MTBE				

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

CHAIN-OF-CUSTODY RECORD

3281

Client: CDM

Date: 7/2/96

Project Name / #: Baldwin Park OU, 2nd Groundwater Sampling

Project Address: Glendora 7G (Virginia / Paramount)

P.O.#: 2554-112 TY-SAMP

Quote #:

Project Contact (please print): Suzanne Rowe / B. Wells

State where samples were collected:

Page 1 of 1

Lab Use Only
Lab Job # L3535
C.O. #
C.O. #
C.O. #
C.O. #
Sample Condition Upon Receipt:
Chilled ✓ yes no
Sealed yes ✓ no

Analysis Requested All analyses and deliverables must be identified

Sample Identification	Date Collected	Time Collected	Grab	Comp.	Lab Sample Number	Physical State: Solid (S), Liquid (L), Vapor (V)	Preservation: Iced (I), Filtered (F), Preservative (P)	8021 VOCs						Total Number of Containers	Remarks	Temp of Sample Upon Receipt (if requested)
BP-GW-01900083 010096	7/2/96	0957	X		L3535-1	L	IP	X						3	40 ml VOAs + HCL	
BP-GW-01900083(F)-070296	07/2/96	1005	X		L3535-1	L	IP	X						2	" " "	

CM

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to TMA approval and surcharge)

Date Results are Needed:

Rush Results requested by (please circle): Phone Fax

Phone #:

Fax #:

Data Package Options (please circle if requested)

QC Summary
Type I, Type II, Type III, Type IV, Type V, Type VI, Type VII, Other

Site Specific QC Required?: YES NO
(if yes, indicate QC sample and submit triplicate volume)

SDG Complete?: YES NO

5 Total Number of Containers

Method of Shipment

❶ Relinquished by (signature)*	❷ Received by (signature)	Date
Scott M. Muñoz		
Company: CDM	Company:	Time:
❸ Relinquished by (signature)*	❹ Received by Laboratory (signature): J Paoli	Date: 7/2/96
Company:	Laboratory Name: TMA-SA	Time: 12:30

Special Instructions
* CLP TYPE PAPERWORK

*See Terms And Conditions on reverse **before** signing

☐ 300 Second Avenue, Waltham, MA 02254
(617) 890-7200, Fax (617) 890-3883

☐ 603 South Main Street, New Ellenton, SC 29809
(803) 652-3324, Fax (803) 652-7995

☑ 1920 E. Deere Avenue, Santa Ana, CA 92705
(714) 757-7022, Fax (714) 757-7274

☐ 387 Airport Industrial Drive, Ypsilanti, MI 48198
(313) 480-2500, Fax (313) 480-2295

TMA
Thermo Analytical

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TMA
Thermo Analytical

33 1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274
Formerly Terra Tech Labs

August 9, 1996

Ms. Suzanne Rowe
Camp Dresser & McKee
18881 Von Karman, Suite 650
Irvine, CA 92715

RE: CLP-Like Deliverables Case Narrative for Project Number 2581-112-T4-SAMP/L3548
Dear Ms. Rowe:

Listed below is additional information to clarify special circumstances that were encountered during the analysis of the above referenced project. This letter should be forwarded to the appropriate agency along with the deliverables package enclosed.

The water samples received on 07/10/96 were analyzed by Thermo Analytical for Volatile Organic Compounds (VOC's) by EPA Method 8021, Metals by EPA 6000/7000 and various Wet Chemistry parameters.

The EPA Method 8021 samples taken on 07/10/96 were analyzed 7/13/96-7/24/96 which is within the allowable method holding time. The samples and associated quality control samples may have been analyzed during the evening shift via auto-samplers both before and after midnight. The dates reported on the forms will then include one date for the samples run before midnight and a different date for the samples run after midnight. All of the samples are considered to have been run in one batch, and will have one set of quality control data.

The 07/12/96 initial calibration had several compounds with percent RSDs outside the acceptable QC limits. The 07/12/96 and 07/13/96 continuing calibrations had several compounds with percent differences outside the acceptable QC limits. The instrument was recalibrated with similar results. Instrument maintenance was completed and an initial calibration performed on 07/24/96 for the brominated compounds only. The 07/24/96 initial calibration had compound with percent RSDs outside the acceptable QC limits. All compounds with % RSD greater than 20% on the initial calibration were not detected during analysis.

The Metals were analyzed 07/16/96. The matrix spike percent recovery for Calcium was outside the acceptable QC limits due to the high concentration found in the native sample. The post spike sample percent recoveries for Calcium and Magnesium were outside the acceptable QC limits due to the high concentrations found in the native sample.

Target compounds which were analyzed for but not detected in the samples were flagged with a "U" on the sample data forms. If a "U" flag was used, the method detection limit (MDL) for that compound was inserted in the corresponding concentration column. A "B" flag was used for compounds which had detectable levels present in the associated method blank.

Sincerely,

John R. Dudek

John Dudek
General Manager

Enclosure

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/26/96
Client:	CDM, Inc.	Lab P.N.:	L3548
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	07/10/96
Project Name:	Baldwin Park OU	Date Received:	07/10/96
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/13/96
	Palm Ave	Time Analyzed:	04:51
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-08000039-071096	Lab Sample ID:	L3548-1

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.88	
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.49	
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.35	
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.33	
56-23-5	Carbon tetrachloride	0.96	
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	3.8	
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	1.9	
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/26/96
Client:	CDM, Inc.	Lab P.N.:	L3548
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	07/10/96
Project Name:	Baldwin Park OU	Date Received:	07/10/96
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/13/96
	Palm Ave	Time Analyzed:	04:51
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-08000039-071096	Lab Sample ID:	L3548-1

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.21	
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.12	
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/26/96
Client:	CDM, Inc.	Lab P.N.:	L3548
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	07/10/96
Project Name:	Baldwin Park OU	Date Received:	07/10/96
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/13/96
	Palm Ave	Time Analyzed:	05:31
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-08000039(F)-071096	Lab Sample ID:	L3548-2

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.48	
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

D = Dilution factor = 50 (analyzed 07/12/96).
U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/26/96
Client:	CDM, Inc.	Lab P.N.:	L3548
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	07/10/96
Project Name:	Baldwin Park OU	Date Received:	07/10/96
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/13/96
	Palm Ave	Time Analyzed:	05:31
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-08000039(F)-071096	Lab Sample ID:	L3548-2

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/26/96
Client:	CDM, Inc.	Lab P.N.:	L3548
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/13/96
	Palm Ave	Time Analyzed:	00:02
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/13 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/26/96
Client:	CDM, Inc.	Lab P.N.:	L3548
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/13/96
	Palm Ave	Time Analyzed:	00:02
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/13 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/26/96
Client:	CDM, Inc.	Lab P.N.:	L3548
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/24/96
	Palm Ave	Time Analyzed:	14:41
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/24 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/26/96
Client:	CDM, Inc.	Lab P.N.:	L3548
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Quarterly Sampling	Date Analyzed:	07/24/96
	Palm Ave	Time Analyzed:	14:41
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/24 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Surrogate Recovery

Lab:	Thermo Analytical	Report Date:	07/26/96
Client:	CDM, Inc.	Lab P.N.:	L3548
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/12/96-07/13/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Quarterly Sampling Palm Ave		
Matrix:	Liquid		
GC Column 1:	DB-VRX, 75m, 0.45 mmID	GC ID:	OC

LAB SAMPLE NUMBER	% REC S 1 #	% REC S 2 #	% REC S 3 #
CCV	102	115	102
CCV	94	96	96
Method Blank	105	103	102
L3548-1	85	97	88
L3548-2	103	104	105
LCS	96	101	94
MS	89	104	95
MSD	91	94	93
QC Limits:	75-125	75-125	75-125

S 1 = 2-Chloropropane
S 2 = 1,4-Dichlorobutane
S 3 = aaa-Trifluorotoluene

Column used to flag recovery values with an asterisk.

* Value outside of QC limits.

TMA
Thermo Analytical

EPA 8021 Surrogate Recovery

Lab:	Thermo Analytical	Report Date:	07/26/96
Client:	CDM, Inc.	Lab P.N.:	L3548
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/24/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Quarterly Sampling Palm Ave		
Matrix:	Liquid		
GC Column 1:	DB-VRX, 75m, 0.45 mmID	GC ID:	OC

LAB SAMPLE NUMBER	% REC S 1 #	% REC S 2 #
CCV	106	129*
CCV	104	143*
Method Blank	80	94
L3548-1	77	88
L3548-2	80	90
LCS	103	127*
LCSD	107	122
QC Limits:	75-125	75-125

S 1 = 2-Chloropropane
S 2 = 1,4-Dichlorobutane

Column used to flag recovery values with an asterisk.

* Value outside of QC limits.

TMA
Thermo Analytical

EPA 8021 Matrix Spike/Matrix Spike Duplicate Recovery

Lab:	Thermo Analytical	Report Date:	07/26/96
Client:	CDM, Inc.	Lab P.N.:	L3548
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/13/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Quarterly Sampling Palm Ave		
Matrix:	Liquid		
Client Sample ID:	BP-GW-01900031(F)-071296	Lab Sample ID:	L3551-3

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONC. (µg/L)	MS CONC. (µg/L)	MS % REC. #	QC LIMITS REC.
Benzene	10.0	0	9.44	94	74-121
Toluene	10.0	0.16	9.35	92	72-121
Ethylbenzene	10.0	0	9.09	91	72-117
o-Xylene	10.0	0	9.41	94	66-124
1,1-Dichloroethane	10.0	0	9.89	99	73-121
1,1,1-Trichloroethane	10.0	0	10.1	101	72-126
cis-1,3-Dichloropropene	10.0	0	9.81	98	58-124
Chlorobenzene	10.0	0	8.79	88	52-131

COMPOUND	SPIKE ADDED (µg/L)	MSD CONC. (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	10.0	9.43	94	0	0-10	74-121
Toluene	10.0	9.16	90	2	0-16	72-121
Ethylbenzene	10.0	9.09	91	0	0-14	72-117
o-Xylene	10.0	9.12	91	3	0-14	66-124
1,1-Dichloroethane	10.0	9.83	98	1	0-18	73-121
1,1,1-Trichloroethane	10.0	10.1	101	0	0-15	72-126
cis-1,3-Dichloropropene	10.0	9.41	94	4	0-22	58-124
Chlorobenzene	10.0	8.25	83	6	0-42	52-131

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

RPD: 0 out of 8 outside limits.
Spike Recovery: 0 out of 16 outside limits.

TMA
Thermo Analytical

EPA 8021 Laboratory Control Sample Recovery

Lab:	Thermo Analytical	Report Date:	07/26/96
Client:	CDM, Inc.	Lab P.N.:	L3548
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/13/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Quarterly Sampling Palm Ave		

Matrix: Liquid
LCS Source: Ultra Scientific
Lab Sample ID: LCS

COMPOUND	SPIKE ADDED (µg/L)	LCS CONC. (µg/L)	LCS % REC. #	QC LIMITS REC.
Benzene	10.0	10.1	101	75-125
Toluene	10.0	9.91	99	75-125
Ethylbenzene	10.0	9.74	97	75-125
o-Xylene	10.0	9.90	99	75-125
1,1-Dichloroethane	10.0	10.4	104	75-125
1,1,1-Trichloroethane	10.0	10.8	108	75-125
cis-1,3-Dichloropropene	10.0	10.2	102	75-125
Chlorobenzene	10.0	9.19	92	75-125

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

Spike Recovery: 0 out of 8 outside limits.

Comments:

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/26/96

Lab P.N.: L3548

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 07/12/96

Daily Calibration Date: 07/12/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	49131	6	49470	1
Chloromethane	57465	25*	39932	31*
Vinyl chloride	65313	13	70453	8
Bromomethane	26752	22*	33217	24*
Chloroethane	72982	5	75946	4
Trichlorofluoromethane	100461	6	104837	4
1,1-Dichloroethene	95601	7	102009	7
Methylene chloride	124450	6	123160	1
trans-1,2-Dichloroethene	97541	9	105913	9
1,1-Dichloroethane	103192	4	106785	3
cis-1,2-Dichloroethene	100973	8	109906	9
2,2-Dichloropropane	91602	6	91740	0
Bromochloromethane**	28905	19	26981	7
Chloroform	132179	5	140845	7
1,1,1-Trichloroethane	115298	10	129127	12
Carbon tetrachloride	124740	14	142581	14
1,1-Dichloropropene	43686	7	47747	9
1,2-Dichloroethane	97522	5	103382	6
Trichloroethene	126731	8	139058	10
1,2-Dichloropropane	97758	5	103453	6
Dibromomethane**	11567	15	11268	3
Bromodichloromethane	81931	20	102798	25*
2-Chloroethyl vinyl ether	43686	7	47747	9
cis-1,3-Dichloropropene	79582	11	91631	15
trans-1,3-Dichloropropene	73170	10	83708	14
1,1,2-Trichloroethane	103658	7	113336	9
Tetrachloroethene	126327	10	135268	7
1,3-Dichloropropane	81554	7	88106	8
Dibromochloromethane**	21797	18	24551	13
1,2-Dibromoethane**	10825	20	10036	7
Chlorobenzene	56927	13	57526	1
1,1,1,2-Tetrachloroethane	107226	10	121041	13
Bromoform**	7457	23*	8533	14
1,1,2,2-Tetrachloroethane	78010	8	70657	9
1,2,3-Trichloropropane	63096	6	67138	6
2-Chlorotoluene	41996	6	43281	3
4-Chlorotoluene	42935	7	44209	3
1,3-Dichlorobenzene	68698	7	71574	4
1,4-Dichlorobenzene	73297	9	74251	1
1,2-Dichlorobenzene	70164	8	71519	2

(a) Control limits = 0 - 20 %

(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/26/96

Lab P.N.: L3548

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 07/12/96

Daily Calibration Date: 07/12/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane**	3572	18	3975	11
1,2,4-Trichlorobenzene	78461	8	81827	4
Hexachlorobutadiene	115217	9	117199	2
1,2,3-Trichlorobenzene	79782	8	82547	3
Benzene	15100	4	15861	5
Toluene	14234	2	14721	3
Ethylbenzene	13137	5	13386	2
p,m-Xylenes	14917	3	15597	5
o-Xylene	12860	2	13303	3
Styrene	16854	4	17305	3
Isopropylbenzene	9717	2	10068	4
Bromobenzene	15686	5	16097	3
Propylbenzene	12721	4	13512	6
1,3,5-Trimethylbenzene	18085	6	18396	2
tert-Butylbenzene	10810	13	10479	3
1,2,4-Trimethylbenzene	13570	4	13986	3
sec-Butylbenzene	10872	4	11203	3
4-Isopropyltoluene	10356	6	10685	3
n-Butylbenzene	11545	6	11758	2
Naphthalene	10564	6	12034	14
Carbon disulfide	1678	11	1661	1
MTBE	7346	7	7470	2

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/26/96

Lab P.N.: L3548

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 07/12/96

Daily Calibration Date: 07/13/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	49131	6	40226	18*
Chloromethane	57465	25*	18959	67*
Vinyl chloride	65313	13	65940	1
Bromomethane	26752	22*	28750	7
Chloroethane	72982	5	59448	19*
Trichlorofluoromethane	100461	6	100318	0
1,1-Dichloroethene	95601	7	102896	8
Methylene chloride	124450	6	118675	5
trans-1,2-Dichloroethene	97541	9	100510	3
1,1-Dichloroethane	103192	4	99874	3
cis-1,2-Dichloroethene	100973	8	102442	1
2,2-Dichloropropane	91602	6	42950	53*
Bromochloromethane**	28905	19	24129	17*
Chloroform	132179	5	131352	1
1,1,1-Trichloroethane	115298	10	110991	4
Carbon tetrachloride	124740	14	129164	4
1,1-Dichloropropene	43686	7	43013	2
1,2-Dichloroethane	97522	5	91336	6
Trichloroethene	126731	8	139918	10
1,2-Dichloropropane	97758	5	92108	6
Dibromomethane**	11567	15	10234	12
Bromodichloromethane	81931	20	93129	14
2-Chloroethyl vinyl ether	43686	7	43013	2
cis-1,3-Dichloropropene	79582	11	74698	6
trans-1,3-Dichloropropene	73170	10	63151	14
1,1,2-Trichloroethane	103658	7	98785	5
Tetrachloroethene	126327	10	115437	9
1,3-Dichloropropane	81554	7	76705	6
Dibromochloromethane**	21797	18	22036	1
1,2-Dibromoethane**	10825	20	8813	19*
Chlorobenzene	56927	13	47645	16*
1,1,1,2-Tetrachloroethane	107226	10	106510	1
Bromoform**	7457	23*	7270	3
1,1,2,2-Tetrachloroethane	78010	8	54082	31*
1,2,3-Trichloropropane	63096	6	59738	5
2-Chlorotoluene	41996	6	37706	10
4-Chlorotoluene	42935	7	38694	10
1,3-Dichlorobenzene	68698	7	63375	8
1,4-Dichlorobenzene	73297	9	66028	10
1,2-Dichlorobenzene	70164	8	63724	9

(a) Control limits = 0 - 20 %

(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/26/96
Lab P.N.: L3548
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 07/12/96
Daily Calibration Date: 07/13/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane**	3572	18	3323	7
1,2,4-Trichlorobenzene	78461	8	67720	14
Hexachlorobutadiene	115217	9	107989	6
1,2,3-Trichlorobenzene	79782	8	70545	12
Benzene	15100	4	14101	7
Toluene	14234	2	13136	8
Ethylbenzene	13137	5	11775	10
p,m-Xylenes	14917	3	13622	9
o-Xylene	12860	2	11754	9
Styrene	16854	4	15086	10
Isopropylbenzene	9717	2	8884	9
Bromobenzene	15686	5	14599	7
Propylbenzene	12721	4	11563	9
1,3,5-Trimethylbenzene	18085	6	15951	12
tert-Butylbenzene	10810	13	9335	14
1,2,4-Trimethylbenzene	13570	4	11977	12
sec-Butylbenzene	10872	4	9651	11
4-Isopropyltoluene	10356	6	9134	12
n-Butylbenzene	11545	6	9512	18*
Naphthalene	10564	6	9427	11
Carbon disulfide	1678	11	1633	3
MTBE	7346	7	7149	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

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METALS ANALYSIS DATA SHEET

Lab:	Thermo Analytical	Report Date:	07/25/96
Client:	CDM, Inc.	Lab P.N.:	L3548
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92714	Client P.N.:	2581-112-T4-SAMP
		Date Sampled:	07/10/96
Project Name:	2nd Quarterly Sampling	Date Received:	07/10/96
Project Address:	Palm Avenue Palm Well	Date Analyzed:	07/16/96
		Dilution Factor:	1.0
Matrix:	Liquid	Lab Sample ID:	L3548-1
Client Sample ID:	BP-GW-08000039-071096		
Concentration:	mg/l		

AFI Code	Analyte	Method	Date Analyzed	Concentration	Q
Aluminum	Aluminum	6010	07/16/96	0.0721	
Arsenic	Arsenic	7060	07/16/96	0.00299	U
Barium	Barium	6010	07/16/96	0.0971	
Cadmium	Cadmium	6010	07/16/96	0.00170	U
Chromium	Chromium	6010	07/16/96	0.00180	U
Copper	Copper	6010	07/16/96	0.0116	
Iron	Iron	6010	07/16/96	0.0944	
Lead	Lead	7421	07/16/96	0.00232	
Manganese	Manganese	6010	07/16/96	0.0169	
Mercury	Mercury	7470	07/16/96	0.000290	
Nickel	Nickel	6010	07/16/96	0.00470	U
Zinc	Zinc	6010	07/16/96	0.0564	
Calcium	Calcium	6010	07/16/96	51.8	
Magnesium	Magnesium	6010	07/16/96	9.46	
Potassium	Potassium	6010	07/16/96	3.00	
Sodium	Sodium	6010	07/16/96	9.61	

Comments:

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METALS INITIAL AND CONTINUING CALIBRATION REPORT

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: 2nd Quarterly Sampling
Project Address: Palm Avenue
Palm Well

Report Date: 07/25/96
Lab P.N.: L3548
Client P.N.: 2581-112-T4-SAMP

Concentration: mg/l

Metal	Date Analyzed	Initial Calibration			Continuing Calibration					
		True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	Method
Aluminum	07/16/96	20.0	19.8	99	2.00	1.99	100	2.04	102	6010
Arsenic	07/16/96	0.0250	0.0236	94	0.0250	0.0253	101	0.0262	105	7060
Barium	07/16/96	20.0	19.8	99	2.00	1.95	97	1.99	99	6010
Cadmium	07/16/96	5.00	4.84	97	2.00	2.03	102	2.11	105	6010
Chromium	07/16/96	2.00	1.94	97	2.00	2.00	100	2.06	103	6010
Copper	07/16/96	2.50	2.47	99	2.00	1.96	98	2.02	101	6010
Iron	07/16/96	10.0	9.72	97	2.00	2.00	100	2.04	102	6010
Lead	07/16/96	0.0250	0.0248	99	0.0250	0.0245	98	0.0243	97	7421
Manganese	07/16/96	5.00	4.84	97	2.00	2.01	101	2.07	104	6010
Mercury	07/16/96	0.00500	0.00498	100	0.00300	0.00304	101	0.00304	101	7470
Nickel	07/16/96	5.00	4.82	96	2.00	2.01	101	2.10	105	6010
Zinc	07/16/96	5.00	4.85	97	2.00	2.03	101	2.12	106	6010
Calcium	07/16/96	50.0	48.6	97	2.00	1.98	99	2.05	102	6010
Magnesium	07/16/96	50.0	49.3	99	2.00	1.95	97	1.98	99	6010
Potassium	07/16/96	50.0	49.7	99	20.0	19.8	99	20.2	101	6010
Sodium	07/16/96	50.0	49.9	100	2.00	1.95	98	2.01	101	6010

% Recovery Control Limits: Mercury 80-120%; Other Metals 90-110%.

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METALS BLANKS

Lab:	Thermo Analytical	Report Date:	07/25/96
Client:	CDM, Inc.	Lab P.N.:	L3548
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
Project Name:	2nd Quarterly Sampling		
Project Address:	Palm Avenue Palm Well		

Matrix: Liquid
Date Analyzed: 07/16/96
Concentration: mg/l

Analyte	Date Analyzed	Inital Calib. Blank (mg/l)	Q	Continuing Calibration Blank (mg/l) Conc.	C	Conc.	C	Conc.	C	Preparation Blank	C	Method
Aluminum	07/16/96	0.0437	U	0.0701		0.0437	U			0.0437	U	6010
Arsenic	07/16/96	0.00299	U	0.00299	U	0.00299	U	0.00299	U	0.00299	U	7060
Barium	07/16/96	0.00140		0.00134	U	0.00134	U			0.00134	U	6010
Cadmium	07/16/96	0.00170	U	0.00170	U	0.00170	U			0.00170	U	6010
Chromium	07/16/96	0.00180	U	0.00180	U	0.00180	U			0.00180	U	6010
Copper	07/16/96	0.00270	U	0.00270	U	0.00270	U			0.00270	U	6010
Iron	07/16/96	0.0225	U	0.0549		0.0225	U			0.0327		6010
Lead	07/16/96	0.000636	U	0.000636	U	0.000636	U			0.000780		7421
Manganese	07/16/96	0.00200	U	0.00200	U	0.00200	U			0.00200	U	6010
Mercury	07/16/96	0.000173	U	0.000173	U	0.000173	U			0.000173	U	7470
Nickel	07/16/96	0.00470	U	0.00470	U	0.00470	U			0.00470	U	6010
Zinc	07/16/96	0.0175	U	0.0175	U	0.0175	U			0.0187		6010
Calcium	07/16/96	0.102	U	0.102	U	0.102	U			0.302		6010
Magnesium	07/16/96	0.0379	U	0.0681		0.0379	U			0.219		6010
Potassium	07/16/96	0.358	U	0.358	U	0.358	U			0.358	U	6010
Sodium	07/16/96	0.108	U	0.108	U	0.108	U			0.210		6010

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ICP INTERFERENCE CHECK SAMPLE

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: 2nd Quarterly Sampling
Project Address: Palm Avenue
Palm Well

Concentration Unit: mg/l

Report Date: 07/25/96
Lab P.N.: L3548
Client P.N.: 2581-112-T4-SAMP

Analyte	Date Analyzed	Initial True Sol. AB	Initial Found Sol. AB	Initial %R	Final True Sol. AB	Final Found Sol. AB	Final %R
Aluminum	07/16/96	500	475	95	500	485	97
Barium	07/16/96	2.00	1.82	91	2.00	1.84	92
Cadmium	07/16/96	4.00	3.64	91	4.00	3.77	94
Chromium	07/16/96	2.00	1.67	84	2.00	1.72	86
Copper	07/16/96	2.00	1.82	91	2.00	1.86	93
Iron	07/16/96	200	163	82	200	166	83
Manganese	07/16/96	2.00	1.67	83	2.00	1.70	85
Nickel	07/16/96	4.00	3.24	81	4.00	3.38	85
Zinc	07/16/96	4.00	3.53	88	4.00	3.68	92
Calcium	07/16/96	500	446	89	500	459	92
Magnesium	07/16/96	500	456	91	500	464	93

%R control limits = 80 - 120 %.

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METALS SPIKE SAMPLE RECOVERY

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: 2nd Quarterly Sampling
Project Address: Palm Avenue
Palm Well

Report Date: 07/25/96
Lab P.N.: L3548
Client P.N.: 2581-112-T4-SAMP

Matrix: Liquid
Lab Sample ID: L3551-2
Client Sample ID: BP-GW-01900031(K)-071296
Concentration: mg/l

Metal	Date Analyzed	Spike Added	Sample Result	MS Spiked Sample Result	%MS	Method
Aluminum	07/16/96	2.00	0.0968	1.78	84	6010
Arsenic	07/16/96	0.0800	0.000	0.0930	116	7060
Barium	07/16/96	2.00	0.131	1.90	88	6010
Cadmium	07/16/96	2.00	0.000	1.62	81	6010
Chromium	07/16/96	2.00	0.00442	1.71	85	6010
Copper	07/16/96	2.00	0.0139	1.71	85	6010
Iron	07/16/96	2.00	0.195	1.77	79	6010
Lead	07/16/96	0.0240	0.00251	0.0267	101	7421
Manganese	07/16/96	2.00	0.00445	1.72	86	6010
Mercury	07/16/96	0.00200	0.000	0.00205	103	7470
Nickel	07/16/96	2.00	0.00631	1.67	83	6010
Zinc	07/16/96	2.00	0.0699	1.69	81	6010
Calcium	07/16/96	2.00	70.5	71.3	40*	6010
Magnesium	07/16/96	2.00	13.1	14.6	75	6010
Potassium	07/16/96	20.0	3.96	21.5	88	6010
Sodium	07/16/96	2.00	12.7	14.4	85	6010

*Value outside of control limits
Spike Recovery: 1 out of 16 outside limits.

Conc Spk = Concentration of Spike in Sample
%MS = Percent Recovery of MS
Control limits for Spike Samples are 75-125%.

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METALS POST SPIKE SAMPLE RECOVERY

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: 2nd Quarterly Sampling
Project Address: Palm Avenue
Palm Well

Report Date: 07/25/96
Lab P.N.: L3548
Client P.N.: 2581-112-T4-SAMP

Matrix: Liquid
Lab Sample ID: L3551-2
Client Sample ID: BP-GW-01900031(K)-071296
Concentration: mg/l

Metal	Date Analyzed	Spike Added	Sample Result	MS Spiked Sample Result	%MS	Method
Aluminum	07/16/96	5.00	0.0968	5.11	100	6010
Arsenic	07/16/96	0.100	0.000	0.115	115	7060
Barium	07/16/96	5.00	0.131	5.09	99	6010
Cadmium	07/16/96	5.00	0.000	4.97	99	6010
Chromium	07/16/96	5.00	0.00442	5.06	101	6010
Copper	07/16/96	5.00	0.0139	4.90	98	6010
Iron	07/16/96	5.00	0.195	5.21	100	6010
Lead	07/16/96	0.100	0.00251	0.109	106	7421
Manganese	07/16/96	5.00	0.00445	5.07	101	6010
Nickel	07/16/96	5.00	0.00631	5.05	101	6010
Zinc	07/16/96	5.00	0.0699	5.10	101	6010
Calcium	07/16/96	5.00	70.5	84.7	284*	6010
Magnesium	07/16/96	5.00	13.1	19.7	132*	6010
Potassium	07/16/96	50.0	3.96	54.4	101	6010
Sodium	07/16/96	5.00	12.7	18.9	124	6010

* Value outside of QC limits.
Spike Recovery: 2 out of 15 outside limits.

Conc Spk = Concentration of Spike in Sample.
%MS = Percent Recovery of MS.
Control limits for Post Digest Spike Samples are 75-125%.

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METALS DUPLICATES

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: 2nd Quarterly Sampling
Project Address: Palm Avenue
Palm Well

Report Date: 07/25/96
Lab P.N.: L3548
Client P.N.: 2581-112-T4-SAMP

Matrix: Liquid
Lab Sample ID: L3551-2
Client Sample ID: BP-GW-01900031(K)-071296

Concentration Units: mg/l

Metal	Date Analyzed	Sample Result	Duplicate Result	RPD	Method
Barium	07/16/96	0.131	0.136	4	6010
Calcium	07/16/96	70.5	71.5	1	6010
Magnesium	07/16/96	13.1	13.4	2	6010
Potassium	07/16/96	3.96	4.20	6	6010
Sodium	07/16/96	12.7	13.3	5	6010

*Value outside control limits

Control limits equal 0-20% if sample and duplicate concentrations >/= 5x MDL.
If both sample and duplicate concentrations are < MDL, then no control limt exists.

0 out of 5 outside limits

Comments: _____

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METALS LABORATORY CONTROL SAMPLE

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: 2nd Quarterly Sampling
Project Address: Palm Avenue
Palm Well

Report Date: 07/25/96
Lab P.N.: L3548
Client P.N.: 2581-112-T4-SAMP

LCS Source: Inorganic Ventures W1-100 Lot #151, Inorganic Ventures W2-100 ot #W242, Inorganic Ventures CA Lot #J-CA02010, Inorganic Ventures K Lot #J-K01122, Inorganic Ventures Mg Lot #K-Mg02031, & Inorganic Ventures Na Lot #J-NA02013

Concentration: mg/l

Metal	Date Analyzed	LCS True Conc.	Result	%RC	Method
Aluminum	07/16/96	2.00	1.77	89	6010
Arsenic	07/16/96	0.0800	0.0869	109	7060
Barium	07/16/96	2.00	1.80	90	6010
Cadmium	07/16/96	2.00	1.61	81	6010
Chromium	07/16/96	2.00	1.74	87	6010
Copper	07/16/96	2.00	1.75	87	6010
Iron	07/16/96	2.00	1.78	89	6010
Lead	07/16/96	0.0240	0.0253	106	7421
Manganese	07/16/96	2.00	1.74	87	6010
Mercury	07/16/96	0.00200	0.00185	93	7470
Nickel	07/16/96	2.00	1.73	87	6010
Zinc	07/16/96	2.00	1.67	84	6010
Calcium	07/16/96	2.00	2.17	109	6010
Magnesium	07/16/96	2.00	1.98	99	6010
Potassium	07/16/96	20.0	17.4	87	6010
Sodium	07/16/96	2.00	2.10	105	6010

Column used to flag recovery values with an asterisk.
* Value outside of QC limits.
Spike Recovery: 0 out of 16 outside limits.

Control Limits for Laboratory Control Check Sample are 80-120%.

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ICP SERIAL DILUTIONS

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: 2nd Quarterly Sampling
Project Address: Palm Avenue
Palm Well

Report Date: 07/25/96
Lab P.N.: L3548
Client P.N.: 2581-112-T4-SAMP

Matrix: Liquid
Concentration Unit: mg/l
Lab Sample ID: L3551-2
Client Sample ID: BP-GW-01900031(K)-071296

Metal	Date Analyzed	Initial Sample Result	Serial Dilution Result	% DIFF	Method
Barium	07/16/96	0.131	0.140	7	6010
Calcium	07/16/96	70.5	78.7	12	6010
Magnesium	07/16/96	13.1	14.9	14	6010
Potassium	07/16/96	3.96	4.13	4	6010
Sodium	07/16/96	12.7	14.1	11	6010

%DIFF = % Difference
Series dilution (1:4 with blank water) must be performed for each batch of samples using one representative sample.
%DIFF = [(Sample Result - Series Dilution Result)/Sample Result] X 100

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Formerly Terra Tech Labs

LABORATORY REPORT

Client:	CDM, Inc.	Report Date:	7/23/96
Client Address:	18881 Von Karman, Suite 750 Irvine, CA 92715	Lab P.N.:	L3548
		Client P.N.:	2581-112-T4-SAMP
		Lab Cert. #:	1155
Contact:	Suzanne Rowe		
Project Name:	BPOU 2nd. Quarterly Sampling	Date Sampled:	7/10/96
Project Address:	Palm Avenue Palm Well	Date Received:	7/10/96
		Date Analyzed:	7/12/96-7/16/96
		Physical State:	Liquid

Quality Assurance/Quality Control Summary

Parameter (Method)	QC Type	Percent Recovery	Duplicate Percent Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
Alkalinity (EPA 310.1)	M	96	-	80-120	-	-
Alkalinity (EPA 310.1)	L	98	-	80-120	-	-
Chloride (EPA 300.0)	M	145*	148*	80-120	3	0-20
Nitrate-N (EPA 300.0)	M	97	96	80-120	1	0-20
Nitrite-N (EPA 300.0)	M	93	95	80-120	2	0-20
Sulfate (EPA 300.0)	M	87	87	80-120	0	0-20
Chloride (EPA 300.0)	L	98	95	80-120	3	0-20
Nitrate-N (EPA 300.0)	L	92	93	80-120	1	0-20
Nitrite-N (EPA 300.0)	L	96	92	80-120	4	0-20
Sulfate (EPA 300.0)	L	98	97	80-120	1	0-20

*MS/MSD were not within acceptable QC limits due to possible matrix interferences; LCS was within acceptable limits.

M = Matrix Spike / Matrix Spike Duplicate

L = Laboratory Control Sample Spike / Spike Duplicate

Reviewed

Approved

The samples were received by Thermo Analytical in a chilled state, intact and accompanied by the Chain-of-Custody Record.
Acceptance of samples by Thermo Analytical is not an indication of condition upon receipt.
Laboratory Results apply only to the sample matrix analyzed and may not apply to an apparently identical or similar sample.
The Laboratory Report is the property of the client to whom it is addressed.
The Laboratory Results are only a portion of the Laboratory Report.

LABORATORY RESULTS

Client:	CDM, Inc.	Report Date:	7/23/96
Client Address:	18881 Von Karman, Suite 750 Irvine, CA 92715	Lab P.N.:	L3548
		Client P.N.:	2581-112-T4-SAMP
Project Name:	BPOU 2nd. Quarterly Sampling	Date Sampled:	7/10/96
Project Address:	Palm Avenue Palm Well	Date Analyzed:	7/16/96
		Physical State:	Liquid

Client Sample ID	Alkalinity Bicarbonate EPA 310.1 mg/l	Alkalinity Carbonate EPA 310.1 mg/l	Total Dissolved Solids EPA 160.1 mg/l	Total Suspended Solids EPA 160.2 mg/l
BP-GW-08000039-071096	150	ND	250	ND
Method Blank	ND	ND	ND	ND
Quantitation Limits mg/l	1.0	1.0	12	10

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

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LABORATORY RESULTS

Client:	CDM, Inc.	Report Date:	7/23/96
Client Address:	18881 Von Karman, Suite 750	Lab P.N.:	L3548
	Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
Project Name:	BPOU 2nd. Quarterly Sampling	Date Sampled:	7/10/96
Project Address:	Palm Avenue	Date Analyzed:	7/12/96-7/16/96
	Palm Well	Physical State:	Liquid

Client Sample ID	Sulfate EPA 300.0 mg/l	Nitrite-N EPA 300.0 mg/l	Nitrate-N EPA 300.0 mg/l	Hardness EPA 130.2 mg/l
BP-GW-08000039-071096	30	ND	2.3	240
Method Blank	ND	ND	ND	ND
Quantitation Limits mg/l	1.0	0.25	0.25	1.0

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

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LABORATORY RESULTS

Client:	CDM, Inc.	Report Date:	7/23/96
Client Address:	18881 Von Karman, Suite 750 Irvine, CA 92715	Lab P.N.:	L3548
		Client P.N.:	2581-112-T4-SAMP
Project Name:	BPOU 2nd. Quarterly Sampling	Date Sampled:	7/10/96
Project Address:	Palm Avenue Palm Well	Date Analyzed:	7/16/96
		Physical State:	Liquid

Client Sample ID	Chloride EPA 300.0 mg/l	Quantitation Limits mg/l
BP-GW-08000039-071096	14	0.50
Method Blank	ND	0.25

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

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REPORT

TRUESDAIL LABORATORIES, INC.

CHEMISTS · MICROBIOLOGISTS · ENGINEERS
RESEARCH · DEVELOPMENT · TESTING
ESTABLISHED 1931

14201 FRANKLIN AVENUE
TUSTIN, CALIF. 92680
(714) 730-6239
FAX (714) 730-6462

CLIENT: Thermo Analytical
1920 E. Deere Ave.
Santa Ana, CA 92705
Attention: Dany Swanto

DATE: 7/18/96

RECEIVED: 7/11/96

LABORATORY NO. 91887

SAMPLE: Water/1

INVESTIGATION: Analysis for Radon in water by Liquid Scintillation

RESULTS

Sample I.D.	Rn-222 pCi/L	Two Sigma Error
BP-GW-08000039-071096	217	+/- 17

Date Analyzed: 7/11/96

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Angela Burke

Angela Burke, Project Manager
Water and Waste Laboratory

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising of publicity matter without prior written authorization from these Laboratories.

CHAIN-OF-CUSTODY RECORD

3282

Client: CDM

Date: 7/10/96

Project Name / #: 2nd Quaterly Sampling

Project Address: Palm Avenue

Palm Well

P.O.#: 258+ T12-T4-SAMP

Quote #:

Project Contact (please print): Suzanne Rowe / B. Wells

State where samples were collected:

Page 1 of 1

Lab Use Only
Lab Job # L3548
C.O. #
C.O. #
C.O. #
C.O. #
Sample Condition Upon Receipt:
Chilled X yes no
Sealed yes X no

Analysis Requested All analyses and deliverables must be identified

Sample Identification	Date Collected	Time Collected	Grab	Comp.	Lab Sample Number	Physical State: Solid (S), Liquid (L), Vapor (V)	Preservation: Iced (I), Filtered (F), Preservative (P)	VOC's - 8021	Radon Draft 913	*Metals (Al, As, Ba, Ca, Cr, Cu, Fe, Pb, Mn, Ni, Zn, Hg) - 6010/7000	*Cations (Ca, Mg, K, Na) - 6010	TDS-TSS 160.1/160.2 / Hardness 2340.0	Anions (Cl, SO4) (NO3, NO2) 300.0	Alkalinity (CO3, HCO3) - 2320	Total Number of Containers	Remarks	Temp of Sample Upon Receipt (if requested)
BP-GW-08000039-071096	7/10/96	14:40	X		L3548-1	L		X	X				X		3	3-40ml VOA's w/HCl	
			X			L			X						1	250 Amber	
			X			L							X		1	250 Poly	
			X			L				X	X				1	1L Poly (Filter)	
~~BP-GW-08000039(F)-071096~~	~~7/10/96~~	~~14:40~~	~~X~~			~~L~~		~~X~~				X		X	1	1L Poly (Not filtered)	
BP-GW-08000039(F)-071096	7/10/96	14:45	X		L3548-2	L		X							2	40ml VOA's w/HCl	
															9	Total Number of Containers	

Method of Shipment

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to TMA approval and surcharge)

Date Results are Needed:

Rush Results requested by (please circle): Phone Fax

Phone #:

Fax #:

Data Package Options (please circle if requested)

QC Summary
Type I Type V
Type II Type VI
Type III Type VII
Type IV Other

Site Specific QC Required?: YES NO
(if yes, indicate QC sample and submit triplicate volume)

SDG Complete?: YES NO

❶ Relinquished by (signature)*	❷ Received by (signature)	Date
Shannon Sam Turnbull	[signature]	7/10/96
Company: CDM	Company: YMA	Time: 16:35
❸ Relinquished by (signature)*	❹ Received by Laboratory (signature)	Date
Company	Laboratory Name	Time

Special Instructions: CLP TYPE PAPERWORK * FILTER AT LAB ASAP - 0.45mm filter

*See Terms And Conditions on reverse **before** signing

☐ 300 Second Avenue, Waltham, MA 02254 (617) 890-7200, Fax (617) 890-3883

☐ 603 South Main Street, New Ellenton, SC 29809 (803) 652-3324, Fax (803) 652-7995

☑ 1920 E. Deere Avenue, Santa Ana, CA 92705 (714) 757-7022, Fax (714) 757-7274

☐ 387 Airport Industrial Drive, Ypsilanti, MI 48198 (313) 480-2500, Fax (313) 480-2295

TMA Thermo Analytical

000028

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34 1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274
Formerly Terra Tech Labs

August 9, 1996

Ms. Suzanne Rowe
Camp Dresser & McKee
18881 Von Karman, Suite 650
Irvine, CA 92715

RE: CLP-Like Deliverables Case Narrative for Project Number 2581-112-T4-SAMP/L3551
Dear Ms. Rowe:

Listed below is additional information to clarify special circumstances that were encountered during the analysis of the above referenced project. This letter should be forwarded to the appropriate agency along with the deliverables package enclosed.

The water samples received on 07/12/96 were analyzed by Thermo Analytical for Volatile Organic Compounds (VOC's) by EPA Method 8021, Metals by EPA 6000/7000 and various Wet Chemistry parameters.

The EPA Method 8021 samples taken on 07/12/96 were analyzed 07/13/96-07/26/96 which is within the allowable method holding time. The samples and associated quality control samples may have been analyzed during the evening shift via auto-samplers both before and after midnight. The dates reported on the forms will then include one date for the samples run before midnight and a different date for the samples run after midnight. All of the samples are considered to have been run in one batch, and will have one set of quality control data.

The 07/12/96 initial calibration had several compounds with percent RSDs outside the acceptable QC limits. The 07/12/96 and 07/13/96 continuing calibrations had several compounds with percent differences outside the acceptable QC limits. The instrument was recalibrated with similar results. Instrument maintenance was completed and an initial calibration performed on 07/24/96 for the brominated compounds only. All compounds with %RSD on the initial calibration were not detected during sample analyses.

The Metals were analyzed 07/16/96. The matrix spike percent recovery for Calcium was outside the acceptableQC limits due to the high concentration found in the native sample. The post spike sample percent recoveries for Calcium and Magnesium were outside the acceptable QC limits due to the high concentrations found in the native sample.

Target compounds which were analyzed for but not detected in the samples were flagged with a "U" on the sample data forms. If a "U" flag was used, the method detection limit (MDL) for that compound was inserted in the corresponding concentration column. A "B" flag was used for compounds which had detectable levels present in the associated method blank.

Sincerely,

John R Dudek

John Dudek
General Manager

Enclosure

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/31/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	07/12/96
Project Name:	Baldwin Park OU	Date Received:	07/12/96
Project Address:	2nd Quarter Sampling	Date Analyzed:	07/13/96
	Paddy Lane St.	Time Analyzed:	06:13
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900031-071296	Lab Sample ID:	L3551-1

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	6.2	
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.62	
75-35-4	1,1-Dichloroethene	5.2	
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.18	
75-34-3	1,1-Dichloroethane	3.2	
156-59-4	cis-1,2-Dichloroethene	15	
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	5.7	
71-55-6	1,1,1-Trichloroethane	0.79	
56-23-5	Carbon tetrachloride	4.0	
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	3.8	
79-01-6	Trichloroethene	130	D
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	19	
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

D = Dilution factor = 10 (analyzed 07/26/96)
U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/31/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	07/12/96
Project Name:	Baldwin Park OU	Date Received:	07/12/96
Project Address:	2nd Quarter Sampling	Date Analyzed:	07/13/96
	Paddy Lane St.	Time Analyzed:	06:13
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900031-071296	Lab Sample ID:	L3551-1

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.18	
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.18	
100-42-5	Styrene	0.14	
98-82-8	Isopropylbenzene	0.17	
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.13	
98-06-6	tert-Butylbenzene	0.30	
95-63-6	1,2,4-Trimethylbenzene	0.18	
135-98-8	sec-Butylbenzene	0.16	
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.12	
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
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EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/31/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	07/12/96
Project Name:	Baldwin Park OU	Date Received:	07/12/96
Project Address:	2nd Quarter Sampling	Date Analyzed:	07/13/96
	Paddy Lane St.	Time Analyzed:	06:54
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900031(K)-071296	Lab Sample ID:	L3551-2

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	6.2	
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.51	
75-35-4	1,1-Dichloroethene	5.5	
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.20	
75-34-3	1,1-Dichloroethane	3.2	
156-59-4	cis-1,2-Dichloroethene	16	
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	5.8	
71-55-6	1,1,1-Trichloroethane	0.49	
56-23-5	Carbon tetrachloride	3.9	
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	4.0	
79-01-6	Trichloroethene	120	D
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	19	
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

D = Dilution factor = 10 (analyzed 07/26/96)
U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/31/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	07/12/96
Project Name:	Baldwin Park OU	Date Received:	07/12/96
Project Address:	2nd Quarter Sampling	Date Analyzed:	07/13/96
	Paddy Lane St.	Time Analyzed:	06:54
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900031(K)-071296	Lab Sample ID:	L3551-2

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.16	
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	
100-42-5	Styrene	0.11	
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.13	
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.17	
135-98-8	sec-Butylbenzene	0.13	
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.16	
91-20-3	Naphthalene	0.93	
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/31/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	07/12/96
Project Name:	Baldwin Park OU	Date Received:	07/12/96
Project Address:	2nd Quarter Sampling	Date Analyzed:	07/13/96
	Paddy Lane St.	Time Analyzed:	07:36
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900031(F)-071296	Lab Sample ID:	L3551-3

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/31/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	07/12/96
Project Name:	Baldwin Park OU	Date Received:	07/12/96
Project Address:	2nd Quarter Sampling	Date Analyzed:	07/13/96
	Paddy Lane St.	Time Analyzed:	07:36
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	BP-GW-01900031(F)-071296	Lab Sample ID:	L3551-3

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.16	
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/31/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Quarter Sampling	Date Analyzed:	07/13/96
	Paddy Lane St.	Time Analyzed:	00:02
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/13 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/31/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Quarter Sampling	Date Analyzed:	07/13/96
	Paddy Lane St.	Time Analyzed:	00:02
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/13 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/31/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Quarter Sampling	Date Analyzed:	07/26/96
	Paddy Lane St.	Time Analyzed:	01:58
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/26 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
75-71-8	Dichlorodifluoromethane	0.40	U
74-87-3	Chloromethane	0.37	U
75-01-4	Vinyl chloride	0.20	U
74-83-9	Bromomethane	0.27	U
75-00-3	Chloroethane	0.24	U
75-69-4	Trichlorofluoromethane	0.32	U
75-35-4	1,1-Dichloroethene	0.21	U
75-09-2	Methylene chloride	0.29	U
156-60-5	trans-1,2-Dichloroethene	0.17	U
75-34-3	1,1-Dichloroethane	0.19	U
156-59-4	cis-1,2-Dichloroethene	0.17	U
590-20-7	2,2-Dichloropropane	0.19	U
74-97-5	Bromochloromethane	0.19	U
67-66-3	Chloroform	0.24	U
71-55-6	1,1,1-Trichloroethane	0.26	U
56-23-5	Carbon tetrachloride	0.28	U
563-58-6	1,1-Dichloropropene	0.48	U
107-06-2	1,2-Dichloroethane	0.22	U
79-01-6	Trichloroethene	0.21	U
78-87-5	1,2-Dichloropropane	0.24	U
74-95-3	Dibromomethane	0.17	U
75-27-4	Bromodichloromethane	0.28	U
110-75-8	2-Chloroethyl vinyl ether	0.48	U
10061-01-5	cis-1,3-Dichloropropene	0.38	U
10061-02-6	trans-1,3-Dichloropropene	0.36	U
79-00-5	1,1,2-Trichloroethane	0.27	U
127-18-4	Tetrachloroethene	0.29	U
142-28-9	1,3-Dichloropropane	0.26	U
124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.23	U
108-90-7	Chlorobenzene	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U
75-25-2	Bromoform	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.41	U
96-18-4	1,2,3-Trichloropropane	0.41	U
95-49-8	2-Chlorotoluene	0.18	U
106-43-4	4-Chlorotoluene	0.40	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Data Sheet

Lab:	Thermo Analytical	Report Date:	07/31/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650	Client P.N.:	2581-112-T4-SAMP
	Irvine, CA 92715	Date Sampled:	N/A
Project Name:	Baldwin Park OU	Date Received:	N/A
Project Address:	2nd Quarter Sampling	Date Analyzed:	07/26/96
	Paddy Lane St.	Time Analyzed:	01:58
Matrix:	Liquid	Dilution Factor:	1.0
Sample Amount:	5 ml	GC ID:	OC
GC Column 1:	DB-VRX, 75m, 0.45 mmID		
Client Sample ID:	Method Blank	Lab Sample ID:	07/26 Method Blank

CAS NO.	COMPOUND	CONC. (µg/L)	Q
541-73-1	1,3-Dichlorobenzene	0.18	U
106-46-7	1,4-Dichlorobenzene	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	0.47	U
120-82-1	1,2,4-Trichlorobenzene	0.32	U
87-68-3	Hexachlorobutadiene	0.35	U
87-61-6	1,2,3-Trichlorobenzene	0.42	U
71-43-2	Benzene	0.090	U
108-88-3	Toluene	0.13	U
100-41-4	Ethylbenzene	0.16	U
106-42-3/108-38-3	p,m-Xylenes	0.35	U
95-47-6	o-Xylene	0.11	U
100-42-5	Styrene	0.11	U
98-82-8	Isopropylbenzene	0.090	U
108-86-1	Bromobenzene	0.13	U
103-65-1	Propylbenzene	0.56	U
108-67-8	1,3,5-Trimethylbenzene	0.11	U
98-06-6	tert-Butylbenzene	0.15	U
95-63-6	1,2,4-Trimethylbenzene	0.11	U
135-98-8	sec-Butylbenzene	0.11	U
99-87-6	4-Isopropyltoluene	0.18	U
104-51-8	n-Butylbenzene	0.11	U
91-20-3	Naphthalene	0.37	U
75-15-0	Carbon disulfide	0.17	U
1634-04-4	MTBE	0.15	U

U = Compound analyzed for but not detected.
B = Analyte detected in the associated method blank.

TMA
Thermo Analytical

EPA 8021 Surrogate Recovery

Lab:	Thermo Analytical	Report Date:	07/31/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/12/96-07/13/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Quarter Sampling Paddy Lane St.		
Matrix:	Liquid		
GC Column 1:	DB-VRX, 75m, 0.45 mmID	GC ID:	OC

LAB SAMPLE NUMBER	% REC S 1 #	% REC S 2 #	% REC S 3 #
CCV	102	115	102
CCV	94	96	96
Method Blank	105	103	102
L3551-1	101	104	98
L3551-2	98	105	101
L3551-3	106	107	107
LCS	96	101	94
MS	89	104	95
MSD	91	94	93
QC Limits:	75-125	75-125	75-125

S 1 = 2-Chloropropane
S 2 = 1,4-Dichlorobutane
S 3 = aaa-Trifluorotoluene

Column used to flag recovery values with an asterisk.

* Value outside of QC limits.

TMA
Thermo Analytical

EPA 8021 Surrogate Recovery

Lab:	Thermo Analytical	Report Date:	07/31/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/26/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Quarter Sampling Paddy Lane St.		
Matrix:	Liquid		
GC Column 1:	DB-VRX, 75m, 0.45 mmID	GC ID:	OC

LAB SAMPLE NUMBER	% REC S 1 #	% REC S 2 #	% REC S 3 #
CCV	112	113	103
CCV	95	109	94
CCV	100	103	98
Method Blank	110	98	100
L3551-1	92	86	86
L3551-2	94	89	92
L3551-3	107	93	99
LCS	97	112	87
MS	67*	103	71*
MSD	83	97	88
QC Limits:	75-125	75-125	75-125

S 1 = 2-Chloropropane
S 2 = 1,4-Dichlorobutane
S 3 = aaa-Trifluorotoluene

Column used to flag recovery values with an asterisk.

* Value outside of QC limits.

TMA
Thermo Analytical

EPA 8021 Matrix Spike/Matrix Spike Duplicate Recovery

Lab:	Thermo Analytical	Report Date:	07/31/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/13/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Quarter Sampling Paddy Lane St.		
Matrix:	Liquid		
Client Sample ID:	BP-GW-01900031(F)-071296	Lab Sample ID:	L3551-3

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONC. (µg/L)	MS CONC. (µg/L)	MS % REC. #	QC LIMITS REC.
Benzene	10.0	0	9.44	94	74-121
Toluene	10.0	0.16	9.35	92	72-121
Ethylbenzene	10.0	0	9.09	91	72-117
o-Xylene	10.0	0	9.41	94	66-124
1,1-Dichloroethane	10.0	0	9.89	99	73-121
1,1,1-Trichloroethane	10.0	0	10.1	101	72-126
cis-1,3-Dichloropropene	10.0	0	9.81	98	58-124
Chlorobenzene	10.0	0	8.79	88	52-131

COMPOUND	SPIKE ADDED (µg/L)	MSD CONC. (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	10.0	9.43	94	0	0-10	74-121
Toluene	10.0	9.16	90	2	0-16	72-121
Ethylbenzene	10.0	9.09	91	0	0-14	72-117
o-Xylene	10.0	9.12	91	3	0-14	66-124
1,1-Dichloroethane	10.0	9.83	98	1	0-18	73-121
1,1,1-Trichloroethane	10.0	10.1	101	0	0-15	72-126
cis-1,3-Dichloropropene	10.0	9.41	94	4	0-22	58-124
Chlorobenzene	10.0	8.25	83	6	0-42	52-131

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

RPD: 0 out of 8 outside limits.
Spike Recovery: 0 out of 16 outside limits.

TMA
Thermo Analytical

EPA 8021 Matrix Spike/Matrix Spike Duplicate Recovery

Lab:	Thermo Analytical	Report Date:	07/31/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/26/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Quarter Sampling Paddy Lane St.		
Matrix:	Liquid		
Client Sample ID:	N/A	Lab Sample ID:	L3577-1

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONC. (µg/L)	MS CONC. (µg/L)	MS % REC. #	QC LIMITS REC.
Benzene	10.0	0	9.37	94	74-121
Toluene	10.0	0	9.74	97	72-121
Ethylbenzene	10.0	0	9.68	97	72-117
o-Xylene	10.0	0	9.81	98	66-124
1,1-Dichloroethane	10.0	0	10.9	109	73-121
1,1,1-Trichloroethane	10.0	0	10.7	107	72-126
cis-1,3-Dichloropropene	10.0	0	9.99	100	58-124
Chlorobenzene	10.0	0	10.4	104	52-131

COMPOUND	SPIKE ADDED (µg/L)	MSD CONC. (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	10.0	9.44	94	0	0-10	74-121
Toluene	10.0	9.69	97	0	0-16	72-121
Ethylbenzene	10.0	9.79	98	1	0-14	72-117
o-Xylene	10.0	9.91	99	1	0-14	66-124
1,1-Dichloroethane	10.0	10.4	104	5	0-18	73-121
1,1,1-Trichloroethane	10.0	10.4	104	3	0-15	72-126
cis-1,3-Dichloropropene	10.0	9.77	98	2	0-22	58-124
Chlorobenzene	10.0	10.4	104	0	0-42	52-131

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

RPD: 0 out of 8 outside limits.
Spike Recovery: 0 out of 16 outside limits.

TMA
Thermo Analytical

EPA 8021 Laboratory Control Sample Recovery

Lab:	Thermo Analytical	Report Date:	07/31/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/13/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Quarter Sampling Paddy Lane St.		

Matrix: Liquid
LCS Source: Ultra Scientific
Lab Sample ID: LCS

COMPOUND	SPIKE ADDED (µg/L)	LCS CONC. (µg/L)	LCS % REC. #	QC LIMITS REC.
Benzene	10.0	10.1	101	75-125
Toluene	10.0	9.91	99	75-125
Ethylbenzene	10.0	9.74	97	75-125
o-Xylene	10.0	9.90	99	75-125
1,1-Dichloroethane	10.0	10.4	104	75-125
1,1,1-Trichloroethane	10.0	10.8	108	75-125
cis-1,3-Dichloropropene	10.0	10.2	102	75-125
Chlorobenzene	10.0	9.19	92	75-125

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

Spike Recovery: 0 out of 8 outside limits.

Comments:

TMA
Thermo Analytical

EPA 8021 Laboratory Control Sample Recovery

Lab:	Thermo Analytical	Report Date:	07/31/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Date Analyzed:	07/26/96
Project Name:	Baldwin Park OU		
Project Address:	2nd Quarter Sampling Paddy Lane St.		

Matrix: Liquid
LCS Source: Ultra Scientific
Lab Sample ID: LCS

COMPOUND	SPIKE ADDED (µg/L)	LCS CONC. (µg/L)	LCS % REC. #	QC LIMITS REC.
Benzene	10.0	8.84	88	75-125
Toluene	10.0	9.00	90	75-125
Ethylbenzene	10.0	9.02	90	75-125
o-Xylene	10.0	9.15	92	75-125
1,1-Dichloroethane	10.0	10.6	106	75-125
1,1,1-Trichloroethane	10.0	10.4	104	75-125
cis-1,3-Dichloropropene	10.0	9.78	98	75-125
Chlorobenzene	10.0	10.3	103	75-125

Column to be used to flag recovery and RPD values with an asterisk.

* Value outside of QC limits.

Spike Recovery: 0 out of 8 outside limits.

Comments:

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical
GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/31/96
Lab P.N.: L3551
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 07/12/96
Daily Calibration Date: 07/12/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	49131	6	49470	1
Chloromethane	57465	25*	39932	31*
Vinyl chloride	65313	13	70453	8
Bromomethane	26752	22*	33217	24*
Chloroethane	72982	5	75946	4
Trichlorofluoromethane	100461	6	104837	4
1,1-Dichloroethene	95601	7	102009	7
Methylene chloride	124450	6	123160	1
trans-1,2-Dichloroethene	97541	9	105913	9
1,1-Dichloroethane	103192	4	106785	3
cis-1,2-Dichloroethene	100973	8	109906	9
2,2-Dichloropropane	91602	6	91740	0
Bromochloromethane	56176	23*	66731	19*
Chloroform	132179	5	140845	7
1,1,1-Trichloroethane	115298	10	129127	12
Carbon tetrachloride	124739	14	142581	14
1,1-Dichloropropene	43686	7	47747	9
1,2-Dichloroethane	97522	5	103382	6
Trichloroethene	126731	8	139058	10
1,2-Dichloropropane	97758	5	103453	6
Dibromomethane	31939	49*	38051	19*
Bromodichloromethane	81931	20	102798	25*
2-Chloroethyl vinyl ether	43686	7	47747	9
cis-1,3-Dichloropropene	79582	11	91631	15
trans-1,3-Dichloropropene	73170	10	83708	14
1,1,2-Trichloroethane	103658	7	113336	9
Tetrachloroethene	126327	10	135268	7
1,3-Dichloropropane	81554	7	88106	8
Dibromochloromethane	39471	55*	59623	51*
1,2-Dibromoethane	29191	57*	46639	60*
Chlorobenzene	56927	13	57526	1
1,1,1,2-Tetrachloroethane	107226	10	121041	13
Bromoform	29072	62*	37746	30*
1,1,2,2-Tetrachloroethane	78010	8	70657	9
1,2,3-Trichloropropane	63096	6	67138	6
2-Chlorotoluene	41996	6	43281	3
4-Chlorotoluene	42935	7	44209	3
1,3-Dichlorobenzene	68698	7	71574	4
1,4-Dichlorobenzene	73297	9	74251	1
1,2-Dichlorobenzene	70164	8	71519	2

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/31/96
Lab P.N.: L3551
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 07/12/96
Daily Calibration Date: 07/12/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	10504	52*	13465	28*
1,2,4-Trichlorobenzene	78461	8	81827	4
Hexachlorobutadiene	115217	9	117199	2
1,2,3-Trichlorobenzene	79782	8	82547	3
Benzene	15100	4	15861	5
Toluene	14234	2	14721	3
Ethylbenzene	13137	5	13386	2
p,m-Xylenes	14917	3	15597	5
o-Xylene	12860	2	13303	3
Styrene	16854	4	17305	3
Isopropylbenzene	9717	2	10068	4
Bromobenzene	15686	5	16097	3
Propylbenzene	12721	4	13512	6
1,3,5-Trimethylbenzene	18085	6	18396	2
tert-Butylbenzene	10181	13	10479	3
1,2,4-Trimethylbenzene	13570	4	13986	3
sec-Butylbenzene	10872	4	11203	3
4-Isopropyltoluene	10356	6	10685	3
n-Butylbenzene	11545	6	11758	2
Naphthalene	10564	6	12034	14
Carbon disulfide	1678	11	1661	1
MTBE	7346	7	7470	2

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical
GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/31/96
Lab P.N.: L3551
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 07/12/96
Daily Calibration Date: 07/13/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	49131	6	40226	18*
Chloromethane	57465	25*	18959	67*
Vinyl chloride	65313	13	65940	1
Bromomethane	26752	22*	28750	7
Chloroethane	72982	5	59448	19*
Trichlorofluoromethane	100461	6	100318	0
1,1-Dichloroethene	95601	7	102896	8
Methylene chloride	124450	6	118675	5
trans-1,2-Dichloroethene	97541	9	100510	3
1,1-Dichloroethane	103192	4	99874	3
cis-1,2-Dichloroethene	100973	8	102442	1
2,2-Dichloropropane	91602	6	42950	53*
Bromochloromethane	56176	23*	64390	15
Chloroform	132179	5	131352	1
1,1,1-Trichloroethane	115298	10	110991	4
Carbon tetrachloride	124739	14	129164	4
1,1-Dichloropropene	43686	7	43013	2
1,2-Dichloroethane	97522	5	91336	6
Trichloroethene	126731	8	139918	10
1,2-Dichloropropane	97758	5	92108	6
Dibromomethane	31939	49*	38170	20*
Bromodichloromethane	81931	20	93129	14
2-Chloroethyl vinyl ether	43686	7	43013	2
cis-1,3-Dichloropropene	79582	11	74698	6
trans-1,3-Dichloropropene	73170	10	63151	14
1,1,2-Trichloroethane	103658	7	98785	5
Tetrachloroethene	126327	10	115437	9
1,3-Dichloropropane	81554	7	76705	6
Dibromochloromethane	39471	55*	54863	39*
1,2-Dibromoethane	29191	57*	38492	32*
Chlorobenzene	56927	13	47645	16*
1,1,1,2-Tetrachloroethane	107226	10	106510	1
Bromoform	29072	62*	35423	22*
1,1,2,2-Tetrachloroethane	78010	8	54082	31*
1,2,3-Trichloropropane	63096	6	59738	5
2-Chlorotoluene	41996	6	37706	10
4-Chlorotoluene	42935	7	38694	10
1,3-Dichlorobenzene	68698	7	63375	8
1,4-Dichlorobenzene	73297	9	66028	10
1,2-Dichlorobenzene	70164	8	63724	9

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/31/96

Lab P.N.: L3551

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 07/12/96

Daily Calibration Date: 07/13/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	10504	52*	11477	9
1,2,4-Trichlorobenzene	78461	8	67720	14
Hexachlorobutadiene	115217	9	107989	6
1,2,3-Trichlorobenzene	79782	8	70545	12
Benzene	15100	4	14101	7
Toluene	14234	2	13136	8
Ethylbenzene	13137	5	11775	10
p,m-Xylenes	14917	3	13622	9
o-Xylene	12860	2	11754	9
Styrene	16854	4	15086	10
Isopropylbenzene	9717	2	8884	9
Bromobenzene	15686	5	14599	7
Propylbenzene	12721	4	11563	9
1,3,5-Trimethylbenzene	18085	6	15951	12
tert-Butylbenzene	10181	13	9335	8
1,2,4-Trimethylbenzene	13570	4	11977	12
sec-Butylbenzene	10872	4	9651	11
4-Isopropyltoluene	10356	6	9134	12
n-Butylbenzene	11545	6	9512	18*
Naphthalene	10564	6	9427	11
Carbon disulfide	1678	11	1633	3
MTBE	7346	7	7149	3

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/31/96

Lab P.N.: L3551

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 07/25/96

Daily Calibration Date: 07/26/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	39473	19	35853	9
Chloromethane	37786	15	40220	6
Vinyl chloride	58708	8	54209	8
Bromomethane	18445	51*	19706	7
Chloroethane	61112	19	56130	8
Trichlorofluoromethane	92372	16	91607	1
1,1-Dichloroethene	96716	15	97890	1
Methylene chloride	113314	16	114623	1
trans-1,2-Dichloroethene	100764	15	102694	2
1,1-Dichloroethane	99947	18	103665	4
cis-1,2-Dichloroethene	104743	16	106161	1
2,2-Dichloropropane	83329	17	83873	1
Bromochloromethane	74085	10	70225	5
Chloroform	138238	14	139173	1
1,1,1-Trichloroethane	119587	16	124385	4
Carbon tetrachloride	135028	16	139865	4
1,1-Dichloropropene	42010	18	44156	5
1,2-Dichloroethane	97844	17	98451	1
Trichloroethene	140112	16	136567	3
1,2-Dichloropropane	97831	17	99404	2
Dibromomethane	46399	17	43546	6
Bromodichloromethane	96334	17	100871	5
2-Chloroethyl vinyl ether	42010	18	44156	5
cis-1,3-Dichloropropene	86928	16	86039	1
trans-1,3-Dichloropropene	79199	16	77784	2
1,1,2-Trichloroethane	102818	16	101858	1
Tetrachloroethene	133545	13	131647	1
1,3-Dichloropropane	81408	16	81726	0
Dibromochloromethane	64186	12	63431	1
1,2-Dibromoethane	39584	16	37614	5
Chlorobenzene	50614	17	51751	2
1,1,1,2-Tetrachloroethane	130917	15	127405	3
Bromoform	39823	16	38299	4
1,1,2,2-Tetrachloroethane	68687	16	64790	6
1,2,3-Trichloropropane	53646	19	54885	2
2-Chlorotoluene	41108	16	42432	3
4-Chlorotoluene	42161	18	43830	4
1,3-Dichlorobenzene	71371	13	72587	2
1,4-Dichlorobenzene	76744	15	75594	1
1,2-Dichlorobenzene	72259	13	71743	1

(a) Control limits = 0 - 20 %

(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/31/96

Lab P.N.: L3551

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 07/25/96

Daily Calibration Date: 07/26/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	14776	18	13966	5
1,2,4-Trichlorobenzene	77159	12	68896	11
Hexachlorobutadiene	114046	9	113425	1
1,2,3-Trichlorobenzene	74457	14	66687	10
Benzene				
Toluene				
Ethylbenzene				
p,m-Xylenes				
o-Xylene				
Styrene				
Isopropylbenzene				
Bromobenzene				
Propylbenzene				
1,3,5-Trimethylbenzene				
tert-Butylbenzene				
1,2,4-Trimethylbenzene				
sec-Butylbenzene				
4-Isopropyltoluene				
n-Butylbenzene				
Naphthalene				
Carbon disulfide				
MTBE				

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

0900020C

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/31/96

Lab P.N.: L3551

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 07/25/96

Daily Calibration Date: 07/26/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	39473	19	37516	5
Chloromethane	37786	15	46565	23*
Vinyl chloride	58708	8	56525	4
Bromomethane	18445	51*	21691	18*
Chloroethane	61112	19	57580	6
Trichlorofluoromethane	92372	16	95187	3
1,1-Dichloroethene	96716	15	98772	2
Methylene chloride	113314	16	118705	5
trans-1,2-Dichloroethene	100764	15	101272	1
1,1-Dichloroethane	99947	18	104447	5
cis-1,2-Dichloroethene	104743	16	105417	1
2,2-Dichloropropane	83329	17	72844	13
Bromochloromethane	74085	10	71474	4
Chloroform	138238	14	140185	1
1,1,1-Trichloroethane	119587	16	121671	2
Carbon tetrachloride	135028	16	133594	1
1,1-Dichloropropene	42010	18	41922	0
1,2-Dichloroethane	97844	17	100168	2
Trichloroethene	140112	16	139751	0
1,2-Dichloropropane	97831	17	97526	0
Dibromomethane	46399	17	45042	3
Bromodichloromethane	96334	17	98162	2
2-Chloroethyl vinyl ether	42010	18	41922	0
cis-1,3-Dichloropropene	86928	16	85034	2
trans-1,3-Dichloropropene	79199	16	77311	2
1,1,2-Trichloroethane	102818	16	106029	3
Tetrachloroethene	133545	13	130243	2
1,3-Dichloropropane	81408	16	84786	4
Dibromochloromethane	64186	12	65414	2
1,2-Dibromoethane	39584	16	38701	2
Chlorobenzene	50614	17	52651	4
1,1,1,2-Tetrachloroethane	130917	15	130502	0
Bromoform	39823	16	40062	1
1,1,2,2-Tetrachloroethane	68687	16	71253	4
1,2,3-Trichloropropane	53646	19	58819	10
2-Chlorotoluene	41108	16	41715	1
4-Chlorotoluene	42161	18	43006	2
1,3-Dichlorobenzene	71371	13	71734	1
1,4-Dichlorobenzene	76744	15	75818	1
1,2-Dichlorobenzene	72259	13	72603	0

(a) Control limits = 0 - 20 %

(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/31/96

Lab P.N.: L3551

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 07/25/96

Daily Calibration Date: 07/26/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	14776	18	14968	1
1,2,4-Trichlorobenzene	77159	12	78304	1
Hexachlorobutadiene	114046	9	118774	4
1,2,3-Trichlorobenzene	74457	14	77319	4
Benzene				
Toluene				
Ethylbenzene				
p,m-Xylenes				
o-Xylene				
Styrene				
Isopropylbenzene				
Bromobenzene				
Propylbenzene				
1,3,5-Trimethylbenzene				
tert-Butylbenzene				
1,2,4-Trimethylbenzene				
sec-Butylbenzene				
4-Isopropyltoluene				
n-Butylbenzene				
Naphthalene				
Carbon disulfide				
MTBE				

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID

Instrument ID: OC

Report Date: 07/31/96

Lab P.N.: L3551

Client P.N.: 2581-112-T4-SAMP

Initial Calibration Date: 07/25/96

Daily Calibration Date: 07/26/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
Dichlorodifluoromethane	39473	19	38418	3
Chloromethane	37786	15	45306	20*
Vinyl chloride	58708	8	57476	2
Bromomethane	18445	51*	25198	37*
Chloroethane	61112	19	59941	2
Trichlorofluoromethane	92372	16	93497	1
1,1-Dichloroethene	96716	15	99153	3
Methylene chloride	113314	16	120958	7
trans-1,2-Dichloroethene	100764	15	107229	6
1,1-Dichloroethane	99947	18	108068	8
cis-1,2-Dichloroethene	104743	16	110727	6
2,2-Dichloropropane	83329	17	91158	9
Bromochloromethane	74085	10	73611	1
Chloroform	138238	14	146709	6
1,1,1-Trichloroethane	119587	16	129179	8
Carbon tetrachloride	135028	16	144722	7
1,1-Dichloropropene	42010	18	45299	8
1,2-Dichloroethane	97844	17	100865	3
Trichloroethene	140112	16	144964	3
1,2-Dichloropropane	97831	17	99877	2
Dibromomethane	46399	17	43695	6
Bromodichloromethane	96334	17	101147	5
2-Chloroethyl vinyl ether	42010	18	45299	8
cis-1,3-Dichloropropene	86928	16	87187	0
trans-1,3-Dichloropropene	79199	16	78647	1
1,1,2-Trichloroethane	102818	16	101982	1
Tetrachloroethene	133545	13	133157	0
1,3-Dichloropropane	81408	16	81432	0
Dibromochloromethane	64186	12	64039	0
1,2-Dibromoethane	39584	16	36512	8
Chlorobenzene	50614	17	53039	5
1,1,1,2-Tetrachloroethane	130917	15	130551	0
Bromoform	39823	16	37618	6
1,1,2,2-Tetrachloroethane	68687	16	66405	3
1,2,3-Trichloropropane	53646	19	53107	1
2-Chlorotoluene	41108	16	42677	4
4-Chlorotoluene	42161	18	44503	6
1,3-Dichlorobenzene	71371	13	75479	6
1,4-Dichlorobenzene	76744	15	78198	2
1,2-Dichlorobenzene	72259	13	74066	3

(a) Control limits = 0 - 20 %

(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

EPA 8021 Initial and Continuing Calibrations

Lab: Thermo Analytical

GC Column 1: DB-VRX, 75m, 0.45 mmID
Instrument ID: OC

Report Date: 07/31/96
Lab P.N.: L3551
Client P.N.: 2581-112-T4-SAMP
Initial Calibration Date: 07/25/96
Daily Calibration Date: 07/26/96

COMPOUND	INITIAL RF (ave)	%RSD (a)	DAILY RF	% DIFF (b) w/RF ave
1,2-Dibromo-3-chloropropane	14776	18	13345	10
1,2,4-Trichlorobenzene	77159	12	81559	6
Hexachlorobutadiene	114046	9	125171	10
1,2,3-Trichlorobenzene	74457	14	79462	7
Benzene				
Toluene				
Ethylbenzene				
p,m-Xylenes				
o-Xylene				
Styrene				
Isopropylbenzene				
Bromobenzene				
Propylbenzene				
1,3,5-Trimethylbenzene				
tert-Butylbenzene				
1,2,4-Trimethylbenzene				
sec-Butylbenzene				
4-Isopropyltoluene				
n-Butylbenzene				
Naphthalene				
Carbon disulfide				
MTBE				

(a) Control limits = 0 - 20 %
(b) Control limits = 0 - 15 %

* Value outside of control limits

TMA
Thermo Analytical

METALS ANALYSIS DATA SHEET

Lab:	Thermo Analytical	Report Date:	07/25/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92714	Client P.N.:	2581-112-T4-SAMP
		Date Sampled:	07/12/96
Project Name:	2nd Quarterly Sampling	Date Received:	07/12/96
Project Address:	Paddy Lane Street Paddy Lane Well	Date Analyzed:	07/16/96
		Dilution Factor:	1.0
Matrix:	Liquid	Lab Sample ID:	L3551-1
Client Sample ID:	BP-GW-01900031-071296		
Concentration:	mg/l		

AFI Code	Analyte	Method	Date Analyzed	Concentration	Q
Aluminum	Aluminum	6010	07/16/96	0.0437	U
Arsenic	Arsenic	7060	07/16/96	0.00299	U
Barium	Barium	6010	07/16/96	0.130	
Cadmium	Cadmium	6010	07/16/96	0.00276	
Chromium	Chromium	6010	07/16/96	0.00194	
Copper	Copper	6010	07/16/96	0.0129	
Iron	Iron	6010	07/16/96	0.0552	
Lead	Lead	7421	07/16/96	0.00279	
Manganese	Manganese	6010	07/16/96	0.00631	
Mercury	Mercury	7470	07/16/96	0.000173	U
Nickel	Nickel	6010	07/16/96	0.00501	
Zinc	Zinc	6010	07/16/96	0.0910	
Calcium	Calcium	6010	07/16/96	70.8	
Magnesium	Magnesium	6010	07/16/96	13.1	
Potassium	Potassium	6010	07/16/96	4.02	
Sodium	Sodium	6010	07/16/96	12.8	

Comments:

TMA
Thermo Analytical

METALS ANALYSIS DATA SHEET

Lab:	Thermo Analytical	Report Date:	07/25/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92714	Client P.N.:	2581-112-T4-SAMP
		Date Sampled:	07/12/96
Project Name:	2nd Quarterly Sampling	Date Received:	07/12/96
Project Address:	Paddy Lane Street Paddy Lane Well	Date Analyzed:	07/16/96
		Dilution Factor:	1.0
Matrix:	Liquid	Lab Sample ID:	L3551-2
Client Sample ID:	BP-GW-01900031(K)-071296		
Concentration:	mg/l		

AFI Code	Analyte	Method	Date Analyzed	Concentration	Q
Aluminum	Aluminum	6010	07/16/96	0.0968	
Arsenic	Arsenic	7060	07/16/96	0.00299	U
Barium	Barium	6010	07/16/96	0.131	
Cadmium	Cadmium	6010	07/16/96	0.00170	U
Chromium	Chromium	6010	07/16/96	0.00442	
Copper	Copper	6010	07/16/96	0.0139	
Iron	Iron	6010	07/16/96	0.195	
Lead	Lead	7421	07/16/96	0.00251	
Manganese	Manganese	6010	07/16/96	0.00445	
Mercury	Mercury	7470	07/16/96	0.000173	U
Nickel	Nickel	6010	07/16/96	0.00631	
Zinc	Zinc	6010	07/16/96	0.0699	
Calcium	Calcium	6010	07/16/96	70.5	
Magnesium	Magnesium	6010	07/16/96	13.1	
Potassium	Potassium	6010	07/16/96	3.96	
Sodium	Sodium	6010	07/16/96	12.7	

Comments:

TMA
Thermo Analytical

METALS INITIAL AND CONTINUING CALIBRATION REPORT

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: 2nd Quarterly Sampling
Project Address: Paddy Lane Street
Paddy Lane Well

Report Date: 07/25/96
Lab P.N.: L3551
Client P.N.: 2581-112-T4-SAMP

Concentration: mg/l

Metal	Date Analyzed	Initial Calibration			Continuing Calibration					
		True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	Method
Aluminum	07/16/96	20.0	19.8	99	2.00	1.99	100	2.04	102	6010
Arsenic	07/16/96	0.0250	0.0236	94	0.0250	0.0253	101	0.0262	105	7060
Barium	07/16/96	20.0	19.8	99	2.00	1.95	97	1.99	99	6010
Cadmium	07/16/96	5.00	4.84	97	2.00	2.03	102	2.11	105	6010
Chromium	07/16/96	2.00	1.94	97	2.00	2.00	100	2.06	103	6010
Copper	07/16/96	2.50	2.47	99	2.00	1.96	98	2.02	101	6010
Iron	07/16/96	10.0	9.72	97	2.00	2.00	100	2.04	102	6010
Lead	07/16/96	0.0250	0.0248	99	0.0250	0.0245	98	0.0243	97	7421
Manganese	07/16/96	5.00	4.84	97	2.00	2.01	101	2.07	104	6010
Mercury	07/16/96	0.00500	0.00498	100	0.00300	0.00304	101	0.00304	101	7470
Nickel	07/16/96	5.00	4.82	96	2.00	2.01	101	2.10	105	6010
Zinc	07/16/96	5.00	4.85	97	2.00	2.03	101	2.12	106	6010
Calcium	07/16/96	50.0	48.6	97	2.00	1.98	99	2.05	102	6010
Magnesium	07/16/96	50.0	49.3	99	2.00	1.95	97	1.98	99	6010
Potassium	07/16/96	50.0	49.7	99	20.0	19.8	99	20.2	101	6010
Sodium	07/16/96	50.0	49.9	100	2.00	1.95	98	2.01	101	6010

% Recovery Control Limits: Mercury 80-120%; Other Metals 90-110%.

TMA
Thermo Analytical

METALS BLANKS

Lab:	Thermo Analytical	Report Date:	07/25/96
Client:	CDM, Inc.	Lab P.N.:	L3551
Client Address:	18881 Von Karman, Suite 650 Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
Project Name:	2nd Quarterly Sampling		
Project Address:	Paddy Lane Street Paddy Lane Well		

Matrix: Liquid
Date Analyzed: 07/16/96
Concentration: mg/l

Analyte	Date Analyzed	Inital Calib. Blank (mg/l)	Q	Continuing Calibration Blank (mg/l)						Preparation Blank	C	Method
				Conc.	C	Conc.	C	Conc.	C			
Aluminum	07/16/96	0.0437	U	0.0701		0.0437	U			0.0437	U	6010
Arsenic	07/16/96	0.00299	U	0.00299	U	0.00299	U	0.00299	U	0.00299	U	7060
Barium	07/16/96	0.00140		0.00134	U	0.00134	U			0.00134	U	6010
Cadmium	07/16/96	0.00170	U	0.00170	U	0.00170	U			0.00170	U	6010
Chromium	07/16/96	0.00180	U	0.00180	U	0.00180	U			0.00180	U	6010
Copper	07/16/96	0.00270	U	0.00270	U	0.00270	U			0.00270	U	6010
Iron	07/16/96	0.0225	U	0.0549		0.0225	U			0.0327		6010
Lead	07/16/96	0.000636	U	0.000636	U	0.000636	U			0.000780		7421
Manganese	07/16/96	0.00200	U	0.00200	U	0.00200	U			0.00200	U	6010
Mercury	07/16/96	0.000173	U	0.000173	U	0.000173	U			0.000173	U	7470
Nickel	07/16/96	0.00470	U	0.00470	U	0.00470	U			0.00470	U	6010
Zinc	07/16/96	0.0175	U	0.0175	U	0.0175	U			0.0187		6010
Calcium	07/16/96	0.102	U	0.102	U	0.102	U			0.302		6010
Magnesium	07/16/96	0.0379	U	0.0681		0.0379	U			0.219		6010
Potassium	07/16/96	0.358	U	0.358	U	0.358	U			0.358	U	6010
Sodium	07/16/96	0.108	U	0.108	U	0.108	U			0.210		6010

TMA
Thermo Analytical

ICP INTERFERENCE CHECK SAMPLE

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: 2nd Quarterly Sampling
Project Address: Paddy Lane Street
Paddy Lane Well

Report Date: 07/25/96
Lab P.N.: L3551
Client P.N.: 2581-112-T4-SAMP

Concentration Unit: mg/l

Analyte	Date Analyzed	Initial True Sol. AB	Initial Found Sol. AB	Initial %R	Final True Sol. AB	Final Found Sol. AB	Final %R
Aluminum	07/16/96	500	475	95	500	485	97
Barium	07/16/96	2.00	1.82	91	2.00	1.84	92
Cadmium	07/16/96	4.00	3.64	91	4.00	3.77	94
Chromium	07/16/96	2.00	1.67	84	2.00	1.72	86
Copper	07/16/96	2.00	1.82	91	2.00	1.86	93
Iron	07/16/96	200	163	82	200	166	83
Manganese	07/16/96	2.00	1.67	83	2.00	1.70	85
Nickel	07/16/96	4.00	3.24	81	4.00	3.38	85
Zinc	07/16/96	4.00	3.53	88	4.00	3.68	92
Calcium	07/16/96	500	446	89	500	459	92
Magnesium	07/16/96	500	456	91	500	464	93

%R control limits = 80 - 120 %.

TMA
Thermo Analytical

METALS SPIKE SAMPLE RECOVERY

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: 2nd Quarterly Sampling
Project Address: Paddy Lane Street
Paddy Lane Well

Report Date: 07/25/96
Lab P.N.: L3551
Client P.N.: 2581-112-T4-SAMP

Matrix: Liquid
Lab Sample ID: L3551-2
Client Sample ID: BP-GW-01900031(K)-071296
Concentration: mg/l

Metal	Date Analyzed	Spike Added	Sample Result	MS Spiked Sample Result	%MS	Method
Aluminum	07/16/96	2.00	0.0968	1.78	84	6010
Arsenic	07/16/96	0.0800	0.000	0.0930	116	7060
Barium	07/16/96	2.00	0.131	1.90	88	6010
Cadmium	07/16/96	2.00	0.000	1.62	81	6010
Chromium	07/16/96	2.00	0.00442	1.71	85	6010
Copper	07/16/96	2.00	0.0139	1.71	85	6010
Iron	07/16/96	2.00	0.195	1.77	79	6010
Lead	07/16/96	0.0240	0.00251	0.0267	101	7421
Manganese	07/16/96	2.00	0.00445	1.72	86	6010
Mercury	07/16/96	0.00200	0.000	0.00205	103	7470
Nickel	07/16/96	2.00	0.00631	1.67	83	6010
Zinc	07/16/96	2.00	0.0699	1.69	81	6010
Calcium	07/16/96	2.00	70.5	71.3	40*	6010
Magnesium	07/16/96	2.00	13.1	14.6	75	6010
Potassium	07/16/96	20.0	3.96	21.5	88	6010
Sodium	07/16/96	2.00	12.7	14.4	85	6010

*Value outside of control limits
Spike Recovery: 1 out of 16 outside limits.

Conc Spk = Concentration of Spike in Sample
%MS = Percent Recovery of MS
Control limits for Spike Samples are 75-125%.

TMA
Thermo Analytical

METALS POST SPIKE SAMPLE RECOVERY

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: 2nd Quarterly Sampling
Project Address: Paddy Lane Street
Paddy Lane Well

Report Date: 07/25/96
Lab P.N.: L3551
Client P.N.: 2581-112-T4-SAMP

Matrix: Liquid
Lab Sample ID: L3551-2
Client Sample ID: BP-GW-01900031(K)-071296
Concentration: mg/l

Metal	Date Analyzed	Spike Added	Sample Result	MS Spiked Sample Result	%MS	Method
Aluminum	07/16/96	5.00	0.0968	5.11	100	6010
Arsenic	07/16/96	0.100	0.000	0.115	115	7060
Barium	07/16/96	5.00	0.131	5.09	99	6010
Cadmium	07/16/96	5.00	0.000	4.97	99	6010
Chromium	07/16/96	5.00	0.00442	5.06	101	6010
Copper	07/16/96	5.00	0.0139	4.90	98	6010
Iron	07/16/96	5.00	0.195	5.21	100	6010
Lead	07/16/96	0.100	0.00251	0.109	106	7421
Manganese	07/16/96	5.00	0.00445	5.07	101	6010
Nickel	07/16/96	5.00	0.00631	5.05	101	6010
Zinc	07/16/96	5.00	0.0699	5.10	101	6010
Calcium	07/16/96	5.00	70.5	84.7	284*	6010
Magnesium	07/16/96	5.00	13.1	19.7	132*	6010
Potassium	07/16/96	50.0	3.96	54.4	101	6010
Sodium	07/16/96	5.00	12.7	18.9	124	6010

* Value outside of QC limits.
Spike Recovery: 2 out of 15 outside limits.

Conc Spk = Concentration of Spike in Sample.
%MS = Percent Recovery of MS.
Control limits for Post Digest Spike Samples are 75-125%.

TMA
Thermo Analytical

METALS DUPLICATES

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: 2nd Quarterly Sampling
Project Address: Paddy Lane Street
Paddy Lane Well

Report Date: 07/25/96
Lab P.N.: L3551
Client P.N.: 2581-112-T4-SAMP

Matrix: Liquid
Lab Sample ID: L3551-2
Client Sample ID: BP-GW-01900031(K)-071296

Concentration Units: mg/l

Metal	Date Analyzed	Sample Result	Duplicate Result	RPD	Method
Barium	07/16/96	0.131	0.136	4	6010
Calcium	07/16/96	70.5	71.5	1	6010
Magnesium	07/16/96	13.1	13.4	2	6010
Potassium	07/16/96	3.96	4.20	6	6010
Sodium	07/16/96	12.7	13.3	5	6010

*Value outside control limits

Control limits equal 0-20% if sample and duplicate concentrations >/= 5x MDL.
If both sample and duplicate concentrations are < MDL, then no control limt exists.

0 out of 5 outside limits

Comments: _____

TMA
Thermo Analytical

METALS LABORATORY CONTROL SAMPLE

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: 2nd Quarterly Sampling
Project Address: Paddy Lane Street
Paddy Lane Well

Report Date: 07/25/96
Lab P.N.: L3551
Client P.N.: 2581-112-T4-SAMP

LCS Source: Inorganic Ventures W1-100 Lot #151, Inorganic Ventures W2-100 ot #W242, Inorganic Ventures CA Lot #J-CA02010, Inorganic Ventures K Lot #J-K01122, Inorganic Ventures Mg Lot #K-Mg02031, & Inorganic Ventures Na Lot #J-NA02013

Concentration: mg/l

Metal	Date Analyzed	LCS True Conc.	Result	%RC	Method
Aluminum	07/16/96	2.00	1.77	89	6010
Arsenic	07/16/96	0.0800	0.0869	109	7060
Barium	07/16/96	2.00	1.80	90	6010
Cadmium	07/16/96	2.00	1.61	81	6010
Chromium	07/16/96	2.00	1.74	87	6010
Copper	07/16/96	2.00	1.75	87	6010
Iron	07/16/96	2.00	1.78	89	6010
Lead	07/16/96	0.0240	0.0253	106	7421
Manganese	07/16/96	2.00	1.74	87	6010
Mercury	07/16/96	0.00200	0.00185	93	7470
Nickel	07/16/96	2.00	1.73	87	6010
Zinc	07/16/96	2.00	1.67	84	6010
Calcium	07/16/96	2.00	2.17	109	6010
Magnesium	07/16/96	2.00	1.98	99	6010
Potassium	07/16/96	20.0	17.4	87	6010
Sodium	07/16/96	2.00	2.10	105	6010

Column used to flag recovery values with an asterisk.
* Value outside of QC limits.
Spike Recovery: 0 out of 16 outside limits.

Control Limits for Laboratory Control Check Sample are 80-120%.

TMA
Thermo Analytical

ICP SERIAL DILUTIONS

Lab: Thermo Analytical
Client: CDM, Inc.
Client Address: 18881 Von Karman, Suite 650
Irvine, CA 92715
Project Name: 2nd Quarterly Sampling
Project Address: Paddy Lane Street
Paddy Lane Well

Report Date: 07/25/96
Lab P.N.: L3551
Client P.N.: 2581-112-T4-SAMP

Matrix: Liquid
Concentration Unit: mg/l
Lab Sample ID: L3551-2
Client Sample ID: BP-GW-01900031(K)-071296

Metal	Date Analyzed	Initial Sample Result	Serial Dilution Result	% DIFF	Method
Barium	07/16/96	0.131	0.140	7	6010
Calcium	07/16/96	70.5	78.7	12	6010
Magnesium	07/16/96	13.1	14.9	14	6010
Potassium	07/16/96	3.96	4.13	4	6010
Sodium	07/16/96	12.7	14.1	11	6010

%DIFF = % Difference
Series dilution (1:4 with blank water) must be performed for each batch of samples using one representative sample.
%DIFF = [(Sample Result - Series Dilution Result)/Sample Result] X 100

TMA
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1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274
Formerly Terra Tech Labs

C00031

LABORATORY REPORT

Client:	CDM, Inc.	Report Date:	7/23/96
Client Address:	18881 Von Karman, Suite 750	Lab P.N.:	L3551
	Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
		Lab Cert. #:	1155
Contact:	Suzanne Rowe		
Project Name:	BPOU 2nd. Quarterly Sampling	Date Sampled:	7/12/96
Project Address:	Paddy Lane Street	Date Received:	7/12/96
	Paddy Lane Well	Date Analyzed:	7/12/96-7/16/96
		Physical State:	Liquid

Quality Assurance/Quality Control Summary

Parameter (Method)	QC Type	Percent Recovery	Duplicate Percent Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
Alkalinity (EPA 310.1)	M	96	-	80-120	-	-
Alkalinity (EPA 310.1)	L	98	-	80-120	-	-
Chloride (EPA 300.0)	M	145*	148*	80-120	3	0-20
Nitrate-N (EPA 300.0)	M	97	96	80-120	1	0-20
Nitrite-N (EPA 300.0)	M	93	95	80-120	2	0-20
Sulfate (EPA 300.0)	M	87	87	80-120	0	0-20
Chloride (EPA 300.0)	L	98	95	80-120	3	0-20
Nitrate-N (EPA 300.0)	L	92	93	80-120	1	0-20
Nitrite-N (EPA 300.0)	L	96	92	80-120	4	0-20
Sulfate (EPA 300.0)	L	98	97	80-120	1	0-20

*MS/MSD were not within acceptable QC limits due to possible matrix interferences; LCS was within acceptable limits.

M = Matrix Spike / Matrix Spike Duplicate

L = Laboratory Control Sample Spike / Spike Duplicate

Reviewed

Approved

The samples were received by Thermo Analytical in a chilled state, intact and accompanied by the Chain-of-Custody Record.
Acceptance of samples by Thermo Analytical is not an indication of condition upon receipt.
Laboratory Results apply only to the sample matrix analyzed and may not apply to an apparently identical or similar sample.
The Laboratory Report is the property of the client to whom it is addressed.
The Laboratory Results are only a portion of the Laboratory Report.

LABORATORY RESULTS

Client:	CDM, Inc.	Report Date:	7/23/96
Client Address:	18881 Von Karman, Suite 750	Lab P.N.:	L3551
	Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
Project Name:	BPOU 2nd. Quarterly Sampling	Date Sampled:	7/12/96
Project Address:	Paddy Lane Street	Date Analyzed:	7/16/96
	Paddy Lane Well	Physical State:	Liquid

	Alkalinity		Total Dissolved Solids	Total Suspended Solids
	Bicarbonate EPA 310.1	Carbonate EPA 310.1	EPA 160.1	EPA 160.2
Client Sample ID	mg/l	mg/l	mg/l	mg/l
BP-GW-01900031-071296	210	ND	340	17
BP-GW-01900031(K)-071296	200	ND	360	ND
Method Blank	ND	ND	ND	ND
Quantitation Limits mg/l	1.0	1.0	12	10

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

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LABORATORY RESULTS

Client:	CDM, Inc.	Report Date:	7/23/96
Client Address:	18881 Von Karman, Suite 750	Lab P.N.:	L3551
	Irvine, CA 92715	Client P.N.:	2581-112-T4-SAMP
Project Name:	BPOU 2nd. Quarterly Sampling	Date Sampled:	7/12/96
Project Address:	Palm Avenue	Date Analyzed:	7/12/96-7/16/96
	Palm Well	Physical State:	Liquid

Client Sample ID	Sulfate EPA 300.0 mg/l	Nitrite-N EPA 300.0 mg/l	Nitrate-N EPA 300.0 mg/l	Hardness EPA 130.2 mg/l
BP-GW-01900031-071296	37	ND	6.7	250
BP-GW-01900031(K)-071296	37	ND	6.7	280
Method Blank	ND	ND	ND	ND
Quantitation Limits mg/l	1.0	0.25	0.25	1.0

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

LABORATORY RESULTS

Client:	CDM, Inc.	Report Date:	7/23/96
Client Address:	18881 Von Karman, Suite 750 Irvine, CA 92715	Lab P.N.:	L3551
		Client P.N.:	2581-112-T4-SAMP
Project Name:	BPOU 2nd. Quarterly Sampling	Date Sampled:	7/12/96
Project Address:	Palm Avenue Palm Well	Date Analyzed:	7/16/96
		Physical State:	Liquid

Client Sample ID	Chloride EPA 300.0 mg/l	Quantitation Limits mg/l
BP-GW-01900031-071296	21	1.3
BP-GW-01900031(K)-071296	21	1.3
Method Blank	ND	0.25

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

REPORT

TRUESDAIL LABORATORIES, INC.

CHEMISTS · MICROBIOLOGISTS · ENGINEERS
RESEARCH · DEVELOPMENT · TESTING
ESTABLISHED 1931

14201 FRANKLIN AVENUE
TUSTIN, CALIF. 92680
(714) 730-6239
FAX (714) 730-6462

CLIENT: Thermo Analytical
1920 E. Deere Ave.
Santa Ana, CA 92705
Attention: Dany Swanto

DATE: 7/18/96

RECEIVED: 7/12/96

LABORATORY NO. 91914

SAMPLE: Water/2

PROJECT: BPOU

INVESTIGATION: Analysis for Radon in water by Liquid Scintillation

RESULTS

Sample I.D.	Rn-222 pCi/L	Two Sigma Error
BP-GW-01900031-071296	250	+/- 12
BP-GW-01900031(K)071296	278	+/- 15

Date Analyzed: 7/12/96

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Angela Burke

Angela Burke, Project Manager
Water and Waste Laboratory

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising of publicity matter without prior written authorization from these Laboratories.

CHAIN-OF-CUSTODY RECORD

3108

Client: BPOU

Date: 7/12/96

Project Name / #: 2nd Quater Sampling

Project Address: Paddy Lane St.

Paddy Lane Well

P.O.#: 2581-112-T4-SAMP

Quote #:

Project Contact (please print): Suzanne Rowe / B. Wells

State where samples were collected:

Page 1 of 1

Lab Use Only
Lab Job # L3551
C.O. #
C.O. #
C.O. #
C.O. #
Sample Condition Upon Receipt:
Chilled ✓ yes no
Sealed yes ✓ no

Analysis Requested All analyses and deliverables must be identified.

Sample Identification	Date Collected	Time Collected	Grab	Comp.	Lab Sample Number	Physical State: Solid (S), Liquid (L), Vapor (V)	Preservation: Iced (I), Filtered (F), Preservative (P)	VOC-8021	Radon Draft 913	*Metal (Al, As, Ba, Ca, Cr, Cu, Fe, Pb, Mn, Ni, Zn, Hg) 6010	Cation (Ca, Mg, K, Na)	TDS-TSS160.1/160.2 (Hardness)	Anion (Cl, SO4) (NO3, NO2) 300	Alkalinity (CO3, HCO3)-2320	Total Number of Containers	Remarks	Temp of Sample Upon Receipt (if requested)
BP-GW-01900031-071296	7-12-96	1010	X		L3551-1	L	IP	X							3	40-ml VOAs + HCL	
							I		X						1	100-ml amber + none	
										X					1	1l-poly + none preserv	
											X	X		X	1	1l-poly + none preserved	
													X		1	100-ml poly + none preserved	
BP-GW-01900031(K)-071296	7-12-96	0800			-2		IP	X							3	40-ml VOAs + HCL	
							I		X						1	100-ml amber + none p.	
										X					1	1l-poly + none preserv.	
											X	X		X	1	1l poly + none preserv	
													X		1	100ml poly + none preserved	
BP-GW-01900031(F)-071296	7-12-96	1020	X		-3	L	IP	X							~~3~~ 2	40-ml VOAs + HCL	
															~~3~~ 16	Total Number of Containers	

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to TMA approval and surcharge)

Date Results are Needed:

Rush Results requested by (please circle): Phone Fax

Phone #:

Fax #:

Data Package Options (please circle if requested)

QC Summary
Type I Type V
Type II Type VI
Type III Type VII
Type IV Other

Site Specific QC Required?: YES NO
(if yes, indicate QC sample and submit triplicate volume)

SDG Complete?: YES NO

Method of Shipment

❶ Relinquished by (signature)*	❷ Received by (signature)	Date
[signature]		
Company: CDM	Company:	Time:
❸ Relinquished by (signature)*	❹ Received by Laboratory (signature): [signature]	Date: 7/12/96
Company:	Laboratory Name:	Time: 11:30

Special Instructions: CLP TYPE PAPERWORK *FILTER AT LAB ASAP-0.45mm

*See Terms And Conditions on reverse **before** signing

☐ 300 Second Avenue, Waltham, MA 02254
(617) 890-7200, Fax (617) 890-3883

☐ 603 South Main Street, New Ellenton, SC 29809
(803) 652-3324, Fax (803) 652-7995

☒ 1920 E. Deere Avenue, Santa Ana, CA 92705
(714) 757-7022, Fax (714) 757-7274

☐ 387 Airport Industrial Drive, Ypsilanti, MI 48198
(313) 480-2500, Fax (313) 480-2295

TMA Thermo Analytical

000036

Quanterra Incorporated
1721 South Grand Avenue
Santa Ana, California 92705

35

714 258-8610 Telephone
714 258-0921 Fax

Quanterra
Environmental Services

September 3, 1996

CAMP, DRESSER & McKEE
18881 VON KARMAN, SUITE 650
IRVINE, CA 92715
ATTN: MS. SUZANNE ROWE

LIMS NO.: 120550-0001/0009
DATE SAMPLED: 13-AUG-1996
DATE SAMPLE REC'D: 14-AUG-1996
PROJECT: BALDWIN PARK/2581-112-T4-SAMP

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution or dry weight correction, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Patty Mata at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Patty Mata

Project Manager

cc: Project File

Quanterra Environmental Services

LIMS REPORT KEY

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

Quanterra
Environmental Services

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LIMS # 120550

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Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries
C. Extended Raw Data package (Quanterra Level 3)

CASE NARRATIVE

LIMS # 120550

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 2.8°C.

Sample containers were received intact. The VOA vials did not contain headspace. Proper preservation of applicable samples (excluding VOA samples) was verified upon receipt and documented on the Sample Control worksheet. Sample container label did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Samples were received in time to meet the method holding time specifications. Any discrepancies identified upon sample receipt have been forwarded to the client and are documented in the enclosed COC records.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
Trichloroethene in the SW8260 MSD had a percent recovery above acceptable limits. The MSD percent recovery was 121 with an upper acceptable limit of 120 percent. Acceptable LCS analysis data indicated that the analytical system was operating within control and the MSD failure is most likely due to matrix interference.

All other spike recovery and RPD data met method- and/or project-specific QC criteria.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

SAMPLE RESULTS
Sample 120550-0002 was screened for VOC's prior to SW8260 analysis. Due to target compound concentrations that exceeded the linear range of the instrument, a ten-fold dilution was performed. Only the ten-fold dilution was reported as the screening data did not have appropriate QC performed. All reporting limits and MDL's were multiplied by the dilution factor.

III. GENERAL CHEMISTRY (BY METHOD: EPA300.0)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

CASE NARRATIVE

LIMS # 120550

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
CDM	Suzanne Rowe	8-JULY-96	55265
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
3900 La Rica (MWS-15)	(714) 752 5452	120550	

City	State	Zip Code	Site Contact	Lab Contact
Baldwin Park	CA			Betty Little

Project Name	Carrier/Waybill Number
Baldwin Park Operable Unit	

Contract/Purchase Order/Quote No.: 2581-112-T4-SAMP

Analysis (Attach list if more space is needed): 8260 VOCs; NO_3+NO_2

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		8260 VOCs	NO_3+NO_2	Special Instructions/ Conditions of Receipt
BP-GW-MW5150I-081396 3x40ml VOAs	8/13/96	1625	X							X				X		
↓ 1x250ml poly		1625	X				X								X	
BP-GW-MW5150Z-081396 3x40ml VOAs		1655	X							X				X		ms/msd
↓ 1x250ml poly		1655	X				X								X	
BP-GW-MW5150ZN-081396 3x40ml VOAs		1703	X							X				X		
↓ 1x250ml poly		1703	X				X								X	
BP-GW-MW5150D3-081396 3x40ml VOAs		1745	X							X				X		
↓ 1x250ml poly	Y	1745	X												X	
BP-GW-MW5150 3K-081396 3x40ml VOAs		1845	X							X				X		
↓ 1x250ml poly		1845	X				X								X	
~~dM~~																

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other normal

QC Requirements (Specify): CLP TYPE PAPERWORK.

1. Relinquished By	Date	Time	1. Received By	Date	Time
[signature]	8/14/96	0810	[signature]	8/14/96	0810
2. Relinquished By	**Date**	**Time**	**2. Received By**	**Date**	**Time**
3. Relinquished By	**Date**	**Time**	**3. Received By**	**Date**	**Time**

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
CDM	Suzanne Rowe	8/13/96	55267
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
13400 Valle Vista (MWS-08)	(714) 752-5452	120550	

City	State	Zip Code	Site Contact	Lab Contact
City of Baldwin Park	CA			Patty Mata

Project Name	Carrier/Waybill Number
Baldwin Park Operable Unit	

Contract/Purchase Order/Quote No.: 2581-112-T4-SAMP

Analysis (Attach list if more space is needed): 8021+8260 VOCs; 300.0 NO_3+NO_2

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		8021+8260 VOCs	300.0 NO_3+NO_2	Special Instructions/ Conditions of Receipt
BP-GW-MW50801-081396 3-40ml VOAs	8/13/96	1200	X							X				X		
↓ 1-250ml poly		↓	X				X								X	
BP-GW-MW50802-081396 3-40ml VOAs		1310	X							X				X		
↓ 1-250ml poly		↓	X				X								X	
BP-GW-MW50803-081396 3-40ml VOAs		1400	X							X				X		
↓ 1-250ml poly		↓	X				X								X	
BP-GW-MW50804-081396 3-40ml VOAs		1445	X							X				X		
↓ 1-250ml poly		↓	X				X								X	
~~RM~~																

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other normal

QC Requirements (Specify): CLP TYPE PAPERWORK

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	8/14/96	0810	1. [signature]	8/14/96	0810
2.			2.		
3.			3.		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Camp, Dresser & McKee

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
120550-0001-SA	BP-GW-MW51501-081396	WATER	13 AUG 96	16:25	14 AUG 96
120550-0002-SA	BP-GW-MW51502-081396	WATER	13 AUG 96	16:55	14 AUG 96
120550-0002-MS	BP-GW-MW51502-081396	WATER	13 AUG 96	16:55	14 AUG 96
120550-0002-SD	BP-GW-MW51502-081396	WATER	13 AUG 96	16:55	14 AUG 96
120550-0003-SA	BP-GW-MW51502N-081396	WATER	13 AUG 96	17:03	14 AUG 96
120550-0004-SA	BP-GW-MW51503-081396	WATER	13 AUG 96	17:45	14 AUG 96
120550-0005-SA	BP-GW-MW51503K-081396	WATER	13 AUG 96	18:45	14 AUG 96
120550-0006-SA	BP-GW-MW50801-081396	WATER	13 AUG 96	12:00	14 AUG 96
120550-0007-SA	BP-GW-MW50802-081396	WATER	13 AUG 96	13:10	14 AUG 96
120550-0008-SA	BP-GW-MW50803-081396	WATER	13 AUG 96	14:00	14 AUG 96
120550-0009-SA	BP-GW-MW50804-081396	WATER	13 AUG 96	14:45	14 AUG 96

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51501-081396
LAB ID: 120550-0001-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	0.45	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	1.1		0.50	0.20	ug/L
1,2-Dichloroethane	0.42	J	0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	13		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	0.63	J	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propyl benzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51501-081396
LAB ID: 120550-0001-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	98	%	80 - 120
Toluene-d8	100	%	88 - 110
Bromofluorobenzene	90	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51502-081396
LAB ID: 120550-0002-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 10

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		10	1.0	ug/L
Chloromethane	ND		10	3.0	ug/L
Vinyl chloride	ND		5.0	2.0	ug/L
Bromomethane	ND		10	1.0	ug/L
Chloroethane	ND		10	3.0	ug/L
Trichlorofluoromethane	ND		10	2.0	ug/L
1,1-Dichloroethene	20		10	1.0	ug/L
Methylene chloride	ND		20	1.0	ug/L
trans-1,2-Dichloroethene	ND		10	1.0	ug/L
1,1-Dichloroethane	ND		10	1.0	ug/L
2,2-Dichloropropane	ND		10	2.0	ug/L
cis-1,2-Dichloroethene	17		10	2.0	ug/L
Chloroform	2.5	J	10	1.0	ug/L
Bromochloromethane	ND		10	1.0	ug/L
1,1,1-Trichloroethane	5.8	J	10	1.0	ug/L
1,1-Dichloropropene	ND		10	1.0	ug/L
Carbon tetrachloride	ND		5.0	2.0	ug/L
1,2-Dichloroethane	ND		5.0	1.0	ug/L
Benzene	ND		5.0	1.0	ug/L
Trichloroethene	240		10	1.0	ug/L
1,2-Dichloropropane	ND		10	1.0	ug/L
Bromodichloromethane	ND		10	1.0	ug/L
Dibromomethane	ND		10	2.0	ug/L
Toluene	ND		10	2.0	ug/L
1,1,2-Trichloroethane	ND		10	2.0	ug/L
1,2-Dibromoethane (EDB)	ND		10	2.0	ug/L
1,3-Dichloropropane	ND		10	2.0	ug/L
Tetrachloroethene	140		10	2.0	ug/L
Dibromochloromethane	ND		10	2.0	ug/L
Chlorobenzene	ND		10	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		10	1.0	ug/L
Ethylbenzene	ND		10	1.0	ug/L
Xylenes (total)	ND		10	3.0	ug/L
Styrene	ND		10	1.0	ug/L
Bromoform	ND		10	1.0	ug/L
1-Methylethylbenzene	ND		10	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		10	1.0	ug/L
1,2,3-Trichloropropane	ND		10	4.0	ug/L
n-Propyl benzene	ND		10	2.0	ug/L
Bromobenzene	ND		10	2.0	ug/L
1,3,5-Trimethylbenzene	ND		10	1.0	ug/L
2-Chlorotoluene	ND		10	3.0	ug/L
4-Chlorotoluene	ND		10	3.0	ug/L
tert-Butylbenzene	ND		10	1.0	ug/L
1,2,4-Trimethylbenzene	ND		10	1.0	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51502-081396
LAB ID: 120550-0002-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 10

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		10	1.0	ug/L
Isopropyltoluene	ND		10	1.0	ug/L
1,3-Dichlorobenzene	ND		10	1.0	ug/L
1,4-Dichlorobenzene	ND		10	1.0	ug/L
n-Butylbenzene	ND		10	2.0	ug/L
1,2-Dichlorobenzene	ND		10	1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		10	6.0	ug/L
1,2,4-Trichlorobenzene	ND		10	2.0	ug/L
Hexachlorobutadiene	ND		10	1.0	ug/L
Naphthalene	ND		10	3.0	ug/L
1,2,3-Trichlorobenzene	ND		10	2.0	ug/L
2-Chloroethyl vinyl ether	ND		100	6.0	ug/L
cis-1,3-Dichloropropene	ND		5.0	2.0	ug/L
trans-1,3-Dichloropropene	ND		5.0	1.0	ug/L
Carbon disulfide	ND		50	1.0	ug/L
Methyl t-butyl ether	ND		50	5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	96	%	80 - 120
Toluene-d8	98	%	88 - 110
Bromofluorobenzene	89	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51502N-081396
LAB ID: 120550-0003-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	0.35	J	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propyl benzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51502N-081396
LAB ID: 120550-0003-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	98	%	80 - 120
Toluene-d8	97	%	88 - 110
Bromofluorobenzene	89	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51503-081396
LAB ID: 120550-0004-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	3.6		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	0.47	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	9.5		1.0	0.20	ug/L
Chloroform	0.76	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	0.18	J	1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.23	J	0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	47		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	14		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propyl benzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51503-081396
LAB ID: 120550-0004-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	98	%	80 - 120
Toluene-d8	99	%	88 - 110
Bromofluorobenzene	91	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51503K-081396
LAB ID: 120550-0005-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	4.4		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	0.54	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	12		1.0	0.20	ug/L
Chloroform	0.92	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	0.22	J	1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.30	J	0.50	0.20	ug/L
1,2-Dichloroethane	0.32	J	0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	59		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	17		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propyl benzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51503K-081396
LAB ID: 120550-0005-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	100	%	80 - 120
Toluene-d8	100	%	88 - 110
Bromofluorobenzene	92	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50801-081396
LAB ID: 120550-0006-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	1.2		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	0.21	J	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	0.21	J	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propyl benzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50801-081396
LAB ID: 120550-0006-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	92	%	80 - 120
Toluene-d8	94	%	88 - 110
Bromofluorobenzene	90	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50802-081396
LAB ID: 120550-0007-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	0.61	J	1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	0.41	J	1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	0.35	J	1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.62		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	5.3		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	4.7		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propyl benzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50802-081396
LAB ID: 120550-0007-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	99	%	80 - 120
Toluene-d8	100	%	88 - 110
Bromofluorobenzene	91	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50803-081396
LAB ID: 120550-0008-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.78		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	0.31	J	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	0.31	J	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propyl benzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50803-081396
LAB ID: 120550-0008-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	96	%	80 - 120
Toluene-d8	96	%	88 - 110
Bromofluorobenzene	90	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50804-081396
LAB ID: 120550-0009-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	2.1		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	1.5		1.0	0.20	ug/L
Chloroform	0.11	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	1.2		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.31	J	0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	16		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	14		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propyl benzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50804-081396
LAB ID: 120550-0009-SA
Matrix: WATER Sampled: 13 AUG 96 Received: 14 AUG 96
Authorized: 14 AUG 96 Prepared: 18 AUG 96 Analyzed: 18 AUG 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	0.27	J	5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	98	%	80 - 120
Toluene-d8	97	%	88 - 110
Bromofluorobenzene	92	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51501-081396
LAB ID: 120550-0001-SA
Matrix: WATER
Authorized: 14 AUG 96

Sampled: 13 AUG 96
Prepared: See Below

Received: 14 AUG 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.10	mg/L	E300.0	NA	14 AUG 96
Nitrate as N	3.3		1.0	0.10	mg/L	E300.0	NA	14 AUG 96

ND = Not Detected

Quanterra
Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51502-081396
LAB ID: 120550-0002-SA
Matrix: WATER
Authorized: 14 AUG 96

Sampled: 13 AUG 96
Prepared: See Below

Received: 14 AUG 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.10	mg/L	E300.0	NA	14 AUG 96
Nitrate as N	3.8		1.0	0.10	mg/L	E300.0	NA	14 AUG 96

ND = Not Detected

Quanterra
Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51502N-081396
LAB ID: 120550-0003-SA
Matrix: WATER
Authorized: 14 AUG 96

Sampled: 13 AUG 96
Prepared: See Below

Received: 14 AUG 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.10	mg/L	E300.0	NA	14 AUG 96
Nitrate as N	ND		1.0	0.10	mg/L	E300.0	NA	14 AUG 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51503-081396
LAB ID: 120550-0004-SA
Matrix: WATER
Authorized: 14 AUG 96

Sampled: 13 AUG 96
Prepared: See Below

Received: 14 AUG 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.10	mg/L	E300.0	NA	14 AUG 96
Nitrate as N	2.8		1.0	0.10	mg/L	E300.0	NA	14 AUG 96

ND = Not Detected

Quanterra
Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51503K-081396
LAB ID: 120550-0005-SA
Matrix: WATER
Authorized: 14 AUG 96

Sampled: 13 AUG 96
Prepared: See Below

Received: 14 AUG 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.10	mg/L	E300.0	NA	14 AUG 96
Nitrate as N	2.8		1.0	0.10	mg/L	E300.0	NA	14 AUG 96

ND = Not Detected

Quanterra
Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50801-081396
LAB ID: 120550-0006-SA
Matrix: WATER
Authorized: 14 AUG 96

Sampled: 13 AUG 96
Prepared: See Below

Received: 14 AUG 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.10	mg/L	E300.0	NA	14 AUG 96
Nitrate as N	1.3		1.0	0.10	mg/L	E300.0	NA	14 AUG 96

ND = Not Detected

Quanterra
Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50802-081396
LAB ID: 120550-0007-SA
Matrix: WATER
Authorized: 14 AUG 96

Sampled: 13 AUG 96
Prepared: See Below

Received: 14 AUG 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.10	mg/L	E300.0	NA	14 AUG 96
Nitrate as N	1.7		1.0	0.10	mg/L	E300.0	NA	14 AUG 96

ND = Not Detected

Quanterra
Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50803-081396
LAB ID: 120550-0008-SA
Matrix: WATER
Authorized: 14 AUG 96

Sampled: 13 AUG 96
Prepared: See Below

Received: 14 AUG 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.10	mg/L	E300.0	NA	14 AUG 96
Nitrate as N	1.2		1.0	0.10	mg/L	E300.0	NA	14 AUG 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50804-081396
LAB ID: 120550-0009-SA
Matrix: WATER
Authorized: 14 AUG 96

Sampled: 13 AUG 96
Prepared: See Below

Received: 14 AUG 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.10	mg/L	E300.0	NA	14 AUG 96
Nitrate as N	3.1		1.0	0.10	mg/L	E300.0	NA	14 AUG 96

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
120550-0001-SA	AQUEOUS	8260-A		18 AUG 96-ADX	18 AUG 96-AD
120550-0002-MS	AQUEOUS	8260-A		18 AUG 96-ADX	18 AUG 96-AD
120550-0002-SA	AQUEOUS	8260-A		18 AUG 96-ADX	18 AUG 96-AD
120550-0002-SD	AQUEOUS	8260-A		18 AUG 96-ADX	18 AUG 96-AD
120550-0003-SA	AQUEOUS	8260-A		18 AUG 96-ADX	18 AUG 96-AD
120550-0004-SA	AQUEOUS	8260-A		18 AUG 96-ADX	18 AUG 96-AD
120550-0005-SA	AQUEOUS	8260-A		18 AUG 96-ADX	18 AUG 96-AD
120550-0006-SA	AQUEOUS	8260-A		18 AUG 96-ADX	18 AUG 96-AD
120550-0007-SA	AQUEOUS	8260-A		18 AUG 96-ADX	18 AUG 96-AD
120550-0008-SA	AQUEOUS	8260-A		18 AUG 96-ADX	18 AUG 96-AD
120550-0009-SA	AQUEOUS	8260-A		18 AUG 96-ADX	18 AUG 96-AD

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 120550

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 18 AUG 96
QC Run: 18 AUG 96-ADX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	10.1	101	64-124
Benzene	10.0	11.2	112	67-127
Trichloroethene	10.0	11.3	113	60-120
Toluene	10.0	10.9	109	72-132
Chlorobenzene	10.0	11.6	116	68-128
1,2-Dichloroethane-d4	10.0	10.9	109	80-120
Toluene-d8	10.0	9.93	99	88-110
Bromofluorobenzene	10.0	10.0	100	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 120550

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 120550-0002
MS Run: 18 AUG 96-AD
Units: ug/L

Analyte	Sample Result	MS Result	MSD Result		Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
		Concentration								
1,1-Dichloroethene	20.3	113	113		100	93	93	0.0	64-124	25
Benzene	ND	102	106		100	102	106	3.8	67-127	25
Trichloroethene	235	330	356	n	100	95	121	24	60-120	25
Toluene	ND	100	102		100	100	102	2.0	72-132	25
Chlorobenzene	ND	107	102		100	107	102	4.8	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	96	100	99	80-120
Toluene-d8	98	97	98	88-110
Bromofluorobenzene	89	93	93	86-115

n = Spiked analyte out of matrix spike acceptance limits; refer to lab control sample results.
ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 120550

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 18 AUG 96-ADX Date Analyzed: 18 AUG 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.86	99	80-120
Toluene-d8	10.0	9.61	96	88-110
Bromofluorobenzene	10.0	9.01	90	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 120550

Test: 8260-A
Matrix: AQUEOUS
QC Run: 18 AUG 96-ADX

Method 8260 - Volatile Organics

Date Analyzed: 18 AUG 96

Analyte	Result	Units	Reporting Limit
Dichlorodifluoromethane	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Vinyl chloride	ND	ug/L	0.50
Bromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Methylene chloride	ND	ug/L	2.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
2,2-Dichloropropane	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1-Dichloropropene	ND	ug/L	1.0
Carbon tetrachloride	ND	ug/L	0.50
1,2-Dichloroethane	ND	ug/L	0.50
Benzene	ND	ug/L	0.50
Trichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Dibromomethane	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0
1,3-Dichloropropane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Dibromochloromethane	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Xylenes (total)	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
1-Methylethylbenzene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
1,2,3-Trichloropropane	ND	ug/L	1.0
n-Propyl benzene	ND	ug/L	1.0
Bromobenzene	ND	ug/L	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1.0
2-Chlorotoluene	ND	ug/L	1.0
4-Chlorotoluene	ND	ug/L	1.0
tert-Butylbenzene	ND	ug/L	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 120550

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS
QC Run: 18 AUG 96-ADX Date Analyzed: 18 AUG 96

Analyte	Result	Units	Reporting Limit
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
n-Butylbenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1.0
Hexachlorobutadiene	ND	ug/L	1.0
Naphthalene	ND	ug/L	1.0
1,2,3-Trichlorobenzene	ND	ug/L	1.0
2-Chloroethyl vinyl ether	ND	ug/L	10
cis-1,3-Dichloropropene	ND	ug/L	0.50
trans-1,3-Dichloropropene	ND	ug/L	0.50
Carbon disulfide	ND	ug/L	5.0
Methyl t-butyl ether	ND	ug/L	5.0

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Wet Chemistry Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
120550-0001-SA	AQUEOUS	NO3-A		14 AUG 96-AX	14 AUG 96-AA
120550-0001-SA	AQUEOUS	NO2-A		14 AUG 96-AX	14 AUG 96-AA
120550-0002-SA	AQUEOUS	NO3-A		14 AUG 96-AX	14 AUG 96-AA
120550-0002-SA	AQUEOUS	NO2-A		14 AUG 96-AX	14 AUG 96-AA
120550-0003-SA	AQUEOUS	NO3-A		14 AUG 96-AX	14 AUG 96-AA
120550-0003-SA	AQUEOUS	NO2-A		14 AUG 96-AX	14 AUG 96-AA
120550-0004-SA	AQUEOUS	NO3-A		14 AUG 96-AX	14 AUG 96-AA
120550-0004-SA	AQUEOUS	NO2-A		14 AUG 96-AX	14 AUG 96-AA
120550-0005-SA	AQUEOUS	NO3-A		14 AUG 96-AX	14 AUG 96-AA
120550-0005-SA	AQUEOUS	NO2-A		14 AUG 96-AX	14 AUG 96-AA
120550-0006-SA	AQUEOUS	NO3-A		14 AUG 96-AX	14 AUG 96-AA
120550-0006-SA	AQUEOUS	NO2-A		14 AUG 96-AX	14 AUG 96-AA
120550-0007-SA	AQUEOUS	NO3-A		14 AUG 96-AX	14 AUG 96-AA
120550-0007-SA	AQUEOUS	NO2-A		14 AUG 96-AX	14 AUG 96-AA
120550-0008-SA	AQUEOUS	NO3-A		14 AUG 96-AX	14 AUG 96-AA
120550-0008-SA	AQUEOUS	NO2-A		14 AUG 96-AX	14 AUG 96-AA
120550-0009-SA	AQUEOUS	NO3-A		14 AUG 96-AX	14 AUG 96-AA
120550-0009-SA	AQUEOUS	NO2-A		14 AUG 96-AX	14 AUG 96-AA

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 120550

Category: NO3-A Nitrate, Ion Chromatography (300.0)
Matrix: AQUEOUS Date Analyzed: 14 AUG 96
QC Run: 14 AUG 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrate as N	4.00	4.04	101	80-120

Category: NO2-A Nitrite, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 14 AUG 96
QC Run: 14 AUG 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrite as N	4.00	4.02	100	80-120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 120550

Category: NO3-A Nitrate, Ion Chromatography (300.0)
Matrix: AQUEOUS
Sample: 120550-0002
MS Run: 14 AUG 96-AA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Nitrate as N	3.82	22.5	22.7	20.0	93	94	1.2	75-125	20

Category: NO2-A Nitrite, Ion Chromatography
Matrix: AQUEOUS
Sample: 120550-0002
MS Run: 14 AUG 96-AA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Nitrite as N	ND	18.1	18.4	20.0	90	92	1.6	75-125	20

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Wet Chemistry Analysis and Preparation
Project: 120550

Test: NO3-IC-A Method 300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 14 AUG 96-AX Date Analyzed: 14 AUG 96

Analyte	Result	Units	Reporting Limit
Nitrate as N	ND	mg/L	0.10

Test: NO2-IC-A Method 300.0 - Nitrite as N, Ion Chomatography
Matrix: AQUEOUS
QC Run: 14 AUG 96-AX Date Analyzed: 14 AUG 96

Analyte	Result	Units	Reporting Limit
Nitrite as N	ND	mg/L	0.10

ND = Not Detected

Quanterra Incorporated
1721 South Grand Avenue
Santa Ana, California 92705

36 *714 258-8610 Telephone*
714 258-0921 Fax

Quanterra
Environmental Services

October 26, 1996

CAMP, DRESSER & McKEE
18881 VON KARMAN, SUITE 650
IRVINE, CA 92612
ATTN: MS. SUZANNE ROWE

LIMS NO.: 121230-0001/0001
DATE SAMPLED: 12-SEP-1996
DATE SAMPLE REC'D: 12-SEP-1996
PROJECT: BALDWIN PARK/2581-112-T4-SAMP

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Patty Mata at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Patty Mata
Project Manager

cc: Project File

LIMS REPORT KEY

Quanterra Environmental Services

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

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Chain-of-Custody Records and Sample Description Information

Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries

Quanterra Environmental Services

CASE NARRATIVE

LIMS # 121230

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 2.8°C.

Sample containers were received intact. The VOA vials did not contain headspace. Proper preservation of applicable samples was verified upon receipt and documented on the Sample Control worksheet. Sample container labels did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Sample was received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

SAMPLE RESULTS
Both diluted and undiluted analyses are reported as requested for SW8260.

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
Camp Dresser + McKee	Suzanne Rowe	9/12/96	62364
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
18831 Von Karman Suite 650	(714) 752-5452	12/230	
City / State / Zip Code	**Site Contact**	**Lab Contact**	
IRVINE / CA	Barbara Wells	Patty Matta	
Project Name	**Carrier/Waybill Number**		
Baldwin Park Operable Unit (3rd QTR GWS.)			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): 8260 VOCs	Special Instructions/ Conditions of Receipt
BP-GW-MW1R-091296	9/12/96	1025	X							X				X	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [ ] Other normal

QC Requirements (Specify):

Relinquished By	Date	Time	Received By	Date	Time
1. Suzanne M. [illegible]	9/12/96	1210	1. K. FREITAG	9/12/96	~~1210~~ 1210
2.			2.		
3.			3.		

Comments: Azusa Landfill Well (MW-1R) *CLP TYPE ~~**~~ PAPERWORK

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Camp, Dresser & McKee

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
121230-0001-SA	BP-GW-MW1R-091296	WATER	12 SEP 96	10:25	12 SEP 96
121230-0001-DL	BP-GW-MW1R-091296	WATER	12 SEP 96	10:25	12 SEP 96

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW1R-091296
LAB ID: 121230-0001-SA
Matrix: WATER Sampled: 12 SEP 96 Received: 12 SEP 96
Authorized: 12 SEP 96 Prepared: 14 SEP 96 Analyzed: 15 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	0.27	J	0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	130	E	1.0	0.1	ug/L
Methylene chloride	ND		2.0	0.1	ug/L
trans-1,2-Dichloroethene	0.33	J	1.0	0.1	ug/L
1,1-Dichloroethane	5.1		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	5.8		1.0	0.2	ug/L
Chloroform	0.47	J	1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	33		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	0.41	J	0.50	0.1	ug/L
Benzene	0.37	J	0.50	0.1	ug/L
Trichloroethene	62		1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	29		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	0.51	J	1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propylbenzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW1R-091296
LAB ID: 121230-0001-SA
Matrix: WATER — Sampled: 12 SEP 96 — Received: 12 SEP 96
Authorized: 12 SEP 96 — Prepared: 14 SEP 96 — Analyzed: 15 SEP 96
Instrument: GC/MS-MC — Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	9.2		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	1.2	J	1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	103	%	80 - 120
Toluene-d8	92	%	88 - 110
Bromofluorobenzene	91	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW1R-091296
LAB ID: 121230-0001-DL
Matrix: WATER Sampled: 12 SEP 96 Received: 12 SEP 96
Authorized: 12 SEP 96 Prepared: 15 SEP 96 Analyzed: 15 SEP 96
Instrument: GC/MS-MC Dilution: 2.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		2.0	0.1	ug/L
Chloromethane	ND		2.0	0.3	ug/L
Vinyl chloride	ND		1.0	0.2	ug/L
Bromomethane	ND		2.0	0.1	ug/L
Chloroethane	ND		2.0	0.3	ug/L
Trichlorofluoromethane	ND		2.0	0.2	ug/L
1,1-Dichloroethene	170		2.0	0.1	ug/L
Methylene chloride	ND		4.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		2.0	0.1	ug/L
1,1-Dichloroethane	5.7		2.0	0.1	ug/L
2,2-Dichloropropane	ND		2.0	0.2	ug/L
cis-1,2-Dichloroethene	6.5		2.0	0.2	ug/L
Chloroform	0.57	J	2.0	0.1	ug/L
Bromochloromethane	ND		2.0	0.1	ug/L
1,1,1-Trichloroethane	36		2.0	0.1	ug/L
1,1-Dichloropropene	ND		2.0	0.1	ug/L
Carbon tetrachloride	ND		1.0	0.2	ug/L
1,2-Dichloroethane	0.36	J	1.0	0.1	ug/L
Benzene	0.26	J	1.0	0.1	ug/L
Trichloroethene	72		2.0	0.1	ug/L
1,2-Dichloropropane	ND		2.0	0.1	ug/L
Bromodichloromethane	ND		2.0	0.1	ug/L
Dibromomethane	ND		2.0	0.2	ug/L
Toluene	ND		2.0	0.2	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	1.0	ug/L
1,1,2-Trichloroethane	ND		2.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		2.0	0.2	ug/L
1,3-Dichloropropane	ND		2.0	0.2	ug/L
Tetrachloroethene	31		2.0	0.2	ug/L
Dibromochloromethane	ND		2.0	0.2	ug/L
Chlorobenzene	0.36	J	2.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		2.0	0.1	ug/L
Ethylbenzene	ND		2.0	0.1	ug/L
Xylenes (total)	ND		2.0	0.3	ug/L
Styrene	ND		2.0	0.1	ug/L
Bromoform	ND		2.0	0.1	ug/L
1-Methylethylbenzene	ND		2.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		2.0	0.1	ug/L
1,2,3-Trichloropropane	ND		2.0	0.4	ug/L
n-Propylbenzene	ND		2.0	0.2	ug/L
Bromobenzene	ND		2.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		2.0	0.1	ug/L
2-Chlorotoluene	ND		2.0	0.3	ug/L
4-Chlorotoluene	ND		2.0	0.3	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW1R-091296
LAB ID: 121230-0001-DL
Matrix: WATER Sampled: 12 SEP 96 Received: 12 SEP 96
Authorized: 12 SEP 96 Prepared: 15 SEP 96 Analyzed: 15 SEP 96
Instrument: GC/MS-MC Dilution: 2.0

Parameter	Result	Qualifier	RL	MDL	Units
tert-Butylbenzene	ND		2.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		2.0	0.1	ug/L
sec-Butylbenzene	ND		2.0	0.1	ug/L
Isopropyltoluene	ND		2.0	0.1	ug/L
1,3-Dichlorobenzene	ND		2.0	0.1	ug/L
1,4-Dichlorobenzene	7.8		2.0	0.1	ug/L
n-Butylbenzene	ND		2.0	0.2	ug/L
1,2-Dichlorobenzene	0.97	J	2.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		2.0	0.2	ug/L
Hexachlorobutadiene	ND		2.0	0.1	ug/L
Naphthalene	ND		2.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		2.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		20	0.6	ug/L
cis-1,3-Dichloropropene	ND		1.0	0.2	ug/L
trans-1,3-Dichloropropene	ND		1.0	0.1	ug/L
Carbon disulfide	ND		10	0.1	ug/L
Methyl t-butyl ether	ND		10	0.5	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	111	%	80 - 120
Toluene-d8	104	%	88 - 110
Bromofluorobenzene	104	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121230-0001-DL	AQUEOUS	8260-A		15 SEP 96-ACX	09 SEP 96-AC
121230-0001-SA	AQUEOUS	8260-A		13 SEP 96-BDX	09 SEP 96-AC

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121230

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 15 SEP 96
QC Run: 15 SEP 96-ACX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	10.5	105	64-124
Benzene	10.0	10.0	100	67-127
Trichloroethene	10.0	10.3	103	60-120
Toluene	10.0	10.1	101	72-132
Chlorobenzene	10.0	10.5	105	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.2	102	80-120
Toluene-d8	10.0	9.90	99	88-110
Bromofluorobenzene	10.0	10.0	100	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 13 SEP 96
QC Run: 13 SEP 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	9.08	91	64-124
Benzene	10.0	8.78	88	67-127
Trichloroethene	10.0	9.97	100	60-120
Toluene	10.0	9.11	91	72-132
Chlorobenzene	10.0	10.5	105	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	11.3	113	80-120
Toluene-d8	10.0	9.78	98	88-110
Bromofluorobenzene	10.0	9.94	99	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 121230

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 089261-0002
MS Run: 09 SEP 96-AC
Units: ug/L

Analyte	Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
	Concentration								
1,1-Dichloroethene	ND	9.97	9.97	10.0	100	100	0.0	64-124	25
Benzene	ND	9.81	9.82	10.0	98	98	0.1	67-127	25
Trichloroethene	1.37	9.96	9.86	10.0	86	85	1.2	60-120	25
Toluene	ND	9.89	9.64	10.0	99	96	2.6	72-132	25
Chlorobenzene	ND	9.72	9.55	10.0	97	96	1.8	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	103	108	106	80-120
Toluene-d8	98	101	99	88-110
Bromofluorobenzene	94	99	97	86-115

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121230

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 15 SEP 96-ACX Date Analyzed: 15 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.05	90	80-120
Toluene-d8	10.0	9.83	98	88-110
Bromofluorobenzene	10.0	9.56	96	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 13 SEP 96-BDX Date Analyzed: 14 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.4	104	80-120
Toluene-d8	10.0	9.14	91	88-110
Bromofluorobenzene	10.0	9.14	91	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121230

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 09 SEP 96-AX QC Run: 13 SEP 96-BDX Date Analyzed: 14 SEP 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propylbenzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121230

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 09 SEP 96-AX QC Run: 13 SEP 96-BDX Date Analyzed: 14 SEP 96 (cont.)

Analyte	Result	Units	RL	MDL
Isopropyltoluene	ND	ug/L	1.0	0.1
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121230

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 09 SEP 96-AX QC Run: 15 SEP 96-ACX Date Analyzed: 15 SEP 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propylbenzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121230

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 09 SEP 96-AX QC Run: 15 SEP 96-ACX Date Analyzed: 15 SEP 96 (cont.)

Analyte	Result	Units	RL	MDL
sec-Butylbenzene	ND	ug/L	1.0	0.1
Isopropyltoluene	ND	ug/L	1.0	0.1
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5

ND = Not Detected

Quanterra Incorporated
1721 South Grand Avenue
37 *Santa Ana, California 92705*

714 258-8610 Telephone
714 258-0921 Fax

Quanterra
Environmental Services

October 17, 1996

CAMP, DRESSER & McKEE
18881 VON KARMAN, SUITE 650
IRVINE, CA 92612
ATTN: MS. SUZANNE ROWE

LIMS NO.: 121344-0001/0013
DATE SAMPLED: 16/17-SEP-1996
DATE SAMPLE REC'D: 17-SEP-1996
PROJECT: BALDWIN PARK

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Preliminary data were provided on September 30, 1996 at 5:15 P.M. to Suzanne Rowe.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Patty Mata at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Project Manager

cc: Project File

Quanterra Environmental Services

LIMS REPORT KEY

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

Quanterra Environmental Services

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Chain-of-Custody Records and Sample Description Information

Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries

CASE NARRATIVE

LIMS # 121344

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 2.8°C.

Sample containers were received intact. The VOA vials did not contain headspace. Proper preservation of applicable samples was verified upon receipt and documented on the Sample Control worksheet. Sample container labels did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Sample was received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria with the exception of the following:
Matrix spike/matrix spike duplicate spike recoveries were outside the acceptance limits for trichloroethene. However, the acceptable LCS analysis data indicated that the analytical system was operating within control and this condition is most likely due to matrix interference.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
Camp. Dresser + McKee	Suzanne Rowe	9-16-96	62381
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 **of** 1
MW5-03		121344	

City	State	Zip Code	Site Contact	Lab Contact
IRWINDALE			Barbara Wells	Patty Matta

Project Name	Carrier/Waybill Number
Baldwin Park Operable Unit (3rd QTR SAMP.)	

Contract/Purchase Order/Quote No.

Analysis (Attach list if more space is needed): VOC's EPA 8260

2-8°C

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOC's EPA 8260	Special Instructions/ Conditions of Receipt
BP-GW-MW50301-091696*	9-16-96	1010	X						X			X	* 3-40ml VOAs
BP-GW-MW50302-091696*	9-16-96	1308	X						X			X	
BP-GW-MW50303-091696*	9-16-96	1515	X						X			X	
BP-GW-MW50304-091696*	9-16-96	1700	X						X			X	
BP-GW-MW50304N-091696*	9-16-96	1720	X						X			X	
BP-GW-MW50305-091796*	9-17-96	0820	X						X			X	
BP-GW-MW50306-091796*	9-17/96	0955	X						X			X	
BP-GW-MW50307-091796*	9-17-96	1120	X						X			X	
BP-GW-MW50308-091796*	9-17-96	1240	X						X			X	
BP-GW-MW50309-091796**	9-17-96	1355	X						X			X	5-40ml VOAs ** ms/msl
BP-GW-MW50310-091796*	9-17-96	1500	X						X			X	* 3-40ml VOAs
BP-GW-MW50310N-091796	9-17-96	1540	X						X			X	
BP-GW-MW50310K-091796*	9-17-96	1800	X						X			X	

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other normal

QC Requirements (Specify): CLP TYPE PAPERWORK

	Date	Time		Date	Time
1. Relinquished By: Shannon Dean Tomelliff	9/17/96	18:30	1. Received By: [signature]	9/17/96	1830
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

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Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Camp, Dresser & McKee

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
121344-0001-SA	BP-GW-MW50301-091696	WATER	16 SEP 96	10:10	17 SEP 96
121344-0002-SA	BP-GW-MW50302-091696	WATER	16 SEP 96	13:08	17 SEP 96
121344-0003-SA	BP-GW-MW50303-091696	WATER	16 SEP 96	15:15	17 SEP 96
121344-0004-SA	BP-GW-MW50304-091696	WATER	16 SEP 96	17:00	17 SEP 96
121344-0005-SA	BP-GW-MW50304N-091696	WATER	16 SEP 96	17:20	17 SEP 96
121344-0006-SA	BP-GW-MW50305-091796	WATER	17 SEP 96	08:20	17 SEP 96
121344-0007-SA	BP-GW-MW50306-091796	WATER	17 SEP 96	09:55	17 SEP 96
121344-0007-DL	BP-GW-MW50306-091796	WATER	17 SEP 96	09:55	17 SEP 96
121344-0008-SA	BP-GW-MW50307-091796	WATER	17 SEP 96	11:20	17 SEP 96
121344-0008-DL	BP-GW-MW50307-091796	WATER	17 SEP 96	11:20	17 SEP 96
121344-0009-SA	BP-GW-MW50308-091796	WATER	17 SEP 96	12:40	17 SEP 96
121344-0009-DL	BP-GW-MW50308-091796	WATER	17 SEP 96	12:40	17 SEP 96
121344-0010-SA	BP-GW-MW50309-091796	WATER	17 SEP 96	13:55	17 SEP 96
121344-0010-MS	BP-GW-MW50309-091796	WATER	17 SEP 96	13:55	17 SEP 96
121344-0010-SD	BP-GW-MW50309-091796	WATER	17 SEP 96	13:55	17 SEP 96
121344-0011-SA	BP-GW-MW50310-091796	WATER	17 SEP 96	15:00	17 SEP 96
121344-0012-SA	BP-GW-MW50310N-091796	WATER	17 SEP 96	15:40	17 SEP 96
121344-0013-SA	BP-GW-MW50310K-091796	WATER	17 SEP 96	18:00	17 SEP 96

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50301-091696
LAB ID: 121344-0001-SA
Matrix: WATER Sampled: 16 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 23 SEP 96 Analyzed: 23 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	0.91	J	1.0	0.1	ug/L
Methylene chloride	ND		2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	1.7		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	1.0		1.0	0.2	ug/L
Chloroform	0.30	J	1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	ND		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	2.8		1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	0.41	J	1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	4.8		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	0.15	J	1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	0.63	J	1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50301-091696
LAB ID: 121344-0001-SA
Matrix: WATER Sampled: 16 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 23 SEP 96 Analyzed: 23 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	0.13	J	5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	103	%	80 - 120
Toluene-d8	98	%	88 - 110
Bromofluorobenzene	95	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50302-091696
LAB ID: 121344-0002-SA
Matrix: WATER Sampled: 16 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 23 SEP 96 Analyzed: 23 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	1.3		1.0	0.1	ug/L
Methylene chloride	ND		2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	1.6		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	1.5		1.0	0.2	ug/L
Chloroform	2.0		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	ND		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	4.8		1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	0.21	J	1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	5.9		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	0.13	J	1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	0.65	J	1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50302-091696
LAB ID: 121344-0002-SA
Matrix: WATER Sampled: 16 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 23 SEP 96 Analyzed: 23 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	0.19	J	1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	0.35	J	5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	112	%	80 - 120
Toluene-d8	105	%	88 - 110
Bromofluorobenzene	101	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50303-091696
LAB ID: 121344-0003-SA
Matrix: WATER Sampled: 16 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	ND		1.0	0.1	ug/L
Methylene chloride	ND		2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	ND		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.2	ug/L
Chloroform	1.7		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	ND		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	0.31	J	1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	0.50	J	1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	0.23	J	1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50303-091696
LAB ID: 121344-0003-SA
Matrix: WATER Sampled: 16 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	0.12	J	5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	108	%	80 - 120
Toluene-d8	100	%	88 - 110
Bromofluorobenzene	100	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50304-091696
LAB ID: 121344-0004-SA
Matrix: WATER Sampled: 16 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	1.4		1.0	0.1	ug/L
Methylene chloride	0.15	J	2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	1.4		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	1.5		1.0	0.2	ug/L
Chloroform	0.81	J	1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	ND		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	5.2		1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	5.5		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	0.48	J	1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50304-091696
LAB ID: 121344-0004-SA
Matrix: WATER Sampled: 16 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	0.13	J	5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	113	%	80 - 120
Toluene-d8	103	%	88 - 110
Bromofluorobenzene	100	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50304N-091696
LAB ID: 121344-0005-SA
Matrix: WATER Sampled: 16 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	ND		1.0	0.1	ug/L
Methylene chloride	ND		2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	ND		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.2	ug/L
Chloroform	ND		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	ND		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	ND		1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	ND		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L
sec-Butylbenzene	ND		1.0	0.1	ug/L

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50304N-091696
LAB ID: 121344-0005-SA
Matrix: WATER Sampled: 16 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	112	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	99	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50305-091796
LAB ID: 121344-0006-SA
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	1.5		1.0	0.1	ug/L
Methylene chloride	ND		2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	0.25	J	1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	0.79	J	1.0	0.2	ug/L
Chloroform	0.70	J	1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	0.12	J	1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	ND		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	44		1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	0.24	J	1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	22		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	0.54	J	1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50305-091796
LAB ID: 121344-0006-SA
Matrix: WATER — Sampled: 17 SEP 96 — Received: 17 SEP 96
Authorized: 18 SEP 96 — Prepared: 24 SEP 96 — Analyzed: 24 SEP 96
Instrument: GC/MS-MC — Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	113	%	80 - 120
Toluene-d8	103	%	88 - 110
Bromofluorobenzene	102	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50306-091796
LAB ID: 121344-0007-SA
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	3.5		1.0	0.1	ug/L
Methylene chloride	ND		2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	0.31	J	1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	17		1.0	0.2	ug/L
Chloroform	4.1		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	0.55	J	1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	2.1		0.50	0.2	ug/L
1,2-Dichloroethane	1.5		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	450	E	1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	350	E	1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50306-091796
LAB ID: 121344-0007-SA
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	119	%	80 - 120
Toluene-d8	99	%	88 - 110
Bromofluorobenzene	101	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50306-091796
LAB ID: 121344-0007-DL
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MD Dilution: 10

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		10	0.1	ug/L
Chloromethane	ND		10	0.3	ug/L
Vinyl chloride	ND		5.0	0.2	ug/L
Bromomethane	ND		10	0.1	ug/L
Chloroethane	ND		10	0.3	ug/L
Trichlorofluoromethane	ND		10	0.2	ug/L
1,1-Dichloroethene	4.4	J	10	0.1	ug/L
Methylene chloride	ND		20	0.1	ug/L
trans-1,2-Dichloroethene	ND		10	0.1	ug/L
1,1-Dichloroethane	ND		10	0.1	ug/L
2,2-Dichloropropane	ND		10	0.2	ug/L
cis-1,2-Dichloroethene	21		10	0.2	ug/L
Chloroform	4.7	J	10	0.1	ug/L
Bromochloromethane	ND		10	0.1	ug/L
1,1,1-Trichloroethane	ND		10	0.1	ug/L
1,1-Dichloropropene	ND		10	0.1	ug/L
Carbon tetrachloride	2.0	J	5.0	0.2	ug/L
1,2-Dichloroethane	ND		5.0	0.1	ug/L
Benzene	ND		5.0	0.1	ug/L
Trichloroethene	740		10	0.1	ug/L
1,2-Dichloropropane	ND		10	0.1	ug/L
Bromodichloromethane	ND		10	0.1	ug/L
Dibromomethane	ND		10	0.2	ug/L
Toluene	ND		10	0.2	ug/L
1,1,2-Trichloroethane	ND		10	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		10	0.2	ug/L
1,3-Dichloropropane	ND		10	0.2	ug/L
Tetrachloroethene	620		10	0.2	ug/L
Dibromochloromethane	ND		10	0.2	ug/L
Chlorobenzene	ND		10	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		10	0.1	ug/L
Ethylbenzene	ND		10	0.1	ug/L
Xylenes (total)	ND		10	0.3	ug/L
Styrene	ND		10	0.1	ug/L
Bromoform	ND		10	0.1	ug/L
1-Methylethylbenzene	ND		10	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		10	0.1	ug/L
1,2,3-Trichloropropane	ND		10	0.4	ug/L
n-Propyl benzene	ND		10	0.2	ug/L
Bromobenzene	ND		10	0.2	ug/L
1,3,5-Trimethylbenzene	ND		10	0.1	ug/L
2-Chlorotoluene	ND		10	0.3	ug/L
4-Chlorotoluene	ND		10	0.3	ug/L
tert-Butylbenzene	ND		10	0.1	ug/L
1,2,4-Trimethylbenzene	ND		10	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50306-091796
LAB ID: 121344-0007-DL
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MD Dilution: 10

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		10	0.1	ug/L
Isopropyltoluene	ND		10	0.1	ug/L
1,3-Dichlorobenzene	ND		10	0.1	ug/L
1,4-Dichlorobenzene	ND		10	0.1	ug/L
n-Butylbenzene	ND		10	0.2	ug/L
1,2-Dichlorobenzene	ND		10	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		10	0.6	ug/L
1,2,4-Trichlorobenzene	ND		10	0.2	ug/L
Hexachlorobutadiene	ND		10	0.1	ug/L
Naphthalene	ND		10	0.3	ug/L
1,2,3-Trichlorobenzene	ND		10	0.2	ug/L
2-Chloroethyl vinyl ether	ND		100	0.6	ug/L
cis-1,3-Dichloropropene	ND		5.0	0.2	ug/L
trans-1,3-Dichloropropene	ND		5.0	0.1	ug/L
Carbon disulfide	ND		50	0.1	ug/L
Methyl t-butyl ether	ND		50	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	102	%	80 - 120
Toluene-d8	99	%	88 - 110
Bromofluorobenzene	95	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50307-091796
LAB ID: 121344-0008-SA
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	9.5		1.0	0.1	ug/L
Methylene chloride	ND		2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	0.55	J	1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	16		1.0	0.2	ug/L
Chloroform	11		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	1.5		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	2.4		0.50	0.2	ug/L
1,2-Dichloroethane	3.8		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	440	E	1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	320	E	1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	0.14	J	1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50307-091796
LAB ID: 121344-0008-SA
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	0.12	J	1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	0.12	J	5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	119	%	80 - 120
Toluene-d8	98	%	88 - 110
Bromofluorobenzene	100	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50307-091796
LAB ID: 121344-0008-DL
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MD Dilution: 10

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		10	0.1	ug/L
Chloromethane	ND		10	0.3	ug/L
Vinyl chloride	ND		5.0	0.2	ug/L
Bromomethane	ND		10	0.1	ug/L
Chloroethane	ND		10	0.3	ug/L
Trichlorofluoromethane	ND		10	0.2	ug/L
1,1-Dichloroethene	12		10	0.1	ug/L
Methylene chloride	ND		20	0.1	ug/L
trans-1,2-Dichloroethene	ND		10	0.1	ug/L
1,1-Dichloroethane	ND		10	0.1	ug/L
2,2-Dichloropropane	ND		10	0.2	ug/L
cis-1,2-Dichloroethene	20		10	0.2	ug/L
Chloroform	13		10	0.1	ug/L
Bromochloromethane	ND		10	0.1	ug/L
1,1,1-Trichloroethane	1.4	J	10	0.1	ug/L
1,1-Dichloropropene	ND		10	0.1	ug/L
Carbon tetrachloride	2.1	J	5.0	0.2	ug/L
1,2-Dichloroethane	3.6	J	5.0	0.1	ug/L
Benzene	ND		5.0	0.1	ug/L
Trichloroethene	690		10	0.1	ug/L
1,2-Dichloropropane	ND		10	0.1	ug/L
Bromodichloromethane	ND		10	0.1	ug/L
Dibromomethane	ND		10	0.2	ug/L
Toluene	ND		10	0.2	ug/L
1,1,2-Trichloroethane	ND		10	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		10	0.2	ug/L
1,3-Dichloropropane	ND		10	0.2	ug/L
Tetrachloroethene	510		10	0.2	ug/L
Dibromochloromethane	ND		10	0.2	ug/L
Chlorobenzene	ND		10	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		10	0.1	ug/L
Ethylbenzene	ND		10	0.1	ug/L
Xylenes (total)	ND		10	0.3	ug/L
Styrene	ND		10	0.1	ug/L
Bromoform	ND		10	0.1	ug/L
1-Methylethylbenzene	ND		10	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		10	0.1	ug/L
1,2,3-Trichloropropane	ND		10	0.4	ug/L
n-Propyl benzene	ND		10	0.2	ug/L
Bromobenzene	ND		10	0.2	ug/L
1,3,5-Trimethylbenzene	ND		10	0.1	ug/L
2-Chlorotoluene	ND		10	0.3	ug/L
4-Chlorotoluene	ND		10	0.3	ug/L
tert-Butylbenzene	ND		10	0.1	ug/L
1,2,4-Trimethylbenzene	ND		10	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50307-091796
LAB ID: 121344-0008-DL
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MD Dilution: 10

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		10	0.1	ug/L
Isopropyltoluene	ND		10	0.1	ug/L
1,3-Dichlorobenzene	ND		10	0.1	ug/L
1,4-Dichlorobenzene	ND		10	0.1	ug/L
n-Butylbenzene	ND		10	0.2	ug/L
1,2-Dichlorobenzene	ND		10	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		10	0.6	ug/L
1,2,4-Trichlorobenzene	ND		10	0.2	ug/L
Hexachlorobutadiene	ND		10	0.1	ug/L
Naphthalene	ND		10	0.3	ug/L
1,2,3-Trichlorobenzene	ND		10	0.2	ug/L
2-Chloroethyl vinyl ether	ND		100	0.6	ug/L
cis-1,3-Dichloropropene	ND		5.0	0.2	ug/L
trans-1,3-Dichloropropene	ND		5.0	0.1	ug/L
Carbon disulfide	ND		50	0.1	ug/L
Methyl t-butyl ether	ND		50	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	112	%	80 - 120
Toluene-d8	107	%	88 - 110
Bromofluorobenzene	101	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50308-091796
LAB ID: 121344-0009-SA
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	84		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	0.14	J	1.0	0.10	ug/L
1,1-Dichloroethane	2.7		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	6.4		1.0	0.20	ug/L
Chloroform	6.0		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	13		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	1.3		0.50	0.20	ug/L
1,2-Dichloroethane	2.2		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	190	E	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	72		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50308-091796
LAB ID: 121344-0009-SA
Matrix: WATER — Sampled: 17 SEP 96 — Received: 17 SEP 96
Authorized: 18 SEP 96 — Prepared: 26 SEP 96 — Analyzed: 26 SEP 96
Instrument: GC/MS-MC — Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	117	%	80 - 120
Toluene-d8	94	%	88 - 110
Bromofluorobenzene	95	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50308-091796
LAB ID: 121344-0009-DL
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MD Dilution: 2.5

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		2.5	0.1	ug/L
Chloromethane	ND		2.5	0.3	ug/L
Vinyl chloride	ND		1.2	0.2	ug/L
Bromomethane	ND		2.5	0.1	ug/L
Chloroethane	ND		2.5	0.3	ug/L
Trichlorofluoromethane	ND		2.5	0.2	ug/L
1,1-Dichloroethene	100		2.5	0.1	ug/L
Methylene chloride	ND		5.0	0.1	ug/L
trans-1,2-Dichloroethene	0.36	J	2.5	0.1	ug/L
1,1-Dichloroethane	3.4		2.5	0.1	ug/L
2,2-Dichloropropane	ND		2.5	0.2	ug/L
cis-1,2-Dichloroethene	8.4		2.5	0.2	ug/L
Chloroform	6.7		2.5	0.1	ug/L
Bromochloromethane	ND		2.5	0.1	ug/L
1,1,1-Trichloroethane	14		2.5	0.1	ug/L
1,1-Dichloropropene	ND		2.5	0.1	ug/L
Carbon tetrachloride	1.2		1.2	0.2	ug/L
1,2-Dichloroethane	1.8		1.2	0.1	ug/L
Benzene	ND		1.2	0.1	ug/L
Trichloroethene	200		2.5	0.1	ug/L
1,2-Dichloropropane	ND		2.5	0.1	ug/L
Bromodichloromethane	ND		2.5	0.1	ug/L
Dibromomethane	ND		2.5	0.2	ug/L
Toluene	ND		2.5	0.2	ug/L
1,1,2-Trichloroethane	ND		2.5	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		2.5	0.2	ug/L
1,3-Dichloropropane	ND		2.5	0.2	ug/L
Tetrachloroethene	93		2.5	0.2	ug/L
Dibromochloromethane	ND		2.5	0.2	ug/L
Chlorobenzene	ND		2.5	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		2.5	0.1	ug/L
Ethylbenzene	ND		2.5	0.1	ug/L
Xylenes (total)	ND		2.5	0.3	ug/L
Styrene	ND		2.5	0.1	ug/L
Bromoform	ND		2.5	0.1	ug/L
1-Methylethylbenzene	ND		2.5	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		2.5	0.1	ug/L
1,2,3-Trichloropropane	ND		2.5	0.4	ug/L
n-Propyl benzene	ND		2.5	0.2	ug/L
Bromobenzene	ND		2.5	0.2	ug/L
1,3,5-Trimethylbenzene	ND		2.5	0.1	ug/L
2-Chlorotoluene	ND		2.5	0.3	ug/L
4-Chlorotoluene	ND		2.5	0.3	ug/L
tert-Butylbenzene	ND		2.5	0.1	ug/L
1,2,4-Trimethylbenzene	ND		2.5	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50308-091796
LAB ID: 121344-0009-DL
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MD Dilution: 2.5

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		2.5	0.1	ug/L
Isopropyltoluene	ND		2.5	0.1	ug/L
1,3-Dichlorobenzene	ND		2.5	0.1	ug/L
1,4-Dichlorobenzene	ND		2.5	0.1	ug/L
n-Butylbenzene	ND		2.5	0.2	ug/L
1,2-Dichlorobenzene	ND		2.5	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.5	0.6	ug/L
1,2,4-Trichlorobenzene	ND		2.5	0.2	ug/L
Hexachlorobutadiene	ND		2.5	0.1	ug/L
Naphthalene	ND		2.5	0.3	ug/L
1,2,3-Trichlorobenzene	ND		2.5	0.2	ug/L
2-Chloroethyl vinyl ether	ND		25	0.6	ug/L
cis-1,3-Dichloropropene	ND		1.2	0.2	ug/L
trans-1,3-Dichloropropene	ND		1.2	0.1	ug/L
Carbon disulfide	ND		12	0.1	ug/L
Methyl t-butyl ether	ND		12	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	102	%	80 - 120
Toluene-d8	103	%	88 - 110
Bromofluorobenzene	97	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50309-091796
LAB ID: 121344-0010-SA
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	0.28	J	0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	5.4		1.0	0.1	ug/L
Methylene chloride	ND		2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	2.1		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	4.8		1.0	0.2	ug/L
Chloroform	0.58	J	1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	0.37	J	1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	0.32	J	0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	19		1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	11		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	0.64	J	1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50309-091796
LAB ID: 121344-0010-SA
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	0.14	J	1.0	0.1	ug/L
1,4-Dichlorobenzene	9.0		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	1.2		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	116	%	80 - 120
Toluene-d8	102	%	88 - 110
Bromofluorobenzene	104	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50310-091796
LAB ID: 121344-0011-SA
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	0.32	J	1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	0.35	J	1.0	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	0.35	J	1.0	0.2	ug/L
1,1-Dichloroethene	39		1.0	0.1	ug/L
Methylene chloride	ND		2.0	0.1	ug/L
trans-1,2-Dichloroethene	0.34	J	1.0	0.1	ug/L
1,1-Dichloroethane	15		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	28		1.0	0.2	ug/L
Chloroform	1.6		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	0.86	J	1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	0.33	J	0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	41		1.0	0.1	ug/L
1,2-Dichloropropane	0.31	J	1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	14		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50310-091796
LAB ID: 121344-0011-SA
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	119	%	80 - 120
Toluene-d8	104	%	88 - 110
Bromofluorobenzene	102	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50310N-091796
LAB ID: 121344-0012-SA
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	ND		1.0	0.1	ug/L
Methylene chloride	0.22	J	2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	ND		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.2	ug/L
Chloroform	ND		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	ND		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	ND		1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	ND		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50310N-091796
LAB ID: 121344-0012-SA
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	107	%	80 - 120
Toluene-d8	103	%	88 - 110
Bromofluorobenzene	100	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50310K-091796
LAB ID: 121344-0013-SA
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	14		1.0	0.1	ug/L
Methylene chloride	ND		2.0	0.1	ug/L
trans-1,2-Dichloroethene	0.17	J	1.0	0.1	ug/L
1,1-Dichloroethane	8.6		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	18		1.0	0.2	ug/L
Chloroform	1.1		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	0.37	J	1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	0.34	J	0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	21		1.0	0.1	ug/L
1,2-Dichloropropane	0.21	J	1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	6.4		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50310K-091796
LAB ID: 121344-0013-SA
Matrix: WATER Sampled: 17 SEP 96 Received: 17 SEP 96
Authorized: 18 SEP 96 Prepared: 24 SEP 96 Analyzed: 24 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	118	%	80 - 120
Toluene-d8	100	%	88 - 110
Bromofluorobenzene	102	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121344-0001-SA	AQUEOUS	8260-A		23 SEP 96-BCX	25 SEP 96-BC
121344-0002-SA	AQUEOUS	8260-A		23 SEP 96-BCX	25 SEP 96-BC
121344-0003-SA	AQUEOUS	8260-A		23 SEP 96-BCX	25 SEP 96-BC
121344-0004-SA	AQUEOUS	8260-A		23 SEP 96-BCX	25 SEP 96-BC
121344-0005-SA	AQUEOUS	8260-A		23 SEP 96-BCX	25 SEP 96-BC
121344-0006-SA	AQUEOUS	8260-A		23 SEP 96-BCX	25 SEP 96-BC
121344-0007-DL	AQUEOUS	8260-A		24 SEP 96-BDX	
121344-0007-SA	AQUEOUS	8260-A		23 SEP 96-BCX	25 SEP 96-BC
121344-0008-DL	AQUEOUS	8260-A		24 SEP 96-BDX	
121344-0008-SA	AQUEOUS	8260-A		23 SEP 96-BCX	25 SEP 96-BC
121344-0009-DL	AQUEOUS	8260-A		24 SEP 96-BDX	
121344-0009-SA	AQUEOUS	8260-A		25 SEP 96-BCX	25 SEP 96-BC
121344-0010-MS	AQUEOUS	8260-A		25 SEP 96-BCX	25 SEP 96-BC
121344-0010-SA	AQUEOUS	8260-A		23 SEP 96-BCX	25 SEP 96-BC
121344-0010-SD	AQUEOUS	8260-A		25 SEP 96-BCX	25 SEP 96-BC
121344-0011-SA	AQUEOUS	8260-A		23 SEP 96-BCX	25 SEP 96-BC
121344-0012-SA	AQUEOUS	8260-A		24 SEP 96-BDX	25 SEP 96-BC
121344-0013-SA	AQUEOUS	8260-A		23 SEP 96-BCX	25 SEP 96-BC

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121344

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 25 SEP 96
QC Run: 25 SEP 96-BCX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	8.97	90	64-124
Benzene	10.0	8.01	80	67-127
Trichloroethene	10.0	9.17	92	60-120
Toluene	10.0	8.60	86	72-132
Chlorobenzene	10.0	9.13	91	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.3	103	80-120
Toluene-d8	10.0	8.78	88	88-110
Bromofluorobenzene	10.0	8.93	89	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 24 SEP 96
QC Run: 24 SEP 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	9.78	98	64-124
Benzene	10.0	9.59	96	67-127
Trichloroethene	10.0	9.44	94	60-120
Toluene	10.0	9.63	96	72-132
Chlorobenzene	10.0	7.50	75	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.7	107	80-120
Toluene-d8	10.0	10.4	104	88-110
Bromofluorobenzene	10.0	10.1	101	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 23 SEP 96
QC Run: 23 SEP 96-BCX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	10.4	104	64-124
Benzene	10.0	9.63	96	67-127
Trichloroethene	10.0	10.4	104	60-120
Toluene	10.0	9.71	97	72-132
Chlorobenzene	10.0	10.0	100	68-128

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS (cont.)
Project: 121344

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.1	101	80-120
Toluene-d8	10.0	9.92	99	88-110
Bromofluorobenzene	10.0	9.47	95	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 24 SEP 96
QC Run: 24 SEP 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	9.78	98	64-124
Benzene	10.0	9.59	96	67-127
Trichloroethene	10.0	9.44	94	60-120
Toluene	10.0	9.63	96	72-132
Chlorobenzene	10.0	7.50	75	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.7	107	80-120
Toluene-d8	10.0	10.4	104	88-110
Bromofluorobenzene	10.0	10.1	101	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 121344

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 121344-0010
MS Run: 25 SEP 96-BC
Units: ug/L

Analyte	Concentration Sample Result	MS Result	MSD Result		Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	5.40	15.8	17.7		10.0	104	123	17	64-124	25
Benzene	ND	9.53	9.45		10.0	95	94	0.8	67-127	25
Trichloroethene	19.2	30.6	36.6	n	10.0	114	174	42	60-120	25
Toluene	ND	9.82	10.0		10.0	98	100	1.8	72-132	25
Chlorobenzene	0.644 J	10.7	11.2		10.0	101	106	4.9	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	116	98	110	80-120
Toluene-d8	102	95	97	88-110
Bromofluorobenzene	104	90	96	86-115

J = Result is detected below the reporting limit or is an estimated concentration.
n = Spiked analyte out of matrix spike acceptance limits; refer to lab control sample results.
ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121344

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 25 SEP 96-BCX Date Analyzed: 25 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.3	103	80-120
Toluene-d8	10.0	9.39	94	88-110
Bromofluorobenzene	10.0	8.85	88	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 24 SEP 96-BDX Date Analyzed: 24 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.1	101	80-120
Toluene-d8	10.0	10.3	103	88-110
Bromofluorobenzene	10.0	9.96	100	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 23 SEP 96-BCX Date Analyzed: 23 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.5	105	80-120
Toluene-d8	10.0	10.2	102	88-110
Bromofluorobenzene	10.0	9.63	96	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
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SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121344 (cont.)

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 24 SEP 96-BDX Date Analyzed: 24 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.1	101	80-120
Toluene-d8	10.0	10.3	103	88-110
Bromofluorobenzene	10.0	9.96	100	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

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METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121344

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 25 SEP 96-BX QC Run: 23 SEP 96-BCX Date Analyzed: 23 SEP 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propyl benzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1
Isopropyltoluene	ND	ug/L	1.0	0.1

ND = Not Detected

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METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121344

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 25 SEP 96-BX QC Run: 23 SEP 96-BCX Date Analyzed: 23 SEP 96 (cont.)

Analyte	Result	Units	RL	MDL
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121344

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 25 SEP 96-BX QC Run: 25 SEP 96-BCX Date Analyzed: 25 SEP 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propyl benzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1

ND = Not Detected

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METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121344

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 25 SEP 96-BX QC Run: 25 SEP 96-BCX Date Analyzed: 25 SEP 96 (cont.)

Analyte	Result		Units	RL	MDL
Isopropyltoluene	ND		ug/L	1.0	0.1
1,3-Dichlorobenzene	ND		ug/L	1.0	0.1
1,4-Dichlorobenzene	ND		ug/L	1.0	0.1
n-Butylbenzene	ND		ug/L	1.0	0.2
1,2-Dichlorobenzene	ND		ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND		ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND		ug/L	1.0	0.2
Hexachlorobutadiene	ND		ug/L	1.0	0.1
Naphthalene	0.36	J	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND		ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND		ug/L	10	0.6
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.1
Carbon disulfide	ND		ug/L	5.0	0.1
Methyl t-butyl ether	ND		ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		ug/L	5.0	1.0

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

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Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121344

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 25 SEP 96-BX QC Run: 24 SEP 96-BDX Date Analyzed: 24 SEP 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propyl benzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121344

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 25 SEP 96-BX QC Run: 24 SEP 96-BDX Date Analyzed: 24 SEP 96 (cont.)

Analyte	Result	Units	RL	MDL
Isopropyltoluene	ND	ug/L	1.0	0.1
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121344

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 24 SEP 96-BDX QC Run: 24 SEP 96-BDX Date Analyzed: 24 SEP 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propyl benzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1

ND = Not Detected

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METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121344

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 24 SEP 96-BDX QC Run: 24 SEP 96-BDX Date Analyzed: 24 SEP 96 (cont.)

Analyte	Result	Units	RL	MDL
Isopropyltoluene	ND	ug/L	1.0	0.1
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

Quanterra Incorporated
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Quanterra
Environmental Services

2October 17, 1996

CAMP, DRESSER & McKEE
18881 VON KARMAN, SUITE 650
IRVINE, CA 92612
ATTN: MS. SUZANNE ROWE

LIMS NO.: 121367-0001/0008
DATE SAMPLED: 18-SEP-1996
DATE SAMPLE REC'D: 18-SEP-1996
PROJECT: BALDWIN PARK

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

Preliminary data were provided on October 1, 1996 at 5:45 P.M. to Suzanne Rowe.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Patty Mata at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Project Manager

cc: Project File

Quanterra Environmental Services

LIMS REPORT KEY

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

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CASE NARRATIVE

LIMS # 121367

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 3.8°C.

Sample containers were received intact. The VOA vials did not contain headspace. Proper preservation of applicable samples was verified upon receipt and documented on the Sample Control worksheet. Sample container labels did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Sample was received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

III. GENERAL CHEMISTRY (BY METHOD: EPA300.0)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
Camp Dresser + McKee	Suzanne Rowe	9-SEPT-96	62382

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page
MW5-01	(714) 752-5452	121367	1 of

City	State	Zip Code	Site Contact	Lab Contact
City of Irwindale	CA		Barbara Wells	Patty Matta

Project Name: Baldwin Park Operable Unit

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed): VOCs EPA 8260; Nitrate/Nitrite EPA 300.0

3.8°C

Special Instructions/ Conditions of Receipt: VOCs 3-40ml VOAs; NO3/NO2 1-250ml

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOCs EPA 8260	Nitrate/Nitrite EPA 300.0
BP-GW-MW50101-091896	9-18-96	0900	X			X			X			X	X
BP-GW-MW50102-091896		1035	X			X			X			X	X
BP-GW-MW50103-091896		1200	X			X			X			X	X
BP-GW-MW50104-091896		1325	X			X			X			X	X
BP-GW-MW50104N-091896		1400	X			X			X			X	X
BP-GW-MW50105-091896		1435	X			X			X			X	X
BP-GW-MW50106-091896		1545	X			X			X			X	X
BP-GW-MW50107-091896		1635	X			X			X			X	X

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [X] Other normal

QC Requirements (Specify): CLP TYPE PAPERWORK

	Date	Time		Date	Time
1. Relinquished By: Shannon Dean Tomlinson - CDM	9/18/96	17:35	1. Received By: [signature]	9/18/96	1735
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION [illegible]TE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - F[illegible]opy

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Camp, Dresser & McKee

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
121367-0001-SA	BP-GW-MW50101-091896	WATER	18 SEP 96	09:00	18 SEP 96
121367-0002-SA	BP-GW-MW50102-091896	WATER	18 SEP 96	10:35	18 SEP 96
121367-0003-SA	BP-GW-MW50103-091896	WATER	18 SEP 96	12:00	18 SEP 96
121367-0004-SA	BP-GW-MW50104-091896	WATER	18 SEP 96	13:25	18 SEP 96
121367-0005-SA	BP-GW-MW50104N-091896	WATER	18 SEP 96	14:00	18 SEP 96
121367-0006-SA	BP-GW-MW50105-091896	WATER	18 SEP 96	14:35	18 SEP 96
121367-0007-SA	BP-GW-MW50106-091896	WATER	18 SEP 96	15:45	18 SEP 96
121367-0008-SA	BP-GW-MW50107-091896	WATER	18 SEP 96	16:35	18 SEP 96

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50101-091896
LAB ID: 121367-0001-SA
Matrix: WATER
Sampled: 18 SEP 96
Received: 18 SEP 96
Authorized: 18 SEP 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	19 SEP 96
Nitrate as N	0.056		1.0	0.050	mg/L	E300.0	NA	19 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50102-091896
LAB ID: 121367-0002-SA
Matrix: WATER
Authorized: 18 SEP 96

Sampled: 18 SEP 96
Prepared: See Below

Received: 18 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	19 SEP 96
Nitrate as N	0.11		1.0	0.050	mg/L	E300.0	NA	19 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50103-091896
LAB ID: 121367-0003-SA
Matrix: WATER
Authorized: 18 SEP 96

Sampled: 18 SEP 96
Prepared: See Below

Received: 18 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	19 SEP 96
Nitrate as N	ND		1.0	0.050	mg/L	E300.0	NA	19 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50104-091896
LAB ID: 121367-0004-SA
Matrix: WATER
Authorized: 18 SEP 96

Sampled: 18 SEP 96
Prepared: See Below

Received: 18 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	19 SEP 96
Nitrate as N	0.060		1.0	0.050	mg/L	E300.0	NA	19 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50104N-091896
LAB ID: 121367-0005-SA
Matrix: WATER
Authorized: 18 SEP 96

Sampled: 18 SEP 96
Prepared: See Below

Received: 18 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	19 SEP 96
Nitrate as N	ND		1.0	0.050	mg/L	E300.0	NA	19 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50105-091896
LAB ID: 121367-0006-SA
Matrix: WATER
Authorized: 18 SEP 96

Sampled: 18 SEP 96
Prepared: See Below

Received: 18 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	19 SEP 96
Nitrate as N	0.36		1.0	0.050	mg/L	E300.0	NA	19 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50106-091896
LAB ID: 121367-0007-SA
Matrix: WATER
Authorized: 18 SEP 96

Sampled: 18 SEP 96
Prepared: See Below

Received: 18 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	19 SEP 96
Nitrate as N	2.4		1.0	0.050	mg/L	E300.0	NA	19 SEP 96

ND = Not Detected

Quanterra
Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50107-091896
LAB ID: 121367-0008-SA
Matrix: WATER
Authorized: 18 SEP 96

Sampled: 18 SEP 96
Prepared: See Below

Received: 18 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	19 SEP 96
Nitrate as N	2.2		1.0	0.050	mg/L	E300.0	NA	19 SEP 96

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50101-091896
LAB ID: 121367-0001-SA
Matrix: WATER Sampled: 18 SEP 96 Received: 18 SEP 96
Authorized: 18 SEP 96 Prepared: 25 SEP 96 Analyzed: 25 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	ND		1.0	0.1	ug/L
Methylene chloride	ND		2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	ND		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.2	ug/L
Chloroform	ND		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	ND		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	0.15	J	1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	ND		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50101-091896
LAB ID: 121367-0001-SA
Matrix: WATER Sampled: 18 SEP 96 Received: 18 SEP 96
Authorized: 18 SEP 96 Prepared: 25 SEP 96 Analyzed: 25 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	0.11	J	1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	108	%	80 - 120
Toluene-d8	94	%	88 - 110
Bromofluorobenzene	93	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50102-091896
LAB ID: 121367-0002-SA
Matrix: WATER Sampled: 18 SEP 96 Received: 18 SEP 96
Authorized: 18 SEP 96 Prepared: 25 SEP 96 Analyzed: 25 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	ND		1.0	0.1	ug/L
Methylene chloride	ND		2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	ND		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.2	ug/L
Chloroform	ND		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	ND		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	0.65	J	1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	0.26	J	1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50102-091896
LAB ID: 121367-0002-SA
Matrix: WATER Sampled: 18 SEP 96 Received: 18 SEP 96
Authorized: 18 SEP 96 Prepared: 25 SEP 96 Analyzed: 25 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	104	%	80 - 120
Toluene-d8	91	%	88 - 110
Bromofluorobenzene	90	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50103-091896
LAB ID: 121367-0003-SA
Matrix: WATER Sampled: 18 SEP 96 Received: 18 SEP 96
Authorized: 18 SEP 96 Prepared: 25 SEP 96 Analyzed: 25 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	0.27	J	1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	ND		1.0	0.1	ug/L
Methylene chloride	ND		2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	ND		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.2	ug/L
Chloroform	ND		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	ND		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	0.44	J	1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	ND		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50103-091896
LAB ID: 121367-0003-SA
Matrix: WATER Sampled: 18 SEP 96 Received: 18 SEP 96
Authorized: 18 SEP 96 Prepared: 25 SEP 96 Analyzed: 25 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	0.15	J	5.0	0.1	ug/L
Methyl t-butyl ether	0.54	J	5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	112	%	80 - 120
Toluene-d8	97	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50104-091896
LAB ID: 121367-0004-SA
Matrix: WATER Sampled: 18 SEP 96 Received: 18 SEP 96
Authorized: 18 SEP 96 Prepared: 25 SEP 96 Analyzed: 25 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	ND		1.0	0.1	ug/L
Methylene chloride	0.63	J	2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	ND		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.2	ug/L
Chloroform	ND		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	ND		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	0.79	J	1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	ND		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50104-091896
LAB ID: 121367-0004-SA
Matrix: WATER Sampled: 18 SEP 96 Received: 18 SEP 96
Authorized: 18 SEP 96 Prepared: 25 SEP 96 Analyzed: 25 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	108	%	80 - 120
Toluene-d8	93	%	88 - 110
Bromofluorobenzene	91	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50104N-091896
LAB ID: 121367-0005-SA
Matrix: WATER Sampled: 18 SEP 96 Received: 18 SEP 96
Authorized: 18 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	ND		1.0	0.1	ug/L
Methylene chloride	0.35	J	2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	ND		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.2	ug/L
Chloroform	ND		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	ND		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	ND		1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	ND		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50104N-091896
LAB ID: 121367-0005-SA
Matrix: WATER Sampled: 18 SEP 96 Received: 18 SEP 96
Authorized: 18 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	105	%	80 - 120
Toluene-d8	91	%	88 - 110
Bromofluorobenzene	89	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50105-091896
LAB ID: 121367-0006-SA
Matrix: WATER — Sampled: 18 SEP 96 — Received: 18 SEP 96
Authorized: 18 SEP 96 — Prepared: 26 SEP 96 — Analyzed: 26 SEP 96
Instrument: GC/MS-MC — Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	ND		1.0	0.1	ug/L
Methylene chloride	ND		2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	ND		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.2	ug/L
Chloroform	ND		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	ND		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	0.57	J	1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	ND		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50105-091896
LAB ID: 121367-0006-SA
Matrix: WATER Sampled: 18 SEP 96 Received: 18 SEP 96
Authorized: 18 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	0.32	J	5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	108	%	80 - 120
Toluene-d8	93	%	88 - 110
Bromofluorobenzene	92	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50106-091896
LAB ID: 121367-0007-SA
Matrix: WATER Sampled: 18 SEP 96 Received: 18 SEP 96
Authorized: 18 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	ND		1.0	0.1	ug/L
Methylene chloride	0.47	J	2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	ND		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.2	ug/L
Chloroform	0.37	J	1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	12		0.50	0.2	ug/L
1,2-Dichloroethane	ND		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	0.35	J	1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	ND		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50106-091896
LAB ID: 121367-0007-SA
Matrix: WATER Sampled: 18 SEP 96 Received: 18 SEP 96
Authorized: 18 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	119	%	80 - 120
Toluene-d8	95	%	88 - 110
Bromofluorobenzene	97	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50107-091896
LAB ID: 121367-0008-SA
Matrix: WATER Sampled: 18 SEP 96 Received: 18 SEP 96
Authorized: 18 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	ND		1.0	0.1	ug/L
Methylene chloride	0.35	J	2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	ND		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	0.41	J	1.0	0.2	ug/L
Chloroform	1.2		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	13		0.50	0.2	ug/L
1,2-Dichloroethane	1.5		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	46		1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	0.24	J	1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50107-091896
LAB ID: 121367-0008-SA
Matrix: WATER Sampled: 18 SEP 96 Received: 18 SEP 96
Authorized: 18 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	117	%	80 - 120
Toluene-d8	94	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Wet Chemistry Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121367-0001-SA	AQUEOUS	QNO3-A		19 SEP 96-AX	20 SEP 96-AA
121367-0001-SA	AQUEOUS	QNO2-A		19 SEP 96-AX	20 SEP 96-AA
121367-0002-SA	AQUEOUS	QNO3-A		19 SEP 96-AX	20 SEP 96-AA
121367-0002-SA	AQUEOUS	QNO2-A		19 SEP 96-AX	20 SEP 96-AA
121367-0003-SA	AQUEOUS	QNO3-A		19 SEP 96-AX	20 SEP 96-AA
121367-0003-SA	AQUEOUS	QNO2-A		19 SEP 96-AX	20 SEP 96-AA
121367-0004-SA	AQUEOUS	QNO3-A		19 SEP 96-AX	20 SEP 96-AA
121367-0004-SA	AQUEOUS	QNO2-A		19 SEP 96-AX	20 SEP 96-AA
121367-0005-SA	AQUEOUS	QNO3-A		19 SEP 96-AX	20 SEP 96-AA
121367-0005-SA	AQUEOUS	QNO2-A		19 SEP 96-AX	20 SEP 96-AA
121367-0006-SA	AQUEOUS	QNO3-A		19 SEP 96-AX	20 SEP 96-AA
121367-0006-SA	AQUEOUS	QNO2-A		19 SEP 96-AX	20 SEP 96-AA
121367-0007-SA	AQUEOUS	QNO3-A		19 SEP 96-AX	20 SEP 96-AA
121367-0007-SA	AQUEOUS	QNO2-A		19 SEP 96-AX	20 SEP 96-AA
121367-0008-SA	AQUEOUS	QNO3-A		19 SEP 96-AX	20 SEP 96-AA
121367-0008-SA	AQUEOUS	QNO2-A		19 SEP 96-AX	20 SEP 96-AA

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 121367

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 19 SEP 96
QC Run: 19 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrate as N	4.00	4.08	102	85-115

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 19 SEP 96
QC Run: 19 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrite as N	4.00	4.01	100	85-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 121367

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
Sample: 121423-0006
MS Run: 20 SEP 96-AA
Units: mg/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Nitrate as N	8.12	18.4	18.6	10.0	103	105	1.8	85-115	20

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS
Sample: 121423-0006
MS Run: 20 SEP 96-AA
Units: mg/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Nitrite as N	0.276	9.40	10.0	10.0	91	97	6.3	85-115	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Wet Chemistry Analysis and Preparation
Project: 121367

Test: Q-NO3-IC-A Method 300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 19 SEP 96-AX Date Analyzed: 19 SEP 96

Analyte	Result	Units	Reporting Limit
Nitrate as N	ND	mg/L	0.050

Test: Q-NO2-IC-A Method 300.0 - Nitrite as N, Ion Chomatography
Matrix: AQUEOUS
QC Run: 19 SEP 96-AX Date Analyzed: 19 SEP 96

Analyte	Result	Units	Reporting Limit
Nitrite as N	ND	mg/L	0.050

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121367-0001-SA	AQUEOUS	8260-A		25 SEP 96-BCX	25 SEP 96-BD
121367-0002-SA	AQUEOUS	8260-A		25 SEP 96-BCX	25 SEP 96-BD
121367-0003-SA	AQUEOUS	8260-A		25 SEP 96-BCX	25 SEP 96-BD
121367-0004-SA	AQUEOUS	8260-A		25 SEP 96-BCX	25 SEP 96-BD
121367-0005-SA	AQUEOUS	8260-A		25 SEP 96-BCX	25 SEP 96-BD
121367-0006-SA	AQUEOUS	8260-A		25 SEP 96-BCX	25 SEP 96-BD
121367-0007-SA	AQUEOUS	8260-A		25 SEP 96-BCX	25 SEP 96-BD
121367-0008-SA	AQUEOUS	8260-A		25 SEP 96-BCX	25 SEP 96-BD

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121367

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 25 SEP 96
QC Run: 25 SEP 96-BCX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	8.97	90	64-124
Benzene	10.0	8.01	80	67-127
Trichloroethene	10.0	9.17	92	60-120
Toluene	10.0	8.60	86	72-132
Chlorobenzene	10.0	9.13	91	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.3	103	80-120
Toluene-d8	10.0	8.78	88	88-110
Bromofluorobenzene	10.0	8.93	89	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 121367

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 121458-0002
MS Run: 25 SEP 96-BD
Units: ug/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	ND	10.7	11.3	10.0	107	113	5.5	64-124	25
Benzene	0.192 J	10.3	10.3	10.0	101	101	0.0	67-127	25
Trichloroethene	0.294 J	10.7	10.4	10.0	104	101	2.9	60-120	25
Toluene	ND	10.3	10.4	10.0	103	104	0.9	72-132	25
Chlorobenzene	ND	10.7	10.9	10.0	107	109	1.9	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	98	103	97	80-120
Toluene-d8	100	105	101	88-110
Bromofluorobenzene	92	101	94	86-115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121367

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 25 SEP 96-BCX Date Analyzed: 25 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.3	103	80-120
Toluene-d8	10.0	9.39	94	88-110
Bromofluorobenzene	10.0	8.85	88	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121367

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 25 SEP 96-BX QC Run: 25 SEP 96-BCX Date Analyzed: 25 SEP 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propyl benzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1
Isopropyltoluene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121367

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 25 SEP 96-BX QC Run: 25 SEP 96-BCX Date Analyzed: 25 SEP 96 (cont.)

Analyte	Result		Units	RL	MDL
1,3-Dichlorobenzene	ND		ug/L	1.0	0.1
1,4-Dichlorobenzene	ND		ug/L	1.0	0.1
n-Butylbenzene	ND		ug/L	1.0	0.2
1,2-Dichlorobenzene	ND		ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND		ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND		ug/L	1.0	0.2
Hexachlorobutadiene	ND		ug/L	1.0	0.1
Naphthalene	0.36	J	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND		ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND		ug/L	10	0.6
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.1
Carbon disulfide	ND		ug/L	5.0	0.1
Methyl t-butyl ether	ND		ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		ug/L	5.0	1.0

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Incorporated
1721 South Grand Avenue
Santa Ana, California 92705

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Quanterra
Environmental Services

October 18, 1996

CAMP, DRESSER & McKEE
18881 VON KARMAN, SUITE 650
IRVINE, CA 92612
ATTN: MS. SUZANNE ROWE

LIMS NO.: 121423-0001/0011
DATE SAMPLED: 19-SEP-1996
DATE SAMPLE REC'D: 19-SEP-1996
PROJECT: BALDWIN PARK

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

Preliminary data were provided on October 8, 1996 at 1:25 P.M. to Suzanne Rowe.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Patty Mata at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Project Manager

cc: Project File

Quanterra Environmental Services

LIMS REPORT KEY

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

efer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

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Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries

CASE NARRATIVE

LIMS # 121423

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 4.1 °C.

Sample containers were received intact. The VOA vials did not contain headspace. Proper preservation of applicable samples was verified upon receipt and documented on the Sample Control worksheet. Sample container labels did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Sample was received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria with the exception of the following:
Matrix spike/matrix spike duplicate recoveries were outside the acceptance limits for TCE. However, the acceptable LCS analysis data indicated that the analytical system was operating within control and this condition is most likely due to matrix interference.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

III. GENERAL CHEMISTRY (BY METHOD: EPA300.0)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

[redacted]

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
CDM	Suzanne Rowe	9-19-96	62383

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page
MW5-01 / MW5-13	714-752-5452 / 714-752-1307	121423	1 of 1

City	State	Zip Code	Site Contact	Lab Contact
Irwindale	CA		B. Wells	P. Mata

Project Name: Baldwin Park OU 3rd Quarter Sampling

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

4.1°C

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	EPA 8260-VOCs	EPA 300-NO3, NO2	MS/MSD	Special Instructions/ Conditions of Receipt
BP-GW-MW50108-091996	9-19-96	0925	X			X			X			X	X		3-40ml VOAs, 1-250ml poly
~~BP-GW~~-MW50109-091996	↓	1010	X			X			X			X	X		" "
BP-GW-MW50110-091996		1100	X			X			X			X	X		" "
BP-GW-MW50111-091996		1215	X			X			X			X	X		" "
BP-GW-MW50111N-091996		1230	X			X			X			X	X		" "
BP-GW-MW50112-091996		1140	X			X			X			X	X	X	5-40ml VOAs, 1-250ml poly
BP-GW-MW50113-091996		1245	X			X			X			X	X		3-40ml VOAs, 1-250ml poly
BP-GW-MW50113K-091996		1315	X			X			X			X	X		" "
BP-GW-MW51301-091996		1500	X						X			X			3-40ml VOAs
BP-GW-MW51302-091996		1550	X						X			X			" "
BP-GW-MW51303-091996	↓	1635	X						X			X			" "

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [X] 14 Days [ ] 21 Days [ ] Other _____

QC Requirements (Specify): CLP-like Deliverables

	Date	Time		Date	Time
1. Relinquished By: Sharon Dunn Tanchell	9/19/96	5:50	1. Received By: [signature]	9/19/96	1750
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Camp, Dresser & McKee

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
121423-0001-SA	BP-GW-MW50108-091996	WATER	19 SEP 96	09:25	19 SEP 96
121423-0001-DL	BP-GW-MW50108-091996	WATER	19 SEP 96	09:25	19 SEP 96
121423-0002-SA	BP-GW-MW50109-091996	WATER	19 SEP 96	10:10	19 SEP 96
121423-0002-DL	BP-GW-MW50109-091996	WATER	19 SEP 96	10:10	19 SEP 96
121423-0003-SA	BP-GW-MW50110-091996	WATER	19 SEP 96	11:00	19 SEP 96
121423-0003-DL	BP-GW-MW50110-091996	WATER	19 SEP 96	11:00	19 SEP 96
121423-0004-SA	BP-GW-MW50111-091996	WATER	19 SEP 96	12:15	19 SEP 96
121423-0004-DL	BP-GW-MW50111-091996	WATER	19 SEP 96	12:15	19 SEP 96
121423-0005-SA	BP-GW-MW50111N-091996	WATER	19 SEP 96	12:30	19 SEP 96
121423-0006-SA	BP-GW-MW50112-091996	WATER	19 SEP 96	11:40	19 SEP 96
121423-0006-MS	BP-GW-MW50112-091996	WATER	19 SEP 96	11:40	19 SEP 96
121423-0006-SD	BP-GW-MW50112-091996	WATER	19 SEP 96	11:40	19 SEP 96
121423-0007-SA	BP-GW-MW50113-091996	WATER	19 SEP 96	12:45	19 SEP 96
121423-0008-SA	BP-GW-MW50113K-091996	WATER	19 SEP 96	13:15	19 SEP 96
121423-0009-SA	BP-GW-MW51301-091996	WATER	19 SEP 96	15:00	19 SEP 96
121423-0010-SA	BP-GW-MW51302-091996	WATER	19 SEP 96	15:50	19 SEP 96
121423-0010-DL	BP-GW-MW51302-091996	WATER	19 SEP 96	15:50	19 SEP 96
121423-0011-SA	BP-GW-MW51303-091996	WATER	19 SEP 96	16:35	19 SEP 96
121423-0011-DL	BP-GW-MW51303-091996	WATER	19 SEP 96	16:35	19 SEP 96

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50108-091996
LAB ID: 121423-0001-SA
Matrix: WATER
Authorized: 20 SEP 96

Sampled: 19 SEP 96
Prepared: See Below

Received: 19 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	20 SEP 96
Nitrate as N	4.9		2.0	0.10	mg/L	E300.0	NA	20 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50109-091996
LAB ID: 121423-0002-SA
Matrix: WATER
Authorized: 20 SEP 96

Sampled: 19 SEP 96
Prepared: See Below

Received: 19 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	20 SEP 96
Nitrate as N	6.4		2.0	0.10	mg/L	E300.0	NA	20 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50110-091996
LAB ID: 121423-0003-SA
Matrix: WATER
Authorized: 20 SEP 96

Sampled: 19 SEP 96
Prepared: See Below

Received: 19 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	20 SEP 96
Nitrate as N	6.0		2.0	0.10	mg/L	E300.0	NA	20 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50111-091996
LAB ID: 121423-0004-SA
Matrix: WATER
Authorized: 20 SEP 96

Sampled: 19 SEP 96
Prepared: See Below

Received: 19 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	6.2		2.0	0.10	mg/L	E300.0	NA	20 SEP 96
Nitrate as N	2.3		1.0	0.050	mg/L	E300.0	NA	20 SEP 96

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50111N-091996
LAB ID: 121423-0005-SA
Matrix: WATER
Authorized: 20 SEP 96

Sampled: 19 SEP 96
Prepared: See Below

Received: 19 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	20 SEP 96
Nitrate as N	ND		1.0	0.050	mg/L	E300.0	NA	20 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50112-091996
LAB ID: 121423-0006-SA
Matrix: WATER
Sampled: 19 SEP 96
Received: 19 SEP 96
Authorized: 20 SEP 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	0.28		1.0	0.050	mg/L	E300.0	NA	20 SEP 96
Nitrate as N	8.1		5.0	0.25	mg/L	E300.0	NA	20 SEP 96

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50113-091996
LAB ID: 121423-0007-SA
Matrix: WATER
Authorized: 20 SEP 96

Sampled: 19 SEP 96
Prepared: See Below

Received: 19 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	20 SEP 96
Nitrate as N	ND		1.0	0.050	mg/L	E300.0	NA	20 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50113K-091996
LAB ID: 121423-0008-SA
Matrix: WATER
Authorized: 20 SEP 96

Sampled: 19 SEP 96
Prepared: See Below

Received: 19 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	20 SEP 96
Nitrate as N	ND		1.0	0.050	mg/L	E300.0	NA	20 SEP 96

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50108-091996
LAB ID: 121423-0001-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	1.5		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	0.30	J	1.0	0.2	ug/L
1,1-Dichloroethene	0.54	J	1.0	0.1	ug/L
Methylene chloride	0.84	J	2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	0.59	J	1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	3.7		1.0	0.2	ug/L
Chloroform	5.8		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	7.1		0.50	0.2	ug/L
1,2-Dichloroethane	7.0		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	250	E	1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	4.4		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50108-091996
LAB ID: 121423-0001-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	115	%	80 - 120
Toluene-d8	92	%	88 - 110
Bromofluorobenzene	92	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50108-091996
LAB ID: 121423-0001-DL
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 27 SEP 96 Analyzed: 27 SEP 96
Instrument: GC/MS-MD Dilution: 5.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	1.5	J	5.0	0.1	ug/L
Chloromethane	ND		5.0	0.3	ug/L
Vinyl chloride	ND		2.5	0.2	ug/L
Bromomethane	ND		5.0	0.1	ug/L
Chloroethane	ND		5.0	0.3	ug/L
Trichlorofluoromethane	ND		5.0	0.2	ug/L
1,1-Dichloroethene	ND		5.0	0.1	ug/L
Methylene chloride	0.99	J	10	0.1	ug/L
trans-1,2-Dichloroethene	ND		5.0	0.1	ug/L
1,1-Dichloroethane	0.66	J	5.0	0.1	ug/L
2,2-Dichloropropane	ND		5.0	0.2	ug/L
cis-1,2-Dichloroethene	4.7	J	5.0	0.2	ug/L
Chloroform	5.8		5.0	0.1	ug/L
Bromochloromethane	ND		5.0	0.1	ug/L
1,1,1-Trichloroethane	ND		5.0	0.1	ug/L
1,1-Dichloropropene	ND		5.0	0.1	ug/L
Carbon tetrachloride	5.0		2.5	0.2	ug/L
1,2-Dichloroethane	5.0		2.5	0.1	ug/L
Benzene	ND		2.5	0.1	ug/L
Trichloroethene	270		5.0	0.1	ug/L
1,2-Dichloropropane	ND		5.0	0.1	ug/L
Bromodichloromethane	ND		5.0	0.1	ug/L
Dibromomethane	ND		5.0	0.2	ug/L
Toluene	ND		5.0	0.2	ug/L
1,1,2-Trichloroethane	ND		5.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		5.0	0.2	ug/L
1,3-Dichloropropane	ND		5.0	0.2	ug/L
Tetrachloroethene	4.8	J	5.0	0.2	ug/L
Dibromochloromethane	ND		5.0	0.2	ug/L
Chlorobenzene	ND		5.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		5.0	0.1	ug/L
Ethylbenzene	ND		5.0	0.1	ug/L
Xylenes (total)	ND		5.0	0.3	ug/L
Styrene	ND		5.0	0.1	ug/L
Bromoform	ND		5.0	0.1	ug/L
1-Methylethylbenzene	ND		5.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		5.0	0.1	ug/L
1,2,3-Trichloropropane	ND		5.0	0.4	ug/L
n-Propyl benzene	ND		5.0	0.2	ug/L
Bromobenzene	ND		5.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		5.0	0.1	ug/L
2-Chlorotoluene	ND		5.0	0.3	ug/L
4-Chlorotoluene	ND		5.0	0.3	ug/L
tert-Butylbenzene	ND		5.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		5.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50108-091996
LAB ID: 121423-0001-DL
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 27 SEP 96 Analyzed: 27 SEP 96
Instrument: GC/MS-MD Dilution: 5.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		5.0	0.1	ug/L
Isopropyltoluene	ND		5.0	0.1	ug/L
1,3-Dichlorobenzene	ND		5.0	0.1	ug/L
1,4-Dichlorobenzene	ND		5.0	0.1	ug/L
n-Butylbenzene	ND		5.0	0.2	ug/L
1,2-Dichlorobenzene	ND		5.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		5.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		5.0	0.2	ug/L
Hexachlorobutadiene	ND		5.0	0.1	ug/L
Naphthalene	ND		5.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		5.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		50	0.6	ug/L
cis-1,3-Dichloropropene	ND		2.5	0.2	ug/L
trans-1,3-Dichloropropene	ND		2.5	0.1	ug/L
Carbon disulfide	ND		25	0.1	ug/L
Methyl t-butyl ether	ND		25	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	90	%	80 - 120
Toluene-d8	97	%	88 - 110
Bromofluorobenzene	91	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50109-091996
LAB ID: 121423-0002-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	7.2		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	0.57	J	1.0	0.2	ug/L
1,1-Dichloroethene	1.8		1.0	0.1	ug/L
Methylene chloride	1.5	J	2.0	0.1	ug/L
trans-1,2-Dichloroethene	0.26	J	1.0	0.1	ug/L
1,1-Dichloroethane	3.1		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	11		1.0	0.2	ug/L
Chloroform	16		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	5.1		0.50	0.2	ug/L
1,2-Dichloroethane	9.5		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	300	E	1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	14		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50109-091996
LAB ID: 121423-0002-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	107	%	80 - 120
Toluene-d8	104	%	88 - 110
Bromofluorobenzene	100	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50109-091996
LAB ID: 121423-0002-DL
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 27 SEP 96 Analyzed: 27 SEP 96
Instrument: GC/MS-MD Dilution: 5.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	6.1		5.0	0.1	ug/L
Chloromethane	ND		5.0	0.3	ug/L
Vinyl chloride	ND		2.5	0.2	ug/L
Bromomethane	ND		5.0	0.1	ug/L
Chloroethane	ND		5.0	0.3	ug/L
Trichlorofluoromethane	ND		5.0	0.2	ug/L
1,1-Dichloroethene	2.4	J	5.0	0.1	ug/L
Methylene chloride	1.7	J	10	0.1	ug/L
trans-1,2-Dichloroethene	ND		5.0	0.1	ug/L
1,1-Dichloroethane	2.3	J	5.0	0.1	ug/L
2,2-Dichloropropane	ND		5.0	0.2	ug/L
cis-1,2-Dichloroethene	8.2		5.0	0.2	ug/L
Chloroform	11		5.0	0.1	ug/L
Bromochloromethane	ND		5.0	0.1	ug/L
1,1,1-Trichloroethane	ND		5.0	0.1	ug/L
1,1-Dichloropropene	ND		5.0	0.1	ug/L
Carbon tetrachloride	3.4		2.5	0.2	ug/L
1,2-Dichloroethane	7.2		2.5	0.1	ug/L
Benzene	ND		2.5	0.1	ug/L
Trichloroethene	240		5.0	0.1	ug/L
1,2-Dichloropropane	ND		5.0	0.1	ug/L
Bromodichloromethane	ND		5.0	0.1	ug/L
Dibromomethane	ND		5.0	0.2	ug/L
Toluene	ND		5.0	0.2	ug/L
1,1,2-Trichloroethane	ND		5.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		5.0	0.2	ug/L
1,3-Dichloropropane	ND		5.0	0.2	ug/L
Tetrachloroethene	9.7		5.0	0.2	ug/L
Dibromochloromethane	ND		5.0	0.2	ug/L
Chlorobenzene	ND		5.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		5.0	0.1	ug/L
Ethylbenzene	ND		5.0	0.1	ug/L
Xylenes (total)	ND		5.0	0.3	ug/L
Styrene	ND		5.0	0.1	ug/L
Bromoform	ND		5.0	0.1	ug/L
1-Methylethylbenzene	ND		5.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		5.0	0.1	ug/L
1,2,3-Trichloropropane	ND		5.0	0.4	ug/L
n-Propyl benzene	ND		5.0	0.2	ug/L
Bromobenzene	ND		5.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		5.0	0.1	ug/L
2-Chlorotoluene	ND		5.0	0.3	ug/L
4-Chlorotoluene	ND		5.0	0.3	ug/L
tert-Butylbenzene	ND		5.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		5.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50109-091996
LAB ID: 121423-0002-DL
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 27 SEP 96 Analyzed: 27 SEP 96
Instrument: GC/MS-MD Dilution: 5.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		5.0	0.1	ug/L
Isopropyltoluene	ND		5.0	0.1	ug/L
1,3-Dichlorobenzene	ND		5.0	0.1	ug/L
1,4-Dichlorobenzene	ND		5.0	0.1	ug/L
n-Butylbenzene	ND		5.0	0.2	ug/L
1,2-Dichlorobenzene	ND		5.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		5.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		5.0	0.2	ug/L
Hexachlorobutadiene	ND		5.0	0.1	ug/L
Naphthalene	ND		5.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		5.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		50	0.6	ug/L
cis-1,3-Dichloropropene	ND		2.5	0.2	ug/L
trans-1,3-Dichloropropene	ND		2.5	0.1	ug/L
Carbon disulfide	ND		25	0.1	ug/L
Methyl t-butyl ether	ND		25	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	91	%	80 - 120
Toluene-d8	98	%	88 - 110
Bromofluorobenzene	93	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50110-091996
LAB ID: 121423-0003-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 27 SEP 96 Analyzed: 27 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	5.5		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	0.33	J	1.0	0.2	ug/L
1,1-Dichloroethene	0.90	J	1.0	0.1	ug/L
Methylene chloride	1.7	J	2.0	0.1	ug/L
trans-1,2-Dichloroethene	0.22	J	1.0	0.1	ug/L
1,1-Dichloroethane	2.9		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	9.2		1.0	0.2	ug/L
Chloroform	8.9		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	1.9		0.50	0.2	ug/L
1,2-Dichloroethane	3.9		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	130	E	1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	7.8		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50110-091996
LAB ID: 121423-0003-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 27 SEP 96 Analyzed: 27 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	96	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	97	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50110-091996
LAB ID: 121423-0003-DL
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 27 SEP 96 Analyzed: 27 SEP 96
Instrument: GC/MS-MD Dilution: 2.5

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	7.5		2.5	0.1	ug/L
Chloromethane	ND		2.5	0.3	ug/L
Vinyl chloride	ND		1.2	0.2	ug/L
Bromomethane	ND		2.5	0.1	ug/L
Chloroethane	ND		2.5	0.3	ug/L
Trichlorofluoromethane	ND		2.5	0.2	ug/L
1,1-Dichloroethene	1.5	J	2.5	0.1	ug/L
Methylene chloride	1.9	J	5.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		2.5	0.1	ug/L
1,1-Dichloroethane	3.4		2.5	0.1	ug/L
2,2-Dichloropropane	ND		2.5	0.2	ug/L
cis-1,2-Dichloroethene	11		2.5	0.2	ug/L
Chloroform	10		2.5	0.1	ug/L
Bromochloromethane	ND		2.5	0.1	ug/L
1,1,1-Trichloroethane	ND		2.5	0.1	ug/L
1,1-Dichloropropene	ND		2.5	0.1	ug/L
Carbon tetrachloride	2.3		1.2	0.2	ug/L
1,2-Dichloroethane	4.2		1.2	0.1	ug/L
Benzene	ND		1.2	0.1	ug/L
Trichloroethene	160		2.5	0.1	ug/L
1,2-Dichloropropane	ND		2.5	0.1	ug/L
Bromodichloromethane	ND		2.5	0.1	ug/L
Dibromomethane	ND		2.5	0.2	ug/L
Toluene	ND		2.5	0.2	ug/L
1,1,2-Trichloroethane	ND		2.5	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		2.5	0.2	ug/L
1,3-Dichloropropane	ND		2.5	0.2	ug/L
Tetrachloroethene	9.7		2.5	0.2	ug/L
Dibromochloromethane	ND		2.5	0.2	ug/L
Chlorobenzene	ND		2.5	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		2.5	0.1	ug/L
Ethylbenzene	ND		2.5	0.1	ug/L
Xylenes (total)	ND		2.5	0.3	ug/L
Styrene	ND		2.5	0.1	ug/L
Bromoform	ND		2.5	0.1	ug/L
1-Methylethylbenzene	ND		2.5	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		2.5	0.1	ug/L
1,2,3-Trichloropropane	ND		2.5	0.4	ug/L
n-Propyl benzene	ND		2.5	0.2	ug/L
Bromobenzene	ND		2.5	0.2	ug/L
1,3,5-Trimethylbenzene	ND		2.5	0.1	ug/L
2-Chlorotoluene	ND		2.5	0.3	ug/L
4-Chlorotoluene	ND		2.5	0.3	ug/L
tert-Butylbenzene	ND		2.5	0.1	ug/L
1,2,4-Trimethylbenzene	ND		2.5	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50110-091996
LAB ID: 121423-0003-DL
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 27 SEP 96 Analyzed: 27 SEP 96
Instrument: GC/MS-MD Dilution: 2.5

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		2.5	0.1	ug/L
Isopropyltoluene	ND		2.5	0.1	ug/L
1,3-Dichlorobenzene	ND		2.5	0.1	ug/L
1,4-Dichlorobenzene	ND		2.5	0.1	ug/L
n-Butylbenzene	ND		2.5	0.2	ug/L
1,2-Dichlorobenzene	ND		2.5	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.5	0.6	ug/L
1,2,4-Trichlorobenzene	ND		2.5	0.2	ug/L
Hexachlorobutadiene	ND		2.5	0.1	ug/L
Naphthalene	ND		2.5	0.3	ug/L
1,2,3-Trichlorobenzene	ND		2.5	0.2	ug/L
2-Chloroethyl vinyl ether	ND		25	0.6	ug/L
cis-1,3-Dichloropropene	ND		1.2	0.2	ug/L
trans-1,3-Dichloropropene	ND		1.2	0.1	ug/L
Carbon disulfide	ND		12	0.1	ug/L
Methyl t-butyl ether	ND		12	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	90	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	93	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50111-091996
LAB ID: 121423-0004-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 27 SEP 96 Analyzed: 27 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	1.5		1.0	0.1	ug/L
Chloromethane	3.0		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	7.9		1.0	0.1	ug/L
Methylene chloride	1.3	J	2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	2.1		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	7.8		1.0	0.2	ug/L
Chloroform	9.3		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	0.88	J	1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	1.4		0.50	0.2	ug/L
1,2-Dichloroethane	2.8		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	140	E	1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	37		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50111-091996
LAB ID: 121423-0004-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 27 SEP 96 Analyzed: 27 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	0.14	J	5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	93	%	80 - 120
Toluene-d8	99	%	88 - 110
Bromofluorobenzene	93	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50111-091996
LAB ID: 121423-0004-DL
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 30 SEP 96 Analyzed: 30 SEP 96
Instrument: GC/MS-MD Dilution: 2.5

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	1.6	J	2.5	0.1	ug/L
Chloromethane	0.84	J	2.5	0.3	ug/L
Vinyl chloride	ND		1.2	0.2	ug/L
Bromomethane	ND		2.5	0.1	ug/L
Chloroethane	ND		2.5	0.3	ug/L
Trichlorofluoromethane	ND		2.5	0.2	ug/L
1,1-Dichloroethene	8.3		2.5	0.1	ug/L
Methylene chloride	0.55	J	5.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		2.5	0.1	ug/L
1,1-Dichloroethane	2.3	J	2.5	0.1	ug/L
2,2-Dichloropropane	ND		2.5	0.2	ug/L
cis-1,2-Dichloroethene	8.7		2.5	0.2	ug/L
Chloroform	9.5		2.5	0.1	ug/L
Bromochloromethane	ND		2.5	0.1	ug/L
1,1,1-Trichloroethane	0.93	J	2.5	0.1	ug/L
1,1-Dichloropropene	ND		2.5	0.1	ug/L
Carbon tetrachloride	1.4	J	1.2	0.2	ug/L
1,2-Dichloroethane	2.5		1.2	0.1	ug/L
Benzene	ND		1.2	0.1	ug/L
Trichloroethene	150		2.5	0.1	ug/L
1,2-Dichloropropane	ND		2.5	0.1	ug/L
Bromodichloromethane	ND		2.5	0.1	ug/L
Dibromomethane	ND		2.5	0.2	ug/L
Toluene	0.21	J	2.5	0.2	ug/L
1,1,2-Trichloroethane	ND		2.5	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		2.5	0.2	ug/L
1,3-Dichloropropane	ND		2.5	0.2	ug/L
Tetrachloroethene	36		2.5	0.2	ug/L
Dibromochloromethane	ND		2.5	0.2	ug/L
Chlorobenzene	ND		2.5	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		2.5	0.1	ug/L
Ethylbenzene	ND		2.5	0.1	ug/L
Xylenes (total)	ND		2.5	0.3	ug/L
Styrene	ND		2.5	0.1	ug/L
Bromoform	ND		2.5	0.1	ug/L
1-Methylethylbenzene	ND		2.5	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		2.5	0.1	ug/L
1,2,3-Trichloropropane	ND		2.5	0.4	ug/L
n-Propyl benzene	ND		2.5	0.2	ug/L
Bromobenzene	ND		2.5	0.2	ug/L
1,3,5-Trimethylbenzene	ND		2.5	0.1	ug/L
2-Chlorotoluene	ND		2.5	0.3	ug/L
4-Chlorotoluene	ND		2.5	0.3	ug/L
tert-Butylbenzene	ND		2.5	0.1	ug/L
1,2,4-Trimethylbenzene	0.19	J	2.5	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50111-091996
LAB ID: 121423-0004-DL
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 30 SEP 96 Analyzed: 30 SEP 96
Instrument: GC/MS-MD Dilution: 2.5

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		2.5	0.1	ug/L
Isopropyltoluene	ND		2.5	0.1	ug/L
1,3-Dichlorobenzene	ND		2.5	0.1	ug/L
1,4-Dichlorobenzene	ND		2.5	0.1	ug/L
n-Butylbenzene	ND		2.5	0.2	ug/L
1,2-Dichlorobenzene	ND		2.5	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.5	0.6	ug/L
1,2,4-Trichlorobenzene	ND		2.5	0.2	ug/L
Hexachlorobutadiene	ND		2.5	0.1	ug/L
Naphthalene	ND		2.5	0.3	ug/L
1,2,3-Trichlorobenzene	ND		2.5	0.2	ug/L
2-Chloroethyl vinyl ether	ND		25	0.6	ug/L
cis-1,3-Dichloropropene	ND		1.2	0.2	ug/L
trans-1,3-Dichloropropene	ND		1.2	0.1	ug/L
Carbon disulfide	ND		12	0.1	ug/L
Methyl t-butyl ether	ND		12	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	86	%	80 - 120
Toluene-d8	99	%	88 - 110
Bromofluorobenzene	91	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50111N-091996
LAB ID: 121423-0005-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	ND		1.0	0.1	ug/L
Methylene chloride	1.4	J	2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	ND		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.2	ug/L
Chloroform	ND		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	ND		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	0.60	J	1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	ND		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50111N-091996
LAB ID: 121423-0005-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	112	%	80 - 120
Toluene-d8	93	%	88 - 110
Bromofluorobenzene	93	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50112-091996
LAB ID: 121423-0006-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	2.3		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	2.4		1.0	0.1	ug/L
Methylene chloride	0.99	J	2.0	0.1	ug/L
trans-1,2-Dichloroethene	0.14	J	1.0	0.1	ug/L
1,1-Dichloroethane	1.8		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	5.9		1.0	0.2	ug/L
Chloroform	3.4		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	0.39	J	0.50	0.2	ug/L
1,2-Dichloroethane	0.96	J	0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	50		1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	12		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50112-091996
LAB ID: 121423-0006-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	87	%	80 - 120
Toluene-d8	100	%	88 - 110
Bromofluorobenzene	93	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50113-091996
LAB ID: 121423-0007-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	0.23	J	1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	0.17	J	1.0	0.1	ug/L
Methylene chloride	0.67	J	2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	0.44	J	1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	2.6		1.0	0.2	ug/L
Chloroform	0.32	J	1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	ND		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	7.8		1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	2.6		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	0.13	J	1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	0.22	J	1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50113-091996
LAB ID: 121423-0007-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	111	%	80 - 120
Toluene-d8	94	%	88 - 110
Bromofluorobenzene	94	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50113K-091996
LAB ID: 121423-0008-SA
Matrix: WATER — Sampled: 19 SEP 96 — Received: 19 SEP 96
Authorized: 20 SEP 96 — Prepared: 26 SEP 96 — Analyzed: 26 SEP 96
Instrument: GC/MS-MC — Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	0.26	J	1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	0.19	J	1.0	0.1	ug/L
Methylene chloride	1.2	J	2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	0.40	J	1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	2.4		1.0	0.2	ug/L
Chloroform	0.30	J	1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	ND		0.50	0.2	ug/L
1,2-Dichloroethane	ND		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	7.9		1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	2.8		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	0.18	J	1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50113K-091996
LAB ID: 121423-0008-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	113	%	80 - 120
Toluene-d8	94	%	88 - 110
Bromofluorobenzene	95	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51301-091996
LAB ID: 121423-0009-SA
Matrix: WATER — Sampled: 19 SEP 96 — Received: 19 SEP 96
Authorized: 20 SEP 96 — Prepared: 26 SEP 96 — Analyzed: 26 SEP 96
Instrument: GC/MS-MC — Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	ND		1.0	0.1	ug/L
Methylene chloride	0.61	J	2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	ND		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	0.32	J	1.0	0.2	ug/L
Chloroform	0.42	J	1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	0.17	J	0.50	0.2	ug/L
1,2-Dichloroethane	0.23	J	0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	13		1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	7.1		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51301-091996
LAB ID: 121423-0009-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	111	%	80 - 120
Toluene-d8	93	%	88 - 110
Bromofluorobenzene	93	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51302-091996
LAB ID: 121423-0010-SA
Matrix: WATER — Sampled: 19 SEP 96 — Received: 19 SEP 96
Authorized: 20 SEP 96 — Prepared: 27 SEP 96 — Analyzed: 27 SEP 96
Instrument: PTGC/MS — Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	0.33	J	1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	0.45	J	1.0	0.1	ug/L
Methylene chloride	0.51	J	2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	ND		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	3.7		1.0	0.2	ug/L
Chloroform	0.62	J	1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	0.51		0.50	0.2	ug/L
1,2-Dichloroethane	0.29	J	0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	130	E	1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	190	E	1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51302-091996
LAB ID: 121423-0010-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 27 SEP 96 Analyzed: 27 SEP 96
Instrument: PTGC/MS Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	97	%	80 - 120
Toluene-d8	99	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51302-091996
LAB ID: 121423-0010-DL
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 02 OCT 96 Analyzed: 02 OCT 96
Instrument: GC/MS-MC Dilution: 5.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		5.0	0.1	ug/L
Chloromethane	ND		5.0	0.3	ug/L
Vinyl chloride	ND		2.5	0.2	ug/L
Bromomethane	ND		5.0	0.1	ug/L
Chloroethane	ND		5.0	0.3	ug/L
Trichlorofluoromethane	ND		5.0	0.2	ug/L
1,1-Dichloroethene	ND		5.0	0.1	ug/L
Methylene chloride	ND		10	0.1	ug/L
trans-1,2-Dichloroethene	ND		5.0	0.1	ug/L
1,1-Dichloroethane	ND		5.0	0.1	ug/L
2,2-Dichloropropane	ND		5.0	0.2	ug/L
cis-1,2-Dichloroethene	3.2	J	5.0	0.2	ug/L
Chloroform	0.39	J	5.0	0.1	ug/L
Bromochloromethane	ND		5.0	0.1	ug/L
1,1,1-Trichloroethane	ND		5.0	0.1	ug/L
1,1-Dichloropropene	ND		5.0	0.1	ug/L
Carbon tetrachloride	ND		2.5	0.2	ug/L
1,2-Dichloroethane	ND		2.5	0.1	ug/L
Benzene	ND		2.5	0.1	ug/L
Trichloroethene	140		5.0	0.1	ug/L
1,2-Dichloropropane	ND		5.0	0.1	ug/L
Bromodichloromethane	ND		5.0	0.1	ug/L
Dibromomethane	ND		5.0	0.2	ug/L
Toluene	ND		5.0	0.2	ug/L
1,1,2-Trichloroethane	ND		5.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		5.0	0.2	ug/L
1,3-Dichloropropane	ND		5.0	0.2	ug/L
Tetrachloroethene	210		5.0	0.2	ug/L
Dibromochloromethane	ND		5.0	0.2	ug/L
Chlorobenzene	ND		5.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		5.0	0.1	ug/L
Ethylbenzene	ND		5.0	0.1	ug/L
Xylenes (total)	ND		5.0	0.3	ug/L
Styrene	ND		5.0	0.1	ug/L
Bromoform	ND		5.0	0.1	ug/L
1-Methylethylbenzene	ND		5.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		5.0	0.1	ug/L
1,2,3-Trichloropropane	ND		5.0	0.4	ug/L
n-Propyl benzene	ND		5.0	0.2	ug/L
Bromobenzene	ND		5.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		5.0	0.1	ug/L
2-Chlorotoluene	ND		5.0	0.3	ug/L
4-Chlorotoluene	ND		5.0	0.3	ug/L
tert-Butylbenzene	ND		5.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		5.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51302-091996
LAB ID: 121423-0010-DL
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 02 OCT 96 Analyzed: 02 OCT 96
Instrument: GC/MS-MC Dilution: 5.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		5.0	0.1	ug/L
Isopropyltoluene	ND		5.0	0.1	ug/L
1,3-Dichlorobenzene	ND		5.0	0.1	ug/L
1,4-Dichlorobenzene	ND		5.0	0.1	ug/L
n-Butylbenzene	ND		5.0	0.2	ug/L
1,2-Dichlorobenzene	ND		5.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		5.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		5.0	0.2	ug/L
Hexachlorobutadiene	ND		5.0	0.1	ug/L
Naphthalene	ND		5.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		5.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		50	0.6	ug/L
cis-1,3-Dichloropropene	ND		2.5	0.2	ug/L
trans-1,3-Dichloropropene	ND		2.5	0.1	ug/L
Carbon disulfide	ND		25	0.1	ug/L
Methyl t-butyl ether	ND		25	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	103	%	80 - 120
Toluene-d8	93	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51303-091996
LAB ID: 121423-0011-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 27 SEP 96 Analyzed: 27 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	0.32	J	1.0	0.2	ug/L
1,1-Dichloroethene	6.9		1.0	0.1	ug/L
Methylene chloride	0.66	J	2.0	0.1	ug/L
trans-1,2-Dichloroethene	0.32	J	1.0	0.1	ug/L
1,1-Dichloroethane	0.89	J	1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	30		1.0	0.2	ug/L
Chloroform	28		1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	0.87	J	1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	13		0.50	0.2	ug/L
1,2-Dichloroethane	12		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	480	E	1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	0.64	J	1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	280	E	1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propyl benzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51303-091996
LAB ID: 121423-0011-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 27 SEP 96 Analyzed: 27 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	99	%	80 - 120
Toluene-d8	99	%	88 - 110
Bromofluorobenzene	92	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51303-091996
LAB ID: 121423-0011-DL
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 02 OCT 96 Analyzed: 02 OCT 96
Instrument: GC/MS-MC Dilution: 25

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		25	0.1	ug/L
Chloromethane	ND		25	0.3	ug/L
Vinyl chloride	ND		12	0.2	ug/L
Bromomethane	ND		25	0.1	ug/L
Chloroethane	ND		25	0.3	ug/L
Trichlorofluoromethane	ND		25	0.2	ug/L
1,1-Dichloroethene	ND		25	0.1	ug/L
Methylene chloride	ND		50	0.1	ug/L
trans-1,2-Dichloroethene	ND		25	0.1	ug/L
1,1-Dichloroethane	ND		25	0.1	ug/L
2,2-Dichloropropane	ND		25	0.2	ug/L
cis-1,2-Dichloroethene	30		25	0.2	ug/L
Chloroform	30		25	0.1	ug/L
Bromochloromethane	ND		25	0.1	ug/L
1,1,1-Trichloroethane	ND		25	0.1	ug/L
1,1-Dichloropropene	ND		25	0.1	ug/L
Carbon tetrachloride	13		12	0.2	ug/L
1,2-Dichloroethane	14		12	0.1	ug/L
Benzene	ND		12	0.1	ug/L
Trichloroethene	1400		25	0.1	ug/L
1,2-Dichloropropane	ND		25	0.1	ug/L
Bromodichloromethane	ND		25	0.1	ug/L
Dibromomethane	ND		25	0.2	ug/L
Toluene	ND		25	0.2	ug/L
1,1,2-Trichloroethane	ND		25	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		25	0.2	ug/L
1,3-Dichloropropane	ND		25	0.2	ug/L
Tetrachloroethene	570		25	0.2	ug/L
Dibromochloromethane	ND		25	0.2	ug/L
Chlorobenzene	ND		25	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		25	0.1	ug/L
Ethylbenzene	ND		25	0.1	ug/L
Xylenes (total)	ND		25	0.3	ug/L
Styrene	ND		25	0.1	ug/L
Bromoform	ND		25	0.1	ug/L
1-Methylethylbenzene	ND		25	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		25	0.1	ug/L
1,2,3-Trichloropropane	ND		25	0.4	ug/L
n-Propyl benzene	ND		25	0.2	ug/L
Bromobenzene	ND		25	0.2	ug/L
1,3,5-Trimethylbenzene	ND		25	0.1	ug/L
2-Chlorotoluene	ND		25	0.3	ug/L
4-Chlorotoluene	ND		25	0.3	ug/L
tert-Butylbenzene	ND		25	0.1	ug/L
1,2,4-Trimethylbenzene	ND		25	0.1	ug/L
sec-Butylbenzene	ND		25	0.1	ug/L

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51303-091996
LAB ID: 121423-0011-DL
Matrix: WATER Sampled: 19 SEP 96 Received: 19 SEP 96
Authorized: 20 SEP 96 Prepared: 02 OCT 96 Analyzed: 02 OCT 96
Instrument: GC/MS-MC Dilution: 25

Parameter	Result	Qualifier	RL	MDL	Units
Isopropyltoluene	ND		25	0.1	ug/L
1,3-Dichlorobenzene	ND		25	0.1	ug/L
1,4-Dichlorobenzene	ND		25	0.1	ug/L
n-Butylbenzene	ND		25	0.2	ug/L
1,2-Dichlorobenzene	ND		25	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		25	0.6	ug/L
1,2,4-Trichlorobenzene	ND		25	0.2	ug/L
Hexachlorobutadiene	ND		25	0.1	ug/L
Naphthalene	ND		25	0.3	ug/L
1,2,3-Trichlorobenzene	ND		25	0.2	ug/L
2-Chloroethyl vinyl ether	ND		250	0.6	ug/L
cis-1,3-Dichloropropene	ND		12	0.2	ug/L
trans-1,3-Dichloropropene	ND		12	0.1	ug/L
Carbon disulfide	ND		120	0.1	ug/L
Methyl t-butyl ether	ND		120	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		120	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	105	%	80 - 120
Toluene-d8	98	%	88 - 110
Bromofluorobenzene	100	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Wet Chemistry Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121423-0001-SA	AQUEOUS	QNO3-A		20 SEP 96-AX	20 SEP 96-AA
121423-0001-SA	AQUEOUS	QNO2-A		20 SEP 96-AX	20 SEP 96-AA
121423-0002-SA	AQUEOUS	QNO3-A		20 SEP 96-AX	20 SEP 96-AA
121423-0002-SA	AQUEOUS	QNO2-A		20 SEP 96-AX	20 SEP 96-AA
121423-0003-SA	AQUEOUS	QNO3-A		20 SEP 96-AX	20 SEP 96-AA
121423-0003-SA	AQUEOUS	QNO2-A		20 SEP 96-AX	20 SEP 96-AA
121423-0004-SA	AQUEOUS	QNO3-A		20 SEP 96-AX	20 SEP 96-AA
121423-0004-SA	AQUEOUS	QNO2-A		20 SEP 96-AX	20 SEP 96-AA
121423-0005-SA	AQUEOUS	QNO3-A		20 SEP 96-AX	20 SEP 96-AA
121423-0005-SA	AQUEOUS	QNO2-A		20 SEP 96-AX	20 SEP 96-AA
121423-0006-MS	AQUEOUS	QNO3-A		20 SEP 96-AX	20 SEP 96-AA
121423-0006-MS	AQUEOUS	QNO2-A		20 SEP 96-AX	20 SEP 96-AA
121423-0006-SA	AQUEOUS	QNO3-A		20 SEP 96-AX	20 SEP 96-AA
121423-0006-SA	AQUEOUS	QNO2-A		20 SEP 96-AX	20 SEP 96-AA
121423-0006-SD	AQUEOUS	QNO3-A		20 SEP 96-AX	20 SEP 96-AA
121423-0006-SD	AQUEOUS	QNO2-A		20 SEP 96-AX	20 SEP 96-AA
121423-0007-SA	AQUEOUS	QNO3-A		20 SEP 96-AX	20 SEP 96-AA
121423-0007-SA	AQUEOUS	QNO2-A		20 SEP 96-AX	20 SEP 96-AA
121423-0008-SA	AQUEOUS	QNO3-A		20 SEP 96-AX	20 SEP 96-AA
121423-0008-SA	AQUEOUS	QNO2-A		20 SEP 96-AX	20 SEP 96-AA

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 121423

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 20 SEP 96
QC Run: 20 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrate as N	4.00	4.11	103	85-115

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 20 SEP 96
QC Run: 20 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrite as N	4.00	4.00	100	85-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 121423

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
Sample: 121423-0006
MS Run: 20 SEP 96-AA
Units: mg/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Nitrate as N	8.12	18.4	18.6	10.0	103	105	1.8	85-115	20

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS
Sample: 121423-0006
MS Run: 20 SEP 96-AA
Units: mg/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Nitrite as N	0.276	9.40	10.0	10.0	91	97	6.3	85-115	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Wet Chemistry Analysis and Preparation
Project: 121423

Test: Q-NO3-IC-A Method 300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 20 SEP 96-AX Date Analyzed: 20 SEP 96

Analyte	Result	Units	Reporting Limit
Nitrate as N	ND	mg/L	0.050

Test: Q-NO2-IC-A Method 300.0 - Nitrite as N, Ion Chomatography
Matrix: AQUEOUS
QC Run: 20 SEP 96-AX Date Analyzed: 20 SEP 96

Analyte	Result	Units	Reporting Limit
Nitrite as N	ND	mg/L	0.050

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121423-0001-DL	AQUEOUS	8260-A		26 SEP 96-BDX	26 SEP 96-BD
121423-0001-SA	AQUEOUS	8260-A		25 SEP 96-BCX	
121423-0002-DL	AQUEOUS	8260-A		26 SEP 96-BDX	26 SEP 96-BD
121423-0002-SA	AQUEOUS	8260-A		25 SEP 96-BDX	
121423-0003-DL	AQUEOUS	8260-A		26 SEP 96-BDX	26 SEP 96-BD
121423-0003-SA	AQUEOUS	8260-A		26 SEP 96-BDX	
121423-0004-DL	AQUEOUS	8260-A		30 SEP 96-BDX	26 SEP 96-BD
121423-0004-SA	AQUEOUS	8260-A		26 SEP 96-BDX	
121423-0005-SA	AQUEOUS	8260-A		25 SEP 96-BCX	26 SEP 96-BD
121423-0006-MS	AQUEOUS	8260-A		26 SEP 96-BDX	26 SEP 96-BD
121423-0006-SA	AQUEOUS	8260-A		26 SEP 96-BDX	26 SEP 96-BD
121423-0006-SD	AQUEOUS	8260-A		26 SEP 96-BDX	26 SEP 96-BD
121423-0007-SA	AQUEOUS	8260-A		25 SEP 96-BCX	26 SEP 96-BD
121423-0008-SA	AQUEOUS	8260-A		25 SEP 96-BCX	26 SEP 96-BD
121423-0009-SA	AQUEOUS	8260-A		25 SEP 96-BCX	26 SEP 96-BD
121423-0010-DL	AQUEOUS	8260-A		01 OCT 96-BCX	26 SEP 96-BD
121423-0010-SA	AQUEOUS	8260-A		26 SEP 96-BDX	
121423-0011-DL	AQUEOUS	8260-A		01 OCT 96-BCX	26 SEP 96-BD
121423-0011-SA	AQUEOUS	8260-A		26 SEP 96-BDX	

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121423

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 25 SEP 96
QC Run: 25 SEP 96-BCX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	8.97	90	64-124
Benzene	10.0	8.01	80	67-127
Trichloroethene	10.0	9.17	92	60-120
Toluene	10.0	8.60	86	72-132
Chlorobenzene	10.0	9.13	91	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.3	103	80-120
Toluene-d8	10.0	8.78	88	88-110
Bromofluorobenzene	10.0	8.93	89	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 01 OCT 96
QC Run: 01 OCT 96-BCX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	9.92	99	64-124
Benzene	10.0	8.75	88	67-127
Trichloroethene	10.0	9.84	98	60-120
Toluene	10.0	9.23	92	72-132
Chlorobenzene	10.0	9.62	96	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.2	102	80-120
Toluene-d8	10.0	9.29	93	88-110
Bromofluorobenzene	10.0	9.91	99	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 30 SEP 96
QC Run: 30 SEP 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	10.8	108	64-124
Benzene	10.0	10.3	103	67-127
Trichloroethene	10.0	10.0	100	60-120
Toluene	10.0	10.3	103	72-132
Chlorobenzene	10.0	8.04	80	68-128

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS (cont.)
Project: 121423

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.40	94	80-120
Toluene-d8	10.0	9.78	98	88-110
Bromofluorobenzene	10.0	9.59	96	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 26 SEP 96
QC Run: 26 SEP 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	10.7	107	64-124
Benzene	10.0	9.66	97	67-127
Trichloroethene	10.0	9.53	95	60-120
Toluene	10.0	9.62	96	72-132
Chlorobenzene	10.0	9.79	98	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.69	97	80-120
Toluene-d8	10.0	9.96	100	88-110
Bromofluorobenzene	10.0	9.92	99	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 25 SEP 96
QC Run: 25 SEP 96-BCX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	8.97	90	64-124
Benzene	10.0	8.01	80	67-127
Trichloroethene	10.0	9.17	92	60-120
Toluene	10.0	8.60	86	72-132
Chlorobenzene	10.0	9.13	91	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.3	103	80-120
Toluene-d8	10.0	8.78	88	88-110
Bromofluorobenzene	10.0	8.93	89	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS (cont.)
Project: 121423

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 25 SEP 96
QC Run: 25 SEP 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	9.74	97	64-124
Benzene	10.0	9.24	92	67-127
Trichloroethene	10.0	10.0	100	60-120
Toluene	10.0	9.11	91	72-132
Chlorobenzene	10.0	10.4	104	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.6	106	80-120
Toluene-d8	10.0	9.51	95	88-110
Bromofluorobenzene	10.0	9.15	92	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 26 SEP 96
QC Run: 26 SEP 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	10.7	107	64-124
Benzene	10.0	9.66	97	67-127
Trichloroethene	10.0	9.53	95	60-120
Toluene	10.0	9.62	96	72-132
Chlorobenzene	10.0	9.79	98	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.69	97	80-120
Toluene-d8	10.0	9.96	100	88-110
Bromofluorobenzene	10.0	9.92	99	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

ATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
olatile Organics by GC/MS
Project: 121423

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 121423-0006
MS Run: 26 SEP 96-BD
Units: ug/L

Analyte	Sample Result	Concentration MS Result		Concentration MSD Result		Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	2.38	12.7		12.9		10.0	103	105	1.9	64-124	25
Benzene	ND	9.74		10.3		10.0	97	103	5.6	67-127	25
Trichloroethene	49.7	50.0	n	56.6	n	10.0	NC	NC	NC	60-120	25
Toluene	ND	10.1		10.5		10.0	101	105	3.9	72-132	25
Chlorobenzene	ND	10.6		10.8		10.0	106	108	1.9	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	87	90	92	80-120
Toluene-d8	100	97	101	88-110
Bromofluorobenzene	93	93	97	86-115

n = Spiked analyte out of matrix spike acceptance limits; refer to lab control sample results.
NC = Not Calculated, calculation not applicable.
ND = Not Detected

culations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121423

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 25 SEP 96-BCX Date Analyzed: 25 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.3	103	80-120
Toluene-d8	10.0	9.39	94	88-110
Bromofluorobenzene	10.0	8.85	88	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 01 OCT 96-BCX Date Analyzed: 01 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.36	94	80-120
Toluene-d8	10.0	9.17	92	88-110
Bromofluorobenzene	10.0	9.14	91	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 30 SEP 96-BDX Date Analyzed: 30 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.34	93	80-120
Toluene-d8	10.0	9.98	100	88-110
Bromofluorobenzene	10.0	9.70	97	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121423 (cont.)

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 26 SEP 96-BDX Date Analyzed: 26 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.25	92	80-120
Toluene-d8	10.0	9.66	97	88-110
Bromofluorobenzene	10.0	9.51	95	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 25 SEP 96-BCX Date Analyzed: 25 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.3	103	80-120
Toluene-d8	10.0	9.39	94	88-110
Bromofluorobenzene	10.0	8.85	88	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 25 SEP 96-BDX Date Analyzed: 25 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.87	99	80-120
Toluene-d8	10.0	9.93	99	88-110
Bromofluorobenzene	10.0	9.44	94	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121423 (cont.)

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 26 SEP 96-BDX Date Analyzed: 26 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.25	92	80-120
Toluene-d8	10.0	9.66	97	88-110
Bromofluorobenzene	10.0	9.51	95	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121423

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 25 SEP 96-BX QC Run: 25 SEP 96-BCX Date Analyzed: 25 SEP 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propyl benzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1
Isopropyltoluene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121423

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 25 SEP 96-BX QC Run: 25 SEP 96-BCX Date Analyzed: 25 SEP 96 (cont.)

Analyte	Result		Units	RL	MDL
1,3-Dichlorobenzene	ND		ug/L	1.0	0.1
1,4-Dichlorobenzene	ND		ug/L	1.0	0.1
n-Butylbenzene	ND		ug/L	1.0	0.2
1,2-Dichlorobenzene	ND		ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND		ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND		ug/L	1.0	0.2
Hexachlorobutadiene	ND		ug/L	1.0	0.1
Naphthalene	0.36	J	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND		ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND		ug/L	10	0.6
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.1
Carbon disulfide	ND		ug/L	5.0	0.1
Methyl t-butyl ether	ND		ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		ug/L	5.0	1.0

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121423

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 25 SEP 96-BDX QC Run: 25 SEP 96-BDX Date Analyzed: 25 SEP 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propyl benzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121423

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 25 SEP 96-BDX QC Run: 25 SEP 96-BDX Date Analyzed: 25 SEP 96 (cont.)

Analyte	Result	Units	RL	MDL
Isopropyltoluene	ND	ug/L	1.0	0.1
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121423

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 26 SEP 96-BDX QC Run: 26 SEP 96-BDX Date Analyzed: 26 SEP 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propyl benzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121423

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 26 SEP 96-BDX QC Run: 26 SEP 96-BDX Date Analyzed: 26 SEP 96 (cont.)

Analyte	Result	Units	RL	MDL
Isopropyltoluene	ND	ug/L	1.0	0.1
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121423

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 26 SEP 96-BX QC Run: 25 SEP 96-BCX Date Analyzed: 25 SEP 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propyl benzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121423

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 26 SEP 96-BX QC Run: 25 SEP 96-BCX Date Analyzed: 25 SEP 96 (cont.)

Analyte	Result		Units	RL	MDL
Isopropyltoluene	ND		ug/L	1.0	0.1
1,3-Dichlorobenzene	ND		ug/L	1.0	0.1
1,4-Dichlorobenzene	ND		ug/L	1.0	0.1
n-Butylbenzene	ND		ug/L	1.0	0.2
1,2-Dichlorobenzene	ND		ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND		ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND		ug/L	1.0	0.2
Hexachlorobutadiene	ND		ug/L	1.0	0.1
Naphthalene	0.36	J	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND		ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND		ug/L	10	0.6
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.1
Carbon disulfide	ND		ug/L	5.0	0.1
Methyl t-butyl ether	ND		ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		ug/L	5.0	1.0

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121423

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 26 SEP 96-BX QC Run: 26 SEP 96-BDX Date Analyzed: 26 SEP 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propyl benzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1

ND = Not Detected

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Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121423

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 26 SEP 96-BX QC Run: 26 SEP 96-BDX Date Analyzed: 26 SEP 96 (cont.)

Analyte	Result	Units	RL	MDL
Isopropyltoluene	ND	ug/L	1.0	0.1
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121423

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 26 SEP 96-BX QC Run: 30 SEP 96-BDX Date Analyzed: 30 SEP 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propyl benzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121423

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 26 SEP 96-BX QC Run: 30 SEP 96-BDX Date Analyzed: 30 SEP 96 (cont.)

Analyte	Result	Units	RL	MDL
Isopropyltoluene	ND	ug/L	1.0	0.1
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121423

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 26 SEP 96-BX QC Run: 01 OCT 96-BCX Date Analyzed: 01 OCT 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propyl benzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121423

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 26 SEP 96-BX QC Run: 01 OCT 96-BCX Date Analyzed: 01 OCT 96 (cont.)

Analyte	Result		Units	RL	MDL
Isopropyltoluene	ND		ug/L	1.0	0.1
1,3-Dichlorobenzene	ND		ug/L	1.0	0.1
1,4-Dichlorobenzene	ND		ug/L	1.0	0.1
n-Butylbenzene	ND		ug/L	1.0	0.2
1,2-Dichlorobenzene	ND		ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND		ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND		ug/L	1.0	0.2
Hexachlorobutadiene	ND		ug/L	1.0	0.1
Naphthalene	ND		ug/L	1.0	0.3
1,2,3-Trichlorobenzene	0.23	J	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND		ug/L	10	0.6
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.1
Carbon disulfide	ND		ug/L	5.0	0.1
Methyl t-butyl ether	ND		ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		ug/L	5.0	1.0

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Incorporated
1721 South Grand Avenue
Santa Ana, California 92705

714 258-8610 Telephone
714 258-0921 Fax

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Quanterra
Environmental Services

October 17, 1996

CAMP, DRESSER & McKEE
18881 VON KARMAN, SUITE 650
IRVINE, CA 92612
ATTN: MS. SUZANNE ROWE

LIMS NO.: 121458-0001/0009
DATE SAMPLED: 20-SEP-1996
DATE SAMPLE REC'D: 20-SEP-1996
PROJECT: BALDWIN PARK

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

Preliminary data were provided on October 3, 1996 at 6:40 P.M. to Suzanne Rowe.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Patty Mata at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Project Manager

cc: Project File

Quanterra Environmental Services

LIMS REPORT KEY

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

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Chain-of-Custody Records and Sample Description Information

Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries

CASE NARRATIVE

LIMS # 121458

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 4.5°C.

Sample containers were received intact. The VOA vials did not contain headspace. Proper preservation of applicable samples was verified upon receipt and documented on the Sample Control worksheet. Sample container labels did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Sample was received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
CDM	Suzanne Rowe	9-20-96	62384
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
Santa Fe Dam MWS-17	(714) 752-5452	12 ~~03572~~ 1458	

City	State	Zip Code	Site Contact	Lab Contact
Irwindale			Barbara Wells	Patty Matta

Project Name: Baldwin Park Operable Unit

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed): 8260 VOCs

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		8260 VOCs	Special Instructions/ Conditions of Receipt
BP-GW-08000070-092096	9-20-96	0850	X							X				X	3-40ml VOAs
BP-GW-MW51701-092096		1115	X							X				X	5-40ml VOAs ms/msd
BP-GW-MW51702-092096		1215	X							X				X	3-40ml VOAs
BP-GW-MW51703-092096		1315	X							X				X	3-40ml VOAs
BP-GW-MW51101-092096		1510	X							X				X	3-40ml VOAs
BP-GW-MW51102-092096		1620	X							X				X	3-40ml VOAs
BP-GW-MW51102N-092096		1635	X							X				X	3-40ml VOAs
BP-GW-MW51101K-092096		1818	X							X				X	3-40ml VOAs
BP-GW-MW51103-092096		1700	X							X				X	3-40ml VOAs

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other normal

QC Requirements (Specify): CLP TYPE PAPERWORK

	Date	Time		Date	Time
1. Relinquished By: CM			1. Received By		
2. Relinquished By: [signature]	9-20-96	1805	2. Received By: [signature]	9-20-96	1805
3. Relinquished By			3. Received By		

Comments:

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Camp, Dresser & McKee

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
121458-0001-SA	BP-GW-08000070-092096	WATER	20 SEP 96	08:50	20 SEP 96
121458-0002-SA	BP-GW-MW51701-092096	WATER	20 SEP 96	11:15	20 SEP 96
121458-0002-MS	BP-GW-MW51701-092096	WATER	20 SEP 96	11:15	20 SEP 96
121458-0002-SD	BP-GW-MW51701-092096	WATER	20 SEP 96	11:15	20 SEP 96
121458-0003-SA	BP-GW-MW51702-092096	WATER	20 SEP 96	12:15	20 SEP 96
121458-0004-SA	BP-GW-MW51703-092096	WATER	20 SEP 96	13:15	20 SEP 96
121458-0004-DL	BP-GW-MW51703-092096	WATER	20 SEP 96	13:15	20 SEP 96
121458-0005-SA	BP-GW-MW51101-092096	WATER	20 SEP 96	15:10	20 SEP 96
121458-0006-SA	BP-GW-MW51102-092096	WATER	20 SEP 96	16:20	20 SEP 96
121458-0006-DL	BP-GW-MW51102-092096	WATER	20 SEP 96	16:20	20 SEP 96
121458-0007-SA	BP-GW-MW51102N-092096	WATER	20 SEP 96	16:35	20 SEP 96
121458-0008-SA	BP-GW-MW51101K-092096	WATER	20 SEP 96	18:18	20 SEP 96
121458-0009-SA	BP-GW-MW51103-092096	WATER	20 SEP 96	17:00	20 SEP 96
121458-0009-DL	BP-GW-MW51103-092096	WATER	20 SEP 96	17:00	20 SEP 96

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-08000070-092096
LAB ID: 121458-0001-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 25 SEP 96 Analyzed: 25 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	1.0		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	0.21	J	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propyl benzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-08000070-092096
LAB ID: 121458-0001-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 25 SEP 96 Analyzed: 25 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	100	%	80 - 120
Toluene-d8	105	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51701-092096
LAB ID: 121458-0002-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	0.64	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	0.19	J	0.50	0.10	ug/L
Trichloroethene	0.29	J	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	0.41	J	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propyl benzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51701-092096
LAB ID: 121458-0002-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	98	%	80 - 120
Toluene-d8	100	%	88 - 110
Bromofluorobenzene	92	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51702-092096
LAB ID: 121458-0003-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	0.90	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	1.6		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	1.4		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propyl benzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51702-092096
LAB ID: 121458-0003-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	99	%	80 - 120
Toluene-d8	103	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51703-092096
LAB ID: 121458-0004-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	10		1.0	0.10	ug/L
Methylene chloride	0.34	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	0.24	J	1.0	0.10	ug/L
1,1-Dichloroethane	0.64	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	29		1.0	0.20	ug/L
Chloroform	0.32	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	9.2		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.27	J	0.50	0.20	ug/L
1,2-Dichloroethane	1.8		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	33		1.0	0.10	ug/L
1,2-Dichloropropane	0.27	J	1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	0.34	J	1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	140	E	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propyl benzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51703-092096
LAB ID: 121458-0004-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	100	%	80 - 120
Toluene-d8	102	%	88 - 110
Bromofluorobenzene	97	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51703-092096
LAB ID: 121458-0004-DL
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 27 SEP 96 Analyzed: 27 SEP 96
Instrument: GC/MS-MD Dilution: 2.5

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		2.5	0.25	ug/L
Chloromethane	ND		2.5	0.75	ug/L
Vinyl chloride	ND		1.2	0.50	ug/L
Bromomethane	ND		2.5	0.25	ug/L
Chloroethane	ND		2.5	0.75	ug/L
Trichlorofluoromethane	ND		2.5	0.50	ug/L
1,1-Dichloroethene	9.9		2.5	0.25	ug/L
Methylene chloride	0.72	J	5.0	0.25	ug/L
trans-1,2-Dichloroethene	ND		2.5	0.25	ug/L
1,1-Dichloroethane	0.60	J	2.5	0.25	ug/L
2,2-Dichloropropane	ND		2.5	0.50	ug/L
cis-1,2-Dichloroethene	28		2.5	0.50	ug/L
Chloroform	0.28	J	2.5	0.25	ug/L
Bromochloromethane	ND		2.5	0.25	ug/L
1,1,1-Trichloroethane	8.3		2.5	0.25	ug/L
1,1-Dichloropropene	ND		2.5	0.25	ug/L
Carbon tetrachloride	ND		1.2	0.50	ug/L
1,2-Dichloroethane	1.6		1.2	0.25	ug/L
Benzene	ND		1.2	0.25	ug/L
Trichloroethene	29		2.5	0.25	ug/L
1,2-Dichloropropane	ND		2.5	0.25	ug/L
Bromodichloromethane	ND		2.5	0.25	ug/L
Dibromomethane	ND		2.5	0.50	ug/L
Toluene	ND		2.5	0.50	ug/L
1,1,2-Trichloroethane	ND		2.5	0.50	ug/L
1,2-Dibromoethane (EDB)	ND		2.5	0.50	ug/L
1,3-Dichloropropane	ND		2.5	0.50	ug/L
Tetrachloroethene	130		2.5	0.50	ug/L
Dibromochloromethane	ND		2.5	0.50	ug/L
Chlorobenzene	ND		2.5	0.25	ug/L
1,1,1,2-Tetrachloroethane	ND		2.5	0.25	ug/L
Ethylbenzene	ND		2.5	0.25	ug/L
Xylenes (total)	ND		2.5	0.75	ug/L
Styrene	ND		2.5	0.25	ug/L
Bromoform	ND		2.5	0.25	ug/L
1-Methylethylbenzene	ND		2.5	0.25	ug/L
1,1,2,2-Tetrachloroethane	ND		2.5	0.25	ug/L
1,2,3-Trichloropropane	ND		2.5	1.0	ug/L
n-Propylbenzene	ND		2.5	0.50	ug/L
Bromobenzene	ND		2.5	0.50	ug/L
1,3,5-Trimethylbenzene	ND		2.5	0.25	ug/L
2-Chlorotoluene	ND		2.5	0.75	ug/L
4-Chlorotoluene	ND		2.5	0.75	ug/L
tert-Butylbenzene	ND		2.5	0.25	ug/L
1,2,4-Trimethylbenzene	ND		2.5	0.25	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51703-092096
LAB ID: 121458-0004-DL
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 27 SEP 96 Analyzed: 27 SEP 96
Instrument: GC/MS-MD Dilution: 2.5

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		2.5	0.25	ug/L
Isopropyltoluene	ND		2.5	0.25	ug/L
1,3-Dichlorobenzene	ND		2.5	0.25	ug/L
1,4-Dichlorobenzene	ND		2.5	0.25	ug/L
n-Butylbenzene	ND		2.5	0.50	ug/L
1,2-Dichlorobenzene	ND		2.5	0.25	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.5	1.5	ug/L
1,2,4-Trichlorobenzene	ND		2.5	0.50	ug/L
Hexachlorobutadiene	ND		2.5	0.25	ug/L
Naphthalene	ND		2.5	0.75	ug/L
1,2,3-Trichlorobenzene	ND		2.5	0.50	ug/L
2-Chloroethyl vinyl ether	ND		25	1.5	ug/L
cis-1,3-Dichloropropene	ND		1.2	0.50	ug/L
trans-1,3-Dichloropropene	ND		1.2	0.25	ug/L
Carbon disulfide	ND		12	0.25	ug/L
Methyl t-butyl ether	ND		12	1.2	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	2.5	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	86	%	80 - 120
Toluene-d8	92	%	88 - 110
Bromofluorobenzene	86	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51101-092096
LAB ID: 121458-0005-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	0.32	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	0.21	J	1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.39	J	0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	26		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	8.7		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	0.12	J	1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propyl benzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51101-092096
LAB ID: 121458-0005-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	97	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51102-092096
LAB ID: 121458-0006-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	1.5		1.0	0.10	ug/L
Methylene chloride	0.28	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	0.22	J	1.0	0.10	ug/L
1,1-Dichloroethane	0.26	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	39		1.0	0.20	ug/L
Chloroform	3.1		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	0.11	J	1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	2.1		0.50	0.20	ug/L
1,2-Dichloroethane	1.8		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	410	E	1.0	0.10	ug/L
1,2-Dichloropropane	0.15	J	1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	0.30	J	1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	360	E	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	0.11	J	1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propyl benzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51102-092096
LAB ID: 121458-0006-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	104	%	80 - 120
Toluene-d8	105	%	88 - 110
Bromofluorobenzene	99	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51102-092096
LAB ID: 121458-0006-DL
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 28 SEP 96 Analyzed: 28 SEP 96
Instrument: GC/MS-MD Dilution: 10

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		10	1.0	ug/L
Chloromethane	ND		10	3.0	ug/L
Vinyl chloride	ND		5.0	2.0	ug/L
Bromomethane	ND		10	1.0	ug/L
Chloroethane	ND		10	3.0	ug/L
Trichlorofluoromethane	ND		10	2.0	ug/L
1,1-Dichloroethene	ND		10	1.0	ug/L
Methylene chloride	ND		20	1.0	ug/L
trans-1,2-Dichloroethene	ND		10	1.0	ug/L
1,1-Dichloroethane	ND		10	1.0	ug/L
2,2-Dichloropropane	ND		10	2.0	ug/L
cis-1,2-Dichloroethene	40		10	2.0	ug/L
Chloroform	2.8	J	10	1.0	ug/L
Bromochloromethane	ND		10	1.0	ug/L
1,1,1-Trichloroethane	ND		10	1.0	ug/L
1,1-Dichloropropene	ND		10	1.0	ug/L
Carbon tetrachloride	ND		5.0	2.0	ug/L
1,2-Dichloroethane	2.2	J	5.0	1.0	ug/L
Benzene	ND		5.0	1.0	ug/L
Trichloroethene	590		10	1.0	ug/L
1,2-Dichloropropane	ND		10	1.0	ug/L
Bromodichloromethane	ND		10	1.0	ug/L
Dibromomethane	ND		10	2.0	ug/L
Toluene	ND		10	2.0	ug/L
1,1,2-Trichloroethane	ND		10	2.0	ug/L
1,2-Dibromoethane (EDB)	ND		10	2.0	ug/L
1,3-Dichloropropane	ND		10	2.0	ug/L
Tetrachloroethene	700		10	2.0	ug/L
Dibromochloromethane	ND		10	2.0	ug/L
Chlorobenzene	ND		10	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		10	1.0	ug/L
Ethylbenzene	ND		10	1.0	ug/L
Xylenes (total)	ND		10	3.0	ug/L
Styrene	ND		10	1.0	ug/L
Bromoform	ND		10	1.0	ug/L
1-Methylethylbenzene	ND		10	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		10	1.0	ug/L
1,2,3-Trichloropropane	ND		10	4.0	ug/L
n-Propyl benzene	ND		10	2.0	ug/L
Bromobenzene	ND		10	2.0	ug/L
1,3,5-Trimethylbenzene	ND		10	1.0	ug/L
2-Chlorotoluene	ND		10	3.0	ug/L
4-Chlorotoluene	ND		10	3.0	ug/L
tert-Butylbenzene	ND		10	1.0	ug/L
1,2,4-Trimethylbenzene	ND		10	1.0	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51102-092096
LAB ID: 121458-0006-DL
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 28 SEP 96 Analyzed: 28 SEP 96
Instrument: GC/MS-MD Dilution: 10

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		10	1.0	ug/L
Isopropyltoluene	ND		10	1.0	ug/L
1,3-Dichlorobenzene	ND		10	1.0	ug/L
1,4-Dichlorobenzene	ND		10	1.0	ug/L
n-Butylbenzene	ND		10	2.0	ug/L
1,2-Dichlorobenzene	ND		10	1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		10	6.0	ug/L
1,2,4-Trichlorobenzene	ND		10	2.0	ug/L
Hexachlorobutadiene	ND		10	1.0	ug/L
Naphthalene	ND		10	3.0	ug/L
1,2,3-Trichlorobenzene	ND		10	2.0	ug/L
2-Chloroethyl vinyl ether	ND		100	6.0	ug/L
cis-1,3-Dichloropropene	ND		5.0	2.0	ug/L
trans-1,3-Dichloropropene	ND		5.0	1.0	ug/L
Carbon disulfide	ND		50	1.0	ug/L
Methyl t-butyl ether	ND		50	5.0	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	87	%	80 - 120
Toluene-d8	94	%	88 - 110
Bromofluorobenzene	88	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51102N-092096
LAB ID: 121458-0007-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	0.72	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	0.12	J	0.50	0.10	ug/L
Trichloroethene	0.24	J	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propyl benzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51102N-092096
LAB ID: 121458-0007-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10.	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	99	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	95	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51101K-092096
LAB ID: 121458-0008-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	0.34	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	0.10	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.44	J	0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	28		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	9.8		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	0.12	J	1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propyl benzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51101K-092096
LAB ID: 121458-0008-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	96	%	80 - 120
Toluene-d8	99	%	88 - 110
Bromofluorobenzene	94	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51103-092096
LAB ID: 121458-0009-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	0.70	J	1.0	0.20	ug/L
1,1-Dichloroethene	21		1.0	0.10	ug/L
Methylene chloride	0.24	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	0.27	J	1.0	0.10	ug/L
1,1-Dichloroethane	0.96	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	14		1.0	0.20	ug/L
Chloroform	2.7		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	7.7		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	1.1		0.50	0.20	ug/L
1,2-Dichloroethane	2.1		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	130	E	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	0.22	J	1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	120	E	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propyl benzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51103-092096
LAB ID: 121458-0009-SA
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 26 SEP 96 Analyzed: 26 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	107	%	80 - 120
Toluene-d8	107	%	88 - 110
Bromofluorobenzene	101	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51103-092096
LAB ID: 121458-0009-DL
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 27 SEP 96 Analyzed: 27 SEP 96
Instrument: GC/MS-MD Dilution: 2.5

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		2.5	0.25	ug/L
Chloromethane	ND		2.5	0.75	ug/L
Vinyl chloride	ND		1.2	0.50	ug/L
Bromomethane	ND		2.5	0.25	ug/L
Chloroethane	ND		2.5	0.75	ug/L
Trichlorofluoromethane	0.82	J	2.5	0.50	ug/L
1,1-Dichloroethene	21		2.5	0.25	ug/L
Methylene chloride	0.46	J	5.0	0.25	ug/L
trans-1,2-Dichloroethene	ND		2.5	0.25	ug/L
1,1-Dichloroethane	0.87	J	2.5	0.25	ug/L
2,2-Dichloropropane	ND		2.5	0.50	ug/L
cis-1,2-Dichloroethene	13		2.5	0.50	ug/L
Chloroform	2.5		2.5	0.25	ug/L
Bromochloromethane	ND		2.5	0.25	ug/L
1,1,1-Trichloroethane	7.1		2.5	0.25	ug/L
1,1-Dichloropropene	ND		2.5	0.25	ug/L
Carbon tetrachloride	1.1	J	1.2	0.50	ug/L
1,2-Dichloroethane	1.8	J	1.2	0.25	ug/L
Benzene	ND		1.2	0.25	ug/L
Trichloroethene	120		2.5	0.25	ug/L
1,2-Dichloropropane	ND		2.5	0.25	ug/L
Bromodichloromethane	ND		2.5	0.25	ug/L
Dibromomethane	ND		2.5	0.50	ug/L
Toluene	ND		2.5	0.50	ug/L
1,1,2-Trichloroethane	ND		2.5	0.50	ug/L
1,2-Dibromoethane (EDB)	ND		2.5	0.50	ug/L
1,3-Dichloropropane	ND		2.5	0.50	ug/L
Tetrachloroethene	120		2.5	0.50	ug/L
Dibromochloromethane	ND		2.5	0.50	ug/L
Chlorobenzene	ND		2.5	0.25	ug/L
1,1,1,2-Tetrachloroethane	ND		2.5	0.25	ug/L
Ethylbenzene	ND		2.5	0.25	ug/L
Xylenes (total)	ND		2.5	0.75	ug/L
Styrene	ND		2.5	0.25	ug/L
Bromoform	ND		2.5	0.25	ug/L
1-Methylethylbenzene	ND		2.5	0.25	ug/L
1,1,2,2-Tetrachloroethane	ND		2.5	0.25	ug/L
1,2,3-Trichloropropane	ND		2.5	1.0	ug/L
n-Propyl benzene	ND		2.5	0.50	ug/L
Bromobenzene	ND		2.5	0.50	ug/L
1,3,5-Trimethylbenzene	ND		2.5	0.25	ug/L
2-Chlorotoluene	ND		2.5	0.75	ug/L
4-Chlorotoluene	ND		2.5	0.75	ug/L
tert-Butylbenzene	ND		2.5	0.25	ug/L
1,2,4-Trimethylbenzene	ND		2.5	0.25	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51103-092096
LAB ID: 121458-0009-DL
Matrix: WATER Sampled: 20 SEP 96 Received: 20 SEP 96
Authorized: 21 SEP 96 Prepared: 27 SEP 96 Analyzed: 27 SEP 96
Instrument: GC/MS-MD Dilution: 2.5

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		2.5	0.25	ug/L
Isopropyltoluene	ND		2.5	0.25	ug/L
1,3-Dichlorobenzene	ND		2.5	0.25	ug/L
1,4-Dichlorobenzene	ND		2.5	0.25	ug/L
n-Butylbenzene	ND		2.5	0.50	ug/L
1,2-Dichlorobenzene	ND		2.5	0.25	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.5	1.5	ug/L
1,2,4-Trichlorobenzene	ND		2.5	0.50	ug/L
Hexachlorobutadiene	ND		2.5	0.25	ug/L
Naphthalene	ND		2.5	0.75	ug/L
1,2,3-Trichlorobenzene	ND		2.5	0.50	ug/L
2-Chloroethyl vinyl ether	ND		25	1.5	ug/L
cis-1,3-Dichloropropene	ND		1.2	0.50	ug/L
trans-1,3-Dichloropropene	ND		1.2	0.25	ug/L
Carbon disulfide	ND		12	0.25	ug/L
Methyl t-butyl ether	ND		12	1.2	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	2.5	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	88	%	80 - 120
Toluene-d8	98	%	88 - 110
Bromofluorobenzene	91	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121458-0001-SA	AQUEOUS	8260-A		25 SEP 96-BDX	25 SEP 96-BD
121458-0002-MS	AQUEOUS	8260-A		25 SEP 96-BDX	25 SEP 96-BD
121458-0002-SA	AQUEOUS	8260-A		25 SEP 96-BDX	25 SEP 96-BD
121458-0002-SD	AQUEOUS	8260-A		25 SEP 96-BDX	25 SEP 96-BD
121458-0003-SA	AQUEOUS	8260-A		25 SEP 96-BDX	25 SEP 96-BD
121458-0004-DL	AQUEOUS	8260-A		26 SEP 96-BDX	25 SEP 96-BD
121458-0004-SA	AQUEOUS	8260-A		25 SEP 96-BDX	
121458-0005-SA	AQUEOUS	8260-A		25 SEP 96-BDX	25 SEP 96-BD
121458-0006-DL	AQUEOUS	8260-A		27 SEP 96-BDX	25 SEP 96-BD
121458-0006-SA	AQUEOUS	8260-A		25 SEP 96-BDX	
121458-0007-SA	AQUEOUS	8260-A		25 SEP 96-BDX	25 SEP 96-BD
121458-0008-SA	AQUEOUS	8260-A		25 SEP 96-BDX	25 SEP 96-BD
121458-0009-DL	AQUEOUS	8260-A		26 SEP 96-BDX	25 SEP 96-BD
121458-0009-SA	AQUEOUS	8260-A		25 SEP 96-BDX	

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Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121458

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 27 SEP 96
QC Run: 27 SEP 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	10.6	106	64-124
Benzene	10.0	9.77	98	67-127
Trichloroethene	10.0	9.71	97	60-120
Toluene	10.0	10.0	100	72-132
Chlorobenzene	10.0	10.1	101	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.43	94	80-120
Toluene-d8	10.0	9.85	98	88-110
Bromofluorobenzene	10.0	9.73	97	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 26 SEP 96
QC Run: 26 SEP 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	10.7	107	64-124
Benzene	10.0	9.66	97	67-127
Trichloroethene	10.0	9.53	95	60-120
Toluene	10.0	9.62	96	72-132
Chlorobenzene	10.0	9.79	98	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.69	97	80-120
Toluene-d8	10.0	9.96	100	88-110
Bromofluorobenzene	10.0	9.92	99	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 25 SEP 96
QC Run: 25 SEP 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	9.74	97	64-124
Benzene	10.0	9.24	92	67-127
Trichloroethene	10.0	10.0	100	60-120
Toluene	10.0	9.11	91	72-132
Chlorobenzene	10.0	10.4	104	68-128

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS (cont.)
Project: 121458

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.6	106	80-120
Toluene-d8	10.0	9.51	95	88-110
Bromofluorobenzene	10.0	9.15	92	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 25 SEP 96
QC Run: 25 SEP 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	9.74	97	64-124
Benzene	10.0	9.24	92	67-127
Trichloroethene	10.0	10.0	100	60-120
Toluene	10.0	9.11	91	72-132
Chlorobenzene	10.0	10.4	104	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.6	106	80-120
Toluene-d8	10.0	9.51	95	88-110
Bromofluorobenzene	10.0	9.15	92	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 121458

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 121458-0002
MS Run: 25 SEP 96-BD
Units: ug/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	ND	10.7	11.3	10.0	107	113	5.5	64-124	25
Benzene	0.192 J	10.3	10.3	10.0	101	101	0.0	67-127	25
Trichloroethene	0.294 J	10.7	10.4	10.0	104	101	2.9	60-120	25
Toluene	ND	10.3	10.4	10.0	103	104	0.9	72-132	25
Chlorobenzene	ND	10.7	10.9	10.0	107	109	1.9	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	98	103	97	80-120
Toluene-d8	100	105	101	88-110
Bromofluorobenzene	92	101	94	86-115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121458

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 27 SEP 96-BDX Date Analyzed: 27 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	8.86	89	80-120
Toluene-d8	10.0	9.60	96	88-110
Bromofluorobenzene	10.0	9.20	92	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 26 SEP 96-BDX Date Analyzed: 26 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.25	92	80-120
Toluene-d8	10.0	9.66	97	88-110
Bromofluorobenzene	10.0	9.51	95	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 25 SEP 96-BDX Date Analyzed: 25 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.87	99	80-120
Toluene-d8	10.0	9.93	99	88-110
Bromofluorobenzene	10.0	9.44	94	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121458 (cont.)

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 25 SEP 96-BDX Date Analyzed: 25 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.87	99	80-120
Toluene-d8	10.0	9.93	99	88-110
Bromofluorobenzene	10.0	9.44	94	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121458

Test: 8260-A
Matrix: AQUEOUS
QC Run: 25 SEP 96-BDX

Method 8260 - Volatile Organics

Date Analyzed: 25 SEP 96

Analyte	Result	Units	Reporting Limit
Dichlorodifluoromethane	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Vinyl chloride	ND	ug/L	0.50
Bromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Methylene chloride	ND	ug/L	2.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
2,2-Dichloropropane	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1-Dichloropropene	ND	ug/L	1.0
Carbon tetrachloride	ND	ug/L	0.50
1,2-Dichloroethane	ND	ug/L	0.50
Benzene	ND	ug/L	0.50
Trichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Dibromomethane	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0
1,3-Dichloropropane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Dibromochloromethane	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Xylenes (total)	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
1-Methylethylbenzene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
1,2,3-Trichloropropane	ND	ug/L	1.0
n-Propyl benzene	ND	ug/L	1.0
Bromobenzene	ND	ug/L	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1.0
2-Chlorotoluene	ND	ug/L	1.0
4-Chlorotoluene	ND	ug/L	1.0
tert-Butylbenzene	ND	ug/L	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121458

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS
QC Run: 25 SEP 96-BDX Date Analyzed: 25 SEP 96

Analyte	Result	Units	Reporting Limit
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
n-Butylbenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1.0
Hexachlorobutadiene	ND	ug/L	1.0
Naphthalene	ND	ug/L	1.0
1,2,3-Trichlorobenzene	ND	ug/L	1.0
2-Chloroethyl vinyl ether	ND	ug/L	10
cis-1,3-Dichloropropene	ND	ug/L	0.50
trans-1,3-Dichloropropene	ND	ug/L	0.50
Carbon disulfide	ND	ug/L	5.0
Methyl t-butyl ether	ND	ug/L	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121458

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Run: 25 SEP 96-BDX Date Analyzed: 25 SEP 96

Analyte	Result	Units	Reporting Limit
Dichlorodifluoromethane	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Vinyl chloride	ND	ug/L	0.50
Bromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Methylene chloride	ND	ug/L	2.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
2,2-Dichloropropane	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1-Dichloropropene	ND	ug/L	1.0
Carbon tetrachloride	ND	ug/L	0.50
1,2-Dichloroethane	ND	ug/L	0.50
Benzene	ND	ug/L	0.50
Trichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Dibromomethane	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0
1,3-Dichloropropane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Dibromochloromethane	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Xylenes (total)	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
1-Methylethylbenzene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
1,2,3-Trichloropropane	ND	ug/L	1.0
n-Propyl benzene	ND	ug/L	1.0
Bromobenzene	ND	ug/L	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1.0
2-Chlorotoluene	ND	ug/L	1.0
4-Chlorotoluene	ND	ug/L	1.0

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121458

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS
QC Run: 25 SEP 96-BDX Date Analyzed: 25 SEP 96

Analyte	Result	Units	Reporting Limit
tert-Butylbenzene	ND	ug/L	1.0
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
n-Butylbenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1.0
Hexachlorobutadiene	ND	ug/L	1.0
Naphthalene	ND	ug/L	1.0
1,2,3-Trichlorobenzene	ND	ug/L	1.0
2-Chloroethyl vinyl ether	ND	ug/L	10
cis-1,3-Dichloropropene	ND	ug/L	0.50
trans-1,3-Dichloropropene	ND	ug/L	0.50
Carbon disulfide	ND	ug/L	5.0
Methyl t-butyl ether	ND	ug/L	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121458

Test: 8260-A
Matrix: AQUEOUS
QC Run: 26 SEP 96-BDX

Method 8260 - Volatile Organics

Date Analyzed: 26 SEP 96

Analyte	Result	Units	Reporting Limit
Dichlorodifluoromethane	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Vinyl chloride	ND	ug/L	0.50
Bromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Methylene chloride	ND	ug/L	2.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
2,2-Dichloropropane	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1-Dichloropropene	ND	ug/L	1.0
Carbon tetrachloride	ND	ug/L	0.50
1,2-Dichloroethane	ND	ug/L	0.50
Benzene	ND	ug/L	0.50
Trichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Dibromomethane	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0
1,3-Dichloropropane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Dibromochloromethane	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Xylenes (total)	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
1-Methylethylbenzene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
1,2,3-Trichloropropane	ND	ug/L	1.0
n-Propyl benzene	ND	ug/L	1.0
Bromobenzene	ND	ug/L	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1.0
2-Chlorotoluene	ND	ug/L	1.0
4-Chlorotoluene	ND	ug/L	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121458

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS
QC Run: 26 SEP 96-BDX Date Analyzed: 26 SEP 96

Analyte	Result	Units	Reporting Limit
tert-Butylbenzene	ND	ug/L	1.0
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
n-Butylbenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1.0
Hexachlorobutadiene	ND	ug/L	1.0
Naphthalene	ND	ug/L	1.0
1,2,3-Trichlorobenzene	ND	ug/L	1.0
2-Chloroethyl vinyl ether	ND	ug/L	10
cis-1,3-Dichloropropene	ND	ug/L	0.50
trans-1,3-Dichloropropene	ND	ug/L	0.50
Carbon disulfide	ND	ug/L	5.0
Methyl t-butyl ether	ND	ug/L	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121458

Test: 8260-A
Matrix: AQUEOUS
QC Run: 27 SEP 96-BDX

Method 8260 - Volatile Organics

Date Analyzed: 27 SEP 96

Analyte	Result	Units	Reporting Limit
Dichlorodifluoromethane	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Vinyl chloride	ND	ug/L	0.50
Bromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Methylene chloride	ND	ug/L	2.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
2,2-Dichloropropane	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1-Dichloropropene	ND	ug/L	1.0
Carbon tetrachloride	ND	ug/L	0.50
1,2-Dichloroethane	ND	ug/L	0.50
Benzene	ND	ug/L	0.50
Trichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Dibromomethane	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0
1,3-Dichloropropane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Dibromochloromethane	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Xylenes (total)	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
1-Methylethylbenzene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
1,2,3-Trichloropropane	ND	ug/L	1.0
n-Propyl benzene	ND	ug/L	1.0
Bromobenzene	ND	ug/L	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1.0
2-Chlorotoluene	ND	ug/L	1.0
4-Chlorotoluene	ND	ug/L	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121458

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS
QC Run: 27 SEP 96-BDX Date Analyzed: 27 SEP 96

Analyte	Result	Units	Reporting Limit
tert-Butylbenzene	ND	ug/L	1.0
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
n-Butylbenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1.0
Hexachlorobutadiene	ND	ug/L	1.0
Naphthalene	ND	ug/L	1.0
1,2,3-Trichlorobenzene	ND	ug/L	1.0
2-Chloroethyl vinyl ether	ND	ug/L	10
cis-1,3-Dichloropropene	ND	ug/L	0.50
trans-1,3-Dichloropropene	ND	ug/L	0.50
Carbon disulfide	ND	ug/L	5.0
Methyl t-butyl ether	ND	ug/L	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0

ND = Not Detected

Quanterra Incorporated
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Quanterra
Environmental Services

October 26, 1996

CAMP, DRESSER & McKEE
18881 VON KARMAN, SUITE 650
IRVINE, CA 92612
ATTN: MS. SUZANNE ROWE

LIMS NO.: 121485-0001/0013
DATE SAMPLED: 23-SEP-1996
DATE SAMPLE REC'D: 24-SEP-1996
PROJECT: BALDWIN PARK

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

Preliminary data for all analyses except metals were provided on October 16, 1996 at 2:35 P.M. to Suzanne Rowe. Preliminary data for metals were provided on October 17, 1996 at 11:45 A.M. to Suzanne Rowe.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Patty Mata at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Project Manager

cc: Project File

LIMS REPORT KEY

Quanterra Environmental Services

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

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B. QC Summaries

CASE NARRATIVE

LIMS # 121485

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 2.5°C.

Sample containers were received intact. The VOA vials did not contain headspace. Proper preservation of applicable samples was verified upon receipt and documented on the Sample Control worksheet. Sample container labels did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Sample was received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

Matrix spike duplicate spike recoveries were outside the acceptance limits for trichloroethene. However, the acceptable LCS analysis data indicated that the analytical system was operating within control and this condition is most likely due to matrix interference.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

III. METALS (BY METHOD: SW6010A, SW7060A, SW7421, SW7470)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blank data met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

Matrix spike/matrix spike duplicate spike recoveries were outside the acceptance limits for aluminum and iron. However, the acceptable LCS analysis data indicated that the analytical system was operating within control and this condition is most likely due to matrix interference.

CASE NARRATIVE

LIMS # 121485

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

IV. GENERAL CHEMISTRY (BY METHOD: E130.2,E310.1,E300.0,E160.1,E160.2,SM2340)

Please note that method E310.1 was performed instead of SM2320, which was requested on the chain of custody.

Sample 121485-0005 (BP-GW-MW51502-092396) had Hardness analysis performed by SM2340 (calculation) due to limited sample volume. Barb Wells of CDM was notified and approved of this change.

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

V. OUTSIDE ANALYSIS

Please note that Radon by method 913.0 was performed by Truesdail Laboratories in Tustin, CA. Their report is attached to the back of the Quanterra-Santa Ana report.

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
CDM	Suzanne Rowe	9-23-96	62387

Address	Telephone Number (Area Code)/Fax Number	Lab Number	
MW5-18; MW5-15	(714) 752-5452	121485	Page 1 of 2

City	State	Zip Code	Site Contact	Lab Contact
Irwinda W + Baldwin Park	CA		Barbara Wells	Patty Matta

Project Name: Baldwin Park Operable Unit (3rd QTR SAMPLING)

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOCs (8260)	NO2+NO3 (300)	Cations (Ca, K, Mg, Na) (6010)	Anions (Cl, SO4) (300.0)	Alkalinity (Carb. + Bicarb.) (2320)	TDS/TSS 160.2 VOC	Radon (913.0)	Metals (Al, Ar, Ba, Ca, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Zn) ★ (6010, 7060, 7421, 7470)	Hardness 130.2	Special Instructions/ Conditions of Receipt
BP-GW-MW51801-092396	9-23-96	0950	X			X			X			X	X	X	X	X	X	X	X	X	3-40ml VOAs + HCL; 1-250ml 2-40ml VOAs; 1-500ml poly
BP-GW-MW51802-092396	↓	1115	X			X			X			X	X	X	X	X	X	X	X	X	↓
BP-GW-MW51803-092396	↓	1220	X			X			X			X	X	X	X	X	X	X	X	X	↓
BP-GW-MW51501-092396	↓	1430	X			X			X			X	X	X	X	X	X	X	X	X	5-40ml VOAs, 1-250ml poly 4-40ml VOAs 3-500ml poly
BP-GW-MW51502-092396	↓	1700	X			X			X			X	X	X	X	X	X	X	X	X	3-40ml VOAs + HCL; 1-250 p 2-40ml VOAs; 1-500ml poly
BP-GW-MW51502N-092396	↓	1715	X			X			X			X	X	X	X	X	X	X	X	X	↓
BP-GW-MW51503-092396	↓	1740	X			X			X			X	X	X	X	X	X	X	X	X	↓
BP-GW-MW51503K-092396	↓	1830	X			X			X			X	X	X	X	X	X	X	X	X	↓

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☑ Other normal

QC Requirements (Specify): CLP TYPE PAPERWORK

	Date	Time		Date	Time
1. Relinquished By: Shannon Dan Trinchill	9/24/96	8:25	1. Received By: [signature]	9/24/96	0825
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: ★ SAMPLE NEEDS TO BE FILTERED BY LAB.

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Copy

Chain of Custody Record

QUA-4124-1

Quanterra Environmental Services

Client	Project Manager	Date	Chain Of Custody Number
CDM	Suzanne Rowe	9-23-96	62388

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page
MW5-05	(714) 752-5452	121485	2 of 2

City	State	Zip Code	Site Contact	Lab Contact
Baldwin Park	CA		Barbara Wells	Patty Matta

Project Name: Baldwin Park Operable Unit (3rd QTR SAMPLING)

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOCs (8260)	NO_2+NO_3 (300)	Special Instructions/ Conditions of Receipt
BP-GW-MW50501-092396	09-23-96	1940	X			X			X			X	X	3-40ml VOAs/HCL+1-125 P
BP-GW-MW50502-092396		2035	X			X			X			X	X	
BP-GW-MW50502K-092396		2105	X			X			X			X	X	
BP-GW-MW50503-092396		2115	X			X			X			X	X	
BP-GW-MW50504-092396	09-23-96	2145	X			X			X			X	X	3-40ml VOA/HCL-1-125ml poly

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☑ Other normal

QC Requirements (Specify): CLP TYPE PAPER WOR

	Date	Time		Date	Time
1. Relinquished By: Shannon Dow Turnbull	9/24/96	8:25	1. Received By: [signature]	9/24/96	0825
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments:

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Camp, Dresser & McKee

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
121485-0001-SA	BP-GW-MW51801-092396	WATER	23 SEP 96	09:50	24 SEP 96
121485-0002-SA	BP-GW-MW51802-092396	WATER	23 SEP 96	11:15	24 SEP 96
121485-0002-DL	BP-GW-MW51802-092396	WATER	23 SEP 96	11:15	24 SEP 96
121485-0003-SA	BP-GW-MW51803-092396	WATER	23 SEP 96	12:20	24 SEP 96
121485-0003-DL	BP-GW-MW51803-092396	WATER	23 SEP 96	12:20	24 SEP 96
121485-0004-SA	BP-GW-MW51501-092396	WATER	23 SEP 96	14:30	24 SEP 96
121485-0004-MS	BP-GW-MW51501-092396	WATER	23 SEP 96	14:30	24 SEP 96
121485-0004-SD	BP-GW-MW51501-092396	WATER	23 SEP 96	14:30	24 SEP 96
121485-0004-DU	BP-GW-MW51501-092396	WATER	23 SEP 96	14:30	24 SEP 96
121485-0005-SA	BP-GW-MW51502-092396	WATER	23 SEP 96	17:00	24 SEP 96
121485-0005-DL	BP-GW-MW51502-092396	WATER	23 SEP 96	17:00	24 SEP 96
121485-0006-SA	BP-GW-MW51502N-092396	WATER	23 SEP 96	17:15	24 SEP 96
121485-0007-SA	BP-GW-MW51503-092396	WATER	23 SEP 96	17:40	24 SEP 96
121485-0008-SA	BP-GW-MW51503K-092396	WATER	23 SEP 96	18:30	24 SEP 96
121485-0009-SA	BP-GW-MW50501-092396	WATER	23 SEP 96	19:40	24 SEP 96
121485-0010-SA	BP-GW-MW50502-092396	WATER	23 SEP 96	20:35	24 SEP 96
121485-0011-SA	BP-GW-MW50502K-092396	WATER	23 SEP 96	21:05	24 SEP 96
121485-0012-SA	BP-GW-MW50503-092396	WATER	23 SEP 96	21:15	24 SEP 96
121485-0012-DL	BP-GW-MW50503-092396	WATER	23 SEP 96	21:15	24 SEP 96
121485-0013-SA	BP-GW-MW50504-092396	WATER	23 SEP 96	21:45	24 SEP 96

Quanterra Environmental Services

METALS
(Water - Dissolved)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51801-092396
LAB ID: 121485-0001-SA
Matrix: WATER
Sampled: 23 SEP 96
Received: 24 SEP 96
Authorized: 24 SEP 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Aluminum	ND		1.0	0.20	mg/L	6010A	30 SEP 96	10 OCT 96
Arsenic	ND		1.0	0.010	mg/L	7060A	03 OCT 96	04 OCT 96
Barium	ND		1.0	0.20	mg/L	6010A	30 SEP 96	10 OCT 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	30 SEP 96	10 OCT 96
Calcium	52.8		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Chromium	ND		1.0	0.010	mg/L	6010A	30 SEP 96	10 OCT 96
Copper	ND		1.0	0.025	mg/L	6010A	30 SEP 96	10 OCT 96
Iron	ND		1.0	0.10	mg/L	6010A	30 SEP 96	10 OCT 96
Lead	ND		1.0	0.0030	mg/L	SW7421	30 SEP 96	02 OCT 96
Magnesium	12.5		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Manganese	ND		1.0	0.015	mg/L	6010A	30 SEP 96	10 OCT 96
Mercury	ND		1.0	0.00020	mg/L	7470A	01 OCT 96	01 OCT 96
Nickel	ND		1.0	0.040	mg/L	6010A	30 SEP 96	10 OCT 96
Potassium	ND		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Sodium	21.9		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Zinc	ND		1.0	0.020	mg/L	6010A	30 SEP 96	10 OCT 96

ND = Not Detected

Quanterra Environmental Services

METALS
(Water - Dissolved)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51802-092396
LAB ID: 121485-0002-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Aluminum	ND		1.0	0.20	mg/L	6010A	30 SEP 96	10 OCT 96
Arsenic	ND		1.0	0.010	mg/L	7060A	03 OCT 96	04 OCT 96
Barium	ND		1.0	0.20	mg/L	6010A	30 SEP 96	10 OCT 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	30 SEP 96	10 OCT 96
Calcium	79.5		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Chromium	ND		1.0	0.010	mg/L	6010A	30 SEP 96	10 OCT 96
Copper	ND		1.0	0.025	mg/L	6010A	30 SEP 96	10 OCT 96
Iron	ND		1.0	0.10	mg/L	6010A	30 SEP 96	10 OCT 96
Lead	ND		1.0	0.0030	mg/L	SW7421	30 SEP 96	02 OCT 96
Magnesium	14.8		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Manganese	ND		1.0	0.015	mg/L	6010A	30 SEP 96	10 OCT 96
Mercury	0.0015		1.0	0.00020	mg/L	7470A	01 OCT 96	01 OCT 96
Nickel	ND		1.0	0.040	mg/L	6010A	30 SEP 96	10 OCT 96
Potassium	ND		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Sodium	13.2		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Zinc	0.020		1.0	0.020	mg/L	6010A	30 SEP 96	10 OCT 96

ND = Not Detected

Quanterra Environmental Services

METALS
(Water - Dissolved)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51803-092396
LAB ID: 121485-0003-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Aluminum	ND		1.0	0.20	mg/L	6010A	30 SEP 96	10 OCT 96
Arsenic	ND		1.0	0.010	mg/L	7060A	03 OCT 96	04 OCT 96
Barium	ND		1.0	0.20	mg/L	6010A	30 SEP 96	10 OCT 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	30 SEP 96	10 OCT 96
Calcium	117		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Chromium	ND		1.0	0.010	mg/L	6010A	30 SEP 96	10 OCT 96
Copper	ND		1.0	0.025	mg/L	6010A	30 SEP 96	10 OCT 96
Iron	ND		1.0	0.10	mg/L	6010A	30 SEP 96	10 OCT 96
Lead	0.0030		1.0	0.0030	mg/L	SW7421	30 SEP 96	02 OCT 96
Magnesium	21.4		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Manganese	0.086		1.0	0.015	mg/L	6010A	30 SEP 96	10 OCT 96
Mercury	ND		1.0	0.00020	mg/L	7470A	01 OCT 96	01 OCT 96
Nickel	ND		1.0	0.040	mg/L	6010A	30 SEP 96	10 OCT 96
Potassium	5.4		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Sodium	17.3		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Zinc	0.024		1.0	0.020	mg/L	6010A	30 SEP 96	10 OCT 96

ND = Not Detected

Quanterra Environmental Services

METALS
(Water - Dissolved)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51501-092396
LAB ID: 121485-0004-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Aluminum	ND		1.0	0.20	mg/L	6010A	30 SEP 96	10 OCT 96
Arsenic	ND		1.0	0.010	mg/L	7060A	03 OCT 96	04 OCT 96
Barium	ND		1.0	0.20	mg/L	6010A	30 SEP 96	10 OCT 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	30 SEP 96	10 OCT 96
Calcium	77.4		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Chromium	ND		1.0	0.010	mg/L	6010A	30 SEP 96	10 OCT 96
Copper	ND		1.0	0.025	mg/L	6010A	30 SEP 96	10 OCT 96
Iron	ND		1.0	0.10	mg/L	6010A	30 SEP 96	10 OCT 96
Lead	0.0053		1.0	0.0030	mg/L	SW7421	30 SEP 96	02 OCT 96
Magnesium	13.1		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Manganese	ND		1.0	0.015	mg/L	6010A	30 SEP 96	10 OCT 96
Mercury	0.0011		1.0	0.00020	mg/L	7470A	01 OCT 96	01 OCT 96
Nickel	ND		1.0	0.040	mg/L	6010A	30 SEP 96	10 OCT 96
Potassium	ND		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Sodium	13.3		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Zinc	0.032		1.0	0.020	mg/L	6010A	30 SEP 96	10 OCT 96

ND = Not Detected

Quanterra
Environmental Services

METALS
(Water - Dissolved)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51502-092396
LAB ID: 121485-0005-SA
Matrix: WATER
Sampled: 23 SEP 96
Received: 24 SEP 96
Authorized: 24 SEP 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Aluminum	ND		1.0	0.20	mg/L	6010A	30 SEP 96	10 OCT 96
Arsenic	ND		1.0	0.010	mg/L	7060A	03 OCT 96	04 OCT 96
Barium	ND		1.0	0.20	mg/L	6010A	30 SEP 96	10 OCT 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	30 SEP 96	10 OCT 96
Calcium	79.1		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Chromium	ND		1.0	0.010	mg/L	6010A	30 SEP 96	10 OCT 96
Copper	ND		1.0	0.025	mg/L	6010A	30 SEP 96	10 OCT 96
Iron	ND		1.0	0.10	mg/L	6010A	30 SEP 96	10 OCT 96
Lead	ND		1.0	0.0030	mg/L	SW7421	30 SEP 96	02 OCT 96
Magnesium	14.7		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Manganese	ND		1.0	0.015	mg/L	6010A	30 SEP 96	10 OCT 96
Mercury	ND		1.0	0.00020	mg/L	7470A	01 OCT 96	01 OCT 96
Nickel	ND		1.0	0.040	mg/L	6010A	30 SEP 96	10 OCT 96
Potassium	ND		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Sodium	14.0		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Zinc	0.020		1.0	0.020	mg/L	6010A	30 SEP 96	10 OCT 96

ND = Not Detected

Quanterra Environmental Services

METALS
(Water - Dissolved)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51502N-092396
LAB ID: 121485-0006-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Aluminum	ND		1.0	0.20	mg/L	6010A	03 OCT 96	10 OCT 96
Arsenic	ND		1.0	0.010	mg/L	7060A	03 OCT 96	04 OCT 96
Barium	ND		1.0	0.20	mg/L	6010A	03 OCT 96	10 OCT 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	03 OCT 96	10 OCT 96
Calcium	ND		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Chromium	ND		1.0	0.010	mg/L	6010A	03 OCT 96	10 OCT 96
Copper	ND		1.0	0.025	mg/L	6010A	03 OCT 96	10 OCT 96
Iron	ND		1.0	0.10	mg/L	6010A	03 OCT 96	10 OCT 96
Lead	ND		1.0	0.0030		SW7421	01 OCT 96	01 OCT 96
Magnesium	ND		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Manganese	ND		1.0	0.015	mg/L	6010A	03 OCT 96	10 OCT 96
Mercury	ND		1.0	0.00020	mg/L	7470A	01 OCT 96	01 OCT 96
Nickel	ND		1.0	0.040	mg/L	6010A	03 OCT 96	10 OCT 96
Potassium	ND		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Sodium	ND		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Zinc	ND		1.0	0.020	mg/L	6010A	03 OCT 96	10 OCT 96

ND = Not Detected

Quanterra
Environmental Services

METALS
(Water - Dissolved)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51503-092396
LAB ID: 121485-0007-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Aluminum	ND		1.0	0.20	mg/L	6010A	30 SEP 96	10 OCT 96
Arsenic	ND		1.0	0.010	mg/L	7060A	03 OCT 96	04 OCT 96
Barium	ND		1.0	0.20	mg/L	6010A	30 SEP 96	10 OCT 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	30 SEP 96	10 OCT 96
Calcium	67.0		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Chromium	ND		1.0	0.010	mg/L	6010A	30 SEP 96	10 OCT 96
Copper	ND		1.0	0.025	mg/L	6010A	30 SEP 96	10 OCT 96
Iron	ND		1.0	0.10	mg/L	6010A	30 SEP 96	10 OCT 96
Lead	ND		1.0	0.0030	mg/L	SW7421	30 SEP 96	02 OCT 96
Magnesium	14.9		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Manganese	ND		1.0	0.015	mg/L	6010A	30 SEP 96	10 OCT 96
Mercury	ND		1.0	0.00020	mg/L	7470A	01 OCT 96	01 OCT 96
Nickel	ND		1.0	0.040	mg/L	6010A	30 SEP 96	10 OCT 96
Potassium	ND		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Sodium	14.7		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Zinc	ND		1.0	0.020	mg/L	6010A	30 SEP 96	10 OCT 96

ND = Not Detected

Quanterra Environmental Services

METALS
(Water - Dissolved)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51503K-092396
LAB ID: 121485-0008-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Aluminum	ND		1.0	0.20	mg/L	6010A	30 SEP 96	10 OCT 96
Arsenic	ND		1.0	0.010	mg/L	7060A	03 OCT 96	04 OCT 96
Barium	ND		1.0	0.20	mg/L	6010A	30 SEP 96	10 OCT 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	30 SEP 96	10 OCT 96
Calcium	72.9		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Chromium	ND		1.0	0.010	mg/L	6010A	30 SEP 96	10 OCT 96
Copper	ND		1.0	0.025	mg/L	6010A	30 SEP 96	10 OCT 96
Iron	0.11		1.0	0.10	mg/L	6010A	30 SEP 96	10 OCT 96
Lead	ND		1.0	0.0030	mg/L	SW7421	30 SEP 96	02 OCT 96
Magnesium	16.3		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Manganese	ND		1.0	0.015	mg/L	6010A	30 SEP 96	10 OCT 96
Mercury	ND		1.0	0.00020	mg/L	7470A	01 OCT 96	01 OCT 96
Nickel	ND		1.0	0.040	mg/L	6010A	30 SEP 96	10 OCT 96
Potassium	ND		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Sodium	15.8		1.0	5.0	mg/L	6010A	30 SEP 96	10 OCT 96
Zinc	0.024		1.0	0.020	mg/L	6010A	30 SEP 96	10 OCT 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51801-092396
LAB ID: 121485-0001-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Hardness as CaCO3	196		1.0	2.0	mg/L	130.2	NA	03 OCT 96
Alkalinity, Total as CaCO3	205		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Bicarb. as CaCO3	205		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Carb. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Hydrox. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Chloride	8.2		1.0	0.10	mg/L	E300.0	NA	24 SEP 96
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Nitrate as N	3.0		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Sulfate	34.0		10	2.0	mg/L	E300.0	NA	24 SEP 96
Total Dissolved Solids	272		1.0	10.0	mg/L	E160.1	NA	25 SEP 96
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	27 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51802-092396
LAB ID: 121485-0002-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Hardness as CaCO3	274		1.0	2.0	mg/L	130.2	NA	03 OCT 96
Alkalinity, Total as CaCO3	205		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Bicarb. as CaCO3	205		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Carb. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Hydrox. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Chloride	13.8		10	1.0	mg/L	E300.0	NA	24 SEP 96
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Nitrate as N	7.7		10	0.50	mg/L	E300.0	NA	24 SEP 96
Sulfate	33.6		10	2.0	mg/L	E300.0	NA	24 SEP 96
Total Dissolved Solids	337		1.0	10.0	mg/L	E160.1	NA	25 SEP 96
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	27 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51803-092396
LAB ID: 121485-0003-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Hardness as CaCO3	389		1.0	2.0	mg/L	130.2	NA	03 OCT 96
Alkalinity, Total as CaCO3	318		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Bicarb. as CaCO3	318		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Carb. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Hydrox. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Chloride	28.5		10	1.0	mg/L	E300.0	NA	24 SEP 96
Nitrite as N	0.66		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Nitrate as N	2.2		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Sulfate	38.6		10	2.0	mg/L	E300.0	NA	24 SEP 96
Total Dissolved Solids	447		1.0	10.0	mg/L	E160.1	NA	25 SEP 96
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	27 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51501-092396
LAB ID: 121485-0004-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Hardness as CaCO3	255		1.0	2.0	mg/L	130.2	NA	03 OCT 96
Alkalinity, Total as CaCO3	193		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Bicarb. as CaCO3	193		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Carb. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Hydrox. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Chloride	10.0		10	1.0	mg/L	E300.0	NA	24 SEP 96
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Nitrate as N	3.3		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Sulfate	58.2		10	2.0	mg/L	E300.0	NA	26 SEP 96
Total Dissolved Solids	332		1.0	10.0	mg/L	E160.1	NA	25 SEP 96
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	27 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51502-092396
LAB ID: 121485-0005-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Alkalinity, Total as CaCO3	197		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Bicarb. as CaCO3	197		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Carb. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Hydrox. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Chloride	15.0		10	1.0	mg/L	E300.0	NA	24 SEP 96
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Nitrate as N	3.8		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Sulfate	46.2		10	2.0	mg/L	E300.0	NA	24 SEP 96
Total Dissolved Solids	342		1.0	10.0	mg/L	E160.1	NA	25 SEP 96
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	27 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51502-092396
LAB ID: 121485-0005-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Hardness as CaCO3	258		1.0	2.0	mg/L	SM2340	NA	10 OCT 96

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51502N-092396
LAB ID: 121485-0006-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Hardness as CaCO3	ND		1.0	2.0	mg/L	130.2	NA	03 OCT 96
Alkalinity, Total as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Bicarb. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Carb. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Hydrox. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Chloride	ND		1.0	0.10	mg/L	E300.0	NA	24 SEP 96
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Nitrate as N	ND		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Sulfate	ND		1.0	0.20	mg/L	E300.0	NA	24 SEP 96
Total Dissolved Solids	ND		1.0	10.0	mg/L	E160.1	NA	25 SEP 96
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	27 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51503-092396
LAB ID: 121485-0007-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Hardness as CaCO3	228		1.0	2.0	mg/L	130.2	NA	03 OCT 96
Alkalinity, Total as CaCO3	172		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Bicarb. as CaCO3	172		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Carb. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Hydrox. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Chloride	25.8		10	1.0	mg/L	E300.0	NA	24 SEP 96
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Nitrate as N	3.0		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Sulfate	40.7		10	2.0	mg/L	E300.0	NA	24 SEP 96
Total Dissolved Solids	318		1.0	10.0	mg/L	E160.1	NA	25 SEP 96
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	27 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51503K-092396
LAB ID: 121485-0008-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Hardness as CaCO3	234		1.0	2.0	mg/L	130.2	NA	03 OCT 96
Alkalinity, Total as CaCO3	174		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Bicarb. as CaCO3	174		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Carb. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Alkalinity, Hydrox. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	26 SEP 96
Chloride	25.3		10	1.0	mg/L	E300.0	NA	24 SEP 96
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Nitrate as N	3.0		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Sulfate	40.6		10	2.0	mg/L	E300.0	NA	24 SEP 96
Total Dissolved Solids	326		1.0	10.0	mg/L	E160.1	NA	25 SEP 96
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	27 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50501-092396
LAB ID: 121485-0009-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Nitrate as N	2.0		1.0	0.050	mg/L	E300.0	NA	24 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50502-092396
LAB ID: 121485-0010-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Nitrate as N	3.8		1.0	0.050	mg/L	E300.0	NA	24 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50502K-092396
LAB ID: 121485-0011-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Nitrate as N	3.8		1.0	0.050	mg/L	E300.0	NA	24 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50503-092396
LAB ID: 121485-0012-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Nitrate as N	3.9		1.0	0.050	mg/L	E300.0	NA	24 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50504-092396
LAB ID: 121485-0013-SA
Matrix: WATER
Authorized: 24 SEP 96

Sampled: 23 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	24 SEP 96
Nitrate as N	9.9		10	0.50	mg/L	E300.0	NA	25 SEP 96

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51801-092396
LAB ID: 121485-0001-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	1.6	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	0.12	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.95		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	1.6		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	0.61	J	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51801-092396
LAB ID: 121485-0001-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	102	%	80 - 120
Toluene-d8	93	%	88 - 110
Bromofluorobenzene	97	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51802-092396
LAB ID: 121485-0002-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	2.1		1.0	0.10	ug/L
Methylene chloride	1.4	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	4.5		1.0	0.20	ug/L
Chloroform	0.56	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	0.39	J	1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.58		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	210	E	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	130	E	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51802-092396
LAB ID: 121485-0002-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	103	%	80 - 120
Toluene-d8	90	%	88 - 110
Bromofluorobenzene	93	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51802-092396
LAB ID: 121485-0002-DL
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MD Dilution: 5.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		5.0	0.50	ug/L
Chloromethane	ND		5.0	1.5	ug/L
Vinyl chloride	ND		2.5	1.0	ug/L
Bromomethane	ND		5.0	0.50	ug/L
Chloroethane	ND		5.0	1.5	ug/L
Trichlorofluoromethane	ND		5.0	1.0	ug/L
1,1-Dichloroethene	2.6	J	5.0	0.50	ug/L
Methylene chloride	0.89	J	10	0.50	ug/L
trans-1,2-Dichloroethene	ND		5.0	0.50	ug/L
1,1-Dichloroethane	ND		5.0	0.50	ug/L
2,2-Dichloropropane	ND		5.0	1.0	ug/L
cis-1,2-Dichloroethene	5.6		5.0	1.0	ug/L
Chloroform	0.59	J	5.0	0.50	ug/L
Bromochloromethane	ND		5.0	0.50	ug/L
1,1,1-Trichloroethane	ND		5.0	0.50	ug/L
1,1-Dichloropropene	ND		5.0	0.50	ug/L
Carbon tetrachloride	ND		2.5	1.0	ug/L
1,2-Dichloroethane	ND		2.5	0.50	ug/L
Benzene	ND		2.5	0.50	ug/L
Trichloroethene	240		5.0	0.50	ug/L
1,2-Dichloropropane	ND		5.0	0.50	ug/L
Bromodichloromethane	ND		5.0	0.50	ug/L
Dibromomethane	ND		5.0	1.0	ug/L
Toluene	ND		5.0	1.0	ug/L
1,1,2-Trichloroethane	ND		5.0	1.0	ug/L
1,2-Dibromoethane (EDB)	ND		5.0	1.0	ug/L
1,3-Dichloropropane	ND		5.0	1.0	ug/L
Tetrachloroethene	140		5.0	1.0	ug/L
Dibromochloromethane	ND		5.0	1.0	ug/L
Chlorobenzene	ND		5.0	0.50	ug/L
1,1,1,2-Tetrachloroethane	ND		5.0	0.50	ug/L
Ethylbenzene	ND		5.0	0.50	ug/L
Xylenes (total)	ND		5.0	1.5	ug/L
Styrene	ND		5.0	0.50	ug/L
Bromoform	ND		5.0	0.50	ug/L
1-Methylethylbenzene	ND		5.0	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND		5.0	0.50	ug/L
1,2,3-Trichloropropane	ND		5.0	2.0	ug/L
n-Propylbenzene	ND		5.0	1.0	ug/L
Bromobenzene	ND		5.0	1.0	ug/L
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/L
2-Chlorotoluene	ND		5.0	1.5	ug/L
4-Chlorotoluene	ND		5.0	1.5	ug/L
tert-Butylbenzene	ND		5.0	0.50	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51802-092396
LAB ID: 121485-0002-DL
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MD Dilution: 5.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/L
sec-Butylbenzene	ND		5.0	0.50	ug/L
Isopropyltoluene	ND		5.0	0.50	ug/L
1,3-Dichlorobenzene	ND		5.0	0.50	ug/L
1,4-Dichlorobenzene	ND		5.0	0.50	ug/L
n-Butylbenzene	ND		5.0	1.0	ug/L
1,2-Dichlorobenzene	ND		5.0	0.50	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		5.0	3.0	ug/L
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/L
Hexachlorobutadiene	ND		5.0	0.50	ug/L
Naphthalene	ND		5.0	1.5	ug/L
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/L
2-Chloroethyl vinyl ether	ND		50	3.0	ug/L
cis-1,3-Dichloropropene	ND		2.5	1.0	ug/L
trans-1,3-Dichloropropene	ND		2.5	0.50	ug/L
Carbon disulfide	ND		25	0.50	ug/L
Methyl t-butyl ether	ND		25	2.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25	5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	94	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	94	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51803-092396
LAB ID: 121485-0003-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	6.6		1.0	0.10	ug/L
Methylene chloride	1.8	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	0.44	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	6.9		1.0	0.20	ug/L
Chloroform	1.6		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	1.3		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.54		0.50	0.20	ug/L
1,2-Dichloroethane	0.43	J	0.50	0.10	ug/L
Benzene	0.16	J	0.50	0.10	ug/L
Trichloroethene	140	E	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	110	E	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51803-092396
LAB ID: 121485-0003-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	0.22	J	1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	104	%	80 - 120
Toluene-d8	92	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51803-092396
LAB ID: 121485-0003-DL
Matrix: WATER
Authorized: 24 SEP 96
Instrument: GC/MS-MD

Sampled: 23 SEP 96
Prepared: 04 OCT 96
Dilution: 2.5

Received: 24 SEP 96
Analyzed: 04 OCT 96

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		2.5	0.25	ug/L
Chloromethane	ND		2.5	0.75	ug/L
Vinyl chloride	ND		1.2	0.50	ug/L
Bromomethane	ND		2.5	0.25	ug/L
Chloroethane	ND		2.5	0.75	ug/L
Trichlorofluoromethane	ND		2.5	0.50	ug/L
1,1-Dichloroethene	6.7		2.5	0.25	ug/L
Methylene chloride	0.83	J	5.0	0.25	ug/L
trans-1,2-Dichloroethene	ND		2.5	0.25	ug/L
1,1-Dichloroethane	0.45	J	2.5	0.25	ug/L
2,2-Dichloropropane	ND		2.5	0.50	ug/L
cis-1,2-Dichloroethene	7.2		2.5	0.50	ug/L
Chloroform	1.4	J	2.5	0.25	ug/L
Bromochloromethane	ND		2.5	0.25	ug/L
1,1,1-Trichloroethane	1.1	J	2.5	0.25	ug/L
1,1-Dichloropropene	ND		2.5	0.25	ug/L
Carbon tetrachloride	ND		1.2	0.50	ug/L
1,2-Dichloroethane	0.35	J	1.2	0.25	ug/L
Benzene	ND		1.2	0.25	ug/L
Trichloroethene	130		2.5	0.25	ug/L
1,2-Dichloropropane	ND		2.5	0.25	ug/L
Bromodichloromethane	ND		2.5	0.25	ug/L
Dibromomethane	ND		2.5	0.50	ug/L
Toluene	ND		2.5	0.50	ug/L
1,1,2-Trichloroethane	ND		2.5	0.50	ug/L
1,2-Dibromoethane (EDB)	ND		2.5	0.50	ug/L
1,3-Dichloropropane	ND		2.5	0.50	ug/L
Tetrachloroethene	110		2.5	0.50	ug/L
Dibromochloromethane	ND		2.5	0.50	ug/L
Chlorobenzene	ND		2.5	0.25	ug/L
1,1,1,2-Tetrachloroethane	ND		2.5	0.25	ug/L
Ethylbenzene	ND		2.5	0.25	ug/L
Xylenes (total)	ND		2.5	0.75	ug/L
Styrene	ND		2.5	0.25	ug/L
Bromoform	ND		2.5	0.25	ug/L
1-Methylethylbenzene	ND		2.5	0.25	ug/L
1,1,2,2-Tetrachloroethane	ND		2.5	0.25	ug/L
1,2,3-Trichloropropane	ND		2.5	1.0	ug/L
n-Propylbenzene	ND		2.5	0.50	ug/L
Bromobenzene	ND		2.5	0.50	ug/L
1,3,5-Trimethylbenzene	ND		2.5	0.25	ug/L
2-Chlorotoluene	ND		2.5	0.75	ug/L
4-Chlorotoluene	ND		2.5	0.75	ug/L
tert-Butylbenzene	ND		2.5	0.25	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51803-092396
LAB ID: 121485-0003-DL
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MD Dilution: 2.5

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		2.5	0.25	ug/L
sec-Butylbenzene	ND		2.5	0.25	ug/L
Isopropyltoluene	ND		2.5	0.25	ug/L
1,3-Dichlorobenzene	ND		2.5	0.25	ug/L
1,4-Dichlorobenzene	ND		2.5	0.25	ug/L
n-Butylbenzene	ND		2.5	0.50	ug/L
1,2-Dichlorobenzene	ND		2.5	0.25	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.5	1.5	ug/L
1,2,4-Trichlorobenzene	ND		2.5	0.50	ug/L
Hexachlorobutadiene	ND		2.5	0.25	ug/L
Naphthalene	ND		2.5	0.75	ug/L
1,2,3-Trichlorobenzene	ND		2.5	0.50	ug/L
2-Chloroethyl vinyl ether	ND		25	1.5	ug/L
cis-1,3-Dichloropropene	ND		1.2	0.50	ug/L
trans-1,3-Dichloropropene	ND		1.2	0.25	ug/L
Carbon disulfide	ND		12	0.25	ug/L
Methyl t-butyl ether	ND		12	1.2	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	2.5	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	93	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51501-092396
LAB ID: 121485-0004-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 03 OCT 96 Analyzed: 03 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	1.2	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	0.43	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.60		0.50	0.20	ug/L
1,2-Dichloroethane	0.33	J	0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	9.9		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	0.57	J	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51501-092396
LAB ID: 121485-0004-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 03 OCT 96 Analyzed: 03 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	95	%	80 - 120
Toluene-d8	92	%	88 - 110
Bromofluorobenzene	94	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51502-092396
LAB ID: 121485-0005-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	0.31	J	1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	13		1.0	0.10	ug/L
Methylene chloride	0.48	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	0.94	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	16		1.0	0.20	ug/L
Chloroform	2.6		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	4.0		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.83		0.50	0.20	ug/L
1,2-Dichloroethane	1.6		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	150	E	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	77		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51502-092396
LAB ID: 121485-0005-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	0.66	J	5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	108	%	80 - 120
Toluene-d8	94	%	88 - 110
Bromofluorobenzene	97	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51502-092396
LAB ID: 121485-0005-DL
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MD Dilution: 2.5

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		2.5	0.25	ug/L
Chloromethane	ND		2.5	0.75	ug/L
Vinyl chloride	ND		1.2	0.50	ug/L
Bromomethane	ND		2.5	0.25	ug/L
Chloroethane	ND		2.5	0.75	ug/L
Trichlorofluoromethane	ND		2.5	0.50	ug/L
1,1-Dichloroethene	13		2.5	0.25	ug/L
Methylene chloride	ND		5.0	0.25	ug/L
trans-1,2-Dichloroethene	ND		2.5	0.25	ug/L
1,1-Dichloroethane	0.89	J	2.5	0.25	ug/L
2,2-Dichloropropane	ND		2.5	0.50	ug/L
cis-1,2-Dichloroethene	16		2.5	0.50	ug/L
Chloroform	2.3	J	2.5	0.25	ug/L
Bromochloromethane	ND		2.5	0.25	ug/L
1,1,1-Trichloroethane	3.2		2.5	0.25	ug/L
1,1-Dichloropropene	ND		2.5	0.25	ug/L
Carbon tetrachloride	0.60	J	1.2	0.50	ug/L
1,2-Dichloroethane	1.2	J	1.2	0.25	ug/L
Benzene	ND		1.2	0.25	ug/L
Trichloroethene	140		2.5	0.25	ug/L
1,2-Dichloropropane	ND		2.5	0.25	ug/L
Bromodichloromethane	ND		2.5	0.25	ug/L
Dibromomethane	ND		2.5	0.50	ug/L
Toluene	ND		2.5	0.50	ug/L
1,1,2-Trichloroethane	ND		2.5	0.50	ug/L
1,2-Dibromoethane (EDB)	ND		2.5	0.50	ug/L
1,3-Dichloropropane	ND		2.5	0.50	ug/L
Tetrachloroethene	67		2.5	0.50	ug/L
Dibromochloromethane	ND		2.5	0.50	ug/L
Chlorobenzene	ND		2.5	0.25	ug/L
1,1,1,2-Tetrachloroethane	ND		2.5	0.25	ug/L
Ethylbenzene	ND		2.5	0.25	ug/L
Xylenes (total)	ND		2.5	0.75	ug/L
Styrene	ND		2.5	0.25	ug/L
Bromoform	ND		2.5	0.25	ug/L
1-Methylethylbenzene	ND		2.5	0.25	ug/L
1,1,2,2-Tetrachloroethane	ND		2.5	0.25	ug/L
1,2,3-Trichloropropane	ND		2.5	1.0	ug/L
n-Propylbenzene	ND		2.5	0.50	ug/L
Bromobenzene	ND		2.5	0.50	ug/L
1,3,5-Trimethylbenzene	ND		2.5	0.25	ug/L
2-Chlorotoluene	ND		2.5	0.75	ug/L
4-Chlorotoluene	ND		2.5	0.75	ug/L
tert-Butylbenzene	ND		2.5	0.25	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51502-092396
LAB ID: 121485-0005-DL
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MD Dilution: 2.5

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		2.5	0.25	ug/L
sec-Butylbenzene	ND		2.5	0.25	ug/L
Isopropyltoluene	ND		2.5	0.25	ug/L
1,3-Dichlorobenzene	ND		2.5	0.25	ug/L
1,4-Dichlorobenzene	ND		2.5	0.25	ug/L
n-Butylbenzene	ND		2.5	0.50	ug/L
1,2-Dichlorobenzene	ND		2.5	0.25	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.5	1.5	ug/L
1,2,4-Trichlorobenzene	ND		2.5	0.50	ug/L
Hexachlorobutadiene	ND		2.5	0.25	ug/L
Naphthalene	ND		2.5	0.75	ug/L
1,2,3-Trichlorobenzene	ND		2.5	0.50	ug/L
2-Chloroethyl vinyl ether	ND		25	1.5	ug/L
cis-1,3-Dichloropropene	ND		1.2	0.50	ug/L
trans-1,3-Dichloropropene	ND		1.2	0.25	ug/L
Carbon disulfide	ND		12	0.25	ug/L
Methyl t-butyl ether	ND		12	1.2	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	2.5	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	92	%	80 - 120
Toluene-d8	100	%	88 - 110
Bromofluorobenzene	90	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51502N-092396
LAB ID: 121485-0006-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	1.3	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	0.63	J	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51502N-092396
LAB ID: 121485-0006-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	96	%	80 - 120
Toluene-d8	89	%	88 - 110
Bromofluorobenzene	92	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51503-092396
LAB ID: 121485-0007-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	0.21	J	1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	8.4		1.0	0.10	ug/L
Methylene chloride	1.8	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	0.78	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	15		1.0	0.20	ug/L
Chloroform	1.4		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	0.44	J	1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.45	J	0.50	0.20	ug/L
1,2-Dichloroethane	0.39	J	0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	82		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	26		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51503-092396
LAB ID: 121485-0007-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	102	%	80 - 120
Toluene-d8	92	%	88 - 110
Bromofluorobenzene	95	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51503K-092396
LAB ID: 121485-0008-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	5.3		1.0	0.10	ug/L
Methylene chloride	0.63	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	0.60	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	13		1.0	0.20	ug/L
Chloroform	1.1		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	0.26	J	1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.26	J	0.50	0.20	ug/L
1,2-Dichloroethane	0.37	J	0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	60		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	18		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW51503K-092396
LAB ID: 121485-0008-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	101	%	80 - 120
Toluene-d8	90	%	88 - 110
Bromofluorobenzene	93	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50501-092396
LAB ID: 121485-0009-SA
Matrix: WATER
Authorized: 24 SEP 96
Instrument: GC/MS-MC

Sampled: 23 SEP 96
Prepared: 04 OCT 96
Dilution: 1.0

Received: 24 SEP 96
Analyzed: 04 OCT 96

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	2.2		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	0.19	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	8.0		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	1.1		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50501-092396
LAB ID: 121485-0009-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	104	%	80 - 120
Toluene-d8	95	%	88 - 110
Bromofluorobenzene	99	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50502-092396
LAB ID: 121485-0010-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	5.0		1.0	0.10	ug/L
Methylene chloride	1.4	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	5.0		1.0	0.20	ug/L
Chloroform	0.30	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	1.8		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.75		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	51		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	23		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50502-092396
LAB ID: 121485-0010-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	103	%	80 - 120
Toluene-d8	92	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50502K-092396
LAB ID: 121485-0011-SA
Matrix: WATER — Sampled: 23 SEP 96 — Received: 24 SEP 96
Authorized: 24 SEP 96 — Prepared: 04 OCT 96 — Analyzed: 04 OCT 96
Instrument: GC/MS-MC — Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	6.5		1.0	0.10	ug/L
Methylene chloride	1.4	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	6.0		1.0	0.20	ug/L
Chloroform	0.38	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	2.3		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.97		0.50	0.20	ug/L
1,2-Dichloroethane	0.20	J	0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	64		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	29		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50502K-092396
LAB ID: 121485-0011-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	103	%	80 - 120
Toluene-d8	92	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50503-092396
LAB ID: 121485-0012-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	23		1.0	0.10	ug/L
Methylene chloride	1.4	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	0.78	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	19		1.0	0.20	ug/L
Chloroform	1.2		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	10		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.86		0.50	0.20	ug/L
1,2-Dichloroethane	0.73		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	180	E	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	120	E	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50503-092396
LAB ID: 121485-0012-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	0.89	J	5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	103	%	80 - 120
Toluene-d8	92	%	88 - 110
Bromofluorobenzene	95	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50503-092396
LAB ID: 121485-0012-DL
Matrix: WATER
Authorized: 24 SEP 96
Instrument: GC/MS-MD

Sampled: 23 SEP 96
Prepared: 04 OCT 96
Dilution: 2.5

Received: 24 SEP 96
Analyzed: 04 OCT 96

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		2.5	0.25	ug/L
Chloromethane	ND		2.5	0.75	ug/L
Vinyl chloride	ND		1.2	0.50	ug/L
Bromomethane	ND		2.5	0.25	ug/L
Chloroethane	ND		2.5	0.75	ug/L
Trichlorofluoromethane	ND		2.5	0.50	ug/L
1,1-Dichloroethene	22		2.5	0.25	ug/L
Methylene chloride	0.96	J	5.0	0.25	ug/L
trans-1,2-Dichloroethene	ND		2.5	0.25	ug/L
1,1-Dichloroethane	0.77	J	2.5	0.25	ug/L
2,2-Dichloropropane	ND		2.5	0.50	ug/L
cis-1,2-Dichloroethene	20		2.5	0.50	ug/L
Chloroform	ND		2.5	0.25	ug/L
Bromochloromethane	ND		2.5	0.25	ug/L
1,1,1-Trichloroethane	8.5		2.5	0.25	ug/L
1,1-Dichloropropene	ND		2.5	0.25	ug/L
Carbon tetrachloride	0.56	J	1.2	0.50	ug/L
1,2-Dichloroethane	0.56	J	1.2	0.25	ug/L
Benzene	ND		1.2	0.25	ug/L
Trichloroethene	160		2.5	0.25	ug/L
1,2-Dichloropropane	ND		2.5	0.25	ug/L
Bromodichloromethane	ND		2.5	0.25	ug/L
Dibromomethane	ND		2.5	0.50	ug/L
Toluene	ND		2.5	0.50	ug/L
1,1,2-Trichloroethane	ND		2.5	0.50	ug/L
1,2-Dibromoethane (EDB)	ND		2.5	0.50	ug/L
1,3-Dichloropropane	ND		2.5	0.50	ug/L
Tetrachloroethene	110		2.5	0.50	ug/L
Dibromochloromethane	ND		2.5	0.50	ug/L
Chlorobenzene	ND		2.5	0.25	ug/L
1,1,1,2-Tetrachloroethane	ND		2.5	0.25	ug/L
Ethylbenzene	ND		2.5	0.25	ug/L
Xylenes (total)	ND		2.5	0.75	ug/L
Styrene	ND		2.5	0.25	ug/L
Bromoform	ND		2.5	0.25	ug/L
1-Methylethylbenzene	ND		2.5	0.25	ug/L
1,1,2,2-Tetrachloroethane	ND		2.5	0.25	ug/L
1,2,3-Trichloropropane	ND		2.5	1.0	ug/L
n-Propylbenzene	ND		2.5	0.50	ug/L
Bromobenzene	ND		2.5	0.50	ug/L
1,3,5-Trimethylbenzene	ND		2.5	0.25	ug/L
2-Chlorotoluene	ND		2.5	0.75	ug/L
4-Chlorotoluene	ND		2.5	0.75	ug/L
tert-Butylbenzene	ND		2.5	0.25	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50503-092396
LAB ID: 121485-0012-DL
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MD Dilution: 2.5

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		2.5	0.25	ug/L
sec-Butylbenzene	ND		2.5	0.25	ug/L
Isopropyltoluene	ND		2.5	0.25	ug/L
1,3-Dichlorobenzene	ND		2.5	0.25	ug/L
1,4-Dichlorobenzene	ND		2.5	0.25	ug/L
n-Butylbenzene	ND		2.5	0.50	ug/L
1,2-Dichlorobenzene	ND		2.5	0.25	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.5	1.5	ug/L
1,2,4-Trichlorobenzene	ND		2.5	0.50	ug/L
Hexachlorobutadiene	ND		2.5	0.25	ug/L
Naphthalene	ND		2.5	0.75	ug/L
1,2,3-Trichlorobenzene	ND		2.5	0.50	ug/L
2-Chloroethyl vinyl ether	ND		25	1.5	ug/L
cis-1,3-Dichloropropene	ND		1.2	0.50	ug/L
trans-1,3-Dichloropropene	ND		1.2	0.25	ug/L
Carbon disulfide	ND		12	0.25	ug/L
Methyl t-butyl ether	ND		12	1.2	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	2.5	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	94	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	92	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50504-092396
LAB ID: 121485-0013-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	1.9	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	0.15	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	1.1		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	1.8		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50504-092396
LAB ID: 121485-0013-SA
Matrix: WATER Sampled: 23 SEP 96 Received: 24 SEP 96
Authorized: 24 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	101	%	80 - 120
Toluene-d8	92	%	88 - 110
Bromofluorobenzene	95	%	86 - 115

ND = Not Detected

REPORT

TRUESDAIL LABORATORIES, INC.

CHEMISTS · MICROBIOLOGISTS · ENGINEERS
RESEARCH · DEVELOPMENT · TESTING
ESTABLISHED 1931

Quanterra Environmental Services
14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780
(714) 730-6239
FAX (714) 730-6462

CLIENT: QUANTERRA ENVIRONMENTAL SERVICES
1721 S. GRAND
SANTA ANA,CA 92705
Attention: PATTY MATA

DATE: 10/07/96

RECEIVED: 9/24/96

LABORATORY NO. 92926

SAMPLE: WATER/8

LAB NUMBER: 121485

DATE SAMPLED: 9/23/96

INVESTIGATION: RADON IN WATER ANALYSIS BY EPA DRAFT 913.0

RESULTS

Sample I.D.	Rn-222 pCi/L	Two Sigma Error
BP-GW-MW51801-092396(-001)	141	+/- 16
-GW-MW51802-092396(-002)	161	+/- 15
BP-GW-MW51803-092396(-003)	120	+/- 14
BP-GW-MW51501-092396(-004)	234	+/- 16
BP-GW-MW51502-092396(-005)	99	+/- 13
BP-GW-MW51502N-092396(-006)	42	+/- 14
BP-GW-MW51503-092396(-007)	100	+/- 14
BP-GW-MW51503K-092396(-008)	160	+/- 16

Date analyzed: 9/24/96

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Angela Burke

Angela Burke, Project Manager
Water and Waste Laboratory

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising of publicity matter without prior written authorization from these Laboratories.

REPORT

TRUESDAIL LABORATORIES, INC.

CHEMISTS · MICROBIOLOGISTS · ENGINEERS
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ESTABLISHED 1931

Quanterra Environmental Services
14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780
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CLIENT: QUANTERRA ENVIRONMENTAL SERVICES
1721 S. GRAND
SANTA ANA,CA 92705
Attention: PATTY MATA

DATE: 10/07/96

RECEIVED: 9/24/96

LABORATORY NO. 92926

INVESTIGATION: QUALITIY CONTROL DOCUMENTATION

RESULTS

LCS* Acceptable Recovery Range: 90-110%
Duplicate Acceptable Difference Range: 2 sigma

Parameter	LCS Result	LCS True Value	LCS % Recovery
Radon-High	5900	5912	99.8
Radon-Low	556	591.2	94.0

Parameter	Sample Result	Duplicate Result	Two Sigma Error
Radon	234	229	+/- 16

*LCS-Laboratory Control Sample

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Angela Burke

Angela Burke, Project Manager
Water and Waste Laboratory

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising of publicity matter without prior written authorization from these Laboratories.

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Wet Chemistry Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121485-0001-SA	AQUEOUS	QNO3-A		24 SEP 96-AX	24 SEP 96-AA
121485-0001-SA	AQUEOUS	QNO2-A		24 SEP 96-AX	24 SEP 96-AA
121485-0001-SA	AQUEOUS	QTDS-A	25 SEP 96-A	25 SEP 96-A	25 SEP 96-AA
121485-0001-SA	AQUEOUS	QTSS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AB
121485-0001-SA	AQUEOUS	HARD-A	03 OCT 96-A	03 OCT 96-A	03 OCT 96-AA
121485-0001-SA	AQUEOUS	QCL-IC-A		24 SEP 96-AX	24 SEP 96-AA
121485-0001-SA	AQUEOUS	QSO4-A		24 SEP 96-AX	25 SEP 96-AB
121485-0001-SA	AQUEOUS	QALK-A	26 SEP 96-A	26 SEP 96-A	26 SEP 96-AA
121485-0002-SA	AQUEOUS	QNO3-A		24 SEP 96-AX	24 SEP 96-AA
121485-0002-SA	AQUEOUS	QNO2-A		24 SEP 96-AX	24 SEP 96-AA
121485-0002-SA	AQUEOUS	QTDS-A	25 SEP 96-A	25 SEP 96-A	25 SEP 96-AA
121485-0002-SA	AQUEOUS	QTSS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AB
121485-0002-SA	AQUEOUS	HARD-A	03 OCT 96-A	03 OCT 96-A	03 OCT 96-AA
121485-0002-SA	AQUEOUS	QCL-IC-A		24 SEP 96-AX	24 SEP 96-AA
121485-0002-SA	AQUEOUS	QSO4-A		24 SEP 96-AX	25 SEP 96-AB
121485-0002-SA	AQUEOUS	QALK-A	26 SEP 96-A	26 SEP 96-A	26 SEP 96-AA
121485-0003-SA	AQUEOUS	QNO3-A		24 SEP 96-AX	24 SEP 96-AA
121485-0003-SA	AQUEOUS	QNO2-A		24 SEP 96-AX	24 SEP 96-AA
121485-0003-SA	AQUEOUS	QTDS-A	25 SEP 96-A	25 SEP 96-A	25 SEP 96-AA
121485-0003-SA	AQUEOUS	QTSS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AB
121485-0003-SA	AQUEOUS	HARD-A	03 OCT 96-A	03 OCT 96-A	03 OCT 96-AA
121485-0003-SA	AQUEOUS	QCL-IC-A		24 SEP 96-AX	24 SEP 96-AA
121485-0003-SA	AQUEOUS	QSO4-A		24 SEP 96-AX	25 SEP 96-AB
121485-0003-SA	AQUEOUS	QALK-A	26 SEP 96-A	26 SEP 96-A	26 SEP 96-AA
121485-0004-DU	AQUEOUS	QTDS-A	25 SEP 96-A	25 SEP 96-A	25 SEP 96-AA
121485-0004-DU	AQUEOUS	QTSS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AB
121485-0004-DU	AQUEOUS	HARD-A	03 OCT 96-A	03 OCT 96-A	03 OCT 96-AA
121485-0004-DU	AQUEOUS	QALK-A	26 SEP 96-A	26 SEP 96-A	26 SEP 96-AA
121485-0004-MS	AQUEOUS	QNO3-A		24 SEP 96-AX	24 SEP 96-AA
121485-0004-MS	AQUEOUS	QNO2-A		24 SEP 96-AX	24 SEP 96-AA
121485-0004-MS	AQUEOUS	QCL-IC-A		24 SEP 96-AX	24 SEP 96-AA
121485-0004-MS	AQUEOUS	QSO4-A		25 SEP 96-AX	25 SEP 96-AB
121485-0004-SA	AQUEOUS	QNO3-A		24 SEP 96-AX	24 SEP 96-AA
121485-0004-SA	AQUEOUS	QNO2-A		24 SEP 96-AX	24 SEP 96-AA
121485-0004-SA	AQUEOUS	QTDS-A	25 SEP 96-A	25 SEP 96-A	25 SEP 96-AA
121485-0004-SA	AQUEOUS	QTSS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AB
121485-0004-SA	AQUEOUS	HARD-A	03 OCT 96-A	03 OCT 96-A	03 OCT 96-AA
121485-0004-SA	AQUEOUS	QCL-IC-A		24 SEP 96-AX	24 SEP 96-AA

Quanterra Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Wet Chemistry Analysis and Preparation (cont.)

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121485-0004-SA	AQUEOUS	QSO4-A		25 SEP 96-AX	25 SEP 96-AB
121485-0004-SA	AQUEOUS	QALK-A	26 SEP 96-A	26 SEP 96-A	26 SEP 96-AA
121485-0004-SD	AQUEOUS	QNO3-A		24 SEP 96-AX	24 SEP 96-AA
121485-0004-SD	AQUEOUS	QNO2-A		24 SEP 96-AX	24 SEP 96-AA
121485-0004-SD	AQUEOUS	QCL-IC-A		24 SEP 96-AX	24 SEP 96-AA
121485-0004-SD	AQUEOUS	QSO4-A		25 SEP 96-AX	25 SEP 96-AB
121485-0005-SA	AQUEOUS	QNO3-A		24 SEP 96-AX	24 SEP 96-AA
121485-0005-SA	AQUEOUS	QNO2-A		24 SEP 96-AX	24 SEP 96-AA
121485-0005-SA	AQUEOUS	QTDS-A	25 SEP 96-A	25 SEP 96-A	25 SEP 96-AA
121485-0005-SA	AQUEOUS	QTSS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AB
121485-0005-SA	AQUEOUS	QCL-IC-A		24 SEP 96-AX	24 SEP 96-AA
121485-0005-SA	AQUEOUS	QSO4-A		24 SEP 96-AX	25 SEP 96-AB
121485-0005-SA	AQUEOUS	QALK-A	26 SEP 96-A	26 SEP 96-A	26 SEP 96-AA
121485-0006-SA	AQUEOUS	QNO3-A		24 SEP 96-AX	24 SEP 96-AA
121485-0006-SA	AQUEOUS	QNO2-A		24 SEP 96-AX	24 SEP 96-AA
121485-0006-SA	AQUEOUS	QTDS-A	25 SEP 96-A	25 SEP 96-A	25 SEP 96-AA
121485-0006-SA	AQUEOUS	QTSS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AB
121485-0006-SA	AQUEOUS	HARD-A	03 OCT 96-A	03 OCT 96-A	03 OCT 96-AA
121485-0006-SA	AQUEOUS	QCL-IC-A		24 SEP 96-AX	24 SEP 96-AA
121485-0006-SA	AQUEOUS	QSO4-A		24 SEP 96-AX	25 SEP 96-AB
121485-0006-SA	AQUEOUS	QALK-A	26 SEP 96-A	26 SEP 96-A	26 SEP 96-AA
121485-0007-SA	AQUEOUS	QNO3-A		24 SEP 96-AX	24 SEP 96-AA
121485-0007-SA	AQUEOUS	QNO2-A		24 SEP 96-AX	24 SEP 96-AA
121485-0007-SA	AQUEOUS	QTDS-A	25 SEP 96-A	25 SEP 96-A	25 SEP 96-AA
121485-0007-SA	AQUEOUS	QTSS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AB
121485-0007-SA	AQUEOUS	HARD-A	03 OCT 96-A	03 OCT 96-A	03 OCT 96-AA
121485-0007-SA	AQUEOUS	QCL-IC-A		24 SEP 96-AX	24 SEP 96-AA
121485-0007-SA	AQUEOUS	QSO4-A		24 SEP 96-AX	25 SEP 96-AB
121485-0007-SA	AQUEOUS	QALK-A	26 SEP 96-A	26 SEP 96-A	26 SEP 96-AA
121485-0008-SA	AQUEOUS	QNO3-A		24 SEP 96-AX	24 SEP 96-AA
121485-0008-SA	AQUEOUS	QNO2-A		24 SEP 96-AX	24 SEP 96-AA
121485-0008-SA	AQUEOUS	QTDS-A	25 SEP 96-A	25 SEP 96-A	25 SEP 96-AA
121485-0008-SA	AQUEOUS	QTSS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AB
121485-0008-SA	AQUEOUS	HARD-A	03 OCT 96-A	03 OCT 96-A	03 OCT 96-AA
121485-0008-SA	AQUEOUS	QCL-IC-A		24 SEP 96-AX	24 SEP 96-AA
121485-0008-SA	AQUEOUS	QSO4-A		24 SEP 96-AX	25 SEP 96-AB
121485-0008-SA	AQUEOUS	QALK-A	26 SEP 96-A	26 SEP 96-A	26 SEP 96-AA
121485-0009-SA	AQUEOUS	QNO3-A		24 SEP 96-AX	24 SEP 96-AA
121485-0009-SA	AQUEOUS	QNO2-A		24 SEP 96-AX	24 SEP 96-AA
121485-0010-SA	AQUEOUS	QNO3-A		24 SEP 96-AX	24 SEP 96-AA
121485-0010-SA	AQUEOUS	QNO2-A		24 SEP 96-AX	24 SEP 96-AA

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Wet Chemistry Analysis and Preparation (cont.)

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121485-0011-SA	AQUEOUS	QNO3-A		24 SEP 96-AX	24 SEP 96-AA
121485-0011-SA	AQUEOUS	QNO2-A		24 SEP 96-AX	24 SEP 96-AA
121485-0012-SA	AQUEOUS	QNO3-A		24 SEP 96-AX	24 SEP 96-AA
121485-0012-SA	AQUEOUS	QNO2-A		24 SEP 96-AX	24 SEP 96-AA
121485-0013-SA	AQUEOUS	QNO3-A		25 SEP 96-AX	24 SEP 96-AA
121485-0013-SA	AQUEOUS	QNO2-A		24 SEP 96-AX	24 SEP 96-AA

Quanterra
Environmental Services

DUPLICATE CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 121485

Category: QTDS-A Method E160.1 - Total Dissolved Solids (TDS)
Matrix: AQUEOUS
QC Lot: 25 SEP 96-A Date Analyzed: 25 SEP 96
Concentration Units: mg/L

Analyte	Concentration Spiked	Measured DCS1	Qual	DCS2	Qual	AVG	Accuracy Average (%) DCS	Limits	Precision (RPD) DCS	Limit
Total Dissolved Solids	1400	1410		1440		1430	102	85-115	2.5	20

Category: QTSS-A Method E160.2 - Total Suspended Solids (TSS)
Matrix: AQUEOUS
QC Lot: 27 SEP 96-A Date Analyzed: 27 SEP 96
Concentration Units: mg/L

Analyte	Concentration Spiked	Measured DCS1	Qual	DCS2	Qual	AVG	Accuracy Average (%) DCS	Limits	Precision (RPD) DCS	Limit
Total Suspended Solids	100	92.0		88.0		90.0	90	75-125	4.4	20

Category: HARD-A Hardness, Titration (Total)
Matrix: AQUEOUS
QC Lot: 03 OCT 96-A Date Analyzed: 03 OCT 96
Concentration Units: mg/L

Analyte	Concentration Spiked	Measured DCS1	Qual	DCS2	Qual	AVG	Accuracy Average (%) DCS	Limits	Precision (RPD) DCS	Limit
Hardness as CaCO3	215	226		226		226	105	80-120	0.0	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

DUPLICATE CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 121485

Category: QALK-A Method E310.1 - Alkalinity, Total as CaCO3
Matrix: AQUEOUS
QC Lot: 26 SEP 96-A Date Analyzed: 26 SEP 96
Concentration Units: mg/L

Analyte	Concentration Spiked	Measured DCS1	Qual	DCS2	Qual	AVG	Accuracy Average (%) DCS	Limits	Precision (RPD) DCS	Limit
Alkalinity, Total as CaCO3	1600	1630		1630		1630	102	80-120	0.25	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 121485

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 25 SEP 96
QC Run: 25 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrate as N	4.00	3.84	96	85-115

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 24 SEP 96
QC Run: 24 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrate as N	4.00	4.08	102	85-115

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 24 SEP 96
QC Run: 24 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrite as N	4.00	4.04	101	85-115

Category: QCL-IC-A Method E300.0 - Chloride, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 24 SEP 96
QC Run: 24 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Chloride	5.00	4.68	94	85-115

Category: QSO4-A Method E300.0 - Sulfate, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 25 SEP 96
QC Run: 25 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Sulfate	8.00	7.19	90	85-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation (cont.)
Project: 121485

Category: QSO4-A Method E300.0 - Sulfate, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 24 SEP 96
QC Run: 24 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Sulfate	8.00	7.62	95	85-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 121485

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
Sample: 121485-0004
MS Run: 24 SEP 96-AA
Units: mg/L

Analyte	Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
	Concentration								
Nitrate as N	3.29	22.1	22.0	20.0	94	93	0.5	85-115	20

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS
Sample: 121485-0004
MS Run: 24 SEP 96-AA
Units: mg/L

Analyte	Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
	Concentration								
Nitrite as N	ND	18.4	18.3	20.0	92	91	0.8	85-115	20

Category: QCL-IC-A Method E300.0 - Chloride, Ion Chromatography
Matrix: AQUEOUS
Sample: 121485-0004
MS Run: 24 SEP 96-AA
Units: mg/L

Analyte	Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
	Concentration								
Chloride	10.0	33.6	33.3	25.0	95	93	1.6	85-115	20

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 121485 (cont.)

Category: QSO4-A Method E300.0 - Sulfate, Ion Chromatography
Matrix: AQUEOUS
Sample: 121485-0004
MS Run: 25 SEP 96-AB
Units: mg/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	MSD	%RPD	Acceptance Limit Recov.	RPD
Sulfate	58.2	94.1	94.3	40.0	90	90	0.5	85-115	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 121485

Category: QTDS-A Method E160.1 - Total Dissolved Solids (TDS)
Matrix: AQUEOUS
Sample: 121485-0004
MS Run: 25 SEP 96-AA
Units: mg/L

Analyte	Concentration Sample	Concentration Duplicate	%RPD SA-DU	Acceptance Limit
Total Dissolved Solids	332	336	1.2	20

Category: QTSS-A Method E160.2 - Total Suspended Solids (TSS)
Matrix: AQUEOUS
Sample: 121485-0004
MS Run: 27 SEP 96-AB
Units: mg/L

Analyte	Concentration Sample	Concentration Duplicate	%RPD SA-DU	Acceptance Limit
Total Suspended Solids	ND	ND	NC	20

Category: HARD-A Hardness, Titration (Total)
Matrix: AQUEOUS
Sample: 121485-0004
MS Run: 03 OCT 96-AA
Units: mg/L

Analyte	Concentration Sample	Concentration Duplicate	%RPD SA-DU	Acceptance Limit
Hardness as CaCO3	255	257	0.78	20

NC = Not Calculated, calculation not applicable.
ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 121485 (cont.)

Category: QALK-A Method E310.1 - Alkalinity, Total as CaCO3
Matrix: AQUEOUS
Sample: 121485-0004
MS Run: 26 SEP 96-AA
Units: mg/L

Analyte	Concentration Sample	Concentration Duplicate	%RPD SA-DU	Acceptance Limit
Alkalinity, Total as CaCO3	193	191	1.0	20
Alkalinity, Bicarb. as CaCO3	193	191	1.0	20
Alkalinity, Carb. as CaCO3	ND	ND	NC	20
Alkalinity, Hydrox. as CaCO3	ND	ND	NC	20

NC = Not Calculated, calculation not applicable.
ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Wet Chemistry Analysis and Preparation
Project: 121485

Test: Q-NO3-IC-A Method 300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 24 SEP 96-AX Date Analyzed: 24 SEP 96

Analyte	Result	Units	Reporting Limit
Nitrate as N	ND	mg/L	0.050

Test: Q-NO3-IC-A Method 300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 25 SEP 96-AX Date Analyzed: 25 SEP 96

Analyte	Result	Units	Reporting Limit
Nitrate as N	ND	mg/L	0.050

Test: Q-NO2-IC-A Method 300.0 - Nitrite as N, Ion Chomatography
Matrix: AQUEOUS
QC Run: 24 SEP 96-AX Date Analyzed: 24 SEP 96

Analyte	Result	Units	Reporting Limit
Nitrite as N	ND	mg/L	0.050

Test: Q-TDS-A Method E160.1 - Total Dissolved Solids (TDS)
Matrix: AQUEOUS
QC Run: 25 SEP 96-A Date Analyzed: 25 SEP 96

Analyte	Result	Units	Reporting Limit
Total Dissolved Solids	ND	mg/L	10.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Wet Chemistry Analysis and Preparation
Project: 121485

Test: Q-TSS-A Method E160.2 - Total Suspended Solids (TSS)
Matrix: AQUEOUS
QC Run: 27 SEP 96-A Date Analyzed: 27 SEP 96

Analyte	Result	Units	Reporting Limit
Total Suspended Solids	ND	mg/L	10.0

Test: HARD-TITR-AT Method 130.2 - Hardness, Titration (Total)
Matrix: AQUEOUS
QC Run: 03 OCT 96-A Date Analyzed: 03 OCT 96

Analyte	Result	Units	Reporting Limit
Hardness as CaCO3	ND	mg/L	2.0

Test: Q-CL-IC-A Method E300.0 - Chloride, Ion Chromatography
Matrix: AQUEOUS
QC Run: 24 SEP 96-AX Date Analyzed: 24 SEP 96

Analyte	Result	Units	Reporting Limit
Chloride	ND	mg/L	0.10

Test: Q-SO4-IC-A Method E300.0 - Sulfate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 24 SEP 96-AX Date Analyzed: 24 SEP 96

Analyte	Result	Units	Reporting Limit
Sulfate	ND	mg/L	0.20

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT (cont.)
Wet Chemistry Analysis and Preparation
Project: 121485

Test: Q-SO4-IC-A Method E300.0 - Sulfate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 25 SEP 96-AX Date Analyzed: 25 SEP 96

Analyte	Result	Units	Reporting Limit
Sulfate	ND	mg/L	0.20

Test: Q-ALK-AT Method E310.1 - Alkalinity, Total as CaCO3
Matrix: AQUEOUS
QC Run: 26 SEP 96-A Date Analyzed: 26 SEP 96

Analyte	Result	Units	Reporting Limit
Alkalinity,Total as CaCO3	ND	mg/L	4.0
Alkalinity,Bicarb. as CaCO3	ND	mg/L	4.0
Alkalinity,Carb. as CaCO3	ND	mg/L	4.0
Alkalinity,Hydrox. as CaCO3	ND	mg/L	4.0

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Metals Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121485-0001-SA	AQUEOUS	QICP-A		30 SEP 96-BX	30 SEP 96-BA
121485-0001-SA	AQUEOUS	QPB-GF-A		30 SEP 96-CX	30 SEP 96-CA
121485-0001-SA	AQUEOUS	QAS-GF-A		03 OCT 96-DX	03 OCT 96-DA
121485-0001-SA	AQUEOUS	QHG-A		01 OCT 96-FX	01 OCT 96-FA
121485-0001-SA	AQUEOUS	ICP80_80-A		30 SEP 96-BX1	30 SEP 96-BA
121485-0002-SA	AQUEOUS	QICP-A		30 SEP 96-BX	30 SEP 96-BA
121485-0002-SA	AQUEOUS	QPB-GF-A		30 SEP 96-CX	30 SEP 96-CA
121485-0002-SA	AQUEOUS	QAS-GF-A		03 OCT 96-DX	03 OCT 96-DA
121485-0002-SA	AQUEOUS	QHG-A		01 OCT 96-FX	01 OCT 96-FA
121485-0002-SA	AQUEOUS	ICP80_80-A		30 SEP 96-BX1	30 SEP 96-BA
121485-0003-SA	AQUEOUS	QICP-A		30 SEP 96-BX	30 SEP 96-BA
121485-0003-SA	AQUEOUS	QPB-GF-A		30 SEP 96-CX	30 SEP 96-CA
121485-0003-SA	AQUEOUS	QAS-GF-A		03 OCT 96-DX	03 OCT 96-DA
121485-0003-SA	AQUEOUS	QHG-A		01 OCT 96-FX	01 OCT 96-FA
121485-0003-SA	AQUEOUS	ICP80_80-A		30 SEP 96-BX1	30 SEP 96-BA
121485-0004-MS	AQUEOUS	QICP-A		30 SEP 96-BX	30 SEP 96-BA
121485-0004-MS	AQUEOUS	QPB-GF-A		30 SEP 96-CX	30 SEP 96-CA
121485-0004-MS	AQUEOUS	QHG-A		01 OCT 96-FX	01 OCT 96-FA
121485-0004-MS	AQUEOUS	ICP80_80-A		30 SEP 96-BX1	30 SEP 96-BA
121485-0004-SA	AQUEOUS	QICP-A		30 SEP 96-BX	30 SEP 96-BA
121485-0004-SA	AQUEOUS	QPB-GF-A		30 SEP 96-CX	30 SEP 96-CA
121485-0004-SA	AQUEOUS	QAS-GF-A		03 OCT 96-DX	03 OCT 96-DA
121485-0004-SA	AQUEOUS	QHG-A		01 OCT 96-FX	01 OCT 96-FA
121485-0004-SA	AQUEOUS	ICP80_80-A		30 SEP 96-BX1	30 SEP 96-BA
121485-0004-SD	AQUEOUS	QICP-A		30 SEP 96-BX	30 SEP 96-BA
121485-0004-SD	AQUEOUS	QPB-GF-A		30 SEP 96-CX	30 SEP 96-CA
121485-0004-SD	AQUEOUS	QHG-A		01 OCT 96-FX	01 OCT 96-FA
121485-0004-SD	AQUEOUS	ICP80_80-A		30 SEP 96-BX1	30 SEP 96-BA
121485-0005-MS	AQUEOUS	QAS-GF-A		03 OCT 96-DX	03 OCT 96-DA
121485-0005-SA	AQUEOUS	QICP-A		30 SEP 96-BX	30 SEP 96-BA
121485-0005-SA	AQUEOUS	QPB-GF-A		30 SEP 96-CX	30 SEP 96-CA
121485-0005-SA	AQUEOUS	QAS-GF-A		03 OCT 96-DX	03 OCT 96-DA
121485-0005-SA	AQUEOUS	QHG-A		01 OCT 96-FX	01 OCT 96-FA
121485-0005-SA	AQUEOUS	ICP80_80-A		30 SEP 96-BX1	30 SEP 96-BA
121485-0005-SD	AQUEOUS	QAS-GF-A		03 OCT 96-DX	03 OCT 96-DA
121485-0006-SA	AQUEOUS	QICP-A		03 OCT 96-AX	03 OCT 96-AA
121485-0006-SA	AQUEOUS	QPB-GF-A		01 OCT 96-BX	30 SEP 96-CA
121485-0006-SA	AQUEOUS	QAS-GF-A		03 OCT 96-DX	03 OCT 96-DA
121485-0006-SA	AQUEOUS	QHG-A		01 OCT 96-FX	01 OCT 96-FA
121485-0006-SA	AQUEOUS	ICP80_80-A		03 OCT 96-AX1	03 OCT 96-AA
121485-0007-SA	AQUEOUS	QICP-A		30 SEP 96-BX	30 SEP 96-BA
121485-0007-SA	AQUEOUS	QPB-GF-A		30 SEP 96-CX	30 SEP 96-CA
121485-0007-SA	AQUEOUS	QAS-GF-A		03 OCT 96-DX	03 OCT 96-DA
121485-0007-SA	AQUEOUS	QHG-A		01 OCT 96-FX	01 OCT 96-FA
121485-0007-SA	AQUEOUS	ICP80_80-A		30 SEP 96-BX1	30 SEP 96-BA
121485-0008-SA	AQUEOUS	QICP-A		30 SEP 96-BX	30 SEP 96-BA
121485-0008-SA	AQUEOUS	QPB-GF-A		30 SEP 96-CX	30 SEP 96-CA
121485-0008-SA	AQUEOUS	QAS-GF-A		03 OCT 96-DX	03 OCT 96-DA

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Metals Analysis and Preparation (cont.)

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121485-0008-SA	AQUEOUS	QHG-A		01 OCT 96-FX	01 OCT 96-FA
121485-0008-SA	AQUEOUS	ICP80_80-A		30 SEP 96-BX1	30 SEP 96-BA

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Metals Analysis and Preparation
Project: 121485

Category: QICP-A Method 6010A - ICP Metals
Matrix: AQUEOUS Date Analyzed: 10 OCT 96
QC Run: 30 SEP 96-BX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Aluminum	2.00	2.31	115	85-115
Barium	2.00	2.20	110	85-115
Cadmium	0.0500	0.0534	107	80-115
Calcium	50.0	54.2	108	85-115
Copper	0.250	0.264	106	85-115
Iron	1.00	1.13	113	85-120
Magnesium	50.0	54.0	108	85-115
Manganese	0.500	0.559	112	85-115
Nickel	0.500	0.555	111	85-115
Potassium	50.0	55.1	110	85-115
Sodium	50.0	55.2	110	80-120
Zinc	0.500	0.567	113	85-115

Category: QICP-A Method 6010A - ICP Metals
Matrix: AQUEOUS Date Analyzed: 10 OCT 96
QC Run: 03 OCT 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Barium	2.00	2.10	105	85-115
Cadmium	0.0500	0.0518	104	80-115
Calcium	50.0	52.1	104	85-115
Chromium	0.200	0.223	111	80-115
Copper	0.250	0.253	101	85-115
Iron	1.00	1.16	116	85-120
Magnesium	50.0	51.9	104	85-115
Manganese	0.500	0.536	107	85-115
Nickel	0.500	0.535	107	85-115
Potassium	50.0	52.8	106	85-115
Sodium	50.0	52.6	105	80-120
Zinc	0.500	0.544	109	85-115

Category: QPB-GF-A Lead, Graphite Furnace AA
Matrix: AQUEOUS Date Analyzed: 01 OCT 96
QC Run: 01 OCT 96-BX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Lead	0.0400	0.0426	106	80-120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Metals Analysis and Preparation (cont.)
Project: 121485

Category: QPB-GF-A Lead, Graphite Furnace AA
Matrix: AQUEOUS Date Analyzed: 02 OCT 96
QC Run: 30 SEP 96-CX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Lead	0.0400	0.0439	110	80-120

Category: QAS-GF-A Arsenic, Graphite Furnace AA
Matrix: AQUEOUS Date Analyzed: 04 OCT 96
QC Run: 03 OCT 96-DX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Arsenic	0.0400	0.0387	97	80-120

Category: QHG-A Mercury by CVAA
Matrix: AQUEOUS Date Analyzed: 01 OCT 96
QC Run: 01 OCT 96-FX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Mercury	0.00500	0.00490	98	85-115

Category: ICP80_80-A Method 6010A - ICP Metals
Matrix: AQUEOUS Date Analyzed: 10 OCT 96
QC Run: 30 SEP 96-BX1
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Chromium	0.200	0.232	116	80-120

Category: ICP80_80-A Method 6010A - ICP Metals
Matrix: AQUEOUS Date Analyzed: 10 OCT 96
QC Run: 03 OCT 96-AX1
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Aluminum	2.00	2.41	120	80-120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Metals Analysis and Preparation
Project: 121485

Category: QICP-A Method 6010A - ICP Metals
Matrix: AQUEOUS
Sample: 121485-0004
MS Run: 30 SEP 96-BA
Units: mg/L

Analyte	Sample Result	MS Result	MSD Result		Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
		Concentration								
Aluminum	ND	2.30	2.32	n	2.00	115	116	0.8	85-115	20
Barium	ND	2.17	2.20		2.00	109	110	1.4	85-115	20
Cadmium	ND	0.0534	0.0508		0.0500	107	102	4.9	80-115	20
Calcium	77.4	127	129		50.0	99	104	5.1	85-115	20
Chromium	ND	0.219	0.222		0.200	109	111	1.5	80-115	20
Copper	ND	0.254	0.263		0.250	102	105	3.3	85-115	20
Iron	ND	1.12	1.21	n	1.00	112	121	8.1	85-120	20
Magnesium	13.1	64.7	65.2		50.0	103	104	0.9	85-115	20
Manganese	ND	0.540	0.546		0.500	108	109	1.2	85-115	20
Nickel	ND	0.522	0.526		0.500	104	105	0.6	85-115	20
Potassium	ND	56.3	57.7		50.0	113	115	2.4	85-115	20
Sodium	13.3	69.0	70.7		50.0	111	115	3.0	80-120	20
Zinc	0.0325	0.555	0.544		0.500	105	102	2.2	85-115	20

Category: QICP-A Method 6010A - ICP Metals
Matrix: AQUEOUS
Sample: 121536-0007
MS Run: 03 OCT 96-AA
Units: mg/L

Analyte	Sample Result	MS Result	MSD Result		Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
		Concentration								
Barium	ND	2.28	2.21		2.00	114	110	3.2	85-115	20
Cadmium	ND	0.0550	0.0533		0.0500	110	107	3.0	80-115	20
Calcium	55.4	110	106		50.0	109	100	7.8	85-115	20
Chromium	ND	0.217	0.212		0.200	108	106	2.2	80-115	20
Copper	ND	0.269	0.258		0.250	107	103	4.2	85-115	20
Iron	ND	1.13	1.13		1.00	113	113	0.5	85-120	20
Magnesium	10.9	64.7	62.5		50.0	108	103	4.0	85-115	20
Manganese	ND	0.554	0.540		0.500	111	108	2.4	85-115	20
Nickel	ND	0.546	0.535		0.500	109	107	1.9	85-115	20
Potassium	ND	58.0	56.3	n	50.0	116	113	2.9	85-115	20
Sodium	10.4	66.1	64.0		50.0	111	107	3.9	80-120	20
Zinc	ND	0.562	0.546		0.500	112	109	2.9	85-115	20

n = Spiked analyte out of matrix spike acceptance limits; refer to lab control sample results.
ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Metals Analysis and Preparation
Project: 121485 (cont.)

Category: QPB-GF-A Lead, Graphite Furnace AA
Matrix: AQUEOUS
Sample: 121485-0004
MS Run: 30 SEP 96-CA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Lead	0.00530	0.0416	0.0444	0.0400	91	98	7.4	80-120	20

Category: QAS-GF-A Arsenic, Graphite Furnace AA
Matrix: AQUEOUS
Sample: 121485-0005
MS Run: 03 OCT 96-DA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Arsenic	ND	0.0376	0.0397	0.0400	94	99	5.4	80-120	20

Category: QHG-A Mercury by CVAA
Matrix: AQUEOUS
Sample: 121485-0004
MS Run: 01 OCT 96-FA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Mercury	0.00106	0.00208	0.00210	0.00100	102	104	1.9	85-115	20

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Metals Analysis and Preparation
Project: 121485 (cont.)

Category: ICP80_80-A Method 6010A - ICP Metals
Matrix: AQUEOUS
Sample: 121485-0004
MS Run: 30 SEP 96-BA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Chromium	ND	0.218	0.222	0.200	109	111	1.5	80-120	20

Category: ICP80_80-A Method 6010A - ICP Metals
Matrix: AQUEOUS
Sample: 121536-0007
MS Run: 03 OCT 96-AA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Aluminum	ND	2.30	2.33	2.00	115	116	1.0	80-120	20

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Metals Analysis and Preparation
Project: 121485

Test: Q-ICP-ADD Method 6010A - ICP Metals, Dissolved
Matrix: AQUEOUS
QC Run: 30 SEP 96-BX Date Analyzed: 10 OCT 96

Analyte	Result	Units	Reporting Limit
Aluminum	ND	mg/L	0.20
Barium	ND	mg/L	0.20
Cadmium	ND	mg/L	0.0050
Calcium	ND	mg/L	5.0
Copper	ND	mg/L	0.025
Iron	ND	mg/L	0.10
Magnesium	ND	mg/L	5.0
Manganese	ND	mg/L	0.015
Nickel	ND	mg/L	0.040
Potassium	ND	mg/L	5.0
Sodium	ND	mg/L	5.0
Zinc	ND	mg/L	0.020

Test: Q-ICP-ADD Method 6010A - ICP Metals, Dissolved
Matrix: AQUEOUS
QC Run: 03 OCT 96-AX Date Analyzed: 10 OCT 96

Analyte	Result	Units	Reporting Limit
Barium	ND	mg/L	0.20
Cadmium	ND	mg/L	0.0050
Calcium	ND	mg/L	5.0
Chromium	ND	mg/L	0.010
Copper	ND	mg/L	0.025
Iron	ND	mg/L	0.10
Magnesium	ND	mg/L	5.0
Manganese	ND	mg/L	0.015
Nickel	ND	mg/L	0.040
Potassium	ND	mg/L	5.0
Sodium	ND	mg/L	5.0
Zinc	ND	mg/L	0.020

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Metals Analysis and Preparation
Project: 121485

Test: Q-PB-GFAA-ADD Method 7421 - Lead, Graphite Furnace AA, Dissolved
Matrix: AQUEOUS
QC Run: 30 SEP 96-CX Date Analyzed: 01 OCT 96

Analyte	Result	Units	Reporting Limit
Lead	ND	mg/L	0.0030

Test: Q-PB-GFAA-ADD Method 7421 - Lead, Graphite Furnace AA, Dissolved
Matrix: AQUEOUS
QC Run: 01 OCT 96-BX Date Analyzed: 01 OCT 96

Analyte	Result	Units	Reporting Limit
Lead	ND	mg/L	0.0030

Test: Q-AS-GFAA-ADD Method 7060A - Arsenic, Graphite Furnace AA, Dissolved
Matrix: AQUEOUS
QC Run: 03 OCT 96-DX Date Analyzed: 04 OCT 96

Analyte	Result	Units	Reporting Limit
Arsenic	ND	mg/L	0.010

Test: Q-HG-CVAA-AD Method SW7470A - Mercury, Cold Vapor AA, Dissolved
Matrix: AQUEOUS
QC Run: 01 OCT 96-FX Date Analyzed: 01 OCT 96

Analyte	Result	Units	Reporting Limit
Mercury	ND	mg/L	0.00020

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Metals Analysis and Preparation
Project: 121485

Test: ICP-80L-80M-ADD Method 6010A - ICP Metals
Matrix: AQUEOUS
QC Run: 30 SEP 96-BX1 Date Analyzed: 10 OCT 96

Analyte	Result	Units	Reporting Limit
Chromium	ND	mg/L	0.010

Test: ICP-80L-80M-ADD Method 6010A - ICP Metals
Matrix: AQUEOUS
QC Run: 03 OCT 96-AX1 Date Analyzed: 10 OCT 96

Analyte	Result	Units	Reporting Limit
Aluminum	ND	mg/L	0.20

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121485-0001-SA	AQUEOUS	8260-A		03 OCT 96-BCX	03 OCT 96-BC
121485-0002-DL	AQUEOUS	8260-A		04 OCT 96-ADX	03 OCT 96-BC
121485-0002-SA	AQUEOUS	8260-A		03 OCT 96-BCX	
121485-0003-DL	AQUEOUS	8260-A		04 OCT 96-ADX	03 OCT 96-BC
121485-0003-SA	AQUEOUS	8260-A		03 OCT 96-BCX	
121485-0004-MS	AQUEOUS	8260-A		03 OCT 96-BCX	03 OCT 96-BC
121485-0004-SA	AQUEOUS	8260-A		03 OCT 96-BCX	03 OCT 96-BC
121485-0004-SD	AQUEOUS	8260-A		03 OCT 96-BCX	03 OCT 96-BC
121485-0005-DL	AQUEOUS	8260-A		04 OCT 96-ADX	03 OCT 96-BC
121485-0005-SA	AQUEOUS	8260-A		03 OCT 96-BCX	03 OCT 96-BC
121485-0006-SA	AQUEOUS	8260-A		03 OCT 96-BCX	03 OCT 96-BC
121485-0007-SA	AQUEOUS	8260-A		03 OCT 96-BCX	03 OCT 96-BC
121485-0008-SA	AQUEOUS	8260-A		03 OCT 96-BCX	03 OCT 96-BC
121485-0009-SA	AQUEOUS	8260-A		03 OCT 96-BCX	03 OCT 96-BC
121485-0010-SA	AQUEOUS	8260-A		03 OCT 96-BCX	03 OCT 96-BC
121485-0011-SA	AQUEOUS	8260-A		03 OCT 96-BCX	03 OCT 96-BC
121485-0012-DL	AQUEOUS	8260-A		04 OCT 96-ADX	03 OCT 96-BC
121485-0012-SA	AQUEOUS	8260-A		03 OCT 96-BCX	03 OCT 96-BC
121485-0013-SA	AQUEOUS	8260-A		03 OCT 96-BCX	03 OCT 96-BC

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121485

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 04 OCT 96
QC Run: 04 OCT 96-ADX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	11.3	113	64-124
Benzene	10.0	9.74	97	67-127
Trichloroethene	10.0	9.49	95	60-120
Toluene	10.0	9.71	97	72-132
Chlorobenzene	10.0	10.1	101	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.30	93	80-120
Toluene-d8	10.0	9.99	100	88-110
Bromofluorobenzene	10.0	9.33	93	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 03 OCT 96
QC Run: 03 OCT 96-BCX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	9.85	98	64-124
Benzene	10.0	8.63	86	67-127
Trichloroethene	10.0	9.88	99	60-120
Toluene	10.0	9.18	92	72-132
Chlorobenzene	10.0	9.18	92	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.1	101	80-120
Toluene-d8	10.0	9.20	92	88-110
Bromofluorobenzene	10.0	9.57	96	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 03 OCT 96
QC Run: 03 OCT 96-BCX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	9.85	98	64-124
Benzene	10.0	8.63	86	67-127
Trichloroethene	10.0	9.88	99	60-120
Toluene	10.0	9.18	92	72-132
Chlorobenzene	10.0	9.18	92	68-128

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS (cont.)
Project: 121485

Surrogates	Concentration Spiked	Concentration Measured	Accuracy (%) LCS	Accuracy (%) Limits
1,2-Dichloroethane-d4	10.0	10.1	101	80-120
Toluene-d8	10.0	9.20	92	88-110
Bromofluorobenzene	10.0	9.57	96	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 121485

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 121485-0004
MS Run: 03 OCT 96-BC
Units: ug/L

Analyte	Sample Result	Concentration MS Result	MSD Result		Amount Spiked MS/MSD	%Recovery MS	MSD	%RPD	Acceptance Limit Recov.	RPD
1,1-Dichloroethene	ND	10.8	10.6		10.0	108	106	1.9	64-124	25
Benzene	ND	9.28	9.03		10.0	93	90	2.7	67-127	25
Trichloroethene	9.90	20.4	22.8	n	10.0	105	129	21	60-120	25
Toluene	0.130 J	9.99	9.64		10.0	99	95	3.6	72-132	25
Chlorobenzene	ND	9.75	9.50		10.0	98	95	2.6	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	95	105	109	80-120
Toluene-d8	92	93	94	88-110
Bromofluorobenzene	94	98	98	86-115

J = Result is detected below the reporting limit or is an estimated concentration.
n = Spiked analyte out of matrix spike acceptance limits; refer to lab control sample results.
ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121485

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 04 OCT 96-ADX Date Analyzed: 04 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.30	93	80-120
Toluene-d8	10.0	10.2	102	88-110
Bromofluorobenzene	10.0	9.21	92	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 03 OCT 96-BCX Date Analyzed: 03 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.48	95	80-120
Toluene-d8	10.0	9.16	92	88-110
Bromofluorobenzene	10.0	9.37	94	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 03 OCT 96-BCX Date Analyzed: 03 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.48	95	80-120
Toluene-d8	10.0	9.16	92	88-110
Bromofluorobenzene	10.0	9.37	94	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121485

Test: 8260-A
Matrix: AQUEOUS
QC Run: 03 OCT 96-BCX

Method 8260 - Volatile Organics

Date Analyzed: 03 OCT 96

Analyte	Result	Units	Reporting Limit
Dichlorodifluoromethane	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Vinyl chloride	ND	ug/L	0.50
Bromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Methylene chloride	ND	ug/L	2.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
2,2-Dichloropropane	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1-Dichloropropene	ND	ug/L	1.0
Carbon tetrachloride	ND	ug/L	0.50
1,2-Dichloroethane	ND	ug/L	0.50
Benzene	ND	ug/L	0.50
Trichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Dibromomethane	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0
1,3-Dichloropropane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Dibromochloromethane	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Xylenes (total)	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
1-Methylethylbenzene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
1,2,3-Trichloropropane	ND	ug/L	1.0
n-Propylbenzene	ND	ug/L	1.0
Bromobenzene	ND	ug/L	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1.0
2-Chlorotoluene	ND	ug/L	1.0
4-Chlorotoluene	ND	ug/L	1.0
tert-Butylbenzene	ND	ug/L	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121485

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS
QC Run: 03 OCT 96-BCX Date Analyzed: 03 OCT 96

Analyte	Result	Units	Reporting Limit
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
n-Butylbenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1.0
Hexachlorobutadiene	ND	ug/L	1.0
Naphthalene	ND	ug/L	1.0
1,2,3-Trichlorobenzene	ND	ug/L	1.0
2-Chloroethyl vinyl ether	ND	ug/L	10
cis-1,3-Dichloropropene	ND	ug/L	0.50
trans-1,3-Dichloropropene	ND	ug/L	0.50
Carbon disulfide	ND	ug/L	5.0
Methyl t-butyl ether	ND	ug/L	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121485

Test: 8260-A
Matrix: AQUEOUS
QC Run: 03 OCT 96-BCX

Method 8260 - Volatile Organics

Date Analyzed: 03 OCT 96

Analyte	Result	Units	Reporting Limit
Dichlorodifluoromethane	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Vinyl chloride	ND	ug/L	0.50
Bromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Methylene chloride	ND	ug/L	2.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
2,2-Dichloropropane	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1-Dichloropropene	ND	ug/L	1.0
Carbon tetrachloride	ND	ug/L	0.50
1,2-Dichloroethane	ND	ug/L	0.50
Benzene	ND	ug/L	0.50
Trichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Dibromomethane	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0
1,3-Dichloropropane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Dibromochloromethane	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Xylenes (total)	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
1-Methylethylbenzene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
1,2,3-Trichloropropane	ND	ug/L	1.0
n-Propylbenzene	ND	ug/L	1.0
Bromobenzene	ND	ug/L	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1.0
2-Chlorotoluene	ND	ug/L	1.0
4-Chlorotoluene	ND	ug/L	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121485

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS
QC Run: 03 OCT 96-BCX Date Analyzed: 03 OCT 96

Analyte	Result	Units	Reporting Limit
tert-Butylbenzene	ND	ug/L	1.0
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
n-Butylbenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1.0
Hexachlorobutadiene	ND	ug/L	1.0
Naphthalene	ND	ug/L	1.0
1,2,3-Trichlorobenzene	ND	ug/L	1.0
2-Chloroethyl vinyl ether	ND	ug/L	10
cis-1,3-Dichloropropene	ND	ug/L	0.50
trans-1,3-Dichloropropene	ND	ug/L	0.50
Carbon disulfide	ND	ug/L	5.0
Methyl t-butyl ether	ND	ug/L	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121485

Test: 8260-A
Matrix: AQUEOUS
QC Run: 04 OCT 96-ADX

Method 8260 - Volatile Organics

Date Analyzed: 04 OCT 96

Analyte	Result	Units	Reporting Limit
Dichlorodifluoromethane	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Vinyl chloride	ND	ug/L	0.50
Bromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Methylene chloride	ND	ug/L	2.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
2,2-Dichloropropane	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1-Dichloropropene	ND	ug/L	1.0
Carbon tetrachloride	ND	ug/L	0.50
1,2-Dichloroethane	ND	ug/L	0.50
Benzene	ND	ug/L	0.50
Trichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Dibromomethane	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0
1,3-Dichloropropane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Dibromochloromethane	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Xylenes (total)	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
1-Methylethylbenzene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
1,2,3-Trichloropropane	ND	ug/L	1.0
n-Propylbenzene	ND	ug/L	1.0
Bromobenzene	ND	ug/L	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1.0
2-Chlorotoluene	ND	ug/L	1.0
4-Chlorotoluene	ND	ug/L	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121485

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS
QC Run: 04 OCT 96-ADX Date Analyzed: 04 OCT 96

Analyte	Result	Units	Reporting Limit
tert-Butylbenzene	ND	ug/L	1.0
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
n-Butylbenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1.0
Hexachlorobutadiene	ND	ug/L	1.0
Naphthalene	ND	ug/L	1.0
1,2,3-Trichlorobenzene	ND	ug/L	1.0
2-Chloroethyl vinyl ether	ND	ug/L	10
cis-1,3-Dichloropropene	ND	ug/L	0.50
trans-1,3-Dichloropropene	ND	ug/L	0.50
Carbon disulfide	ND	ug/L	5.0
Methyl t-butyl ether	ND	ug/L	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121485

Test: 8260-A
Matrix: AQUEOUS
QC Run: 04 OCT 96-ADX

Method 8260 - Volatile Organics

Date Analyzed: 04 OCT 96

Analyte	Result	Units	Reporting Limit
Dichlorodifluoromethane	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Vinyl chloride	ND	ug/L	0.50
Bromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Methylene chloride	ND	ug/L	2.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
2,2-Dichloropropane	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1-Dichloropropene	ND	ug/L	1.0
Carbon tetrachloride	ND	ug/L	0.50
1,2-Dichloroethane	ND	ug/L	0.50
Benzene	ND	ug/L	0.50
Trichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Dibromomethane	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0
1,3-Dichloropropane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Dibromochloromethane	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Xylenes (total)	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
1-Methylethylbenzene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
1,2,3-Trichloropropane	ND	ug/L	1.0
n-Propylbenzene	ND	ug/L	1.0
Bromobenzene	ND	ug/L	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1.0
2-Chlorotoluene	ND	ug/L	1.0
4-Chlorotoluene	ND	ug/L	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121485

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS
QC Run: 04 OCT 96-ADX Date Analyzed: 04 OCT 96

Analyte	Result	Units	Reporting Limit
tert-Butylbenzene	ND	ug/L	1.0
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
n-Butylbenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1.0
Hexachlorobutadiene	ND	ug/L	1.0
Naphthalene	ND	ug/L	1.0
1,2,3-Trichlorobenzene	ND	ug/L	1.0
2-Chloroethyl vinyl ether	ND	ug/L	10
cis-1,3-Dichloropropene	ND	ug/L	0.50
trans-1,3-Dichloropropene	ND	ug/L	0.50
Carbon disulfide	ND	ug/L	5.0
Methyl t-butyl ether	ND	ug/L	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0

ND = Not Detected

Quanterra Incorporated
1721 South Grand Avenue
Santa Ana, California 92705

714 258-8610 Telephone
714 258-0921 Fax

Quanterra
Environmental Services

October 25, 1996

CAMP, DRESSER & McKEE
18881 VON KARMAN, SUITE 650
IRVINE, CA 92612
ATTN: MS. SUZANNE ROWE

LIMS NO.: 121536-0001/0008
DATE SAMPLED: 24-SEP-1996
DATE SAMPLE REC'D: 24-SEP-1996
PROJECT: BALDWIN PARK

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Preliminary data were provided on October 14, 1996 at 3:50 P.M. to Suzanne Rowe.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Patty Mata at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Project Manager

cc: Project File

Quanterra Environmental Services

LIMS REPORT KEY

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

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Chain-of-Custody Records and Sample Description Information

Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries

CASE NARRATIVE

LIMS # 121536

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 4.9°C.

Sample containers were received intact. The VOA vials did not contain headspace. Proper preservation of applicable samples was verified upon receipt and documented on the Sample Control worksheet. Sample container labels did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Sample was received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

III. METALS (BY METHOD: SW6010A, SW7060A, SW7421, SW7470)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blank data met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria with the exception of the following: Matrix spike recovery was outside the acceptance limits for potassium. However, the acceptable LCS analysis data indicated that the analytical system was operating within control and this condition is most likely due to matrix interference.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

CASE NARRATIVE

LIMS # 121536

SAMPLE RESULTS

IV. GENERAL CHEMISTRY (BY METHOD: E300.0, E160.1, E160.2, E130.2, E310.1)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

SAMPLE RESULTS
Please note that method E310.1 was performed in lieu of SM2320 for alkalinity.

V. OUTSIDE ANALYSIS

Please note that Truesdail Laboratories in Tustin California, performed the Radon in water analysis by method 913.0. Their report is attached to the end of the Quanterra-Santa Ana report.

Chain of Custody Record

QUA-4124-1

Quanterra Environmental Services

Client	Project Manager	Date	Chain Of Custody Number
CDM	Suzanne Rowe	9-24-96	62389
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
Morada, Big Dalton + MWS-08	(714) 752-5452	121536	

City	State	Zip Code	Site Contact	Lab Contact
Irwindale + Baldwin Park	CA		Barbara Wells	Patty Mattra

Project Name: Baldwin Park Operable Unit

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOCs 8260	NO2+NO3 300	Cations Ca, K, Mg, Na 6010	Anions Cl, SO4 300.0	Alkalinity (2320)	TDS/TSS 160.2 160.1	Radon (913.0)	Hardness (130.2)	Metals (6010, 7000)	Al, As, Be, 7421, 7470	Cd, Mn, Hg, Ni, Zn	MS/MSD	Special Instructions/ Conditions of Receipt
BP-GW-01900029-092496	9-24-96	0900	X				X			X			X	X											3-40ml VOAs + 1-250 ml poly +HCL
BP-GW-01900035-092496		1020	X				X			X			X	X											
BP-GW-MW50801-092496		1200	X				X			X			X	X	X	X	X	X	X	X	X				3-40ml VOAs + HCL, 2-40ml 1-250ml + 1-500 poly
BP-GW-MW50802-092496		1300	X				X			X			X	X	X	X	X	X	X	X	X				
BP-GW-MW50803-092496		1405	X				X			X			X	X	X	X	X	X	X	X	X				
BP-GW-MW50803N-092496		1415	X				X			X			X	X	X	X	X	X	X	X	X				
BP-GW-MW50804-092496	9-24-96	1530	X				X			X			X	X	X	X	X	X	X	X	X			**	5-40ml VOAs/HCLs 2-40ml 1-250ml + 3-500ml poly
BP-GW-~~MWS~~ 01900083I - 092496	9-24-96	1705	X				X			X			X	X											3-40ml VOAs/HCL 1-250ml poly

4.9°C

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other normal

QC Requirements (Specify): CLP TYPE PAPERWORK

Relinquished By	Date	Time	Received By	Date	Time
1. Patto M. M	9-24-96	1812	1. [signature]	9-24-96	1812
2.			2.		
3.			3.		

Comments: * SAMPLE NEEDS TO BE FILTERED BY LAB ** MS/MSD

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Camp, Dresser & McKee

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
121536-0001-SA	BP-GW-01900029-092496	WATER	24 SEP 96	09:00	24 SEP 96
121536-0002-SA	BP-GW-01900035-092496	WATER	24 SEP 96	10:20	24 SEP 96
121536-0003-SA	BP-GW-MW50801-092496	WATER	24 SEP 96	12:00	24 SEP 96
121536-0004-SA	BP-GW-MW50802-092496	WATER	24 SEP 96	13:00	24 SEP 96
121536-0005-SA	BP-GW-MW50803-092496	WATER	24 SEP 96	14:05	24 SEP 96
121536-0006-SA	BP-GW-MW50803N-092496	WATER	24 SEP 96	14:15	24 SEP 96
121536-0007-SA	BP-GW-MW50804-092496	WATER	24 SEP 96	15:30	24 SEP 96
121536-0007-MS	BP-GW-MW50804-092496	WATER	24 SEP 96	15:30	24 SEP 96
121536-0007-SD	BP-GW-MW50804-092496	WATER	24 SEP 96	15:30	24 SEP 96
121536-0007-DU	BP-GW-MW50804-092496	WATER	24 SEP 96	15:30	24 SEP 96
121536-0008-SA	BP-GW-019000831-092496	WATER	24 SEP 96	17:05	24 SEP 96

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900029-092496
LAB ID: 121536-0001-SA
Matrix: WATER Sampled: 24 SEP 96 Received: 24 SEP 96
Authorized: 25 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	0.68	J	1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	1.1	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	0.12	J	1.0	0.10	ug/L
1,1-Dichloroethane	1.0		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	3.3		1.0	0.20	ug/L
Chloroform	0.86	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	2.8		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	0.16	J	1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	3.3		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900029-092496
LAB ID: 121536-0001-SA
Matrix: WATER Sampled: 24 SEP 96 Received: 24 SEP 96
Authorized: 25 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	94	%	80 - 120
Toluene-d8	102	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900035-092496
LAB ID: 121536-0002-SA
Matrix: WATER Sampled: 24 SEP 96 Received: 24 SEP 96
Authorized: 25 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	1.3		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	0.31	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	0.85	J	1.0	0.20	ug/L
Chloroform	1.2		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.38	J	0.50	0.20	ug/L
1,2-Dichloroethane	1.3		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	15		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	1.6		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900035-092496
LAB ID: 121536-0002-SA
Matrix: WATER — Sampled: 24 SEP 96 — Received: 24 SEP 96
Authorized: 25 SEP 96 — Prepared: 04 OCT 96 — Analyzed: 04 OCT 96
Instrument: GC/MS-MD — Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	95	%	80 - 120
Toluene-d8	102	%	88 - 110
Bromofluorobenzene	94	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50801-092496
LAB ID: 121536-0003-SA
Matrix: WATER
Authorized: 25 SEP 96
Instrument: GC/MS-MD

Sampled: 24 SEP 96
Prepared: 04 OCT 96
Dilution: 1.0

Received: 24 SEP 96
Analyzed: 04 OCT 96

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	1.3	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.66		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	0.66	J	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50801-092496
LAB ID: 121536-0003-SA
Matrix: WATER Sampled: 24 SEP 96 Received: 24 SEP 96
Authorized: 25 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	1.2	J	5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	97	%	80 - 120
Toluene-d8	103	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50802-092496
LAB ID: 121536-0004-SA
Matrix: WATER Sampled: 24 SEP 96 Received: 24 SEP 96
Authorized: 25 SEP 96 Prepared: 05 OCT 96 Analyzed: 05 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	0.50	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.33	J	0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	0.36	J	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	0.20	J	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50802-092496
LAB ID: 121536-0004-SA
Matrix: WATER Sampled: 24 SEP 96 Received: 24 SEP 96
Authorized: 25 SEP 96 Prepared: 05 OCT 96 Analyzed: 05 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	94	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	93	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50803-092496
LAB ID: 121536-0005-SA
Matrix: WATER Sampled: 24 SEP 96 Received: 24 SEP 96
Authorized: 25 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	1.1	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.66	J	0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	0.61	J	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50803-092496
LAB ID: 121536-0005-SA
Matrix: WATER Sampled: 24 SEP 96 Received: 24 SEP 96
Authorized: 25 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	100	%	80 - 120
Toluene-d8	107	%	88 - 110
Bromofluorobenzene	100	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50803N-092496
LAB ID: 121536-0006-SA
Matrix: WATER
Authorized: 25 SEP 96
Instrument: GC/MS-MD

Sampled: 24 SEP 96
Prepared: 04 OCT 96
Dilution: 1.0

Received: 24 SEP 96
Analyzed: 04 OCT 96

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	1.8	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	0.61	J	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50803N-092496
LAB ID: 121536-0006-SA
Matrix: WATER Sampled: 24 SEP 96 Received: 24 SEP 96
Authorized: 25 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	1.0	J	5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	98	%	80 - 120
Toluene-d8	104	%	88 - 110
Bromofluorobenzene	98	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50804-092496
LAB ID: 121536-0007-SA
Matrix: WATER
Authorized: 25 SEP 96
Instrument: GC/MS-MD

Sampled: 24 SEP 96
Prepared: 04 OCT 96
Dilution: 1.0

Received: 24 SEP 96
Analyzed: 04 OCT 96

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	1.6		1.0	0.10	ug/L
Methylene chloride	1.3	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	1.7		1.0	0.20	ug/L
Chloroform	0.12	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	0.90	J	1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	13		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	9.5		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50804-092496
LAB ID: 121536-0007-SA
Matrix: WATER Sampled: 24 SEP 96 Received: 24 SEP 96
Authorized: 25 SEP 96 Prepared: 04 OCT 96 Analyzed: 04 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	95	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	94	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-019000831-092496
LAB ID: 121536-0008-SA
Matrix: WATER
Sampled: 24 SEP 96
Received: 24 SEP 96
Authorized: 25 SEP 96
Prepared: 04 OCT 96
Analyzed: 04 OCT 96
Instrument: GC/MS-MD
Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	0.21	J	1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	20		1.0	0.10	ug/L
Methylene chloride	0.32	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	0.29	J	1.0	0.10	ug/L
1,1-Dichloroethane	0.22	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	0.14	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	70		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	2.4		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	0.24	J	1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	1.9		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-019000831-092496
LAB ID: 121536-0008-SA
Matrix: WATER
Sampled: 24 SEP 96
Received: 24 SEP 96
Authorized: 25 SEP 96
Prepared: 04 OCT 96
Analyzed: 04 OCT 96
Instrument: GC/MS-MD
Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	102	%	80 - 120
Toluene-d8	103	%	88 - 110
Bromofluorobenzene	98	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

METALS
(Water - Dissolved)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50801-092496
LAB ID: 121536-0003-SA
Matrix: WATER
Sampled: 24 SEP 96
Received: 24 SEP 96
Authorized: 25 SEP 96
Prepared: See Below
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Aluminum	ND		1.0	0.20	mg/L	6010A	03 OCT 96	10 OCT 96
Arsenic	ND		1.0	0.010	mg/L	7060A	02 OCT 96	04 OCT 96
Barium	ND		1.0	0.20	mg/L	6010A	03 OCT 96	10 OCT 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	03 OCT 96	10 OCT 96
Calcium	64.7		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Chromium	ND		1.0	0.010	mg/L	6010A	03 OCT 96	10 OCT 96
Copper	ND		1.0	0.025	mg/L	6010A	03 OCT 96	10 OCT 96
Iron	0.22		1.0	0.10	mg/L	6010A	03 OCT 96	10 OCT 96
Lead	ND		1.0	0.0030	mg/L	SW7421	02 OCT 96	03 OCT 96
Magnesium	12.6		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Manganese	ND		1.0	0.015	mg/L	6010A	03 OCT 96	10 OCT 96
Mercury	ND		1.0	0.00020	mg/L	7470A	02 OCT 96	03 OCT 96
Nickel	ND		1.0	0.040	mg/L	6010A	03 OCT 96	10 OCT 96
Potassium	ND		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Sodium	12.1		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Zinc	ND		1.0	0.020	mg/L	6010A	03 OCT 96	10 OCT 96

ND = Not Detected

Quanterra Environmental Services

METALS
(Water - Dissolved)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50802-092496
LAB ID: 121536-0004-SA
Matrix: WATER
Authorized: 25 SEP 96

Sampled: 24 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Aluminum	ND		1.0	0.20	mg/L	6010A	03 OCT 96	10 OCT 96
Arsenic	ND		1.0	0.010	mg/L	7060A	02 OCT 96	04 OCT 96
Barium	ND		1.0	0.20	mg/L	6010A	03 OCT 96	10 OCT 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	03 OCT 96	10 OCT 96
Calcium	45.7		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Chromium	ND		1.0	0.010	mg/L	6010A	03 OCT 96	10 OCT 96
Copper	ND		1.0	0.025	mg/L	6010A	03 OCT 96	10 OCT 96
Iron	ND		1.0	0.10	mg/L	6010A	03 OCT 96	10 OCT 96
Lead	ND		1.0	0.0030	mg/L	SW7421	02 OCT 96	03 OCT 96
Magnesium	10.8		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Manganese	ND		1.0	0.015	mg/L	6010A	03 OCT 96	10 OCT 96
Mercury	ND		1.0	0.00020	mg/L	7470A	02 OCT 96	03 OCT 96
Nickel	ND		1.0	0.040	mg/L	6010A	03 OCT 96	10 OCT 96
Potassium	ND		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Sodium	13.2		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Zinc	ND		1.0	0.020	mg/L	6010A	03 OCT 96	10 OCT 96

ND = Not Detected

Quanterra
Environmental Services

METALS
(Water - Dissolved)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50803-092496
LAB ID: 121536-0005-SA
Matrix: WATER
Authorized: 25 SEP 96

Sampled: 24 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Aluminum	ND		1.0	0.20	mg/L	6010A	03 OCT 96	10 OCT 96
Arsenic	ND		1.0	0.010	mg/L	7060A	02 OCT 96	04 OCT 96
Barium	ND		1.0	0.20	mg/L	6010A	03 OCT 96	10 OCT 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	03 OCT 96	10 OCT 96
Calcium	56.8		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Chromium	ND		1.0	0.010	mg/L	6010A	03 OCT 96	10 OCT 96
Copper	ND		1.0	0.025	mg/L	6010A	03 OCT 96	10 OCT 96
Iron	ND		1.0	0.10	mg/L	6010A	03 OCT 96	10 OCT 96
Lead	ND		1.0	0.0030	mg/L	SW7421	02 OCT 96	03 OCT 96
Magnesium	10.7		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Manganese	ND		1.0	0.015	mg/L	6010A	03 OCT 96	10 OCT 96
Mercury	ND		1.0	0.00020	mg/L	7470A	02 OCT 96	03 OCT 96
Nickel	ND		1.0	0.040	mg/L	6010A	03 OCT 96	10 OCT 96
Potassium	ND		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Sodium	10.8		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Zinc	ND		1.0	0.020	mg/L	6010A	03 OCT 96	10 OCT 96

ND = Not Detected

Quanterra
Environmental Services

METALS
(Water - Dissolved)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50803N-092496
LAB ID: 121536-0006-SA
Matrix: WATER
Authorized: 25 SEP 96

Sampled: 24 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Aluminum	ND		1.0	0.20	mg/L	6010A	03 OCT 96	10 OCT 96
Arsenic	ND		1.0	0.010	mg/L	7060A	02 OCT 96	04 OCT 96
Barium	ND		1.0	0.20	mg/L	6010A	03 OCT 96	10 OCT 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	03 OCT 96	10 OCT 96
Calcium	ND		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Chromium	ND		1.0	0.010	mg/L	6010A	03 OCT 96	10 OCT 96
Copper	ND		1.0	0.025	mg/L	6010A	03 OCT 96	10 OCT 96
Iron	ND		1.0	0.10	mg/L	6010A	03 OCT 96	10 OCT 96
Lead	ND		1.0	0.0030	mg/L	SW7421	02 OCT 96	03 OCT 96
Magnesium	ND		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Manganese	ND		1.0	0.015	mg/L	6010A	03 OCT 96	10 OCT 96
Mercury	ND		1.0	0.00020	mg/L	7470A	02 OCT 96	03 OCT 96
Nickel	ND		1.0	0.040	mg/L	6010A	03 OCT 96	10 OCT 96
Potassium	ND		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Sodium	ND		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Zinc	ND		1.0	0.020	mg/L	6010A	03 OCT 96	10 OCT 96

ND = Not Detected

Quanterra
Environmental Services

METALS
(Water - Dissolved)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50804-092496
LAB ID: 121536-0007-SA
Matrix: WATER
Authorized: 25 SEP 96

Sampled: 24 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Aluminum	ND		1.0	0.20	mg/L	6010A	03 OCT 96	10 OCT 96
Arsenic	ND		1.0	0.010	mg/L	7060A	02 OCT 96	04 OCT 96
Barium	ND		1.0	0.20	mg/L	6010A	03 OCT 96	10 OCT 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	03 OCT 96	10 OCT 96
Calcium	55.4		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Chromium	ND		1.0	0.010	mg/L	6010A	03 OCT 96	10 OCT 96
Copper	ND		1.0	0.025	mg/L	6010A	03 OCT 96	10 OCT 96
Iron	ND		1.0	0.10	mg/L	6010A	03 OCT 96	10 OCT 96
Lead	ND		1.0	0.0030	mg/L	SW7421	02 OCT 96	03 OCT 96
Magnesium	10.9		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Manganese	ND		1.0	0.015	mg/L	6010A	03 OCT 96	10 OCT 96
Mercury	ND		1.0	0.00020	mg/L	7470A	02 OCT 96	03 OCT 96
Nickel	ND		1.0	0.040	mg/L	6010A	03 OCT 96	10 OCT 96
Potassium	ND		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Sodium	10.4		1.0	5.0	mg/L	6010A	03 OCT 96	10 OCT 96
Zinc	ND		1.0	0.020	mg/L	6010A	03 OCT 96	10 OCT 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900029-092496
LAB ID: 121536-0001-SA
Matrix: WATER
Authorized: 25 SEP 96

Sampled: 24 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	25 SEP 96
Nitrate as N	13.7		10	0.50	mg/L	E300.0	NA	25 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900035-092496
LAB ID: 121536-0002-SA
Matrix: WATER
Authorized: 25 SEP 96

Sampled: 24 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	25 SEP 96
Nitrate as N	4.4		1.0	0.050	mg/L	E300.0	NA	25 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50801-092496
LAB ID: 121536-0003-SA
Matrix: WATER
Authorized: 25 SEP 96

Sampled: 24 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Hardness as CaCO3	255		1.0	2.0	mg/L	130.2	NA	03 OCT 96
Alkalinity, Total as CaCO3	160		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Bicarb. as CaCO3	160		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Carb. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Hydrox. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Chloride	21.6		5.0	0.50	mg/L	E300.0	NA	27 SEP 96
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	25 SEP 96
Nitrate as N	1.3		1.0	0.050	mg/L	E300.0	NA	25 SEP 96
Sulfate	33.4		5.0	1.0	mg/L	E300.0	NA	26 SEP 96
Total Dissolved Solids	274		1.0	10.0	mg/L	E160.1	NA	27 SEP 96
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	27 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50802-092496
LAB ID: 121536-0004-SA
Matrix: WATER
Authorized: 25 SEP 96

Sampled: 24 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Hardness as CaCO3	171		1.0	2.0	mg/L	130.2	NA	03 OCT 96
Alkalinity, Total as CaCO3	144		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Bicarb. as CaCO3	144		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Carb. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Hydrox. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Chloride	11.0		2.0	0.20	mg/L	E300.0	NA	27 SEP 96
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	25 SEP 96
Nitrate as N	1.3		1.0	0.050	mg/L	E300.0	NA	25 SEP 96
Sulfate	27.5		2.0	0.40	mg/L	E300.0	NA	26 SEP 96
Total Dissolved Solids	227		1.0	10.0	mg/L	E160.1	NA	27 SEP 96
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	27 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50803-092496
LAB ID: 121536-0005-SA
Matrix: WATER
Authorized: 25 SEP 96

Sampled: 24 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Hardness as CaCO3	188		1.0	2.0	mg/L	130.2	NA	03 OCT 96
Alkalinity, Total as CaCO3	164		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Bicarb. as CaCO3	164		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Carb. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Hydrox. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Chloride	14.8		5.0	0.50	mg/L	E300.0	NA	27 SEP 96
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	25 SEP 96
Nitrate as N	1.1		1.0	0.050	mg/L	E300.0	NA	25 SEP 96
Sulfate	22.6		5.0	1.0	mg/L	E300.0	NA	26 SEP 96
Total Dissolved Solids	239		1.0	10.0	mg/L	E160.1	NA	27 SEP 96
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	27 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50803N-092496
LAB ID: 121536-0006-SA
Matrix: WATER
Authorized: 25 SEP 96

Sampled: 24 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Hardness as CaCO3	ND		1.0	2.0	mg/L	130.2	NA	03 OCT 96
Alkalinity, Total as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Bicarb. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Carb. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Hydrox. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Chloride	ND		1.0	0.10	mg/L	E300.0	NA	27 SEP 96
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	25 SEP 96
Nitrate as N	ND		1.0	0.050	mg/L	E300.0	NA	25 SEP 96
Sulfate	ND		1.0	0.20	mg/L	E300.0	NA	26 SEP 96
Total Dissolved Solids	ND		1.0	10.0	mg/L	E160.1	NA	27 SEP 96
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	27 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50804-092496
LAB ID: 121536-0007-SA
Matrix: WATER
Authorized: 25 SEP 96

Sampled: 24 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Hardness as CaCO3	192		1.0	2.0	mg/L	130.2	NA	03 OCT 96
Alkalinity, Total as CaCO3	162		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Bicarb. as CaCO3	162		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Carb. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Hydrox. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Chloride	8.8		1.0	0.10	mg/L	E300.0	NA	27 SEP 96
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	25 SEP 96
Nitrate as N	0.63		1.0	0.050	mg/L	E300.0	NA	25 SEP 96
Sulfate	21.6		10	2.0	mg/L	E300.0	NA	26 SEP 96
Total Dissolved Solids	256		1.0	10.0	mg/L	E160.1	NA	27 SEP 96
Total Suspended Solids	ND	R	2.0	20.0	mg/L	E160.2	NA	27 SEP 96

R = Reporting limit elevated due to sample volume limitations.
ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-MW50804-092496
LAB ID: 121536-0007-DU
Matrix: WATER
Authorized: 25 SEP 96

Sampled: 24 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Hardness as CaCO3	190		1.0	2.0	mg/L	130.2	NA	03 OCT 96
Alkalinity, Total as CaCO3	164		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Bicarb. as CaCO3	164		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Carb. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Alkalinity, Hydrox. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	27 SEP 96
Total Dissolved Solids	263		1.0	10.0	mg/L	E160.1	NA	27 SEP 96
Total Suspended Solids	ND	R	2.0	20.0	mg/L	E160.2	NA	27 SEP 96

R = Reporting limit elevated due to sample volume limitations.
ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-019000831-092496
LAB ID: 121536-0008-SA
Matrix: WATER
Authorized: 25 SEP 96

Sampled: 24 SEP 96
Prepared: See Below

Received: 24 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	25 SEP 96
Nitrate as N	17.7		10	0.50	mg/L	E300.0	NA	25 SEP 96

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Metals Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121536-0003-SA	AQUEOUS	QICP-A		03 OCT 96-AX	03 OCT 96-AA
121536-0003-SA	AQUEOUS	QPB-GF-A		02 OCT 96-LX	02 OCT 96-LB
121536-0003-SA	AQUEOUS	QAS-GF-A		02 OCT 96-MX	02 OCT 96-MB
121536-0003-SA	AQUEOUS	QHG-A		02 OCT 96-GX	02 OCT 96-GA
121536-0003-SA	AQUEOUS	ICP80_80-A		03 OCT 96-AX1	03 OCT 96-AA
121536-0004-SA	AQUEOUS	QICP-A		03 OCT 96-AX	03 OCT 96-AA
121536-0004-SA	AQUEOUS	QPB-GF-A		02 OCT 96-LX	02 OCT 96-LB
121536-0004-SA	AQUEOUS	QAS-GF-A		02 OCT 96-MX	02 OCT 96-MB
121536-0004-SA	AQUEOUS	QHG-A		02 OCT 96-GX	02 OCT 96-GA
121536-0004-SA	AQUEOUS	ICP80_80-A		03 OCT 96-AX1	03 OCT 96-AA
121536-0005-SA	AQUEOUS	QICP-A		03 OCT 96-AX	03 OCT 96-AA
121536-0005-SA	AQUEOUS	QPB-GF-A		02 OCT 96-LX	02 OCT 96-LB
121536-0005-SA	AQUEOUS	QAS-GF-A		02 OCT 96-MX	02 OCT 96-MB
121536-0005-SA	AQUEOUS	QHG-A		02 OCT 96-GX	02 OCT 96-GA
121536-0005-SA	AQUEOUS	ICP80_80-A		03 OCT 96-AX1	03 OCT 96-AA
121536-0006-SA	AQUEOUS	QICP-A		03 OCT 96-AX	03 OCT 96-AA
121536-0006-SA	AQUEOUS	QPB-GF-A		02 OCT 96-LX	02 OCT 96-LB
121536-0006-SA	AQUEOUS	QAS-GF-A		02 OCT 96-MX	02 OCT 96-MB
121536-0006-SA	AQUEOUS	QHG-A		02 OCT 96-GX	02 OCT 96-GA
121536-0006-SA	AQUEOUS	ICP80_80-A		03 OCT 96-AX1	03 OCT 96-AA
121536-0007-MS	AQUEOUS	QICP-A		03 OCT 96-AX	03 OCT 96-AA
121536-0007-MS	AQUEOUS	QPB-GF-A		02 OCT 96-LX	02 OCT 96-LB
121536-0007-MS	AQUEOUS	QAS-GF-A		02 OCT 96-MX	02 OCT 96-MB
121536-0007-MS	AQUEOUS	QHG-A		02 OCT 96-GX	02 OCT 96-GA
121536-0007-MS	AQUEOUS	ICP80_80-A		03 OCT 96-AX1	03 OCT 96-AA
121536-0007-SA	AQUEOUS	QICP-A		03 OCT 96-AX	03 OCT 96-AA
121536-0007-SA	AQUEOUS	QPB-GF-A		02 OCT 96-LX	02 OCT 96-LB
121536-0007-SA	AQUEOUS	QAS-GF-A		02 OCT 96-MX	02 OCT 96-MB
121536-0007-SA	AQUEOUS	QHG-A		02 OCT 96-GX	02 OCT 96-GA
121536-0007-SA	AQUEOUS	ICP80_80-A		03 OCT 96-AX1	03 OCT 96-AA
121536-0007-SD	AQUEOUS	QICP-A		03 OCT 96-AX	03 OCT 96-AA
121536-0007-SD	AQUEOUS	QPB-GF-A		02 OCT 96-LX	02 OCT 96-LB
121536-0007-SD	AQUEOUS	QAS-GF-A		02 OCT 96-MX	02 OCT 96-MB
121536-0007-SD	AQUEOUS	QHG-A		02 OCT 96-GX	02 OCT 96-GA
121536-0007-SD	AQUEOUS	ICP80_80-A		03 OCT 96-AX1	03 OCT 96-AA

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Metals Analysis and Preparation
Project: 121536

Category: QICP-A Method 6010A - ICP Metals
Matrix: AQUEOUS Date Analyzed: 10 OCT 96
QC Run: 03 OCT 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Barium	2.00	2.10	105	85-115
Cadmium	0.0500	0.0518	104	80-115
Calcium	50.0	52.1	104	85-115
Chromium	0.200	0.223	111	80-115
Copper	0.250	0.253	101	85-115
Iron	1.00	1.16	116	85-120
Magnesium	50.0	51.9	104	85-115
Manganese	0.500	0.536	107	85-115
Nickel	0.500	0.535	107	85-115
Potassium	50.0	52.8	106	85-115
Sodium	50.0	52.6	105	80-120
Zinc	0.500	0.544	109	85-115

Category: QPB-GF-A Lead, Graphite Furnace AA
Matrix: AQUEOUS Date Analyzed: 03 OCT 96
QC Run: 02 OCT 96-LX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Lead	0.0400	0.0421	105	80-120

Category: QAS-GF-A Arsenic, Graphite Furnace AA
Matrix: AQUEOUS Date Analyzed: 04 OCT 96
QC Run: 02 OCT 96-MX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Arsenic	0.0400	0.0412	103	80-120

Category: QHG-A Mercury by CVAA
Matrix: AQUEOUS Date Analyzed: 03 OCT 96
QC Run: 02 OCT 96-GX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Mercury	0.00500	0.00507	101	85-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Metals Analysis and Preparation (cont.)
Project: 121536

Category: ICP80_80-A Method 6010A - ICP Metals
Matrix: AQUEOUS Date Analyzed: 10 OCT 96
QC Run: 03 OCT 96-AX1
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Aluminum	2.00	2.41	120	80-120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Metals Analysis and Preparation
Project: 121536

Category: QICP-A Method 6010A - ICP Metals
Matrix: AQUEOUS
Sample: 121536-0007
MS Run: 03 OCT 96-AA
Units: mg/L

Analyte	Sample Result	Concentration MS Result		Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Barium	ND	2.28		2.21	2.00	114	110	3.2	85-115	20
Cadmium	ND	0.0550		0.0533	0.0500	110	107	3.0	80-115	20
Calcium	55.4	110		106	50.0	109	100	7.8	85-115	20
Chromium	ND	0.217		0.212	0.200	108	106	2.2	80-115	20
Copper	ND	0.269		0.258	0.250	107	103	4.2	85-115	20
Iron	ND	1.13		1.13	1.00	113	113	0.5	85-120	20
Magnesium	10.9	64.7		62.5	50.0	108	103	4.0	85-115	20
Manganese	ND	0.554		0.540	0.500	111	108	2.4	85-115	20
Nickel	ND	0.546		0.535	0.500	109	107	1.9	85-115	20
Potassium	ND	58.0	n	56.3	50.0	116	113	2.9	85-115	20
Sodium	10.4	66.1		64.0	50.0	111	107	3.9	80-120	20
Zinc	ND	0.562		0.546	0.500	112	109	2.9	85-115	20

Category: QPB-GF-A Lead, Graphite Furnace AA
Matrix: AQUEOUS
Sample: 121536-0007
MS Run: 02 OCT 96-LB
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Lead	ND	0.0399	0.0403	0.0400	100	101	1.0	80-120	20

n = Spiked analyte out of matrix spike acceptance limits; refer to lab control sample results.
ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Metals Analysis and Preparation
Project: 121536 (cont.)

Category: QAS-GF-A Arsenic, Graphite Furnace AA
Matrix: AQUEOUS
Sample: 121536-0007
MS Run: 02 OCT 96-MB
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Arsenic	ND	0.0427	0.0426	0.0400	107	106	0.2	80-120	20

Category: QHG-A Mercury by CVAA
Matrix: AQUEOUS
Sample: 121536-0007
MS Run: 02 OCT 96-GA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Mercury	ND	0.00100	0.000993	0.00100	100	99	0.7	85-115	20

Category: ICP80_80-A Method 6010A - ICP Metals
Matrix: AQUEOUS
Sample: 121536-0007
MS Run: 03 OCT 96-AA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Aluminum	ND	2.30	2.33	2.00	115	116	1.0	80-120	20

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Metals Analysis and Preparation
Project: 121536

Test: Q-ICP-ADD Method 6010A - ICP Metals, Dissolved
Matrix: AQUEOUS
QC Run: 03 OCT 96-AX Date Analyzed: 10 OCT 96

Analyte	Result	Units	Reporting Limit
Barium	ND	mg/L	0.20
Cadmium	ND	mg/L	0.0050
Calcium	ND	mg/L	5.0
Chromium	ND	mg/L	0.010
Copper	ND	mg/L	0.025
Iron	ND	mg/L	0.10
Magnesium	ND	mg/L	5.0
Manganese	ND	mg/L	0.015
Nickel	ND	mg/L	0.040
Potassium	ND	mg/L	5.0
Sodium	ND	mg/L	5.0
Zinc	ND	mg/L	0.020

Test: Q-PB-GFAA-ADD Method 7421 - Lead, Graphite Furnace AA, Dissolved
Matrix: AQUEOUS
QC Run: 02 OCT 96-LX Date Analyzed: 03 OCT 96

Analyte	Result	Units	Reporting Limit
Lead	ND	mg/L	0.0030

Test: Q-AS-GFAA-ADD Method 7060A - Arsenic, Graphite Furnace AA, Dissolved
Matrix: AQUEOUS
QC Run: 02 OCT 96-MX Date Analyzed: 04 OCT 96

Analyte	Result	Units	Reporting Limit
Arsenic	ND	mg/L	0.010

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Metals Analysis and Preparation
Project: 121536

Test: Q-HG-CVAA-AD Method SW7470A - Mercury, Cold Vapor AA, Dissolved
Matrix: AQUEOUS
QC Run: 02 OCT 96-GX Date Analyzed: 03 OCT 96

Analyte	Result	Units	Reporting Limit
Mercury	ND	mg/L	0.00020

Test: ICP-80L-80M-ADD Method 6010A - ICP Metals
Matrix: AQUEOUS
QC Run: 03 OCT 96-AX1 Date Analyzed: 10 OCT 96

Analyte	Result	Units	Reporting Limit
Aluminum	ND	mg/L	0.20

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Wet Chemistry Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121536-0001-SA	AQUEOUS	QNO3-A		25 SEP 96-AX	25 SEP 96-AA
121536-0001-SA	AQUEOUS	QNO2-A		25 SEP 96-AX	25 SEP 96-AA
121536-0002-SA	AQUEOUS	QNO3-A		25 SEP 96-AX	25 SEP 96-AA
121536-0002-SA	AQUEOUS	QNO2-A		25 SEP 96-AX	25 SEP 96-AA
121536-0003-SA	AQUEOUS	QNO3-A		25 SEP 96-AX	25 SEP 96-AA
121536-0003-SA	AQUEOUS	QNO2-A		25 SEP 96-AX	25 SEP 96-AA
121536-0003-SA	AQUEOUS	QTDS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0003-SA	AQUEOUS	QTSS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0003-SA	AQUEOUS	HARD-A	03 OCT 96-A	03 OCT 96-A	03 OCT 96-AB
121536-0003-SA	AQUEOUS	QCL-IC-A		27 SEP 96-AX	27 SEP 96-AA
121536-0003-SA	AQUEOUS	QSO4-A		26 SEP 96-AX	26 SEP 96-AB
121536-0003-SA	AQUEOUS	QALK-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0004-SA	AQUEOUS	QNO3-A		25 SEP 96-AX	25 SEP 96-AA
121536-0004-SA	AQUEOUS	QNO2-A		25 SEP 96-AX	25 SEP 96-AA
121536-0004-SA	AQUEOUS	QTDS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0004-SA	AQUEOUS	QTSS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0004-SA	AQUEOUS	HARD-A	03 OCT 96-A	03 OCT 96-A	03 OCT 96-AB
121536-0004-SA	AQUEOUS	QCL-IC-A		27 SEP 96-AX	27 SEP 96-AA
121536-0004-SA	AQUEOUS	QSO4-A		26 SEP 96-AX	26 SEP 96-AB
121536-0004-SA	AQUEOUS	QALK-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0005-SA	AQUEOUS	QNO3-A		25 SEP 96-AX	25 SEP 96-AA
121536-0005-SA	AQUEOUS	QNO2-A		25 SEP 96-AX	25 SEP 96-AA
121536-0005-SA	AQUEOUS	QTDS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0005-SA	AQUEOUS	QTSS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0005-SA	AQUEOUS	HARD-A	03 OCT 96-A	03 OCT 96-A	03 OCT 96-AB
121536-0005-SA	AQUEOUS	QCL-IC-A		27 SEP 96-AX	27 SEP 96-AA
121536-0005-SA	AQUEOUS	QSO4-A		26 SEP 96-AX	26 SEP 96-AB
121536-0005-SA	AQUEOUS	QALK-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0006-SA	AQUEOUS	QNO3-A		25 SEP 96-AX	25 SEP 96-AA
121536-0006-SA	AQUEOUS	QNO2-A		25 SEP 96-AX	25 SEP 96-AA
121536-0006-SA	AQUEOUS	QTDS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0006-SA	AQUEOUS	QTSS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0006-SA	AQUEOUS	HARD-A	03 OCT 96-A	03 OCT 96-A	03 OCT 96-AB
121536-0006-SA	AQUEOUS	QCL-IC-A		27 SEP 96-AX	27 SEP 96-AA
121536-0006-SA	AQUEOUS	QSO4-A		26 SEP 96-AX	26 SEP 96-AB
121536-0006-SA	AQUEOUS	QALK-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0007-DU	AQUEOUS	QTDS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0007-DU	AQUEOUS	QTSS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0007-DU	AQUEOUS	HARD-A	03 OCT 96-A	03 OCT 96-A	03 OCT 96-AB

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Wet Chemistry Analysis and Preparation (cont.)

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121536-0007-DU	AQUEOUS	QALK-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0007-MS	AQUEOUS	QNO3-A		25 SEP 96-AX	25 SEP 96-AA
121536-0007-MS	AQUEOUS	QNO2-A		25 SEP 96-AX	25 SEP 96-AA
121536-0007-MS	AQUEOUS	QCL-IC-A		27 SEP 96-AX	27 SEP 96-AA
121536-0007-MS	AQUEOUS	QSO4-A		26 SEP 96-AX	26 SEP 96-AB
121536-0007-SA	AQUEOUS	QNO3-A		25 SEP 96-AX	25 SEP 96-AA
121536-0007-SA	AQUEOUS	QNO2-A		25 SEP 96-AX	25 SEP 96-AA
121536-0007-SA	AQUEOUS	QTDS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0007-SA	AQUEOUS	QTSS-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0007-SA	AQUEOUS	HARD-A	03 OCT 96-A	03 OCT 96-A	03 OCT 96-AB
121536-0007-SA	AQUEOUS	QCL-IC-A		27 SEP 96-AX	27 SEP 96-AA
121536-0007-SA	AQUEOUS	QSO4-A		26 SEP 96-AX	26 SEP 96-AB
121536-0007-SA	AQUEOUS	QALK-A	27 SEP 96-A	27 SEP 96-A	27 SEP 96-AA
121536-0007-SD	AQUEOUS	QNO3-A		25 SEP 96-AX	25 SEP 96-AA
121536-0007-SD	AQUEOUS	QNO2-A		25 SEP 96-AX	25 SEP 96-AA
121536-0007-SD	AQUEOUS	QCL-IC-A		27 SEP 96-AX	27 SEP 96-AA
121536-0007-SD	AQUEOUS	QSO4-A		26 SEP 96-AX	26 SEP 96-AB
121536-0008-SA	AQUEOUS	QNO3-A		25 SEP 96-AX	25 SEP 96-AA
121536-0008-SA	AQUEOUS	QNO2-A		25 SEP 96-AX	25 SEP 96-AA

Quanterra
Environmental Services

DUPLICATE CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 121536

Category: QTDS-A Method E160.1 - Total Dissolved Solids (TDS)
Matrix: AQUEOUS
QC Lot: 27 SEP 96-A Date Analyzed: 27 SEP 96
Concentration Units: mg/L

Analyte	Concentration Spiked	Measured DCS1	Qual	DCS2	Qual	AVG	Accuracy Average(%) DCS	Limits	Precision (RPD) DCS	Limit
Total Dissolved Solids	1400	1380		1390		1390	99	85-115	0.72	20

Category: QTSS-A Method E160.2 - Total Suspended Solids (TSS)
Matrix: AQUEOUS
QC Lot: 27 SEP 96-A Date Analyzed: 27 SEP 96
Concentration Units: mg/L

Analyte	Concentration Spiked	Measured DCS1	Qual	DCS2	Qual	AVG	Accuracy Average(%) DCS	Limits	Precision (RPD) DCS	Limit
Total Suspended Solids	100	92.0		88.0		90.0	90	75-125	4.4	20

Category: HARD-A Hardness, Titration (Total)
Matrix: AQUEOUS
QC Lot: 03 OCT 96-A Date Analyzed: 03 OCT 96
Concentration Units: mg/L

Analyte	Concentration Spiked	Measured DCS1	Qual	DCS2	Qual	AVG	Accuracy Average(%) DCS	Limits	Precision (RPD) DCS	Limit
Hardness as CaCO3	215	226		226		226	105	80-120	0.0	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

DUPLICATE CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 121536

Category: QALK-A Method E310.1 - Alkalinity, Total as CaCO3
Matrix: AQUEOUS
QC Lot: 27 SEP 96-A Date Analyzed: 27 SEP 96
Concentration Units: mg/L

Analyte	Concentration Spiked	Measured DCS1	Qual	DCS2	Qual	AVG	Accuracy Average(%) DCS	Limits	Precision (RPD) DCS	Limit
Alkalinity, Total as CaCO3	1600	1630		1630		1630	102	80-120	0.0	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 121536

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 25 SEP 96
QC Run: 25 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrate as N	4.00	3.84	96	85-115

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 25 SEP 96
QC Run: 25 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrite as N	4.00	3.92	98	85-115

Category: QCL-IC-A Method E300.0 - Chloride, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 27 SEP 96
QC Run: 27 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Chloride	5.00	4.69	94	85-115

Category: QSO4-A Method E300.0 - Sulfate, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 26 SEP 96
QC Run: 26 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Sulfate	8.00	7.35	92	85-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 121536

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
Sample: 121536-0007
MS Run: 25 SEP 96-AA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Nitrate as N	0.632	21.6	21.4	20.0	105	104	1.4	85-115	20

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS
Sample: 121536-0007
MS Run: 25 SEP 96-AA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Nitrite as N	ND	18.4	18.1	20.0	92	91	1.2	85-115	20

Category: QCL-IC-A Method E300.0 - Chloride, Ion Chromatography
Matrix: AQUEOUS
Sample: 121536-0007
MS Run: 27 SEP 96-AA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Chloride	8.85	13.3	13.2	5.00	89	86	3.4	85-115	20

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 121536 (cont.)

Category: QSO4-A Method E300.0 - Sulfate, Ion Chromatography
Matrix: AQUEOUS
Sample: 121536-0007
MS Run: 26 SEP 96-AB
Units: mg/L

Analyte	Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
	Concentration								
Sulfate	21.6	57.7	58.0	40.0	90	91	0.8	85-115	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 121536

Category: QTDS-A Method E160.1 - Total Dissolved Solids (TDS)
Matrix: AQUEOUS
Sample: 121536-0007
MS Run: 27 SEP 96-AA
Units: mg/L

Analyte	Concentration Sample	Concentration Duplicate	%RPD SA-DU	Acceptance Limit
Total Dissolved Solids	256	263	2.7	20

Category: QTSS-A Method E160.2 - Total Suspended Solids (TSS)
Matrix: AQUEOUS
Sample: 121536-0007
MS Run: 27 SEP 96-AA
Units: mg/L

Analyte	Concentration Sample	Concentration Duplicate	%RPD SA-DU	Acceptance Limit
Total Suspended Solids	ND	ND	NC	20

Category: HARD-A Hardness, Titration (Total)
Matrix: AQUEOUS
Sample: 121536-0007
MS Run: 03 OCT 96-AB
Units: mg/L

Analyte	Concentration Sample	Concentration Duplicate	%RPD SA-DU	Acceptance Limit
Hardness as CaCO3	192	190	1.0	20

NC = Not Calculated, calculation not applicable.
ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 121536 (cont.)

Category: QALK-A Method E310.1 - Alkalinity, Total as CaCO3
Matrix: AQUEOUS
Sample: 121536-0007
MS Run: 27 SEP 96-AA
Units: mg/L

Analyte	Concentration Sample	Concentration Duplicate	%RPD SA-DU	Acceptance Limit
Alkalinity, Total as CaCO3	162	164	1.2	20
Alkalinity, Bicarb. as CaCO3	162	164	1.2	20
Alkalinity, Carb. as CaCO3	ND	ND	NC	20
Alkalinity, Hydrox. as CaCO3	ND	ND	NC	20

NC = Not Calculated, calculation not applicable.
ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Wet Chemistry Analysis and Preparation
Project: 121536

Test: Q-NO3-IC-A Method 300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 25 SEP 96-AX Date Analyzed: 25 SEP 96

Analyte	Result	Units	Reporting Limit
Nitrate as N	ND	mg/L	0.050

Test: Q-NO2-IC-A Method 300.0 - Nitrite as N, Ion Chomatography
Matrix: AQUEOUS
QC Run: 25 SEP 96-AX Date Analyzed: 25 SEP 96

Analyte	Result	Units	Reporting Limit
Nitrite as N	ND	mg/L	0.050

Test: Q-TDS-A Method E160.1 - Total Dissolved Solids (TDS)
Matrix: AQUEOUS
QC Run: 27 SEP 96-A Date Analyzed: 27 SEP 96

Analyte	Result	Units	Reporting Limit
Total Dissolved Solids	ND	mg/L	10.0

Test: Q-TSS-A Method E160.2 - Total Suspended Solids (TSS)
Matrix: AQUEOUS
QC Run: 27 SEP 96-A Date Analyzed: 27 SEP 96

Analyte	Result	Units	Reporting Limit
Total Suspended Solids	ND	mg/L	10.0

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT (cont.)
Wet Chemistry Analysis and Preparation
Project: 121536

Test: HARD-TITR-AT Method 130.2 - Hardness, Titration (Total)
Matrix: AQUEOUS
QC Run: 03 OCT 96-A Date Analyzed: 03 OCT 96

Analyte	Result	Units	Reporting Limit
Hardness as CaCO3	ND	mg/L	2.0

Test: Q-CL-IC-A Method E300.0 - Chloride, Ion Chromatography
Matrix: AQUEOUS
QC Run: 27 SEP 96-AX Date Analyzed: 27 SEP 96

Analyte	Result	Units	Reporting Limit
Chloride	ND	mg/L	0.10

Test: Q-SO4-IC-A Method E300.0 - Sulfate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 26 SEP 96-AX Date Analyzed: 26 SEP 96

Analyte	Result	Units	Reporting Limit
Sulfate	ND	mg/L	0.20

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Wet Chemistry Analysis and Preparation
Project: 121536

Test: Q-ALK-AT Method E310.1 - Alkalinity, Total as CaCO3
Matrix: AQUEOUS
QC Run: 27 SEP 96-A

Date Analyzed: 27 SEP 96

Analyte	Result	Units	Reporting Limit
Alkalinity,Total as CaCO3	ND	mg/L	4.0
Alkalinity,Bicarb. as CaCO3	ND	mg/L	4.0
Alkalinity,Carb. as CaCO3	ND	mg/L	4.0
Alkalinity,Hydrox. as CaCO3	ND	mg/L	4.0

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121536-0001-SA	AQUEOUS	8260-A		04 OCT 96-ADX	04 OCT 96-AD
121536-0002-SA	AQUEOUS	8260-A		04 OCT 96-ADX	04 OCT 96-AD
121536-0003-SA	AQUEOUS	8260-A		04 OCT 96-ADX	04 OCT 96-AD
121536-0004-SA	AQUEOUS	8260-A		04 OCT 96-BDX	04 OCT 96-AD
121536-0005-SA	AQUEOUS	8260-A		04 OCT 96-ADX	04 OCT 96-AD
121536-0006-SA	AQUEOUS	8260-A		04 OCT 96-ADX	04 OCT 96-AD
121536-0007-MS	AQUEOUS	8260-A		04 OCT 96-ADX	04 OCT 96-AD
121536-0007-SA	AQUEOUS	8260-A		04 OCT 96-ADX	04 OCT 96-AD
121536-0007-SD	AQUEOUS	8260-A		04 OCT 96-ADX	04 OCT 96-AD
121536-0008-SA	AQUEOUS	8260-A		04 OCT 96-ADX	04 OCT 96-AD

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121536

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 04 OCT 96
QC Run: 04 OCT 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	11.4	114	64-124
Benzene	10.0	10.2	102	67-127
Trichloroethene	10.0	9.90	99	60-120
Toluene	10.0	10.1	101	72-132
Chlorobenzene	10.0	7.95	80	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.94	99	80-120
Toluene-d8	10.0	10.3	103	88-110
Bromofluorobenzene	10.0	9.77	98	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 04 OCT 96
QC Run: 04 OCT 96-ADX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	11.3	113	64-124
Benzene	10.0	9.74	97	67-127
Trichloroethene	10.0	9.49	95	60-120
Toluene	10.0	9.71	97	72-132
Chlorobenzene	10.0	10.1	101	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.30	93	80-120
Toluene-d8	10.0	9.99	100	88-110
Bromofluorobenzene	10.0	9.33	93	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 121536

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 121536-0007
MS Run: 04 OCT 96-AD
Units: ug/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	1.64	12.3	12.8	10.0	107	112	4.6	64-124	25
Benzene	ND	9.84	9.80	10.0	98	98	0.4	67-127	25
Trichloroethene	12.7	22.3	24.4	10.0	96	117	20	60-120	25
Toluene	ND	9.86	9.89	10.0	99	99	0.3	72-132	25
Chlorobenzene	ND	9.88	10.2	10.0	99	102	3.2	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	95	94	92	80-120
Toluene-d8	101	102	100	88-110
Bromofluorobenzene	94	94	92	86-115

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121536

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 04 OCT 96-BDX Date Analyzed: 05 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.26	93	80-120
Toluene-d8	10.0	10.1	101	88-110
Bromofluorobenzene	10.0	9.00	90	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 04 OCT 96-ADX Date Analyzed: 04 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.30	93	80-120
Toluene-d8	10.0	10.2	102	88-110
Bromofluorobenzene	10.0	9.21	92	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121536

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 04 OCT 96-AX QC Run: 04 OCT 96-ADX Date Analyzed: 04 OCT 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propylbenzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1
Isopropyltoluene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121536

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 04 OCT 96-AX QC Run: 04 OCT 96-ADX Date Analyzed: 04 OCT 96 (cont.)

Analyte	Result	Units	RL	MDL
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121536

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 04 OCT 96-AX QC Run: 04 OCT 96-BDX Date Analyzed: 05 OCT 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propylbenzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121536

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 04 OCT 96-AX QC Run: 04 OCT 96-BDX Date Analyzed: 05 OCT 96 (cont.)

Analyte	Result	Units	RL	MDL
Isopropyltoluene	ND	ug/L	1.0	0.1
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

REPORT

TRUESDAIL LABORATORIES, INC.

CHEMISTS · MICROBIOLOGISTS · ENGINEERS
RESEARCH · DEVELOPMENT · TESTING
ESTABLISHED 1931

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780
(714) 730-6239
FAX (714) 730-6462

CLIENT: QUANTERRA ENVIRONMENTAL SERVICES
1721 S. GRAND
SANTA ANA,CA 92705
Attention: PATTY MATA

DATE: 10/07/96

RECEIVED: 9/25/96

LABORATORY NO. 92965

SAMPLE: WATER/5

LAB NUMBER: 121536

DATE SAMPLED: 9/24/96

INVESTIGATION: RADON IN WATER ANALYSIS BY EPA DRAFT 913.0

RESULTS

Sample I.D.	Rn-222 pCi/L	Two Sigma Error
BP-GW-MW50801-092496	79	+/- 13
-GW-MW50802-092496	91	+/- 14
BP-GW-MW50803-092496	109	+/- 16
BP-GW-MW50803N-092496	35	+/- 14
BP-GW-MW50804-092496	223	+/- 18

Date analyzed: 9/26/96

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Angela Burke

Angela Burke, Project Manager
Water and Waste Laboratory

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising of publicity matter without prior written authorization from these Laboratories.

REPORT

TRUESDAIL LABORATORIES, INC.

CHEMISTS · MICROBIOLOGISTS · ENGINEERS
RESEARCH · DEVELOPMENT · TESTING
ESTABLISHED 1931

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CLIENT: QUANTERRA ENVIRONMENTAL SERVICES
1721 S. GRAND
SANTA ANA,CA 92705
Attention: PATTY MATA

DATE: 10/07/96

RECEIVED: 9/25/96

LABORATORY NO. 92965

INVESTIGATION: QUALITIY CONTROL DOCUMENTATION

RESULTS

LCS* Acceptable Recovery Range: 90-110%
Duplicate Acceptable Difference Range: 2 sigma

Parameter	LCS Result	LCS True Value	LCS % Recovery
Radon-High	5840	5912	98.8
Radon-Low	548	591.2	92.7

Parameter	Sample Result	Duplicate Result	Two Sigma Error
Radon	79	92	+/- 13

*LCS-Laboratory Control Sample

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Angela Burke

Angela Burke, Project Manager
Water and Waste Laboratory

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising of publicity matter without prior written authorization from these Laboratories.

Quanterra Incorporated
1721 South Grand Avenue
Santa Ana, California 92705

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714 258-8610 Telephone
714 258-0921 Fax

Quanterra

Environmental Services

October 17, 1996

CAMP, DRESSER & McKEE
18881 VON KARMAN, SUITE 650
IRVINE, CA 92612
ATTN: MS. SUZANNE ROWE

LIMS NO.: 121551-0001/0003
DATE SAMPLED: 25-SEP-1996
DATE SAMPLE REC'D: 25-SEP-1996
PROJECT: BALDWIN PARK

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

Preliminary data were provided on October 10, 1996 at 12:25 P.M. to Suzanne Rowe.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Patty Mata at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Project Manager

cc: Project File

Quanterra Environmental Services

LIMS REPORT KEY

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

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LIMS # 121551

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LIMS Report Key 2

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Chain-of-Custody Records and Sample Description Information

Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries

CASE NARRATIVE

LIMS # 121551

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 3.4°C.

Sample containers were received intact. The VOA vials did not contain headspace. Proper preservation of applicable samples was verified upon receipt and documented on the Sample Control worksheet. Sample container labels did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Sample was received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

III. GENERAL CHEMISTRY (BY METHOD: EPA300.0)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

Chain of Custody Record

QUA-4124-1

Quanterra Environmental Services

Client	Project Manager	Date	Chain Of Custody Number
CDM	Suzanne Rowe	9-25-96	62390
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
Keywell	(714) 752-5452	121551	

City	State	Zip Code	Site Contact	Lab Contact
Baldwin Park	CA		Barbara Wells	Patty Matta

Project Name: Baldwin Park Operable Unit

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		8260 VOCs	300.0 NO2+NO3									MS/MSD	Special Instructions/ Conditions of Receipt
BP-GW-Z1000006-092596	9-25-96	1100	X				X			X				X	X										3-40ml VOAs + HCl 1-250ml poly
BP-GW-Z1000006F-092596		1110	X				~~X~~			X				X											3-40ml VOAs + HCL
BP-GW-08000039-092596		1345	X				X			X				X	X									X	5-40ml VOAs + HCL 2-250ml poly

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other normal

QC Requirements (Specify): CLP TYPE PAPERWORK

	Date	Time		Date	Time
1. Relinquished By: [signature]	9-25-96	1510	1. Received By: [signature] K. FREITAG	9/25/96	1510
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments:

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Camp, Dresser & McKee

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
121551-0001-SA	BP-GW-Z1000006-092596	WATER	25 SEP 96	11:00	25 SEP 96
121551-0001-DL	BP-GW-Z1000006-092596	WATER	25 SEP 96	11:00	25 SEP 96
121551-0002-SA	BP-GW-Z1000006F-092596	WATER	25 SEP 96	11:10	25 SEP 96
121551-0003-SA	BP-GW-08000039-092596	WATER	25 SEP 96	13:45	25 SEP 96
121551-0003-MS	BP-GW-08000039-092596	WATER	25 SEP 96	13:45	25 SEP 96
121551-0003-SD	BP-GW-08000039-092596	WATER	25 SEP 96	13:45	25 SEP 96

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-Z1000006-092596
LAB ID: 121551-0001-SA
Matrix: WATER
Authorized: 25 SEP 96

Sampled: 25 SEP 96
Prepared: See Below

Received: 25 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	26 SEP 96
Nitrate as N	7.5		5.0	0.25	mg/L	E300.0	NA	26 SEP 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-08000039-092596
LAB ID: 121551-0003-SA
Matrix: WATER
Authorized: 25 SEP 96

Sampled: 25 SEP 96
Prepared: See Below

Received: 25 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	26 SEP 96
Nitrate as N	2.3		1.0	0.050	mg/L	E300.0	NA	26 SEP 96

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-Z1000006-092596
LAB ID: 121551-0001-SA
Matrix: WATER Sampled: 25 SEP 96 Received: 25 SEP 96
Authorized: 25 SEP 96 Prepared: 08 OCT 96 Analyzed: 08 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	0.39	J	1.0	0.20	ug/L
1,1-Dichloroethene	72		1.0	0.10	ug/L
Methylene chloride	1.3	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	0.71	J	1.0	0.10	ug/L
1,1-Dichloroethane	3.2		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	81		1.0	0.20	ug/L
Chloroform	16		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	21		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	1.0		0.50	0.20	ug/L
1,2-Dichloroethane	1.9		0.50	0.10	ug/L
Benzene	0.20	J	0.50	0.10	ug/L
Trichloroethene	370	E	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	0.56	J	1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	220	E	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	0.16	J	1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-Z1000006-092596
LAB ID: 121551-0001-SA
Matrix: WATER — Sampled: 25 SEP 96 — Received: 25 SEP 96
Authorized: 25 SEP 96 — Prepared: 08 OCT 96 — Analyzed: 08 OCT 96
Instrument: GC/MS-MD — Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	1.4	J	5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	97	%	80 - 120
Toluene-d8	104	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-Z1000006-092596
LAB ID: 121551-0001-DL
Matrix: WATER Sampled: 25 SEP 96 Received: 25 SEP 96
Authorized: 25 SEP 96 Prepared: 07 OCT 96 Analyzed: 07 OCT 96
Instrument: GC/MS-MD Dilution: 12

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		12	1.2	ug/L
Chloromethane	ND		12	3.8	ug/L
Vinyl chloride	ND		6.2	2.5	ug/L
Bromomethane	ND		12	1.2	ug/L
Chloroethane	ND		12	3.8	ug/L
Trichlorofluoromethane	ND		12	2.5	ug/L
1,1-Dichloroethene	120		12	1.2	ug/L
Methylene chloride	2.1	J	25	1.2	ug/L
trans-1,2-Dichloroethene	ND		12	1.2	ug/L
1,1-Dichloroethane	3.9	J	12	1.2	ug/L
2,2-Dichloropropane	ND		12	2.5	ug/L
cis-1,2-Dichloroethene	100		12	2.5	ug/L
Chloroform	19		12	1.2	ug/L
Bromochloromethane	ND		12	1.2	ug/L
1,1,1-Trichloroethane	27		12	1.2	ug/L
1,1-Dichloropropene	ND		12	1.2	ug/L
Carbon tetrachloride	ND		6.2	2.5	ug/L
1,2-Dichloroethane	1.8	J	6.2	1.2	ug/L
Benzene	ND		6.2	1.2	ug/L
Trichloroethene	860		12	1.2	ug/L
1,2-Dichloropropane	ND		12	1.2	ug/L
Bromodichloromethane	ND		12	1.2	ug/L
Dibromomethane	ND		12	2.5	ug/L
Toluene	ND		12	2.5	ug/L
1,1,2-Trichloroethane	ND		12	2.5	ug/L
1,2-Dibromoethane (EDB)	ND		12	2.5	ug/L
1,3-Dichloropropane	ND		12	2.5	ug/L
Tetrachloroethene	380		12	2.5	ug/L
Dibromochloromethane	ND		12	2.5	ug/L
Chlorobenzene	ND		12	1.2	ug/L
1,1,1,2-Tetrachloroethane	ND		12	1.2	ug/L
Ethylbenzene	ND		12	1.2	ug/L
Xylenes (total)	ND		12	3.8	ug/L
Styrene	ND		12	1.2	ug/L
Bromoform	ND		12	1.2	ug/L
1-Methylethylbenzene	ND		12	1.2	ug/L
1,1,2,2-Tetrachloroethane	ND		12	1.2	ug/L
1,2,3-Trichloropropane	ND		12	5.0	ug/L
n-Propylbenzene	ND		12	2.5	ug/L
Bromobenzene	ND		12	2.5	ug/L
1,3,5-Trimethylbenzene	ND		12	1.2	ug/L
2-Chlorotoluene	ND		12	3.8	ug/L
4-Chlorotoluene	ND		12	3.8	ug/L
tert-Butylbenzene	ND		12	1.2	ug/L
1,2,4-Trimethylbenzene	ND		12	1.2	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-Z1000006-092596
LAB ID: 121551-0001-DL
Matrix: WATER Sampled: 25 SEP 96 Received: 25 SEP 96
Authorized: 25 SEP 96 Prepared: 07 OCT 96 Analyzed: 07 OCT 96
Instrument: GC/MS-MD Dilution: 12

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		12	1.2	ug/L
Chloromethane	ND		12	3.8	ug/L
Vinyl chloride	ND		6.2	2.5	ug/L
Bromomethane	ND		12	1.2	ug/L
Chloroethane	ND		12	3.8	ug/L
Trichlorofluoromethane	ND		12	2.5	ug/L
1,1-Dichloroethene	120		12	1.2	ug/L
Methylene chloride	2.1	J	25	1.2	ug/L
trans-1,2-Dichloroethene	ND		12	1.2	ug/L
1,1-Dichloroethane	3.9	J	12	1.2	ug/L
2,2-Dichloropropane	ND		12	2.5	ug/L
cis-1,2-Dichloroethene	100		12	2.5	ug/L
Chloroform	19		12	1.2	ug/L
Bromochloromethane	ND		12	1.2	ug/L
1,1,1-Trichloroethane	27		12	1.2	ug/L
1,1-Dichloropropene	ND		12	1.2	ug/L
Carbon tetrachloride	ND		6.2	2.5	ug/L
1,2-Dichloroethane	1.8	J	6.2	1.2	ug/L
Benzene	ND		6.2	1.2	ug/L
Trichloroethene	860		12	1.2	ug/L
1,2-Dichloropropane	ND		12	1.2	ug/L
Bromodichloromethane	ND		12	1.2	ug/L
Dibromomethane	ND		12	2.5	ug/L
Toluene	ND		12	2.5	ug/L
1,1,2-Trichloroethane	ND		12	2.5	ug/L
1,2-Dibromoethane (EDB)	ND		12	2.5	ug/L
1,3-Dichloropropane	ND		12	2.5	ug/L
Tetrachloroethene	380		12	2.5	ug/L
Dibromochloromethane	ND		12	2.5	ug/L
Chlorobenzene	ND		12	1.2	ug/L
1,1,1,2-Tetrachloroethane	ND		12	1.2	ug/L
Ethylbenzene	ND		12	1.2	ug/L
Xylenes (total)	ND		12	3.8	ug/L
Styrene	ND		12	1.2	ug/L
Bromoform	ND		12	1.2	ug/L
1-Methylethylbenzene	ND		12	1.2	ug/L
1,1,2,2-Tetrachloroethane	ND		12	1.2	ug/L
1,2,3-Trichloropropane	ND		12	5.0	ug/L
n-Propylbenzene	ND		12	2.5	ug/L
Bromobenzene	ND		12	2.5	ug/L
1,3,5-Trimethylbenzene	ND		12	1.2	ug/L
2-Chlorotoluene	ND		12	3.8	ug/L
4-Chlorotoluene	ND		12	3.8	ug/L
tert-Butylbenzene	ND		12	1.2	ug/L
1,2,4-Trimethylbenzene	ND		12	1.2	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-Z1000006-092596
LAB ID: 121551-0001-DL
Matrix: WATER Sampled: 25 SEP 96 Received: 25 SEP 96
Authorized: 25 SEP 96 Prepared: 07 OCT 96 Analyzed: 07 OCT 96
Instrument: GC/MS-MD Dilution: 12

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		12	1.2	ug/L
Isopropyltoluene	ND		12	1.2	ug/L
1,3-Dichlorobenzene	ND		12	1.2	ug/L
1,4-Dichlorobenzene	ND		12	1.2	ug/L
n-Butylbenzene	ND		12	2.5	ug/L
1,2-Dichlorobenzene	ND		12	1.2	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		12	7.5	ug/L
1,2,4-Trichlorobenzene	ND		12	2.5	ug/L
Hexachlorobutadiene	ND		12	1.2	ug/L
Naphthalene	ND		12	3.8	ug/L
1,2,3-Trichlorobenzene	ND		12	2.5	ug/L
2-Chloroethyl vinyl ether	ND		120	7.5	ug/L
cis-1,3-Dichloropropene	ND		6.2	2.5	ug/L
trans-1,3-Dichloropropene	ND		6.2	1.2	ug/L
Carbon disulfide	ND		62	1.2	ug/L
Methyl t-butyl ether	ND		62	6.2	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		62	12	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	98	%	80 - 120
Toluene-d8	107	%	88 - 110
Bromofluorobenzene	99	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-Z1000006F-092596
LAB ID: 121551-0002-SA
Matrix: WATER Sampled: 25 SEP 96 Received: 25 SEP 96
Authorized: 25 SEP 96 Prepared: 07 OCT 96 Analyzed: 07 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	0.82	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	0.26	J	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-Z1000006F-092596
LAB ID: 121551-0002-SA
Matrix: WATER Sampled: 25 SEP 96 Received: 25 SEP 96
Authorized: 25 SEP 96 Prepared: 07 OCT 96 Analyzed: 07 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	94	%	80 - 120
Toluene-d8	105	%	88 - 110
Bromofluorobenzene	95	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-08000039-092596
LAB ID: 121551-0003-SA
Matrix: WATER Sampled: 25 SEP 96 Received: 25 SEP 96
Authorized: 25 SEP 96 Prepared: 07 OCT 96 Analyzed: 07 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	0.88	J	1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	1.0		1.0	0.10	ug/L
Methylene chloride	1.1	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	0.53	J	1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	0.22	J	1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	0.77		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	6.1		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	2.4		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-08000039-092596
LAB ID: 121551-0003-SA
Matrix: WATER — Sampled: 25 SEP 96 — Received: 25 SEP 96
Authorized: 25 SEP 96 — Prepared: 07 OCT 96 — Analyzed: 07 OCT 96
Instrument: GC/MS-MD — Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	99	%	80 - 120
Toluene-d8	109	%	88 - 110
Bromofluorobenzene	99	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Wet Chemistry Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121551-0001-SA	AQUEOUS	QNO3-A		26 SEP 96-AX	26 SEP 96-AA
121551-0001-SA	AQUEOUS	QNO2-A		26 SEP 96-AX	26 SEP 96-AA
121551-0003-MS	AQUEOUS	QNO3-A		26 SEP 96-AX	26 SEP 96-AA
121551-0003-MS	AQUEOUS	QNO2-A		26 SEP 96-AX	26 SEP 96-AA
121551-0003-SA	AQUEOUS	QNO3-A		26 SEP 96-AX	26 SEP 96-AA
121551-0003-SA	AQUEOUS	QNO2-A		26 SEP 96-AX	26 SEP 96-AA
121551-0003-SD	AQUEOUS	QNO3-A		26 SEP 96-AX	26 SEP 96-AA
121551-0003-SD	AQUEOUS	QNO2-A		26 SEP 96-AX	26 SEP 96-AA

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 121551

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 26 SEP 96
QC Run: 26 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrate as N	4.00	3.89	97	85-115

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 26 SEP 96
QC Run: 26 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrite as N	4.00	3.91	98	85-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 121551

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
Sample: 121551-0003
MS Run: 26 SEP 96-AA
Units: mg/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	MSD	%RPD	Acceptance Limit Recov.	RPD
Nitrate as N	2.32	6.63	6.58	4.00	108	107	1.1	85-115	20

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS
Sample: 121551-0003
MS Run: 26 SEP 96-AA
Units: mg/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	MSD	%RPD	Acceptance Limit Recov.	RPD
Nitrite as N	ND	4.11	4.05	4.00	103	101	1.5	85-115	20

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Wet Chemistry Analysis and Preparation
Project: 121551

Test: Q-NO3-IC-A Method 300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 26 SEP 96-AX Date Analyzed: 26 SEP 96

Analyte	Result	Units	Reporting Limit
Nitrate as N	ND	mg/L	0.050

Test: Q-NO2-IC-A Method 300.0 - Nitrite as N, Ion Chomatography
Matrix: AQUEOUS
QC Run: 26 SEP 96-AX Date Analyzed: 26 SEP 96

Analyte	Result	Units	Reporting Limit
Nitrite as N	ND	mg/L	0.050

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121551-0001-DL	AQUEOUS	8260-A		07 OCT 96-ADX	07 OCT 96-BD
121551-0001-SA	AQUEOUS	8260-A		07 OCT 96-BDX	07 OCT 96-BD
121551-0002-SA	AQUEOUS	8260-A		07 OCT 96-ADX	07 OCT 96-BD
121551-0003-MS	AQUEOUS	8260-A		07 OCT 96-BDX	07 OCT 96-BD
121551-0003-SA	AQUEOUS	8260-A		07 OCT 96-ADX	07 OCT 96-BD
121551-0003-SD	AQUEOUS	8260-A		07 OCT 96-BDX	07 OCT 96-BD

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121551

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Date Analyzed: 07 OCT 96
QC Run: 07 OCT 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	11.5	115	64-124
Benzene	10.0	10.6	106	67-127
Trichloroethene	10.0	9.67	97	60-120
Toluene	10.0	10.3	103	72-132
Chlorobenzene	10.0	10.1	101	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.53	95	80-120
Toluene-d8	10.0	10.6	106	88-110
Bromofluorobenzene	10.0	9.64	96	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Date Analyzed: 07 OCT 96
QC Run: 07 OCT 96-ADX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	11.2	112	64-124
Benzene	10.0	10.7	107	67-127
Trichloroethene	10.0	9.73	97	60-120
Toluene	10.0	10.4	104	72-132
Chlorobenzene	10.0	7.77	78	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.4	104	80-120
Toluene-d8	10.0	10.5	105	88-110
Bromofluorobenzene	10.0	10.2	102	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 121551

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 121551-0003
MS Run: 07 OCT 96-BD
Units: ug/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	1.04	11.6	12.0	10.0	106	110	3.7	64-124	25
Benzene	ND	10.3	10.3	10.0	103	103	0.0	67-127	25
Trichloroethene	6.11	13.2	15.5	10.0	71	94	28	60-120	25
Toluene	ND	10.2	10.3	10.0	102	103	0.9	72-132	25
Chlorobenzene	ND	10.2	10.1	10.0	102	101	0.9	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	99	99	94	80-120
Toluene-d8	109	106	105	88-110
Bromofluorobenzene	99	99	93	86-115

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121551

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 07 OCT 96-BDX Date Analyzed: 08 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.63	96	80-120
Toluene-d8	10.0	10.6	106	88-110
Bromofluorobenzene	10.0	9.70	97	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 07 OCT 96-ADX Date Analyzed: 07 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.41	94	80-120
Toluene-d8	10.0	10.2	102	88-110
Bromofluorobenzene	10.0	9.47	95	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121551

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 07 OCT 96-BX QC Run: 07 OCT 96-BDX Date Analyzed: 08 OCT 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propylbenzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1
Isopropyltoluene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121551

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 07 OCT 96-BX QC Run: 07 OCT 96-BDX Date Analyzed: 08 OCT 96 (cont.)

Analyte	Result	Units	RL	MDL
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121551

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 07 OCT 96-BX QC Run: 07 OCT 96-ADX Date Analyzed: 07 OCT 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propylbenzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121551

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 07 OCT 96-BX QC Run: 07 OCT 96-ADX Date Analyzed: 07 OCT 96 (cont.)

Analyte	Result	Units	RL	MDL
Isopropyltoluene	ND	ug/L	1.0	0.1
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

Quanterra Incorporated
1721 South Grand Avenue
Santa Ana, California 92705

714 258-8610 Telephone
714 258-0921 Fax

Quanterra
Environmental Services

November 7, 1996

CAMP, DRESSER & McKEE
18881 VON KARMAN, SUITE 650
IRVINE, CA 92612
ATTN: MS. SUZANNE ROWE

LIMS NO.: 121604-0001/0003
DATE SAMPLED: 26-SEP-1996
DATE SAMPLE REC'D: 26-SEP-1996
PROJECT: BALDWIN PARK

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Preliminary data were provided on September 30, 1996 at 5:15 P.M. to Suzanne Rowe.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

Preliminary data were provided on 10/9/96 at 7:25 P.M. to Suzanne Rowe.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Patty Mata at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Patti Mata

Project Manager

cc: Project File

LIMS REPORT KEY

Quanterra Environmental Services

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

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Chain-of-Custody Records and Sample Description Information

Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries

CASE NARRATIVE

LIMS # 121604

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was at ambient temperature.

Sample containers were received intact. The VOA vials did not contain headspace. Proper preservation of applicable samples was verified upon receipt and documented on the Sample Control worksheet. Sample container labels did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Sample was received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

SAMPLE RESULTS
Sample 121604-0002 required dilution for target analytes that were outside of calibration range. The undiluted run is reported as 121604-0002-SA while the diluted run is reported as 121604-0002-DL. Any value over the calibration range is "E" flagged.

III. GENERAL CHEMISTRY (BY METHOD: EPA300.0; EPA200 Series; etc.)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

Quanterra
Environmental
Services

CASE NARRATIVE

LIMS # 121604

SAMPLE RESULTS

Chain of Custody Record

QUA-4124-1

Quanterra Environmental Services

Client	Project Manager	Date	Chain Of Custody Number
CDH	Suzanne Rowe	9-26-96	62400
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
Paddy Lane	(714) 752-5452	121604	

City	State	Zip Code	Site Contact	Lab Contact
Baldwin Park	CA		Barbara Wall	

Project Name	Carrier/Waybill Number
Baldwin Park Operable Unit	

Contract/Purchase Order/Quote No.

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		8260 VOC	300.0 NO2+NO3										Special Instructions/ Conditions of Receipt
BP-GW-01900030-092696	9-26-96	1230	X							X				X											3-40ml VOAs HCL
BP-GW-01900031-092696	|	1430	X							X				X	X										3-40ml VOAs w/o HCL 1-250ml poly
BP-GW-01900031F-092696	|	1435	X							X				X											3-40ml VOAs w/ HCL

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other normal

QC Requirements (Specify): CLP TYPE PAPERWORK

	Date	Time		Date	Time
1. Relinquished By: [signature]	9/26/96	1555	1. Received By: [signature] K. FREITAG	9/26/96	1555
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - [illegible] Copy

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900030-092696
LAB ID: 121604-0001-SA
Matrix: WATER Sampled: 26 SEP 96 Received: 26 SEP 96
Authorized: 26 SEP 96 Prepared: 08 OCT 96 Analyzed: 08 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	0.19	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	4.8		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	3.0		0.50	0.20	ug/L
1,2-Dichloroethane	2.8		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	2.3		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	3.0		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900030-092696
LAB ID: 121604-0001-SA
Matrix: WATER Sampled: 26 SEP 96 Received: 26 SEP 96
Authorized: 26 SEP 96 Prepared: 08 OCT 96 Analyzed: 08 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	96	%	80 - 120
Toluene-d8	107	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900031-092696
LAB ID: 121604-0002-SA
Matrix: WATER Sampled: 26 SEP 96 Received: 26 SEP 96
Authorized: 26 SEP 96 Prepared: 08 OCT 96 Analyzed: 08 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	3.3		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	3.6		1.0	0.10	ug/L
Methylene chloride	0.41	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	0.28	J	1.0	0.10	ug/L
1,1-Dichloroethane	2.5		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	13		1.0	0.20	ug/L
Chloroform	4.6		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	0.21	J	1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	2.1		0.50	0.20	ug/L
1,2-Dichloroethane	2.9		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	110	E	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	13		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900031-092696
LAB ID: 121604-0002-SA
Matrix: WATER Sampled: 26 SEP 96 Received: 26 SEP 96
Authorized: 26 SEP 96 Prepared: 08 OCT 96 Analyzed: 08 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	0.27	J	1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	99	%	80 - 120
Toluene-d8	103	%	88 - 110
Bromofluorobenzene	95	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900031-092696
LAB ID: 121604-0002-SA
Matrix: WATER
Authorized: 26 SEP 96

Sampled: 26 SEP 96
Prepared: See Below

Received: 26 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	27 SEP 96
Nitrate as N	7.1		2.0	0.10	mg/L	E300.0	NA	27 SEP 96

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900031-092696
LAB ID: 121604-0002-DL
Matrix: WATER
Authorized: 26 SEP 96
Instrument: GC/MS-MD

Sampled: 26 SEP 96
Prepared: 08 OCT 96
Dilution: 2.5

Received: 26 SEP 96
Analyzed: 08 OCT 96

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	4.6		2.5	0.25	ug/L
Chloromethane	ND		2.5	0.75	ug/L
Vinyl chloride	ND		1.2	0.50	ug/L
Bromomethane	ND		2.5	0.25	ug/L
Chloroethane	ND		2.5	0.75	ug/L
Trichlorofluoromethane	ND		2.5	0.50	ug/L
1,1-Dichloroethene	4.7		2.5	0.25	ug/L
Methylene chloride	0.53	J	5.0	0.25	ug/L
trans-1,2-Dichloroethene	ND		2.5	0.25	ug/L
1,1-Dichloroethane	3.0		2.5	0.25	ug/L
2,2-Dichloropropane	ND		2.5	0.50	ug/L
cis-1,2-Dichloroethene	15		2.5	0.50	ug/L
Chloroform	5.3		2.5	0.25	ug/L
Bromochloromethane	ND		2.5	0.25	ug/L
1,1,1-Trichloroethane	0.28	J	2.5	0.25	ug/L
1,1-Dichloropropene	ND		2.5	0.25	ug/L
Carbon tetrachloride	2.5		1.2	0.50	ug/L
1,2-Dichloroethane	3.0		1.2	0.25	ug/L
Benzene	ND		1.2	0.25	ug/L
Trichloroethene	130		2.5	0.25	ug/L
1,2-Dichloropropane	ND		2.5	0.25	ug/L
Bromodichloromethane	ND		2.5	0.25	ug/L
Dibromomethane	ND		2.5	0.50	ug/L
Toluene	0.60	J	2.5	0.50	ug/L
1,1,2-Trichloroethane	ND		2.5	0.50	ug/L
1,2-Dibromoethane (EDB)	ND		2.5	0.50	ug/L
1,3-Dichloropropane	ND		2.5	0.50	ug/L
Tetrachloroethene	17		2.5	0.50	ug/L
Dibromochloromethane	ND		2.5	0.50	ug/L
Chlorobenzene	ND		2.5	0.25	ug/L
1,1,1,2-Tetrachloroethane	ND		2.5	0.25	ug/L
Ethylbenzene	ND		2.5	0.25	ug/L
Xylenes (total)	ND		2.5	0.75	ug/L
Styrene	ND		2.5	0.25	ug/L
Bromoform	ND		2.5	0.25	ug/L
1-Methylethylbenzene	ND		2.5	0.25	ug/L
1,1,2,2-Tetrachloroethane	ND		2.5	0.25	ug/L
1,2,3-Trichloropropane	ND		2.5	1.0	ug/L
n-Propylbenzene	ND		2.5	0.50	ug/L
Bromobenzene	ND		2.5	0.50	ug/L
1,3,5-Trimethylbenzene	ND		2.5	0.25	ug/L
2-Chlorotoluene	ND		2.5	0.75	ug/L
4-Chlorotoluene	ND		2.5	0.75	ug/L
tert-Butylbenzene	ND		2.5	0.25	ug/L
1,2,4-Trimethylbenzene	0.34	J	2.5	0.25	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services (cont.)

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900031-092696
LAB ID: 121604-0002-DL
Matrix: WATER Sampled: 26 SEP 96 Received: 26 SEP 96
Authorized: 26 SEP 96 Prepared: 08 OCT 96 Analyzed: 08 OCT 96
Instrument: GC/MS-MD Dilution: 2.5

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		2.5	0.25	ug/L
Isopropyltoluene	ND		2.5	0.25	ug/L
1,3-Dichlorobenzene	ND		2.5	0.25	ug/L
1,4-Dichlorobenzene	ND		2.5	0.25	ug/L
n-Butylbenzene	ND		2.5	0.50	ug/L
1,2-Dichlorobenzene	ND		2.5	0.25	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.5	1.5	ug/L
1,2,4-Trichlorobenzene	ND		2.5	0.50	ug/L
Hexachlorobutadiene	ND		2.5	0.25	ug/L
Naphthalene	ND		2.5	0.75	ug/L
1,2,3-Trichlorobenzene	ND		2.5	0.50	ug/L
2-Chloroethyl vinyl ether	ND		25	1.5	ug/L
cis-1,3-Dichloropropene	ND		1.2	0.50	ug/L
trans-1,3-Dichloropropene	ND		1.2	0.25	ug/L
Carbon disulfide	ND		12	0.25	ug/L
Methyl t-butyl ether	ND		12	1.2	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	2.5	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	98	%	80 - 120
Toluene-d8	104	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900031F-092696
LAB ID: 121604-0003-SA
Matrix: WATER
Authorized: 26 SEP 96
Instrument: GC/MS-MD

Sampled: 26 SEP 96
Prepared: 08 OCT 96
Dilution: 1.0

Received: 26 SEP 96
Analyzed: 08 OCT 96

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	0.51	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	0.054	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	0.52	J	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900031F-092696
LAB ID: 121604-0003-SA
Matrix: WATER Sampled: 26 SEP 96 Received: 26 SEP 96
Authorized: 26 SEP 96 Prepared: 08 OCT 96 Analyzed: 08 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	96	%	80 - 120
Toluene-d8	107	%	88 - 110
Bromofluorobenzene	98	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121604-0001-SA	AQUEOUS	8260-A		07 OCT 96-BDX	07 OCT 96-BD
121604-0002-DL	AQUEOUS	8260-A		07 OCT 96-BDX	07 OCT 96-BD
121604-0002-SA	AQUEOUS	8260-A		07 OCT 96-BDX	07 OCT 96-BD
121604-0003-SA	AQUEOUS	8260-A		07 OCT 96-BDX	07 OCT 96-BD

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121604

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Date Analyzed: 07 OCT 96
QC Run: 07 OCT 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	11.5	115	64-124
Benzene	10.0	10.6	106	67-127
Trichloroethene	10.0	9.67	97	60-120
Toluene	10.0	10.3	103	72-132
Chlorobenzene	10.0	10.1	101	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.53	95	80-120
Toluene-d8	10.0	10.6	106	88-110
Bromofluorobenzene	10.0	9.64	96	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 121604

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 121551-0003
MS Run: 07 OCT 96-BD
Units: ug/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	1.04	11.6	12.0	10.0	106	110	3.7	64-124	25
Benzene	ND	10.3	10.3	10.0	103	103	0.0	67-127	25
Trichloroethene	6.11	13.2	15.5	10.0	71	94	28	60-120	25
Toluene	ND	10.2	10.3	10.0	102	103	0.9	72-132	25
Chlorobenzene	ND	10.2	10.1	10.0	102	101	0.9	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	99	99	94	80-120
Toluene-d8	109	106	105	88-110
Bromofluorobenzene	99	99	93	86-115

ND = Not Detected

culations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121604

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 07 OCT 96-BDX Date Analyzed: 08 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.63	96	80-120
Toluene-d8	10.0	10.6	106	88-110
Bromofluorobenzene	10.0	9.70	97	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121604

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 07 OCT 96-BX QC Run: 07 OCT 96-BDX Date Analyzed: 08 OCT 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propylbenzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1
Isopropyltoluene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121604

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 07 OCT 96-BX QC Run: 07 OCT 96-BDX Date Analyzed: 08 OCT 96 (cont.)

Analyte	Result	Units	RL	MDL
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Wet Chemistry Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121604-0002-SA	AQUEOUS	QNO3-A		27 SEP 96-AX	
121604-0002-SA	AQUEOUS	QNO3-A		27 SEP 96-AX	26 SEP 96-AA
121604-0002-SA	AQUEOUS	QNO2-A		27 SEP 96-AX	
121604-0002-SA	AQUEOUS	QNO2-A		27 SEP 96-AX	26 SEP 96-AA

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 121604

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 27 SEP 96
QC Run: 27 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrate as N	4.00	4.05	101	85-115

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 27 SEP 96
QC Run: 27 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrite as N	4.00	4.10	102	85-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 121604

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
Sample: 121551-0003
MS Run: 26 SEP 96-AA
Units: mg/L

Analyte	Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
	Concentration								
Nitrate as N	2.32	6.63	6.58	4.00	108	107	1.1	85-115	20

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS
Sample: 121551-0003
MS Run: 26 SEP 96-AA
Units: mg/L

Analyte	Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
	Concentration								
Nitrite as N	ND	4.11	4.05	4.00	103	101	1.5	85-115	20

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Wet Chemistry Analysis and Preparation
Project: 121604

Test: Q-NO3-IC-A Method 300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 27 SEP 96-AX Date Analyzed: 27 SEP 96

Analyte	Result	Units	Reporting Limit
Nitrate as N	ND	mg/L	0.050

Test: Q-NO2-IC-A Method 300.0 - Nitrite as N, Ion Chomatography
Matrix: AQUEOUS
QC Run: 27 SEP 96-AX Date Analyzed: 27 SEP 96

Analyte	Result	Units	Reporting Limit
Nitrite as N	ND	mg/L	0.050

ND = Not Detected

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Camp, Dresser & McKee

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
121604-0001-SA	BP-GW-01900030-092696	WATER	26 SEP 96	12:30	26 SEP 96
121604-0002-SA	BP-GW-01900031-092696	WATER	26 SEP 96	14:30	26 SEP 96
121604-0003-SA	BP-GW-01900031F-092696	WATER	26 SEP 96	14:35	26 SEP 96

Quanterra Incorporated
1721 South Grand Avenue
Santa Ana, California 92705

714 258-8610 Telephone
714 258-0921 Fax

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Quanterra
Environmental Services

October 17, 1996

CAMP, DRESSER & McKEE
18881 VON KARMAN, SUITE 650
IRVINE, CA 92612
ATTN: MS. SUZANNE ROWE

LIMS NO.: 121629-0001/0003
DATE SAMPLED: 27-SEP-1996
DATE SAMPLE REC'D: 27-SEP-1996
PROJECT: BALDWIN PARK

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

Preliminary data were provided on October 10, 1996 at 6:00 P.M. to Suzanne Rowe.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Patty Mata at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Project Manager

cc: Project File

LIMS REPORT KEY

Quanterra Environmental Services

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	μg/L or μg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

efer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

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LIMS # 121629

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Chain-of-Custody Records and Sample Description Information

Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries

CASE NARRATIVE

LIMS # 121629

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 4.0°C.

Sample containers were received intact. The VOA vials did not contain headspace. Proper preservation of applicable samples was verified upon receipt and documented on the Sample Control worksheet. Sample container labels did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Sample was received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

III. GENERAL CHEMISTRY (BY METHOD: EPA300.0)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

SAMPLE RESULTS

Chain of Custody Record

QUA-4124-1

Quanterra Environmental Services

Client	Project Manager	Date	Chain Of Custody Number
CDM	Suzanne Rowe	9-27-96	62399

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page
E. Durbin, Norac	(714) 752-5452	121629	1 of 1

City	State	Zip Code	Site Contact	Lab Contact
Irwindale			Barbara Wells	Patty Matta

Project Name	Carrier/Waybill Number
Baldwin Park Operable Unit	

Contract/Purchase Order/Quote No.

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260 VOC	300 NO2+NO3	Special Instructions/ Conditions of Receipt
BP-GW-01902920-092796	9-27-96	0750	X			X			X			X	X	3-40ml VOA 1-500ml poly
BP-GW-~~F~~W10NCMW1F-092796	|	0930	X						X			X		3-40ml VOA
BP-GW-W10NCMW1-092796	|	1103	X						X			X		|
														4.0°C

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify): CLP LIKE DELIVERABELS

	Date	Time		Date	Time
1. Relinquished By: [signature]	9/27/96	1200	1. Received By: [signature] K. FREITAG	9/27/96	1200 P
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION [illegible]ITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - F[illegible]opy

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Camp, Dresser & McKee

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
121629-0001-SA	BP-GW-01902920-092796	WATER	27 SEP 96	07:50	27 SEP 96
121629-0002-SA	BP-GW-W10NCMW1F-092796	WATER	27 SEP 96	09:30	27 SEP 96
121629-0003-SA	BP-GW-W10NCMW1-092796	WATER	27 SEP 96	11:03	27 SEP 96
121629-0003-DL	BP-GW-W10NCMW1-092796	WATER	27 SEP 96	11:03	27 SEP 96

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01902920-092796
LAB ID: 121629-0001-SA
Matrix: WATER
Authorized: 27 SEP 96

Sampled: 27 SEP 96
Prepared: See Below

Received: 27 SEP 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	27 SEP 96
Nitrate as N	1.5		1.0	0.050	mg/L	E300.0	NA	27 SEP 96

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01902920-092796
LAB ID: 121629-0001-SA
Matrix: WATER Sampled: 27 SEP 96 Received: 27 SEP 96
Authorized: 27 SEP 96 Prepared: 08 OCT 96 Analyzed: 08 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	2.1		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	0.98	J	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	2.3		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01902920-092796
LAB ID: 121629-0001-SA
Matrix: WATER Sampled: 27 SEP 96 Received: 27 SEP 96
Authorized: 27 SEP 96 Prepared: 08 OCT 96 Analyzed: 08 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	92	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	95	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-W10NCMW1F-092796
LAB ID: 121629-0002-SA
Matrix: WATER Sampled: 27 SEP 96 Received: 27 SEP 96
Authorized: 27 SEP 96 Prepared: 08 OCT 96 Analyzed: 08 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	3.9		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	1.8		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-W10NCMW1F-092796
LAB ID: 121629-0002-SA
Matrix: WATER Sampled: 27 SEP 96 Received: 27 SEP 96
Authorized: 27 SEP 96 Prepared: 08 OCT 96 Analyzed: 08 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	96	%	80 - 120
Toluene-d8	102	%	88 - 110
Bromofluorobenzene	94	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-W10NCMW1-092796
LAB ID: 121629-0003-SA
Matrix: WATER Sampled: 27 SEP 96 Received: 27 SEP 96
Authorized: 27 SEP 96 Prepared: 08 OCT 96 Analyzed: 08 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	0.34	J	1.0	0.20	ug/L
1,1-Dichloroethene	21		1.0	0.10	ug/L
Methylene chloride	0.39	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	0.46	J	1.0	0.10	ug/L
1,1-Dichloroethane	0.83	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	17		1.0	0.20	ug/L
Chloroform	3.6		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	8.8		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	1.8		0.50	0.20	ug/L
1,2-Dichloroethane	2.7		0.50	0.10	ug/L
Benzene	0.12	J	0.50	0.10	ug/L
Trichloroethene	170	E	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	0.18	J	1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	150	E	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	0.22	J	1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-W10NCMW1-092796
LAB ID: 121629-0003-SA
Matrix: WATER Sampled: 27 SEP 96 Received: 27 SEP 96
Authorized: 27 SEP 96 Prepared: 08 OCT 96 Analyzed: 08 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	4.0	J	5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	98	%	80 - 120
Toluene-d8	104	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-W10NCMW1-092796
LAB ID: 121629-0003-DL
Matrix: WATER Sampled: 27 SEP 96 Received: 27 SEP 96
Authorized: 27 SEP 96 Prepared: 08 OCT 96 Analyzed: 08 OCT 96
Instrument: GC/MS-MD Dilution: 2.5

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		2.5	0.25	ug/L
Chloromethane	ND		2.5	0.75	ug/L
Vinyl chloride	ND		1.2	0.50	ug/L
Bromomethane	ND		2.5	0.25	ug/L
Chloroethane	ND		2.5	0.75	ug/L
Trichlorofluoromethane	ND		2.5	0.50	ug/L
1,1-Dichloroethene	25		2.5	0.25	ug/L
Methylene chloride	0.51	J	5.0	0.25	ug/L
trans-1,2-Dichloroethene	0.58	J	2.5	0.25	ug/L
1,1-Dichloroethane	0.94	J	2.5	0.25	ug/L
2,2-Dichloropropane	ND		2.5	0.50	ug/L
cis-1,2-Dichloroethene	18		2.5	0.50	ug/L
Chloroform	3.7		2.5	0.25	ug/L
Bromochloromethane	ND		2.5	0.25	ug/L
1,1,1-Trichloroethane	9.9		2.5	0.25	ug/L
1,1-Dichloropropene	ND		2.5	0.25	ug/L
Carbon tetrachloride	2.1		1.2	0.50	ug/L
1,2-Dichloroethane	2.7		1.2	0.25	ug/L
Benzene	ND		1.2	0.25	ug/L
Trichloroethene	200		2.5	0.25	ug/L
1,2-Dichloropropane	ND		2.5	0.25	ug/L
Bromodichloromethane	ND		2.5	0.25	ug/L
Dibromomethane	ND		2.5	0.50	ug/L
Toluene	ND		2.5	0.50	ug/L
1,1,2-Trichloroethane	ND		2.5	0.50	ug/L
1,2-Dibromoethane (EDB)	ND		2.5	0.50	ug/L
1,3-Dichloropropane	ND		2.5	0.50	ug/L
Tetrachloroethene	180		2.5	0.50	ug/L
Dibromochloromethane	ND		2.5	0.50	ug/L
Chlorobenzene	ND		2.5	0.25	ug/L
1,1,1,2-Tetrachloroethane	ND		2.5	0.25	ug/L
Ethylbenzene	ND		2.5	0.25	ug/L
Xylenes (total)	ND		2.5	0.75	ug/L
Styrene	ND		2.5	0.25	ug/L
Bromoform	ND		2.5	0.25	ug/L
1-Methylethylbenzene	ND		2.5	0.25	ug/L
1,1,2,2-Tetrachloroethane	ND		2.5	0.25	ug/L
1,2,3-Trichloropropane	ND		2.5	1.0	ug/L
n-Propylbenzene	ND		2.5	0.50	ug/L
Bromobenzene	ND		2.5	0.50	ug/L
1,3,5-Trimethylbenzene	ND		2.5	0.25	ug/L
2-Chlorotoluene	ND		2.5	0.75	ug/L
4-Chlorotoluene	ND		2.5	0.75	ug/L
tert-Butylbenzene	ND		2.5	0.25	ug/L
1,2,4-Trimethylbenzene	ND		2.5	0.25	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-W10NCMW1-092796
LAB ID: 121629-0003-DL
Matrix: WATER Sampled: 27 SEP 96 Received: 27 SEP 96
Authorized: 27 SEP 96 Prepared: 08 OCT 96 Analyzed: 08 OCT 96
Instrument: GC/MS-MD Dilution: 2.5

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		2.5	0.25	ug/L
Isopropyltoluene	ND		2.5	0.25	ug/L
1,3-Dichlorobenzene	ND		2.5	0.25	ug/L
1,4-Dichlorobenzene	ND		2.5	0.25	ug/L
n-Butylbenzene	ND		2.5	0.50	ug/L
1,2-Dichlorobenzene	ND		2.5	0.25	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.5	1.5	ug/L
1,2,4-Trichlorobenzene	ND		2.5	0.50	ug/L
Hexachlorobutadiene	ND		2.5	0.25	ug/L
Naphthalene	ND		2.5	0.75	ug/L
1,2,3-Trichlorobenzene	ND		2.5	0.50	ug/L
2-Chloroethyl vinyl ether	ND		25	1.5	ug/L
cis-1,3-Dichloropropene	ND		1.2	0.50	ug/L
trans-1,3-Dichloropropene	ND		1.2	0.25	ug/L
Carbon disulfide	ND		12	0.25	ug/L
Methyl t-butyl ether	ND		12	1.2	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	4.7	J	12	2.5	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	94	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	91	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Wet Chemistry Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121629-0001-SA	AQUEOUS	QNO3-A		27 SEP 96-AX	26 SEP 96-AA
121629-0001-SA	AQUEOUS	QNO2-A		27 SEP 96-AX	26 SEP 96-AA

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 121629

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 27 SEP 96
QC Run: 27 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrate as N	4.00	4.05	101	85-115

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 27 SEP 96
QC Run: 27 SEP 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrite as N	4.00	4.10	102	85-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 121629

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
Sample: 121551-0003
MS Run: 26 SEP 96-AA
Units: mg/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	MSD	%RPD	Acceptance Limit Recov.	RPD
Nitrate as N	2.32	6.63	6.58	4.00	108	107	1.1	85-115	20

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS
Sample: 121551-0003
MS Run: 26 SEP 96-AA
Units: mg/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	MSD	%RPD	Acceptance Limit Recov.	RPD
Nitrite as N	ND	4.11	4.05	4.00	103	101	1.5	85-115	20

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Wet Chemistry Analysis and Preparation
Project: 121629

Test: Q-NO3-IC-A Method 300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 27 SEP 96-AX Date Analyzed: 27 SEP 96

Analyte	Result	Units	Reporting Limit
Nitrate as N	ND	mg/L	0.050

Test: Q-NO2-IC-A Method 300.0 - Nitrite as N, Ion Chomatography
Matrix: AQUEOUS
QC Run: 27 SEP 96-AX Date Analyzed: 27 SEP 96

Analyte	Result	Units	Reporting Limit
Nitrite as N	ND	mg/L	0.050

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121629-0001-SA	AQUEOUS	8260-A		08 OCT 96-ADX	04 OCT 96-AD
121629-0002-SA	AQUEOUS	8260-A		08 OCT 96-ADX	04 OCT 96-AD
121629-0003-DL	AQUEOUS	8260-A		08 OCT 96-ADX	04 OCT 96-AD
121629-0003-SA	AQUEOUS	8260-A		08 OCT 96-ADX	

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121629

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 08 OCT 96
QC Run: 08 OCT 96-ADX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	11.2	112	64-124
Benzene	10.0	10.0	100	67-127
Trichloroethene	10.0	9.47	95	60-120
Toluene	10.0	9.84	98	72-132
Chlorobenzene	10.0	10.0	100	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.82	98	80-120
Toluene-d8	10.0	10.3	103	88-110
Bromofluorobenzene	10.0	9.43	94	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 08 OCT 96
QC Run: 08 OCT 96-ADX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	11.2	112	64-124
Benzene	10.0	10.0	100	67-127
Trichloroethene	10.0	9.47	95	60-120
Toluene	10.0	9.84	98	72-132
Chlorobenzene	10.0	10.0	100	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.82	98	80-120
Toluene-d8	10.0	10.3	103	88-110
Bromofluorobenzene	10.0	9.43	94	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 121629

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 121536-0007
MS Run: 04 OCT 96-AD
Units: ug/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	1.64	12.3	12.8	10.0	107	112	4.6	64-124	25
Benzene	ND	9.84	9.80	10.0	98	98	0.4	67-127	25
Trichloroethene	12.7	22.3	24.4	10.0	96	117	20	60-120	25
Toluene	ND	9.86	9.89	10.0	99	99	0.3	72-132	25
Chlorobenzene	ND	9.88	10.2	10.0	99	102	3.2	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	95	94	92	80-120
Toluene-d8	101	102	100	88-110
Bromofluorobenzene	94	94	92	86-115

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121629

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 08 OCT 96-ADX Date Analyzed: 08 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.76	98	80-120
Toluene-d8	10.0	10.1	101	88-110
Bromofluorobenzene	10.0	9.36	94	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 08 OCT 96-ADX Date Analyzed: 08 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.76	98	80-120
Toluene-d8	10.0	10.1	101	88-110
Bromofluorobenzene	10.0	9.36	94	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121629

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 04 OCT 96-AX QC Run: 08 OCT 96-ADX Date Analyzed: 08 OCT 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propylbenzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1
Isopropyltoluene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121629

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 04 OCT 96-AX QC Run: 08 OCT 96-ADX Date Analyzed: 08 OCT 96 (cont.)

Analyte	Result	Units	RL	MDL
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121629

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 08 OCT 96-ADX QC Run: 08 OCT 96-ADX Date Analyzed: 08 OCT 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propylbenzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121629

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 08 OCT 96-ADX QC Run: 08 OCT 96-ADX Date Analyzed: 08 OCT 96 (cont.)

Analyte	Result	Units	RL	MDL
Isopropyltoluene	ND	ug/L	1.0	0.1
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

Quanterra Incorporated
1721 South Grand Avenue
Santa Ana, California 92705

714 258-8610 Telephone
714 258-0921 Fax

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Quanterra
Environmental Services

October 21, 1996

CAMP, DRESSER & McKEE
18881 VON KARMAN, SUITE 650
IRVINE, CA 92612
ATTN: MS. SUZANNE ROWE

LIMS NO.: 121720-0001/0002
DATE SAMPLED: 1-OCT-1996
DATE SAMPLE REC'D: 1-OCT-1996
PROJECT: BALDWIN PARK

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

Preliminary data were provided on October 17, 1996 at 11:45 A.M. to Suzanne Rowe.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Patty Mata at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Project Manager

cc: Project File

Quanterra Environmental Services

LIMS REPORT KEY

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

efer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

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Chain-of-Custody Records and Sample Description Information

Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries

CASE NARRATIVE

LIMS # 121720

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 3.0°C.

Sample containers were received intact. The VOA vials did not contain headspace. Proper preservation of applicable samples was verified upon receipt and documented on the Sample Control worksheet. Sample container labels did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Sample was received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

[redacted]

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
CDM	Suzanne Rowe	10-01-96	62391

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 1
Polopolus	(714) 752-5452	121720	

City	State	Zip Code	Site Contact	Lab Contact
Irwindale	CA		Barbara Wells	Patty Matta

Project Name: Baldwin Park Operable Unit

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed): 8260 VOCs

3.0°C

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260 VOCs	Special Instructions/ Conditions of Receipt
BP-GW-01902169F-100196	10-01-01	1011	X						X			X	3-40ml VOAs w HCL
BP-GW-01902169-100196	↓	1105	X						X			X	↓

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [X] Other normal

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: [signature]	10/1/96	1305	1. Received By: [signature]	10/1/96	1305
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: CLP TYPE DELIVERABLES

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Camp, Dresser & McKee

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
121720-0001-SA	BP-GW-01902169F-100196	WATER	01 OCT 96	10:11	01 OCT 96
121720-0002-SA	BP-GW-01902169-100196	WATER	01 OCT 96	11:05	01 OCT 96
121720-0002-DL	BP-GW-01902169-100196	WATER	01 OCT 96	11:05	01 OCT 96

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01902169F-100196
LAB ID: 121720-0001-SA
Matrix: WATER Sampled: 01 OCT 96 Received: 01 OCT 96
Authorized: 01 OCT 96 Prepared: 11 OCT 96 Analyzed: 11 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		1.0	ug/L
Chloromethane	ND		1.0	ug/L
Vinyl chloride	ND		0.50	ug/L
Bromomethane	ND		1.0	ug/L
Chloroethane	ND		1.0	ug/L
Trichlorofluoromethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		1.0	ug/L
Methylene chloride	2.5		2.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
Chloroform	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Carbon tetrachloride	ND		0.50	ug/L
1,2-Dichloroethane	ND		0.50	ug/L
Benzene	ND		0.50	ug/L
Trichloroethene	1.2		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
Toluene	0.24	J	1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Xylenes (total)	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
1-Methylethylbenzene	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
4-Chlorotoluene	ND		1.0	ug/L
tert-Butylbenzene	ND		1.0	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01902169F-100196
LAB ID: 121720-0001-SA
Matrix: WATER Sampled: 01 OCT 96 Received: 01 OCT 96
Authorized: 01 OCT 96 Prepared: 11 OCT 96 Analyzed: 11 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Naphthalene	ND		1.0	ug/L
1,2,3-Trichlorobenzene	ND		1.0	ug/L
2-Chloroethyl vinyl ether	ND		10	ug/L
cis-1,3-Dichloropropene	ND		0.50	ug/L
trans-1,3-Dichloropropene	ND		0.50	ug/L
Carbon disulfide	ND		5.0	ug/L
Methyl t-butyl ether	ND		5.0	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	86	%	80 - 120
Toluene-d8	103	%	88 - 110
Bromofluorobenzene	92	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01902169-100196
LAB ID: 121720-0002-SA
Matrix: WATER Sampled: 01 OCT 96 Received: 01 OCT 96
Authorized: 01 OCT 96 Prepared: 11 OCT 96 Analyzed: 11 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		1.0	ug/L
Chloromethane	ND		1.0	ug/L
Vinyl chloride	ND		0.50	ug/L
Bromomethane	ND		1.0	ug/L
Chloroethane	ND		1.0	ug/L
Trichlorofluoromethane	ND		1.0	ug/L
1,1-Dichloroethene	26		1.0	ug/L
Methylene chloride	0.51	J	2.0	ug/L
trans-1,2-Dichloroethene	1.2		1.0	ug/L
1,1-Dichloroethane	1.6		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
cis-1,2-Dichloroethene	30		1.0	ug/L
Chloroform	68		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
1,1,1-Trichloroethane	20		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Carbon tetrachloride	0.42	J	0.50	ug/L
1,2-Dichloroethane	0.77	J	0.50	ug/L
Benzene	ND		0.50	ug/L
Trichloroethene	200	E	1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
Bromodichloromethane	6.3		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
Toluene	0.14	J	1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
Tetrachloroethene	200	E	1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
Chlorobenzene	0.13	J	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Xylenes (total)	0.79	J	1.0	ug/L
Styrene	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
1-Methylethylbenzene	0.75	J	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
n-Propylbenzene	1.7		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	1.9		1.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
4-Chlorotoluene	ND		1.0	ug/L

E = Concentration exceeds calibration range. Value is estimated.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01902169-100196
LAB ID: 121720-0002-SA
Matrix: WATER Sampled: 01 OCT 96 Received: 01 OCT 96
Authorized: 01 OCT 96 Prepared: 11 OCT 96 Analyzed: 11 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
tert-Butylbenzene	ND		1.0	ug/L
1,2,4-Trimethylbenzene	0.93	J	1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Naphthalene	ND		1.0	ug/L
1,2,3-Trichlorobenzene	ND		1.0	ug/L
2-Chloroethyl vinyl ether	ND		10	ug/L
cis-1,3-Dichloropropene	ND		0.50	ug/L
trans-1,3-Dichloropropene	ND		0.50	ug/L
Carbon disulfide	ND		5.0	ug/L
Methyl t-butyl ether	ND		5.0	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	91	%	80 - 120
Toluene-d8	105	%	88 - 110
Bromofluorobenzene	98	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01902169-100196
LAB ID: 121720-0002-DL
Matrix: WATER Sampled: 01 OCT 96 Received: 01 OCT 96
Authorized: 01 OCT 96 Prepared: 14 OCT 96 Analyzed: 14 OCT 96
Instrument: GC/MS-MD Dilution: 5.0

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		5.0	ug/L
Chloromethane	ND		5.0	ug/L
Vinyl chloride	ND		2.5	ug/L
Bromomethane	ND		5.0	ug/L
Chloroethane	ND		5.0	ug/L
Trichlorofluoromethane	ND		5.0	ug/L
1,1-Dichloroethene	26		5.0	ug/L
Methylene chloride	ND		10	ug/L
trans-1,2-Dichloroethene	1.4	J	5.0	ug/L
1,1-Dichloroethane	1.6	J	5.0	ug/L
2,2-Dichloropropane	ND		5.0	ug/L
cis-1,2-Dichloroethene	31		5.0	ug/L
Chloroform	71		5.0	ug/L
Bromochloromethane	ND		5.0	ug/L
1,1,1-Trichloroethane	19		5.0	ug/L
1,1-Dichloropropene	ND		5.0	ug/L
Carbon tetrachloride	ND		2.5	ug/L
1,2-Dichloroethane	0.68	J	2.5	ug/L
Benzene	ND		2.5	ug/L
Trichloroethene	220		5.0	ug/L
1,2-Dichloropropane	ND		5.0	ug/L
Bromodichloromethane	6.3		5.0	ug/L
Dibromomethane	ND		5.0	ug/L
Toluene	ND		5.0	ug/L
1,1,2-Trichloroethane	ND		5.0	ug/L
1,2-Dibromoethane (EDB)	ND		5.0	ug/L
1,3-Dichloropropane	ND		5.0	ug/L
Tetrachloroethene	270		5.0	ug/L
Dibromochloromethane	ND		5.0	ug/L
Chlorobenzene	ND		5.0	ug/L
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L
Ethylbenzene	ND		5.0	ug/L
Xylenes (total)	0.56	J	5.0	ug/L
Styrene	ND		5.0	ug/L
Bromoform	ND		5.0	ug/L
1-Methylethylbenzene	0.79	J	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L
1,2,3-Trichloropropane	ND		5.0	ug/L
n-Propylbenzene	1.7	J	5.0	ug/L
Bromobenzene	ND		5.0	ug/L
1,3,5-Trimethylbenzene	2.9	J	5.0	ug/L
2-Chlorotoluene	ND		5.0	ug/L
4-Chlorotoluene	ND		5.0	ug/L
tert-Butylbenzene	ND		5.0	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01902169-100196
LAB ID: 121720-0002-DL
Matrix: WATER Sampled: 01 OCT 96 Received: 01 OCT 96
Authorized: 01 OCT 96 Prepared: 14 OCT 96 Analyzed: 14 OCT 96
Instrument: GC/MS-MD Dilution: 5.0

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	0.98	J	5.0	ug/L
sec-Butylbenzene	ND		5.0	ug/L
Isopropyltoluene	ND		5.0	ug/L
1,3-Dichlorobenzene	ND		5.0	ug/L
1,4-Dichlorobenzene	ND		5.0	ug/L
n-Butylbenzene	ND		5.0	ug/L
1,2-Dichlorobenzene	ND		5.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		5.0	ug/L
1,2,4-Trichlorobenzene	ND		5.0	ug/L
Hexachlorobutadiene	ND		5.0	ug/L
Naphthalene	ND		5.0	ug/L
1,2,3-Trichlorobenzene	ND		5.0	ug/L
2-Chloroethyl vinyl ether	ND		50	ug/L
cis-1,3-Dichloropropene	ND		2.5	ug/L
trans-1,3-Dichloropropene	ND		2.5	ug/L
Carbon disulfide	ND		25	ug/L
Methyl t-butyl ether	ND		25	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	93	%	80 - 120
Toluene-d8	105	%	88 - 110
Bromofluorobenzene	95	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121720-0001-SA	AQUEOUS	8260-A		10 OCT 96-BDX	07 OCT 96-BD
121720-0002-DL	AQUEOUS	8260-A		14 OCT 96-BDX	07 OCT 96-BD
121720-0002-SA	AQUEOUS	8260-A		10 OCT 96-BDX	

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121720

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 14 OCT 96
QC Run: 14 OCT 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	11.2	112	64-124
Benzene	10.0	10.6	106	67-127
Trichloroethene	10.0	9.93	99	60-120
Toluene	10.0	10.4	104	72-132
Chlorobenzene	10.0	11.0	110	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.73	97	80-120
Toluene-d8	10.0	10.1	101	88-110
Bromofluorobenzene	10.0	9.75	98	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 10 OCT 96
QC Run: 10 OCT 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	12.4	124	64-124
Benzene	10.0	11.0	110	67-127
Trichloroethene	10.0	10.1	101	60-120
Toluene	10.0	10.9	109	72-132
Chlorobenzene	10.0	12.0	120	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.14	91	80-120
Toluene-d8	10.0	10.3	103	88-110
Bromofluorobenzene	10.0	9.78	98	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 10 OCT 96
QC Run: 10 OCT 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	12.4	124	64-124
Benzene	10.0	11.0	110	67-127
Trichloroethene	10.0	10.1	101	60-120
Toluene	10.0	10.9	109	72-132
Chlorobenzene	10.0	12.0	120	68-128

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS (cont.)
Project: 121720

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.14	91	80-120
Toluene-d8	10.0	10.3	103	88-110
Bromofluorobenzene	10.0	9.78	98	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 121720

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 121551-0003
MS Run: 07 OCT 96-BD
Units: ug/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	1.04	11.6	12.0	10.0	106	110	3.7	64-124	25
Benzene	ND	10.3	10.3	10.0	103	103	0.0	67-127	25
Trichloroethene	6.11	13.2	15.5	10.0	71	94	28	60-120	25
Toluene	ND	10.2	10.3	10.0	102	103	0.9	72-132	25
Chlorobenzene	ND	10.2	10.1	10.0	102	101	0.9	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	99	99	94	80-120
Toluene-d8	109	106	105	88-110
Bromofluorobenzene	99	99	93	86-115

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121720

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 14 OCT 96-BDX Date Analyzed: 14 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.09	91	80-120
Toluene-d8	10.0	10.3	103	88-110
Bromofluorobenzene	10.0	9.48	95	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 10 OCT 96-BDX Date Analyzed: 11 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	8.57	86	80-120
Toluene-d8	10.0	10.2	102	88-110
Bromofluorobenzene	10.0	9.26	93	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 10 OCT 96-BDX Date Analyzed: 11 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	8.57	86	80-120
Toluene-d8	10.0	10.2	102	88-110
Bromofluorobenzene	10.0	9.26	93	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121720

Test: 8260-A
Matrix: AQUEOUS
QC Run: 10 OCT 96-BDX

Method 8260 - Volatile Organics

Date Analyzed: 11 OCT 96

Analyte	Result	Units	Reporting Limit
Dichlorodifluoromethane	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Vinyl chloride	ND	ug/L	0.50
Bromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Methylene chloride	ND	ug/L	2.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
2,2-Dichloropropane	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1-Dichloropropene	ND	ug/L	1.0
Carbon tetrachloride	ND	ug/L	0.50
1,2-Dichloroethane	ND	ug/L	0.50
Benzene	ND	ug/L	0.50
Trichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Dibromomethane	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0
1,3-Dichloropropane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Dibromochloromethane	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Xylenes (total)	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
1-Methylethylbenzene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
1,2,3-Trichloropropane	ND	ug/L	1.0
n-Propylbenzene	ND	ug/L	1.0
Bromobenzene	ND	ug/L	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1.0
2-Chlorotoluene	ND	ug/L	1.0
4-Chlorotoluene	ND	ug/L	1.0
tert-Butylbenzene	ND	ug/L	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121720

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS
QC Run: 10 OCT 96-BDX Date Analyzed: 11 OCT 96

Analyte	Result	Units	Reporting Limit
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
n-Butylbenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1.0
Hexachlorobutadiene	ND	ug/L	1.0
Naphthalene	ND	ug/L	1.0
1,2,3-Trichlorobenzene	ND	ug/L	1.0
2-Chloroethyl vinyl ether	ND	ug/L	10
cis-1,3-Dichloropropene	ND	ug/L	0.50
trans-1,3-Dichloropropene	ND	ug/L	0.50
Carbon disulfide	ND	ug/L	5.0
Methyl t-butyl ether	ND	ug/L	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121720

Test: 8260-A
Matrix: AQUEOUS
QC Run: 10 OCT 96-BDX

Method 8260 - Volatile Organics

Date Analyzed: 11 OCT 96

Analyte	Result	Units	Reporting Limit
Dichlorodifluoromethane	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Vinyl chloride	ND	ug/L	0.50
Bromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Methylene chloride	ND	ug/L	2.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
2,2-Dichloropropane	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1-Dichloropropene	ND	ug/L	1.0
Carbon tetrachloride	ND	ug/L	0.50
1,2-Dichloroethane	ND	ug/L	0.50
Benzene	ND	ug/L	0.50
Trichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Dibromomethane	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0
1,3-Dichloropropane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Dibromochloromethane	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Xylenes (total)	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
1-Methylethylbenzene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
1,2,3-Trichloropropane	ND	ug/L	1.0
n-Propylbenzene	ND	ug/L	1.0
Bromobenzene	ND	ug/L	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1.0
2-Chlorotoluene	ND	ug/L	1.0
4-Chlorotoluene	ND	ug/L	1.0

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121720

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS
QC Run: 10 OCT 96-BDX Date Analyzed: 11 OCT 96

Analyte	Result	Units	Reporting Limit
tert-Butylbenzene	ND	ug/L	1.0
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
n-Butylbenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1.0
Hexachlorobutadiene	ND	ug/L	1.0
Naphthalene	ND	ug/L	1.0
1,2,3-Trichlorobenzene	ND	ug/L	1.0
2-Chloroethyl vinyl ether	ND	ug/L	10
cis-1,3-Dichloropropene	ND	ug/L	0.50
trans-1,3-Dichloropropene	ND	ug/L	0.50
Carbon disulfide	ND	ug/L	5.0
Methyl t-butyl ether	ND	ug/L	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121720

Test: 8260-A
Matrix: AQUEOUS
QC Run: 14 OCT 96-BDX

Method 8260 - Volatile Organics

Date Analyzed: 14 OCT 96

Analyte	Result	Units	Reporting Limit
Dichlorodifluoromethane	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Vinyl chloride	ND	ug/L	0.50
Bromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Methylene chloride	ND	ug/L	2.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
2,2-Dichloropropane	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1-Dichloropropene	ND	ug/L	1.0
Carbon tetrachloride	ND	ug/L	0.50
1,2-Dichloroethane	ND	ug/L	0.50
Benzene	ND	ug/L	0.50
Trichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Dibromomethane	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0
1,3-Dichloropropane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Dibromochloromethane	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Xylenes (total)	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
1-Methylethylbenzene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
1,2,3-Trichloropropane	ND	ug/L	1.0
n-Propylbenzene	ND	ug/L	1.0
Bromobenzene	ND	ug/L	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1.0
2-Chlorotoluene	ND	ug/L	1.0
4-Chlorotoluene	ND	ug/L	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121720

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS
QC Run: 14 OCT 96-BDX Date Analyzed: 14 OCT 96

Analyte	Result		Units	Reporting Limit
tert-Butylbenzene	ND		ug/L	1.0
1,2,4-Trimethylbenzene	ND		ug/L	1.0
sec-Butylbenzene	ND		ug/L	1.0
Isopropyltoluene	ND		ug/L	1.0
1,3-Dichlorobenzene	ND		ug/L	1.0
1,4-Dichlorobenzene	ND		ug/L	1.0
n-Butylbenzene	ND		ug/L	1.0
1,2-Dichlorobenzene	ND		ug/L	1.0
1,2-Dibromo-3-chloro-propane (DBCP)	ND		ug/L	1.0
1,2,4-Trichlorobenzene	0.14	J	ug/L	1.0
Hexachlorobutadiene	ND		ug/L	1.0
Naphthalene	0.18	J	ug/L	1.0
1,2,3-Trichlorobenzene	ND		ug/L	1.0
2-Chloroethyl vinyl ether	ND		ug/L	10
cis-1,3-Dichloropropene	ND		ug/L	0.50
trans-1,3-Dichloropropene	ND		ug/L	0.50
Carbon disulfide	ND		ug/L	5.0
Methyl t-butyl ether	ND		ug/L	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		ug/L	5.0

J = Result is detected below the reporting limit or is an estimated concentration.

ND = Not Detected

Quanterra Incorporated
1721 South Grand Avenue
Santa Ana, California 92705

714 258-8610 Telephone
714 258-0921 Fax

Quanterra
Environmental Services

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October 26, 1996

CAMP, DRESSER & McKEE
18881 VON KARMAN, SUITE 650
IRVINE, CA 92612
ATTN: MS. SUZANNE ROWE

LIMS NO.: 121861-0001/0004
DATE SAMPLED: 7-OCT-1996
DATE SAMPLE REC'D: 7-OCT-1996
PROJECT: BALDWIN PARK

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

Preliminary data were provided on 10/21/96 to Suzanne Rowe.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Patty Mata at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Project Manager

cc: Project File

LIMS REPORT KEY

Quanterra Environmental Services

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

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Chain-of-Custody Records and Sample Description Information

Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries

Quanterra Environmental Services

CASE NARRATIVE

LIMS # 121861

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 2.6°C.

Sample containers were received intact. The VOA vials did not contain headspace. Proper preservation of applicable samples was verified upon receipt and documented on the Sample Control worksheet. Sample container labels did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Sample was received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

III. GENERAL CHEMISTRY (BY METHOD: EPA300.0)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
CDM	Suzane Rawe	10/7/96	62392

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page
SWS 139W	714-752-5452 / 714-752-1307	121861	1 of 1

City	State	Zip Code	Site Contact	Lab Contact
La Puente	CA		Barb Wells	Patty Mata

Project Name: Baldwin Park Operable Unit

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260	300.0 NO2, NO3	Special Instructions/ Conditions of Receipt
BP-01901598-100796 -GW- 3-40ml VOA's w/HCl 1-250ml Poly unpres	10-7-96	10:15	X			X			X			X	X	
BP-08000069-100796 -GW- 5-40ml VOA's w/HCl 1-250ml Poly unpres.	10-7-96	10:35	X			X			X			X	X	
BP-08000095-100796 3-40ml VOA's w/HCl 1-250ml Poly unpres	10-7-96	9:42	X			X			X			X	X	
BP-FB-1 3-40ml VOA's w/HCl	10-7-96	10:46	X						X			X		

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☒ Other Normal

QC Requirements (Specify): Level 3 Data Deliverables (DW) per B.W. 10/7/96

	Date	Time		Date	Time
1. Relinquished By: Shannon Sean Tamehill	10/7/96	12:25	1. Received By: [signature]	10/7/96	1225
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Camp, Dresser & McKee

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
121861-0001-SA	BP-GW-01901598-100796	WATER	07 OCT 96	10:15	07 OCT 96
121861-0002-SA	BP-GW-08000069-100796	WATER	07 OCT 96	10:35	07 OCT 96
121861-0003-SA	BP-GW-08000095-100796	WATER	07 OCT 96	09:42	07 OCT 96
121861-0004-TB	BP-FB-1	WATER-QA	07 OCT 96	10:46	07 OCT 96

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01901598-100796
LAB ID: 121861-0001-SA
Matrix: WATER — Sampled: 07 OCT 96 — Received: 07 OCT 96
Authorized: 07 OCT 96 — Prepared: 11 OCT 96 — Analyzed: 11 OCT 96
Instrument: GC/MS-MD — Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	0.33	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	0.25	J	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	0.32	J	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01901598-100796
LAB ID: 121861-0001-SA
Matrix: WATER Sampled: 07 OCT 96 Received: 07 OCT 96
Authorized: 07 OCT 96 Prepared: 11 OCT 96 Analyzed: 11 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	90	%	80 - 120
Toluene-d8	103	%	88 - 110
Bromofluorobenzene	94	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01901598-100796
LAB ID: 121861-0001-SA
Matrix: WATER
Authorized: 07 OCT 96

Sampled: 07 OCT 96
Prepared: See Below

Received: 07 OCT 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	07 OCT 96
Nitrate as N	20.1		10	0.50	mg/L	E300.0	NA	07 OCT 96

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-08000069-100796
LAB ID: 121861-0002-SA
Matrix: WATER
Authorized: 07 OCT 96
Instrument: GC/MS-MD

Sampled: 07 OCT 96
Prepared: 11 OCT 96
Dilution: 1.0

Received: 07 OCT 96
Analyzed: 11 OCT 96

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	0.32	J	1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-08000069-100796
LAB ID: 121861-0002-SA
Matrix: WATER Sampled: 07 OCT 96 Received: 07 OCT 96
Authorized: 07 OCT 96 Prepared: 11 OCT 96 Analyzed: 11 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	88	%	80 - 120
Toluene-d8	100	%	88 - 110
Bromofluorobenzene	93	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-08000069-100796
LAB ID: 121861-0002-SA
Matrix: WATER
Authorized: 07 OCT 96

Sampled: 07 OCT 96
Prepared: See Below

Received: 07 OCT 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	07 OCT 96
Nitrate as N	5.9		10	0.50	mg/L	E300.0	NA	07 OCT 96

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-08000095-100796
LAB ID: 121861-0003-SA
Matrix: WATER Sampled: 07 OCT 96 Received: 07 OCT 96
Authorized: 07 OCT 96 Prepared: 11 OCT 96 Analyzed: 11 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	1.4		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-08000095-100796
LAB ID: 121861-0003-SA
Matrix: WATER Sampled: 07 OCT 96 Received: 07 OCT 96
Authorized: 07 OCT 96 Prepared: 11 OCT 96 Analyzed: 11 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	93	%	80 - 120
Toluene-d8	105	%	88 - 110
Bromofluorobenzene	99	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-FB-1
LAB ID: 121861-0004-TB
Matrix: WATER-QA
Sampled: 07 OCT 96
Received: 07 OCT 96
Authorized: 07 OCT 96
Prepared: 11 OCT 96
Analyzed: 11 OCT 96
Instrument: GC/MS-MD
Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	ND		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-FB-1
LAB ID: 121861-0004-TB
Matrix: WATER-QA Sampled: 07 OCT 96 Received: 07 OCT 96
Authorized: 07 OCT 96 Prepared: 11 OCT 96 Analyzed: 11 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	86	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	91	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-08000095-100796
LAB ID: 121861-0003-SA
Matrix: WATER
Authorized: 07 OCT 96

Sampled: 07 OCT 96
Prepared: See Below

Received: 07 OCT 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	07 OCT 96
Nitrate as N	2.0		1.0	0.050	mg/L	E300.0	NA	07 OCT 96

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Wet Chemistry Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121861-0001-SA	AQUEOUS	QNO3-A		07 OCT 96-AX	07 OCT 96-AA
121861-0001-SA	AQUEOUS	QNO2-A		07 OCT 96-AX	07 OCT 96-AA
121861-0002-SA	AQUEOUS	QNO3-A		07 OCT 96-AX	07 OCT 96-AA
121861-0002-SA	AQUEOUS	QNO2-A		07 OCT 96-AX	07 OCT 96-AA
121861-0003-SA	AQUEOUS	QNO3-A		07 OCT 96-AX	07 OCT 96-AA
121861-0003-SA	AQUEOUS	QNO2-A		07 OCT 96-AX	07 OCT 96-AA

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 121861

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 07 OCT 96
QC Run: 07 OCT 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrate as N	4.00	4.20	105	85-115

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 07 OCT 96
QC Run: 07 OCT 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrite as N	4.00	3.99	100	85-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 121861

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
Sample: 121861-0001
MS Run: 07 OCT 96-AA
Units: mg/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Nitrate as N	20.1	42.3	43.0	20.0	111	114	3.1	85-115	20

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS
Sample: 121861-0001
MS Run: 07 OCT 96-AA
Units: mg/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Nitrite as N	ND	18.3	18.9	20.0	91	95	3.4	85-115	20

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Wet Chemistry Analysis and Preparation
Project: 121861

Test: Q-NO3-IC-A Method 300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 07 OCT 96-AX Date Analyzed: 07 OCT 96

Analyte	Result	Units	Reporting Limit
Nitrate as N	ND	mg/L	0.050

Test: Q-NO2-IC-A Method 300.0 - Nitrite as N, Ion Chomatography
Matrix: AQUEOUS
QC Run: 07 OCT 96-AX Date Analyzed: 07 OCT 96

Analyte	Result	Units	Reporting Limit
Nitrite as N	ND	mg/L	0.050

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121861-0001-SA	AQUEOUS	8260-A		10 OCT 96-BDX	07 OCT 96-BD
121861-0002-SA	AQUEOUS	8260-A		10 OCT 96-BDX	07 OCT 96-BD
121861-0003-SA	AQUEOUS	8260-A		10 OCT 96-BDX	07 OCT 96-BD
121861-0004-TB	AQUEOUS	8260-A		10 OCT 96-BDX	07 OCT 96-BD

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121861

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 10 OCT 96
QC Run: 10 OCT 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	12.4	124	64-124
Benzene	10.0	11.0	110	67-127
Trichloroethene	10.0	10.1	101	60-120
Toluene	10.0	10.9	109	72-132
Chlorobenzene	10.0	12.0	120	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.14	91	80-120
Toluene-d8	10.0	10.3	103	88-110
Bromofluorobenzene	10.0	9.78	98	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 121861

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 121551-0003
MS Run: 07 OCT 96-BD
Units: ug/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	1.04	11.6	12.0	10.0	106	110	3.7	64-124	25
Benzene	ND	10.3	10.3	10.0	103	103	0.0	67-127	25
Trichloroethene	6.11	13.2	15.5	10.0	71	94	28	60-120	25
Toluene	ND	10.2	10.3	10.0	102	103	0.9	72-132	25
Chlorobenzene	ND	10.2	10.1	10.0	102	101	0.9	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	99	99	94	80-120
Toluene-d8	109	106	105	88-110
Bromofluorobenzene	99	99	93	86-115

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121861

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 10 OCT 96-BDX Date Analyzed: 11 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	8.57	86	80-120
Toluene-d8	10.0	10.2	102	88-110
Bromofluorobenzene	10.0	9.26	93	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121861

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 07 OCT 96-BX QC Run: 10 OCT 96-BDX Date Analyzed: 11 OCT 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propylbenzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1
Isopropyltoluene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121861

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 07 OCT 96-BX QC Run: 10 OCT 96-BDX Date Analyzed: 11 OCT 96 (cont.)

Analyte	Result	Units	RL	MDL
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

Quanterra Incorporated
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714 258-8610 Telephone
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Quanterra
Environmental Services

October 26, 1996

CAMP, DRESSER & McKEE
18881 VON KARMAN, SUITE 650
IRVINE, CA 92612
ATTN: MS. SUZANNE ROWE

LIMS NO.: 121911-0001/0003
DATE SAMPLED: 8-OCT-1996
DATE SAMPLE REC'D: 8-OCT-1996
PROJECT: BALDWIN PARK

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

Preliminary data were provided on 10/21/96 @ 4:00 PM to Suzanne Rowe.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Patty Mata at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Project Manager

cc: Project File

LIMS REPORT KEY

Quanterra Environmental Services

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

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CASE NARRATIVE

LIMS # 121911

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 4.3°C.

Sample containers were received intact. The VOA vials did not contain headspace. Proper preservation of applicable samples was verified upon receipt and documented on the Sample Control worksheet. Sample container labels did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Sample was received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

Please note that SW8260 was performed instead of SW8021 as requested on the chain of custody.

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

III. GENERAL CHEMISTRY (BY METHOD: EPA300.0)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
CDM	Suzanne Rowe	10/8/96	62393

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page
Baldwin Park Production B6C + B6D	(714) 752-5452	121911	1 of 1

City	State	Zip Code	Site Contact	Lab Contact
			Barbara Wells	

Project Name	Carrier/Waybill Number
Baldwin Park Operable Unit	

Contract/Purchase Order/Quote No.

Analysis (Attach list if more space is needed)

4.3°C

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8021 VOCs	300.0 NO2+NO3	Special Instructions/ Conditions of Receipt
BP-GW-71903093-100896	10/08/96	0930	X			X			X			X	X	3-40ml VOAs w/HCL + 1-250ml poly
BP-GW-78000098-100896	|	0940	X			X			X			X	X	|
BP-GW-78000098F-100896	|	0945	X						X			X		3-40ml VOAs w/HCL

Possible Hazard Identification: [x] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [x] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [x] Other normal

QC Requirements (Specify): CLP-TYPE PAPERWORK

	Date	Time		Date	Time
1. Relinquished By: [signature]	10-08-96	11:22 PM	1. Received By: [signature]	10/8/96	1122
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Camp, Dresser & McKee

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
121911-0001-SA	BP-GW-71903093-100896	WATER	08 OCT 96	09:30	08 OCT 96
121911-0002-SA	BP-GW-78000098-100896	WATER	08 OCT 96	09:40	08 OCT 96
121911-0003-SA	BP-GW-78000098F-100896	WATER	08 OCT 96	09:45	08 OCT 96

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-71903093-100896
LAB ID: 121911-0001-SA
Matrix: WATER Sampled: 08 OCT 96 Received: 08 OCT 96
Authorized: 08 OCT 96 Prepared: 11 OCT 96 Analyzed: 11 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	1.8		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	0.72	J	1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	0.70	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	2.3		1.0	0.20	ug/L
Chloroform	2.9		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	1.4		0.50	0.20	ug/L
1,2-Dichloroethane	3.9		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	41		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	4.1		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-71903093-100896
LAB ID: 121911-0001-SA
Matrix: WATER Sampled: 08 OCT 96 Received: 08 OCT 96
Authorized: 08 OCT 96 Prepared: 11 OCT 96 Analyzed: 11 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	93	%	80 - 120
Toluene-d8	103	%	88 - 110
Bromofluorobenzene	94	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-78000098-100896
LAB ID: 121911-0002-SA
Matrix: WATER Sampled: 08 OCT 96 Received: 08 OCT 96
Authorized: 08 OCT 96 Prepared: 11 OCT 96 Analyzed: 11 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	0.27	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	4.2		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	1.1		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-78000098-100896
LAB ID: 121911-0002-SA
Matrix: WATER Sampled: 08 OCT 96 Received: 08 OCT 96
Authorized: 08 OCT 96 Prepared: 11 OCT 96 Analyzed: 11 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	95	%	80 - 120
Toluene-d8	103	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-78000098F-100896
LAB ID: 121911-0003-SA
Matrix: WATER Sampled: 08 OCT 96 Received: 08 OCT 96
Authorized: 08 OCT 96 Prepared: 11 OCT 96 Analyzed: 11 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	ND		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	0.087	J	1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-78000098F-100896
LAB ID: 121911-0003-SA
Matrix: WATER Sampled: 08 OCT 96 Received: 08 OCT 96
Authorized: 08 OCT 96 Prepared: 11 OCT 96 Analyzed: 11 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	93	%	80 - 120
Toluene-d8	104	%	88 - 110
Bromofluorobenzene	98	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-71903093-100896
LAB ID: 121911-0001-SA
Matrix: WATER
Authorized: 08 OCT 96

Sampled: 08 OCT 96
Prepared: See Below

Received: 08 OCT 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	09 OCT 96
Nitrate as N	10.1		10	0.50	mg/L	E300.0	NA	09 OCT 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-78000098-100896
LAB ID: 121911-0002-SA
Matrix: WATER
Authorized: 08 OCT 96

Sampled: 08 OCT 96
Prepared: See Below

Received: 08 OCT 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	09 OCT 96
Nitrate as N	2.0		1.0	0.050	mg/L	E300.0	NA	09 OCT 96

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121911-0001-SA	AQUEOUS	8260-A		10 OCT 96-BDX	07 OCT 96-BD
121911-0002-SA	AQUEOUS	8260-A		10 OCT 96-BDX	07 OCT 96-BD
121911-0003-SA	AQUEOUS	8260-A		10 OCT 96-BDX	07 OCT 96-BD

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121911

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 10 OCT 96
QC Run: 10 OCT 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	12.4	124	64-124
Benzene	10.0	11.0	110	67-127
Trichloroethene	10.0	10.1	101	60-120
Toluene	10.0	10.9	109	72-132
Chlorobenzene	10.0	12.0	120	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.14	91	80-120
Toluene-d8	10.0	10.3	103	88-110
Bromofluorobenzene	10.0	9.78	98	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 121911

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 121551-0003
MS Run: 07 OCT 96-BD
Units: ug/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	1.04	11.6	12.0	10.0	106	110	3.7	64-124	25
Benzene	ND	10.3	10.3	10.0	103	103	0.0	67-127	25
Trichloroethene	6.11	13.2	15.5	10.0	71	94	28	60-120	25
Toluene	ND	10.2	10.3	10.0	102	103	0.9	72-132	25
Chlorobenzene	ND	10.2	10.1	10.0	102	101	0.9	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	99	99	94	80-120
Toluene-d8	109	106	105	88-110
Bromofluorobenzene	99	99	93	86-115

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121911

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 10 OCT 96-BDX Date Analyzed: 11 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	8.57	86	80-120
Toluene-d8	10.0	10.2	102	88-110
Bromofluorobenzene	10.0	9.26	93	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121911

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 07 OCT 96-BX QC Run: 10 OCT 96-BDX Date Analyzed: 11 OCT 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propylbenzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1
Isopropyltoluene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121911

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 07 OCT 96-BX QC Run: 10 OCT 96-BDX Date Analyzed: 11 OCT 96 (cont.)

Analyte	Result	Units	RL	MDL
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Wet Chemistry Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121911-0001-SA	AQUEOUS	QNO3-A		09 OCT 96-AX	09 OCT 96-AA
121911-0001-SA	AQUEOUS	QNO2-A		09 OCT 96-AX	09 OCT 96-AA
121911-0002-SA	AQUEOUS	QNO3-A		09 OCT 96-AX	09 OCT 96-AA
121911-0002-SA	AQUEOUS	QNO2-A		09 OCT 96-AX	09 OCT 96-AA

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 121911

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 09 OCT 96
QC Run: 09 OCT 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrate as N	4.00	4.30	108	85-115

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 09 OCT 96
QC Run: 09 OCT 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrite as N	4.00	4.02	100	85-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 121911

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
Sample: 121911-0001
MS Run: 09 OCT 96-AA
Units: mg/L

Analyte	Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
	Concentration								
Nitrate as N	10.1	32.3	31.7	20.0	111	108	2.7	85-115	20

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS
Sample: 121911-0001
MS Run: 09 OCT 96-AA
Units: mg/L

Analyte	Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
	Concentration								
Nitrite as N	ND	19.5	18.9	20.0	98	94	3.3	85-115	20

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Wet Chemistry Analysis and Preparation
Project: 121911

Test: Q-NO3-IC-A Method 300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 09 OCT 96-AX Date Analyzed: 09 OCT 96

Analyte	Result	Units	Reporting Limit
Nitrate as N	ND	mg/L	0.050

Test: Q-NO2-IC-A Method 300.0 - Nitrite as N, Ion Chomatography
Matrix: AQUEOUS
QC Run: 09 OCT 96-AX Date Analyzed: 09 OCT 96

Analyte	Result	Units	Reporting Limit
Nitrite as N	ND	mg/L	0.050

ND = Not Detected

Quanterra Incorporated
1721 South Grand Avenue
Santa Ana, California 92705

714 258-8610 Telephone
714 258-0921 Fax

Quanterra
Environmental Services

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October 26, 1996

CAMP, DRESSER & McKEE
18881 VON KARMAN, SUITE 650
IRVINE, CA 92612
ATTN: MS. SUZANNE ROWE

LIMS NO.: 121935-0001/0004
DATE SAMPLED: 9-OCT-1996
DATE SAMPLE REC'D: 9-OCT-1996
PROJECT: BALDWIN PARK

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

Preliminary data were provided on October 22, 1996 to Suzanne Rowe.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Patty Mata at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Project Manager

cc: Project File

LIMS REPORT KEY

Quanterra Environmental Services

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

Quanterra
Environmental Services

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Chain-of-Custody Records and Sample Description Information

Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries

CASE NARRATIVE

LIMS # 121935

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 3.6°C.

Sample containers were received intact. The VOA vials did not contain headspace. Proper preservation of applicable samples was verified upon receipt and documented on the Sample Control worksheet. Sample container labels did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Sample was received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

III. GENERAL CHEMISTRY (BY METHOD: EPA300.0)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
CDH	Suzanne Rowe	10-09-96	62394
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
Well B4B	(714) 752-5452	121935	

City	State	Zip Code	Site Contact	Lab Contact
Baldwin Park	CA		Barbara Wells	Patty Malta

Project Name: Baldwin Park Operable Unit

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		8260 VOCs	300.0 NO2+NO3	Special Instructions/ Conditions of Receipt
BP-GW-51902859-100996	10/9/96	0800	X							X				X		3-40ml VOAs w/HCl
BP-GW-51902860-100996	10/9/96	0830	X							X				X		
BP-GW-51902858-100996	↓	0930	X							X				X	X	3-40ml VOAs w/HCl 1-250ml poly
BP-GW-51902858F-100996	↓	0945	X							X				X		3-40ml VOAs w/HCl

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other normal

QC Requirements (Specify): CLP TYPE PAPERWORK

	Date	Time		Date	Time
1. Relinquished By: [signature]	10-9-96	1055	1. Received By: [signature] K. FREITAG	10/9/96	1055
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments:

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Camp, Dresser & McKee

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
121935-0001-SA	BP-GW-51902859-100996	WATER	09 OCT 96	08:00	09 OCT 96
121935-0002-SA	BP-GW-51902860-100996	WATER	09 OCT 96	08:30	09 OCT 96
121935-0003-SA	BP-GW-51902858-100996	WATER	09 OCT 96	09:30	09 OCT 96
121935-0004-SA	BP-GW-51902858F-100996	WATER	09 OCT 96	09:45	09 OCT 96

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-51902858-100996
LAB ID: 121935-0003-SA
Matrix: WATER
Authorized: 09 OCT 96

Sampled: 09 OCT 96
Prepared: See Below

Received: 09 OCT 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	09 OCT 96
Nitrate as N	1.1		1.0	0.050	mg/L	E300.0	NA	09 OCT 96

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-51902859-100996
LAB ID: 121935-0001-SA
Matrix: WATER Sampled: 09 OCT 96 Received: 09 OCT 96
Authorized: 09 OCT 96 Prepared: 17 OCT 96 Analyzed: 17 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	2.3		1.0	0.10	ug/L
Chloroethane	4.9		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	1.7	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	6.4		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	2.2		0.50	0.10	ug/L
Trichloroethene	2.2		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	3.4		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	12		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	11		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	1.8		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	15		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-51902859-100996
LAB ID: 121935-0001-SA
Matrix: WATER Sampled: 09 OCT 96 Received: 09 OCT 96
Authorized: 09 OCT 96 Prepared: 17 OCT 96 Analyzed: 17 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	1.2		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	J	5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	102	%	80 - 120
Toluene-d8	109	%	88 - 110
Bromofluorobenzene	102	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-51902860-100996
LAB ID: 121935-0002-SA
Matrix: WATER Sampled: 09 OCT 96 Received: 09 OCT 96
Authorized: 09 OCT 96 Prepared: 17 OCT 96 Analyzed: 17 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	2.9		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	1.9		1.0	0.10	ug/L
Methylene chloride	1.2	J	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	1.8		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	4.7		0.50	0.10	ug/L
Trichloroethene	ND		1.0	0.10	ug/L
1,2-Dichloropropane	2.6		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	7.2		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	2.1		1.0	0.20	ug/L
Chlorobenzene	0.15	J	1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	10		1.0	0.10	ug/L
Xylenes (total)	6.1		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	2.4		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	10		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-51902860-100996
LAB ID: 121935-0002-SA
Matrix: WATER Sampled: 09 OCT 96 Received: 09 OCT 96
Authorized: 09 OCT 96 Prepared: 17 OCT 96 Analyzed: 17 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	J	5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	96	%	80 - 120
Toluene-d8	103	%	88 - 110
Bromofluorobenzene	95	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-51902858-100996
LAB ID: 121935-0003-SA
Matrix: WATER Sampled: 09 OCT 96 Received: 09 OCT 96
Authorized: 09 OCT 96 Prepared: 17 OCT 96 Analyzed: 17 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	2.1		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	ND		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-51902858-100996
LAB ID: 121935-0003-SA
Matrix: WATER Sampled: 09 OCT 96 Received: 09 OCT 96
Authorized: 09 OCT 96 Prepared: 17 OCT 96 Analyzed: 17 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	94	%	80 - 120
Toluene-d8	102	%	88 - 110
Bromofluorobenzene	94	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-51902858F-100996
LAB ID: 121935-0004-SA
Matrix: WATER Sampled: 09 OCT 96 Received: 09 OCT 96
Authorized: 09 OCT 96 Prepared: 18 OCT 96 Analyzed: 18 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	ND		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-51902858F-100996
LAB ID: 121935-0004-SA
Matrix: WATER Sampled: 09 OCT 96 Received: 09 OCT 96
Authorized: 09 OCT 96 Prepared: 18 OCT 96 Analyzed: 18 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	97	%	80 - 120
Toluene-d8	102	%	88 - 110
Bromofluorobenzene	95	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Wet Chemistry Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121935-0003-SA	AQUEOUS	QNO3-A		09 OCT 96-AX	09 OCT 96-AA
121935-0003-SA	AQUEOUS	QNO2-A		09 OCT 96-AX	09 OCT 96-AA

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 121935

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 09 OCT 96
QC Run: 09 OCT 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrate as N	4.00	4.30	108	85-115

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 09 OCT 96
QC Run: 09 OCT 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrite as N	4.00	4.02	100	85-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 121935

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
Sample: 121911-0001
MS Run: 09 OCT 96-AA
Units: mg/L

Analyte	Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
	Concentration								
Nitrate as N	10.1	32.3	31.7	20.0	111	108	2.7	85-115	20

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS
Sample: 121911-0001
MS Run: 09 OCT 96-AA
Units: mg/L

Analyte	Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
	Concentration								
Nitrite as N	ND	19.5	18.9	20.0	98	94	3.3	85-115	20

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Wet Chemistry Analysis and Preparation
Project: 121935

Test: Q-NO3-IC-A Method 300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 09 OCT 96-AX Date Analyzed: 09 OCT 96

Analyte	Result	Units	Reporting Limit
Nitrate as N	ND	mg/L	0.050

Test: Q-NO2-IC-A Method 300.0 - Nitrite as N, Ion Chomatography
Matrix: AQUEOUS
QC Run: 09 OCT 96-AX Date Analyzed: 09 OCT 96

Analyte	Result	Units	Reporting Limit
Nitrite as N	ND	mg/L	0.050

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121935-0001-SA	AQUEOUS	8260-A		16 OCT 96-BDX	07 OCT 96-BD
121935-0002-SA	AQUEOUS	8260-A		16 OCT 96-BDX	07 OCT 96-BD
121935-0003-SA	AQUEOUS	8260-A		16 OCT 96-BDX	07 OCT 96-BD
121935-0004-SA	AQUEOUS	8260-A		17 OCT 96-BDX	07 OCT 96-BD

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121935

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 17 OCT 96
QC Run: 17 OCT 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	11.6	116	64-124
Benzene	10.0	10.2	102	67-127
Trichloroethene	10.0	9.81	98	60-120
Toluene	10.0	10.1	101	72-132
Chlorobenzene	10.0	10.4	104	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.67	97	80-120
Toluene-d8	10.0	9.93	99	88-110
Bromofluorobenzene	10.0	9.51	95	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 16 OCT 96
QC Run: 16 OCT 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	10.1	101	64-124
Benzene	10.0	9.52	95	67-127
Trichloroethene	10.0	9.23	92	60-120
Toluene	10.0	9.68	97	72-132
Chlorobenzene	10.0	10.3	103	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	8.91	89	80-120
Toluene-d8	10.0	9.91	99	88-110
Bromofluorobenzene	10.0	9.43	94	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 121935

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 121551-0003
MS Run: 07 OCT 96-BD
Units: ug/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	1.04	11.6	12.0	10.0	106	110	3.7	64-124	25
Benzene	ND	10.3	10.3	10.0	103	103	0.0	67-127	25
Trichloroethene	6.11	13.2	15.5	10.0	71	94	28	60-120	25
Toluene	ND	10.2	10.3	10.0	102	103	0.9	72-132	25
Chlorobenzene	ND	10.2	10.1	10.0	102	101	0.9	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	99	99	94	80-120
Toluene-d8	109	106	105	88-110
Bromofluorobenzene	99	99	93	86-115

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121935

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 17 OCT 96-BDX Date Analyzed: 17 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	8.78	88	80-120
Toluene-d8	10.0	10.3	103	88-110
Bromofluorobenzene	10.0	9.10	91	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 16 OCT 96-BDX Date Analyzed: 16 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.37	94	80-120
Toluene-d8	10.0	10.2	102	88-110
Bromofluorobenzene	10.0	9.44	94	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121935

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 07 OCT 96-BX QC Run: 16 OCT 96-BDX Date Analyzed: 16 OCT 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propylbenzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1
Isopropyltoluene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121935

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 07 OCT 96-BX QC Run: 16 OCT 96-BDX Date Analyzed: 16 OCT 96 (cont.)

Analyte	Result	Units	RL	MDL
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121935

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 07 OCT 96-BX QC Run: 17 OCT 96-BDX Date Analyzed: 17 OCT 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propylbenzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121935

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 07 OCT 96-BX QC Run: 17 OCT 96-BDX Date Analyzed: 17 OCT 96 (cont.)

Analyte	Result	Units	RL	MDL
Isopropyltoluene	ND	ug/L	1.0	0.1
1,3-Dichlorobenzene	ND	ug/L	1.0	0.1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.1
n-Butylbenzene	ND	ug/L	1.0	0.2
1,2-Dichlorobenzene	ND	ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0	0.6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.2
Hexachlorobutadiene	ND	ug/L	1.0	0.1
Naphthalene	ND	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND	ug/L	10	0.6
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.1
Carbon disulfide	ND	ug/L	5.0	0.1
Methyl t-butyl ether	ND	ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	1.0

ND = Not Detected

Quanterra Incorporated
50 1721 South Grand Avenue
Santa Ana, California 92705

714 258-8610 Telephone
714 258-0921 Fax

Quanterra
Environmental Services

November 7, 1996

CAMP, DRESSER & McKEE
18881 VON KARMAN, SUITE 650
IRVINE, CA 92612
ATTN: MS. SUZANNE ROWE

LIMS NO.: 122012-0001/0005
DATE SAMPLED: 11-OCT-1996
DATE SAMPLE REC'D: 11-OCT-1996
PROJECT: BALDWIN PARK

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

Preliminary data were provided on 10/24/96 at 6:25 PM to Suzanne Rowe.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Patty Mata at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Project Manager

cc: Project File

Quanterra Environmental Services

LIMS REPORT KEY

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

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Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries

CASE NARRATIVE

LIMS # 122012

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 4.5°C.

Sample containers were received intact. The VOA vials did not contain headspace. Proper preservation of applicable samples was verified upon receipt and documented on the Sample Control worksheet. Sample container labels did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Sample was received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

The MS/MSD recovery for trichloroethene could not be calculated due to relatively high levels in the native sample. Acceptable LCS data indicated that the system was operating within control.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

III. GENERAL CHEMISTRY (BY METHOD: EPA300.0)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
CDH	Suzanne Rowe	10-11-96	62395
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
La Puente 02, 03 + 04	(714) 752-5452	122012	

City	State	Zip Code	Site Contact	Lab Contact
Baldwin Park	CA		Barbara Wells	Patty Matta

Project Name: Baldwin Park Operable Unit

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		8260	300											Special Instructions/ Conditions of Receipt
BP-GW-01901460-101196	10-11-96	0930	X				X			X				X	X											3-40ml VOAs w/HCL 1-250ml poly
BP-GW-01902859-101196		0940	X				X			X				X	X											
BP-GW-01902859F-101196		0945	X							X				X												3-40ml VOAs w/HCL
BP-GW-08000062-101196		1010	X				X			X				X	X											3-40ml VOAs w/HCL 1-250 poly
BP-GW-08000062K-101196		1030	X				X			X				X	X											

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [X] Other normal

QC Requirements (Specify): CLP TYPE DERIVABLES

	Date	Time		Date	Time
1. Relinquished By: CDH	10-11-96	1145	1. Received By: D. Goldirsch	10-11-96	1145
2. Relinquished By: D. Goldirsch	10-11-96	1405	2. Received By: [illegible]	10-11-96	1405
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Camp, Dresser & McKee

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
122012-0001-SA	BP-GW-01901460-101196	WATER	11 OCT 96	09:30	11 OCT 96
122012-0002-SA	BP-GW-01902859-101196	WATER	11 OCT 96	09:40	11 OCT 96
122012-0003-SA	BP-GW-01902859F-101196	WATER	11 OCT 96	09:45	11 OCT 96
122012-0004-SA	BP-GW-08000062-101196	WATER	11 OCT 96	10:10	11 OCT 96
122012-0005-SA	BP-GW-08000062K-101196	WATER	11 OCT 96	10:30	11 OCT 96

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01901460-101196
LAB ID: 122012-0001-SA
Matrix: WATER Sampled: 11 OCT 96 Received: 11 OCT 96
Authorized: 13 OCT 96 Prepared: 18 OCT 96 Analyzed: 24 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	0.63	J	1.0	0.1	ug/L
Chloromethane	ND		1.0	0.3	ug/L
Vinyl chloride	ND		0.50	0.2	ug/L
Bromomethane	ND		1.0	0.1	ug/L
Chloroethane	ND		1.0	0.3	ug/L
Trichlorofluoromethane	ND		1.0	0.2	ug/L
1,1-Dichloroethene	0.39	J	1.0	0.1	ug/L
Methylene chloride	ND		2.0	0.1	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.1	ug/L
1,1-Dichloroethane	ND		1.0	0.1	ug/L
2,2-Dichloropropane	ND		1.0	0.2	ug/L
cis-1,2-Dichloroethene	0.74	J	1.0	0.2	ug/L
Chloroform	0.92	J	1.0	0.1	ug/L
Bromochloromethane	ND		1.0	0.1	ug/L
1,1,1-Trichloroethane	ND		1.0	0.1	ug/L
1,1-Dichloropropene	ND		1.0	0.1	ug/L
Carbon tetrachloride	2.3		0.50	0.2	ug/L
1,2-Dichloroethane	1.5		0.50	0.1	ug/L
Benzene	ND		0.50	0.1	ug/L
Trichloroethene	27		1.0	0.1	ug/L
1,2-Dichloropropane	ND		1.0	0.1	ug/L
Bromodichloromethane	ND		1.0	0.1	ug/L
Dibromomethane	ND		1.0	0.2	ug/L
Toluene	ND		1.0	0.2	ug/L
1,1,2-Trichloroethane	ND		1.0	0.2	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.2	ug/L
1,3-Dichloropropane	ND		1.0	0.2	ug/L
Tetrachloroethene	1.4		1.0	0.2	ug/L
Dibromochloromethane	ND		1.0	0.2	ug/L
Chlorobenzene	ND		1.0	0.1	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.1	ug/L
Ethylbenzene	ND		1.0	0.1	ug/L
Xylenes (total)	ND		1.0	0.3	ug/L
Styrene	ND		1.0	0.1	ug/L
Bromoform	ND		1.0	0.1	ug/L
1-Methylethylbenzene	ND		1.0	0.1	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.1	ug/L
1,2,3-Trichloropropane	ND		1.0	0.4	ug/L
n-Propylbenzene	ND		1.0	0.2	ug/L
Bromobenzene	ND		1.0	0.2	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.1	ug/L
2-Chlorotoluene	ND		1.0	0.3	ug/L
4-Chlorotoluene	ND		1.0	0.3	ug/L
tert-Butylbenzene	ND		1.0	0.1	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.1	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01901460-101196
LAB ID: 122012-0001-SA
Matrix: WATER Sampled: 11 OCT 96 Received: 11 OCT 96
Authorized: 13 OCT 96 Prepared: 18 OCT 96 Analyzed: 24 OCT 96
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
sec-Butylbenzene	ND		1.0	0.1	ug/L
Isopropyltoluene	ND		1.0	0.1	ug/L
1,3-Dichlorobenzene	ND		1.0	0.1	ug/L
1,4-Dichlorobenzene	ND		1.0	0.1	ug/L
n-Butylbenzene	ND		1.0	0.2	ug/L
1,2-Dichlorobenzene	ND		1.0	0.1	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.6	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.2	ug/L
Hexachlorobutadiene	ND		1.0	0.1	ug/L
Naphthalene	ND		1.0	0.3	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.2	ug/L
2-Chloroethyl vinyl ether	ND		10	0.6	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.2	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.1	ug/L
Carbon disulfide	ND		5.0	0.1	ug/L
Methyl t-butyl ether	ND		5.0	0.5	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	85	%	80 - 120
Toluene-d8	94	%	88 - 110
Bromofluorobenzene	94	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01901460-101196
LAB ID: 122012-0001-SA
Matrix: WATER — Sampled: 11 OCT 96 — Received: 11 OCT 96
Authorized: 13 OCT 96 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	12 OCT 96
Nitrate as N	3.5		1.0	0.050	mg/L	E300.0	NA	12 OCT 96

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01902859-101196
LAB ID: 122012-0002-SA
Matrix: WATER Sampled: 11 OCT 96 Received: 11 OCT 96
Authorized: 13 OCT 96 Prepared: 18 OCT 96 Analyzed: 18 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	1.5		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	0.44	J	1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	0.16	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	0.90	J	1.0	0.20	ug/L
Chloroform	1.6		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	2.5		0.50	0.20	ug/L
1,2-Dichloroethane	2.8		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	45		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	2.0		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01902859-101196
LAB ID: 122012-0002-SA
Matrix: WATER Sampled: 11 OCT 96 Received: 11 OCT 96
Authorized: 13 OCT 96 Prepared: 18 OCT 96 Analyzed: 18 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	95	%	80 - 120
Toluene-d8	100	%	88 - 110
Bromofluorobenzene	94	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01902859-101196
LAB ID: 122012-0002-SA
Matrix: WATER
Authorized: 13 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 11 OCT 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	12 OCT 96
Nitrate as N	6.0		10	0.50	mg/L	E300.0	NA	12 OCT 96

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01902859F-101196
LAB ID: 122012-0003-SA
Matrix: WATER Sampled: 11 OCT 96 Received: 11 OCT 96
Authorized: 13 OCT 96 Prepared: 18 OCT 96 Analyzed: 18 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	ND		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	0.079	J	1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01902859F-101196
LAB ID: 122012-0003-SA
Matrix: WATER Sampled: 11 OCT 96 Received: 11 OCT 96
Authorized: 13 OCT 96 Prepared: 18 OCT 96 Analyzed: 18 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	94	%	80 - 120
Toluene-d8	94	%	88 - 110
Bromofluorobenzene	89	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-08000062-101196
LAB ID: 122012-0004-SA
Matrix: WATER
Authorized: 13 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 11 OCT 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	12 OCT 96
Nitrate as N	5.1		10	0.50	mg/L	E300.0	NA	12 OCT 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-08000062K-101196
LAB ID: 122012-0005-SA
Matrix: WATER
Authorized: 13 OCT 96

Sampled: 11 OCT 96
Prepared: See Below

Received: 11 OCT 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	12 OCT 96
Nitrate as N	5.1		1.0	0.50	mg/L	E300.0	NA	12 OCT 96

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-08000062-101196
LAB ID: 122012-0004-SA
Matrix: WATER Sampled: 11 OCT 96 Received: 11 OCT 96
Authorized: 13 OCT 96 Prepared: 18 OCT 96 Analyzed: 18 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	2.0		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	1.6		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	0.27	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	2.8		1.0	0.20	ug/L
Chloroform	3.6		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	5.3		0.50	0.20	ug/L
1,2-Dichloroethane	6.2		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	92		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	5.0		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-08000062-101196
LAB ID: 122012-0004-SA
Matrix: WATER Sampled: 11 OCT 96 Received: 11 OCT 96
Authorized: 13 OCT 96 Prepared: 18 OCT 96 Analyzed: 18 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	98	%	80 - 120
Toluene-d8	99	%	88 - 110
Bromofluorobenzene	90	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-08000062K-101196
LAB ID: 122012-0005-SA
Matrix: WATER Sampled: 11 OCT 96 Received: 11 OCT 96
Authorized: 13 OCT 96 Prepared: 18 OCT 96 Analyzed: 18 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	2.0		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	ND		1.0	0.20	ug/L
1,1-Dichloroethene	1.6		1.0	0.10	ug/L
Methylene chloride	ND		2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	0.26	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	2.9		1.0	0.20	ug/L
Chloroform	3.4		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	5.3		0.50	0.20	ug/L
1,2-Dichloroethane	6.1		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	90		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	5.0		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L
tert-Butylbenzene	ND		1.0	0.10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-08000062K-101196
LAB ID: 122012-0005-SA
Matrix: WATER Sampled: 11 OCT 96 Received: 11 OCT 96
Authorized: 13 OCT 96 Prepared: 18 OCT 96 Analyzed: 18 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	90	%	80 - 120
Toluene-d8	96	%	88 - 110
Bromofluorobenzene	86	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
122012-0001-SA	AQUEOUS	8260-A		24 OCT 96-ACX	18 OCT 96-AD
122012-0002-SA	AQUEOUS	8260-A		18 OCT 96-ADX	18 OCT 96-AD
122012-0003-SA	AQUEOUS	8260-A		18 OCT 96-ADX	18 OCT 96-AD
122012-0004-SA	AQUEOUS	8260-A		18 OCT 96-ADX	18 OCT 96-AD
122012-0005-SA	AQUEOUS	8260-A		18 OCT 96-ADX	18 OCT 96-AD

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 122012

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 24 OCT 96
QC Run: 24 OCT 96-ACX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	10.6	106	64-124
Benzene	10.0	10.1	101	67-127
Trichloroethene	10.0	10.5	105	60-120
Toluene	10.0	10.1	101	72-132
Chlorobenzene	10.0	9.97	100	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.25	92	80-120
Toluene-d8	10.0	9.15	92	88-110
Bromofluorobenzene	10.0	9.79	98	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 18 OCT 96
QC Run: 18 OCT 96-ADX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	11.4	114	64-124
Benzene	10.0	10.1	101	67-127
Trichloroethene	10.0	9.69	97	60-120
Toluene	10.0	10.1	101	72-132
Chlorobenzene	10.0	10.5	105	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.74	97	80-120
Toluene-d8	10.0	9.88	99	88-110
Bromofluorobenzene	10.0	9.41	94	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 122012

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 122012-0005
MS Run: 18 OCT 96-AD
Units: ug/L

Analyte	Concentration Sample Result	MS Result		MSD Result		Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	1.58	12.1		11.6		10.0	105	100	4.9	64-124	25
Benzene	ND	9.63		9.61		10.0	96	96	0.2	67-127	25
Trichloroethene	90.4	96.5	n	97.0	n	10.0	NC	NC	NC	60-120	25
Toluene	ND	9.70		9.68		10.0	97	97	0.2	72-132	25
Chlorobenzene	ND	9.98		9.67		10.0	100	97	3.2	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	90	94	91	80-120
Toluene-d8	96	95	93	88-110
Bromofluorobenzene	86	88	88	86-115

n = Spiked analyte out of matrix spike acceptance limits; refer to lab control sample results.
NC = Not Calculated, calculation not applicable.
ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 122012

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 24 OCT 96-ACX Date Analyzed: 24 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	8.62	86	80-120
Toluene-d8	10.0	9.39	94	88-110
Bromofluorobenzene	10.0	9.56	96	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 18 OCT 96-ADX Date Analyzed: 18 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	8.89	89	80-120
Toluene-d8	10.0	9.86	99	88-110
Bromofluorobenzene	10.0	8.92	89	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 122012

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 18 OCT 96-AX QC Run: 24 OCT 96-ACX Date Analyzed: 24 OCT 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propylbenzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1
Isopropyltoluene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 122012

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Lot: 18 OCT 96-AX QC Run: 24 OCT 96-ACX Date Analyzed: 24 OCT 96 (cont.)

Analyte	Result		Units	RL	MDL
1,3-Dichlorobenzene	ND		ug/L	1.0	0.1
1,4-Dichlorobenzene	ND		ug/L	1.0	0.1
n-Butylbenzene	ND		ug/L	1.0	0.2
1,2-Dichlorobenzene	ND		ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND		ug/L	1.0	0.6
1,2,4-Trichlorobenzene	0.13	J	ug/L	1.0	0.2
Hexachlorobutadiene	ND		ug/L	1.0	0.1
Naphthalene	ND		ug/L	1.0	0.3
1,2,3-Trichlorobenzene	0.17	J	ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND		ug/L	10	0.6
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.1
Carbon disulfide	ND		ug/L	5.0	0.1
Methyl t-butyl ether	ND		ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		ug/L	5.0	1.0

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 122012

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 18 OCT 96-AX QC Run: 18 OCT 96-ADX Date Analyzed: 18 OCT 96

Analyte	Result	Units	RL	MDL
Dichlorodifluoromethane	ND	ug/L	1.0	0.1
Chloromethane	ND	ug/L	1.0	0.3
Vinyl chloride	ND	ug/L	0.50	0.2
Bromomethane	ND	ug/L	1.0	0.1
Chloroethane	ND	ug/L	1.0	0.3
Trichlorofluoromethane	ND	ug/L	1.0	0.2
1,1-Dichloroethene	ND	ug/L	1.0	0.1
Methylene chloride	ND	ug/L	2.0	0.1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.1
1,1-Dichloroethane	ND	ug/L	1.0	0.1
2,2-Dichloropropane	ND	ug/L	1.0	0.2
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.2
Chloroform	ND	ug/L	1.0	0.1
Bromochloromethane	ND	ug/L	1.0	0.1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.1
1,1-Dichloropropene	ND	ug/L	1.0	0.1
Carbon tetrachloride	ND	ug/L	0.50	0.2
1,2-Dichloroethane	ND	ug/L	0.50	0.1
Benzene	ND	ug/L	0.50	0.1
Trichloroethene	ND	ug/L	1.0	0.1
1,2-Dichloropropane	ND	ug/L	1.0	0.1
Bromodichloromethane	ND	ug/L	1.0	0.1
Dibromomethane	ND	ug/L	1.0	0.2
Toluene	ND	ug/L	1.0	0.2
1,1,2-Trichloroethane	ND	ug/L	1.0	0.2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.2
1,3-Dichloropropane	ND	ug/L	1.0	0.2
Tetrachloroethene	ND	ug/L	1.0	0.2
Dibromochloromethane	ND	ug/L	1.0	0.2
Chlorobenzene	ND	ug/L	1.0	0.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.1
Ethylbenzene	ND	ug/L	1.0	0.1
Xylenes (total)	ND	ug/L	1.0	0.3
Styrene	ND	ug/L	1.0	0.1
Bromoform	ND	ug/L	1.0	0.1
1-Methylethylbenzene	ND	ug/L	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.4
n-Propylbenzene	ND	ug/L	1.0	0.2
Bromobenzene	ND	ug/L	1.0	0.2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.1
2-Chlorotoluene	ND	ug/L	1.0	0.3
4-Chlorotoluene	ND	ug/L	1.0	0.3
tert-Butylbenzene	ND	ug/L	1.0	0.1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.1
sec-Butylbenzene	ND	ug/L	1.0	0.1

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 122012

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS

QC Lot: 18 OCT 96-AX QC Run: 18 OCT 96-ADX Date Analyzed: 18 OCT 96 (cont.)

Analyte	Result		Units	RL	MDL
Isopropyltoluene	ND		ug/L	1.0	0.1
1,3-Dichlorobenzene	ND		ug/L	1.0	0.1
1,4-Dichlorobenzene	ND		ug/L	1.0	0.1
n-Butylbenzene	ND		ug/L	1.0	0.2
1,2-Dichlorobenzene	ND		ug/L	1.0	0.1
1,2-Dibromo-3-chloro-propane (DBCP)	ND		ug/L	1.0	0.6
1,2,4-Trichlorobenzene	0.12	J	ug/L	1.0	0.2
Hexachlorobutadiene	ND		ug/L	1.0	0.1
Naphthalene	0.51	J	ug/L	1.0	0.3
1,2,3-Trichlorobenzene	ND		ug/L	1.0	0.2
2-Chloroethyl vinyl ether	ND		ug/L	10	0.6
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.2
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.1
Carbon disulfide	ND		ug/L	5.0	0.1
Methyl t-butyl ether	ND		ug/L	5.0	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		ug/L	5.0	1.0

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Wet Chemistry Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
122012-0001-SA	AQUEOUS	QNO3-A		12 OCT 96-AX	12 OCT 96-AA
122012-0001-SA	AQUEOUS	QNO2-A		12 OCT 96-AX	12 OCT 96-AA
122012-0002-SA	AQUEOUS	QNO3-A		12 OCT 96-AX	12 OCT 96-AA
122012-0002-SA	AQUEOUS	QNO2-A		12 OCT 96-AX	12 OCT 96-AA
122012-0004-SA	AQUEOUS	QNO3-A		12 OCT 96-AX	12 OCT 96-AA
122012-0004-SA	AQUEOUS	QNO2-A		12 OCT 96-AX	12 OCT 96-AA
122012-0005-SA	AQUEOUS	QNO3-A		12 OCT 96-AX	12 OCT 96-AA
122012-0005-SA	AQUEOUS	QNO2-A		12 OCT 96-AX	12 OCT 96-AA

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 122012

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 12 OCT 96
QC Run: 12 OCT 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrate as N	4.00	4.16	104	85-115

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 12 OCT 96
QC Run: 12 OCT 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrite as N	4.00	4.17	104	85-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 122012

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
Sample: 122012-0001
MS Run: 12 OCT 96-AA
Units: mg/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Nitrate as N	3.48	22.6	21.9	20.0	95	92	3.5	85-115	20

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS
Sample: 122012-0001
MS Run: 12 OCT 96-AA
Units: mg/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Nitrite as N	ND	18.7	18.2	20.0	93	91	2.5	85-115	20

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Wet Chemistry Analysis and Preparation
Project: 122012

Test: Q-NO3-IC-A Method 300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 12 OCT 96-AX Date Analyzed: 12 OCT 96

Analyte	Result	Units	Reporting Limit
Nitrate as N	ND	mg/L	0.050

Test: Q-NO2-IC-A Method 300.0 - Nitrite as N, Ion Chomatography
Matrix: AQUEOUS
QC Run: 12 OCT 96-AX Date Analyzed: 12 OCT 96

Analyte	Result	Units	Reporting Limit
Nitrite as N	ND	mg/L	0.050

ND = Not Detected

Quanterra Incorporated
1721 South Grand Avenue
Santa Ana, California 92705

714 258-8610 Telephone
714 258-0921 Fax

Quanterra
Environmental Services

November 19, 1996

CAMP, DRESSER & McKEE
18881 VON KARMAN, SUITE 650
IRVINE, CA 92612
ATTN: MS. SUZANNE ROWE

LIMS NO.: 122158-0001/0003
DATE SAMPLED: 17-OCT-1996
DATE SAMPLE REC'D: 17-OCT-1996
PROJECT: BALDWIN PARK

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Preliminary data were provided on 10/30/96 at 4:00 PM and on 11/4/96 at 3:15 PM to Suzanne Rowe.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Patty Mata at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Project Manager

cc: Project File

LIMS REPORT KEY

Quanterra Environmental Services

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

Quanterra
Environmental Services

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Chain-of-Custody Records and Sample Description Information

Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries

CASE NARRATIVE

LIMS # 122158

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 4.7°C.

Sample containers were received intact. The VOA vials did not contain headspace. Proper preservation of applicable samples was verified upon receipt and documented on the Sample Control worksheet. Sample container labels did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Sample was received in time to meet the method holding time specifications.

Metals sample was received unpreserved. It was filtered and preserved with HNO3 to pH less than 2 by Quanterra per CDM request.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

III. METALS (BY METHOD: SW6010A, SW7060A, SW7421, SW7470)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blank data met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

CASE NARRATIVE

LIMS # 122158

IV. GENERAL CHEMISTRY (BY METHOD: E300.0, E160.1, E160.2, E130.2, E310.1)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

SAMPLE RESULTS
Please note that method E310.1 was performed in lieu of SM2320 for alkalinity.

V. OUTSIDE ANALYSIS

Please note that Truesdail Laboratories in Tustin California, performed the Radon in water analysis by EPA Draft Method 913.0. Their report is attached to the end of the Quanterra-Santa Ana report.

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
CDM	Suzanne Rowe	10-17-96	60141

Address	Telephone Number (Area Code)/Fax Number	Lab Number	
West Maine + San Bernardino Rd.	(714) 752-5452	122158	Page 1 of 1

City	State	Zip Code	Site Contact	Lab Contact
Baldwin Park	CA		Barbara Wells	Patty Matta

Project Name	Carrier/Waybill Number
Baldwin Park Operable Unit	

Contract/Purchase Order/Quote No.

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260 VOCs	Drf+9 Radon	TDS/TSS 160.1+160.2	Anions Cl, SO4, NO2+NO3	Alkalinity CO2+CaCO3	Cations Calcium, Mg	Hardness 130.2	Metals* 6010, 7421	*Al, Ar, Ba, Cd, 7470	Cr, Cu, Fe, Pb	Mn, Zn, Ag, Nickel	Special Instructions/ Conditions of Receipt
BP-GW-01900028-101796	10-17-96	1025	X						X			X											3-40ml VOAs HCL
BP-GW-01900028F-101796	↓	1035	X						X			X											↓
BP-GW-01900882-101796	↓	1750	X						X			X	X	X	X	X	X	X	X				MS/MSD 6-40ml VOA
																							4-40ml VOA
																							2-1000ml pol

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other normal

QC Requirements (Specify): CLP TYPE DELIVERABLES

	Date	Time		Date	Time
1. Relinquished By: [signature] CDM	10-17-96	1747	1. Received By: [signature]	10/17/96	1747
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Copy

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Camp, Dresser & McKee

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
122158-0001-SA	BP-GW-01900028-101796	WATER	17 OCT 96	10:25	17 OCT 96
122158-0002-SA	BP-GW-01900028F-101796	WATER	17 OCT 96	10:35	17 OCT 96
122158-0003-SA	BP-GW-01900882-101796	WATER	17 OCT 96	11:50	17 OCT 96
122158-0003-DU	BP-GW-01900882-101796	WATER	17 OCT 96	11:50	17 OCT 96
122158-0003-MS	BP-GW-01900882-101796	WATER	17 OCT 96	11:50	17 OCT 96
122158-0003-SD	BP-GW-01900882-101796	WATER	17 OCT 96	11:50	17 OCT 96

Quanterra
Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900028-101796
LAB ID: 122158-0001-SA
Matrix: WATER Sampled: 17 OCT 96 Received: 17 OCT 96
Authorized: 17 OCT 96 Prepared: 21 OCT 96 Analyzed: 21 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	0.31	JB	1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	0.30	JB	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	ND		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L

B = Compound is also detected in the blank.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds (cont.)
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900028-101796
LAB ID: 122158-0001-SA
Matrix: WATER Sampled: 17 OCT 96 Received: 17 OCT 96
Authorized: 17 OCT 96 Prepared: 21 OCT 96 Analyzed: 21 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	100	%	80 - 120
Toluene-d8	108	%	88 - 110
Bromofluorobenzene	98	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900028F-101796
LAB ID: 122158-0002-SA
Matrix: WATER — Sampled: 17 OCT 96 — Received: 17 OCT 96
Authorized: 17 OCT 96 — Prepared: 21 OCT 96 — Analyzed: 21 OCT 96
Instrument: GC/MS-MD — Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	ND		1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	0.30	JB	1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	0.25	JB	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	ND		1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L
Chloroform	ND		1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	ND		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	0.11	J	1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	ND		1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L

B = Compound is also detected in the blank.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900028F-101796
LAB ID: 122158-0002-SA
Matrix: WATER Sampled: 17 OCT 96 Received: 17 OCT 96
Authorized: 17 OCT 96 Prepared: 21 OCT 96 Analyzed: 21 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	0.23	J	1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	99	%	80 - 120
Toluene-d8	106	%	88 - 110
Bromofluorobenzene	97	%	86 - 115

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900882-101796
LAB ID: 122158-0003-SA
Matrix: WATER
Authorized: 17 OCT 96
Instrument: GC/MS-MD

Sampled: 17 OCT 96
Prepared: 21 OCT 96
Dilution: 1.0

Received: 17 OCT 96
Analyzed: 21 OCT 96

Parameter	Result	Qualifier	RL	MDL	Units
Dichlorodifluoromethane	0.54	J	1.0	0.10	ug/L
Chloromethane	ND		1.0	0.30	ug/L
Vinyl chloride	ND		0.50	0.20	ug/L
Bromomethane	ND		1.0	0.10	ug/L
Chloroethane	ND		1.0	0.30	ug/L
Trichlorofluoromethane	0.32	JB	1.0	0.20	ug/L
1,1-Dichloroethene	ND		1.0	0.10	ug/L
Methylene chloride	0.27	JB	2.0	0.10	ug/L
trans-1,2-Dichloroethene	ND		1.0	0.10	ug/L
1,1-Dichloroethane	0.16	J	1.0	0.10	ug/L
2,2-Dichloropropane	ND		1.0	0.20	ug/L
cis-1,2-Dichloroethene	0.16	J	1.0	0.20	ug/L
Chloroform	0.19	J	1.0	0.10	ug/L
Bromochloromethane	ND		1.0	0.10	ug/L
1,1,1-Trichloroethane	ND		1.0	0.10	ug/L
1,1-Dichloropropene	ND		1.0	0.10	ug/L
Carbon tetrachloride	ND		0.50	0.20	ug/L
1,2-Dichloroethane	ND		0.50	0.10	ug/L
Benzene	ND		0.50	0.10	ug/L
Trichloroethene	2.0		1.0	0.10	ug/L
1,2-Dichloropropane	ND		1.0	0.10	ug/L
Bromodichloromethane	ND		1.0	0.10	ug/L
Dibromomethane	ND		1.0	0.20	ug/L
Toluene	ND		1.0	0.20	ug/L
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L
1,3-Dichloropropane	ND		1.0	0.20	ug/L
Tetrachloroethene	0.44	J	1.0	0.20	ug/L
Dibromochloromethane	ND		1.0	0.20	ug/L
Chlorobenzene	ND		1.0	0.10	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	0.10	ug/L
Ethylbenzene	ND		1.0	0.10	ug/L
Xylenes (total)	ND		1.0	0.30	ug/L
Styrene	ND		1.0	0.10	ug/L
Bromoform	ND		1.0	0.10	ug/L
1-Methylethylbenzene	ND		1.0	0.10	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	0.10	ug/L
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L
n-Propylbenzene	ND		1.0	0.20	ug/L
Bromobenzene	ND		1.0	0.20	ug/L
1,3,5-Trimethylbenzene	ND		1.0	0.10	ug/L
2-Chlorotoluene	ND		1.0	0.30	ug/L
4-Chlorotoluene	ND		1.0	0.30	ug/L

B = Compound is also detected in the blank.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900882-101796
LAB ID: 122158-0003-SA
Matrix: WATER Sampled: 17 OCT 96 Received: 17 OCT 96
Authorized: 17 OCT 96 Prepared: 21 OCT 96 Analyzed: 21 OCT 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
tert-Butylbenzene	ND		1.0	0.10	ug/L
1,2,4-Trimethylbenzene	ND		1.0	0.10	ug/L
sec-Butylbenzene	ND		1.0	0.10	ug/L
Isopropyltoluene	ND		1.0	0.10	ug/L
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L
n-Butylbenzene	ND		1.0	0.20	ug/L
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	0.60	ug/L
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L
Hexachlorobutadiene	ND		1.0	0.10	ug/L
Naphthalene	ND		1.0	0.30	ug/L
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L
2-Chloroethyl vinyl ether	ND		10	0.60	ug/L
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L
Carbon disulfide	ND		5.0	0.10	ug/L
Methyl t-butyl ether	ND		5.0	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	102	%	80 - 120
Toluene-d8	107	%	88 - 110
Bromofluorobenzene	98	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

METALS
(Water - Dissolved)

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900882-101796
LAB ID: 122158-0003-SA
Matrix: WATER — Sampled: 17 OCT 96 — Received: 17 OCT 96
Authorized: 17 OCT 96 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Aluminum	ND		1.0	0.20	mg/L	6010A	25 OCT 96	26 OCT 96
Arsenic	ND		1.0	0.010	mg/L	7060A	30 OCT 96	30 OCT 96
Barium	ND		1.0	0.20	mg/L	6010A	25 OCT 96	26 OCT 96
Cadmium	ND		1.0	0.0050	mg/L	6010A	25 OCT 96	26 OCT 96
Calcium	66.0		1.0	5.0	mg/L	6010A	25 OCT 96	26 OCT 96
Chromium	ND		1.0	0.010	mg/L	6010A	25 OCT 96	26 OCT 96
Copper	ND		1.0	0.025	mg/L	6010A	25 OCT 96	26 OCT 96
Iron	ND		1.0	0.10	mg/L	6010A	25 OCT 96	26 OCT 96
Lead	ND		1.0	0.0030	mg/L	SW7421	30 OCT 96	31 OCT 96
Magnesium	13.3		1.0	5.0	mg/L	6010A	25 OCT 96	26 OCT 96
Manganese	ND		1.0	0.015	mg/L	6010A	25 OCT 96	26 OCT 96
Mercury	ND		1.0	0.00020	mg/L	SW7470	30 OCT 96	30 OCT 96
Nickel	ND		1.0	0.040	mg/L	6010A	25 OCT 96	26 OCT 96
Potassium	ND		1.0	5.0	mg/L	6010A	25 OCT 96	26 OCT 96
Sodium	19.6		1.0	5.0	mg/L	6010A	25 OCT 96	26 OCT 96
Zinc	0.036		1.0	0.020	mg/L	6010A	25 OCT 96	26 OCT 96

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Camp, Dresser & McKee
Client ID: BP-GW-01900882-101796
LAB ID: 122158-0003-SA
Matrix: WATER
Authorized: 17 OCT 96

Sampled: 17 OCT 96
Prepared: See Below

Received: 17 OCT 96
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Hardness as CaCO3	241		1.0	2.0	mg/L	130.2	NA	23 OCT 96
Alkalinity, Total as CaCO3	113		1.0	4.0	mg/L	E310.1	NA	28 OCT 96
Alkalinity, Bicarb. as CaCO3	113		1.0	4.0	mg/L	E310.1	NA	28 OCT 96
Alkalinity, Carb. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	28 OCT 96
Alkalinity, Hydrox. as CaCO3	ND		1.0	4.0	mg/L	E310.1	NA	28 OCT 96
Chloride	61.6		20	2.0	mg/L	E300.0	NA	18 OCT 96
Nitrite as N	ND		1.0	0.050	mg/L	E300.0	NA	18 OCT 96
Nitrate as N	2.4		1.0	0.050	mg/L	E300.0	NA	18 OCT 96
Sulfate	61.1		20	4.0	mg/L	E300.0	NA	18 OCT 96
Total Dissolved Solids	366		1.0	10.0	mg/L	E160.1	NA	23 OCT 96
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	23 OCT 96

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
122158-0001-SA	AQUEOUS	8260-A		21 OCT 96-BDX	21 OCT 96-BD
122158-0002-SA	AQUEOUS	8260-A		21 OCT 96-BDX	21 OCT 96-BD
122158-0003-MS	AQUEOUS	8260-A		21 OCT 96-BDX	21 OCT 96-BD
122158-0003-SA	AQUEOUS	8260-A		21 OCT 96-BDX	21 OCT 96-BD
122158-0003-SD	AQUEOUS	8260-A		21 OCT 96-BDX	21 OCT 96-BD

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 122158

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Date Analyzed: 21 OCT 96
QC Run: 21 OCT 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	11.2	112	64-124
Benzene	10.0	10.0	100	67-127
Trichloroethene	10.0	9.89	99	60-120
Toluene	10.0	9.97	100	72-132
Chlorobenzene	10.0	10.8	108	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.95	100	80-120
Toluene-d8	10.0	10.3	103	88-110
Bromofluorobenzene	10.0	9.72	97	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 122158

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 122158-0003
MS Run: 21 OCT 96-BD
Units: ug/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	ND	11.0	10.8	10.0	110	108	1.8	64-124	25
Benzene	ND	10.1	10.0	10.0	101	100	1.0	67-127	25
Trichloroethene	2.03	11.5	11.6	10.0	95	96	1.1	60-120	25
Toluene	ND	10.3	10.6	10.0	103	106	2.9	72-132	25
Chlorobenzene	ND	10.3	11.0	10.0	103	110	6.6	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	102	105	104	80-120
Toluene-d8	107	105	110	88-110
Bromofluorobenzene	98	101	107	86-115

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 122158

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 21 OCT 96-BDX Date Analyzed: 21 OCT 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.89	99	80-120
Toluene-d8	10.0	11.0	110	88-110
Bromofluorobenzene	10.0	9.92	99	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 122158

Test: 8260-A
Matrix: AQUEOUS
QC Run: 21 OCT 96-BDX

Method 8260 - Volatile Organics

Date Analyzed: 21 OCT 96

Analyte	Result	Units	Reporting Limit
Dichlorodifluoromethane	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Vinyl chloride	ND	ug/L	0.50
Bromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Methylene chloride	ND	ug/L	2.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
2,2-Dichloropropane	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1-Dichloropropene	ND	ug/L	1.0
Carbon tetrachloride	ND	ug/L	0.50
1,2-Dichloroethane	ND	ug/L	0.50
Benzene	ND	ug/L	0.50
Trichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Dibromomethane	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0
1,3-Dichloropropane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Dibromochloromethane	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Xylenes (total)	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
1-Methylethylbenzene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
1,2,3-Trichloropropane	ND	ug/L	1.0
n-Propylbenzene	ND	ug/L	1.0
Bromobenzene	ND	ug/L	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1.0
2-Chlorotoluene	ND	ug/L	1.0
4-Chlorotoluene	ND	ug/L	1.0
tert-Butylbenzene	ND	ug/L	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 122158

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS
QC Run: 21 OCT 96-BDX Date Analyzed: 21 OCT 96

Analyte	Result	Units	Reporting Limit
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
n-Butylbenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1.0
Hexachlorobutadiene	ND	ug/L	1.0
Naphthalene	ND	ug/L	1.0
1,2,3-Trichlorobenzene	ND	ug/L	1.0
2-Chloroethyl vinyl ether	ND	ug/L	10
cis-1,3-Dichloropropene	ND	ug/L	0.50
trans-1,3-Dichloropropene	ND	ug/L	0.50
Carbon disulfide	ND	ug/L	5.0
Methyl t-butyl ether	ND	ug/L	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Metals Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
122158-0003-MS	AQUEOUS	QICP-A		25 OCT 96-AX1	25 OCT 96-AC
122158-0003-MS	AQUEOUS	QPB-GF-A		30 OCT 96-AX	30 OCT 96-AA
122158-0003-MS	AQUEOUS	QAS-GF-A		30 OCT 96-BX	30 OCT 96-BA
122158-0003-MS	AQUEOUS	QHG-A		30 OCT 96-HX	30 OCT 96-HB
122158-0003-SA	AQUEOUS	QICP-A		25 OCT 96-AX1	25 OCT 96-AC
122158-0003-SA	AQUEOUS	QPB-GF-A		30 OCT 96-AX	30 OCT 96-AA
122158-0003-SA	AQUEOUS	QAS-GF-A		30 OCT 96-BX	30 OCT 96-BA
122158-0003-SA	AQUEOUS	QHG-A		30 OCT 96-HX	30 OCT 96-HB
122158-0003-SD	AQUEOUS	QICP-A		25 OCT 96-AX1	25 OCT 96-AC
122158-0003-SD	AQUEOUS	QPB-GF-A		30 OCT 96-AX	30 OCT 96-AA
122158-0003-SD	AQUEOUS	QAS-GF-A		30 OCT 96-BX	30 OCT 96-BA
122158-0003-SD	AQUEOUS	QHG-A		30 OCT 96-HX	30 OCT 96-HB

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Metals Analysis and Preparation
Project: 122158

Category: QICP-A Method 6010A - ICP Metals
Matrix: AQUEOUS Date Analyzed: 26 OCT 96
QC Run: 25 OCT 96-AX1
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Aluminum	2.00	2.05	102	85-115
Barium	2.00	2.02	101	85-115
Cadmium	0.0500	0.0497	99	80-115
Calcium	50.0	50.9	102	85-115
Chromium	0.200	0.210	105	80-115
Copper	0.250	0.252	101	85-115
Iron	1.00	1.06	106	85-120
Magnesium	50.0	51.3	103	85-115
Manganese	0.500	0.513	103	85-115
Nickel	0.500	0.531	106	85-115
Potassium	50.0	50.9	102	85-115
Sodium	50.0	50.5	101	80-120
Zinc	0.500	0.531	106	85-115

Category: QPB-GF-A Lead, Graphite Furnace AA
Matrix: AQUEOUS Date Analyzed: 31 OCT 96
QC Run: 30 OCT 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Lead	0.0400	0.0438	110	80-120

Category: QAS-GF-A Arsenic, Graphite Furnace AA
Matrix: AQUEOUS Date Analyzed: 30 OCT 96
QC Run: 30 OCT 96-BX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Arsenic	0.0400	0.0402	100	80-120

Category: QHG-A Mercury by CVAA
Matrix: AQUEOUS Date Analyzed: 30 OCT 96
QC Run: 30 OCT 96-HX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Mercury	0.00500	0.00509	102	85-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Metals Analysis and Preparation
Project: 122158

Category: QICP-A Method 6010A - ICP Metals
Matrix: AQUEOUS
Sample: 122158-0003
MS Run: 25 OCT 96-AC
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Aluminum	ND	2.29	2.17	2.00	114	108	5.3	85-115	20
Barium	ND	2.13	2.12	2.00	106	106	0.2	85-115	20
Cadmium	ND	0.0471	0.0467	0.0500	94	93	0.8	80-115	20
Calcium	66.0	113	112	50.0	95	93	1.9	85-115	20
Chromium	ND	0.210	0.204	0.200	105	102	2.7	80-115	20
Copper	ND	0.248	0.248	0.250	99	99	0.2	85-115	20
Iron	ND	1.06	1.06	1.00	106	106	0.1	85-120	20
Magnesium	13.3	63.7	63.5	50.0	101	100	0.4	85-115	20
Manganese	ND	0.494	0.492	0.500	99	98	0.4	85-115	20
Nickel	ND	0.498	0.494	0.500	100	99	0.9	85-115	20
Potassium	ND	53.5	53.1	50.0	107	106	0.7	85-115	20
Sodium	19.6	70.5	70.0	50.0	102	101	0.8	80-120	20
Zinc	0.0365	0.534	0.535	0.500	100	100	0.1	85-115	20

Category: QPB-GF-A Lead, Graphite Furnace AA
Matrix: AQUEOUS
Sample: 122158-0003
MS Run: 30 OCT 96-AA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Lead	ND	0.0406	0.0410	0.0400	102	102	0.9	80-120	20

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Metals Analysis and Preparation
Project: 122158 (cont.)

Category: QAS-GF-A Arsenic, Graphite Furnace AA
Matrix: AQUEOUS
Sample: 122158-0003
MS Run: 30 OCT 96-BA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Arsenic	ND	0.0436	0.0425	0.0400	109	106	2.6	80-120	20

Category: QHG-A Mercury by CVAA
Matrix: AQUEOUS
Sample: 122158-0003
MS Run: 30 OCT 96-HB
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Mercury	ND	0.00104	0.00106	0.00100	104	106	1.9	85-115	20

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Metals Analysis and Preparation
Project: 122158

Test: Q-ICP-ADD Method 6010A - ICP Metals, Dissolved
Matrix: AQUEOUS
QC Run: 25 OCT 96-AX1 Date Analyzed: 26 OCT 96

Analyte	Result	Units	Reporting Limit
Aluminum	ND	mg/L	0.20
Barium	ND	mg/L	0.20
Cadmium	ND	mg/L	0.0050
Calcium	ND	mg/L	5.0
Chromium	ND	mg/L	0.010
Copper	ND	mg/L	0.025
Iron	ND	mg/L	0.10
Magnesium	ND	mg/L	5.0
Manganese	ND	mg/L	0.015
Nickel	ND	mg/L	0.040
Potassium	ND	mg/L	5.0
Sodium	ND	mg/L	5.0
Zinc	ND	mg/L	0.020

Test: Q-PB-GFAA-ADD Method 7421 - Lead, Graphite Furnace AA, Dissolved
Matrix: AQUEOUS
QC Run: 30 OCT 96-AX Date Analyzed: 31 OCT 96

Analyte	Result	Units	Reporting Limit
Lead	ND	mg/L	0.0030

Test: Q-AS-GFAA-ADD Method 7060A - Arsenic, Graphite Furnace AA, Dissolved
Matrix: AQUEOUS
QC Run: 30 OCT 96-BX Date Analyzed: 30 OCT 96

Analyte	Result	Units	Reporting Limit
Arsenic	ND	mg/L	0.010

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Metals Analysis and Preparation
Project: 122158

Test: Q-HG-CVAA-AD Method SW7470A - Mercury, Cold Vapor AA, Dissolved
Matrix: AQUEOUS
QC Run: 30 OCT 96-HX Date Analyzed: 30 OCT 96

Analyte	Result	Units	Reporting Limit
Mercury	ND	mg/L	0.00020

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Wet Chemistry Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
122158-0003-DU	AQUEOUS	QTDS-A	23 OCT 96-A	23 OCT 96-A	23 OCT 96-AA
122158-0003-DU	AQUEOUS	QTSS-A	23 OCT 96-A	23 OCT 96-A	23 OCT 96-AA
122158-0003-DU	AQUEOUS	HARD-A	23 OCT 96-A	23 OCT 96-A	23 OCT 96-AA
122158-0003-DU	AQUEOUS	QALK-A	28 OCT 96-A	28 OCT 96-A	28 OCT 96-AA
122158-0003-MS	AQUEOUS	QNO3-A		18 OCT 96-AX	18 OCT 96-AA
122158-0003-MS	AQUEOUS	QNO2-A		18 OCT 96-AX	18 OCT 96-AA
122158-0003-MS	AQUEOUS	QCL-IC-A		18 OCT 96-AX	
122158-0003-MS	AQUEOUS	QCL-IC-A		18 OCT 96-AX	18 OCT 96-AA
122158-0003-MS	AQUEOUS	QSO4-A		18 OCT 96-AX	18 OCT 96-AA
122158-0003-SA	AQUEOUS	QNO3-A		18 OCT 96-AX	18 OCT 96-AA
122158-0003-SA	AQUEOUS	QNO2-A		18 OCT 96-AX	18 OCT 96-AA
122158-0003-SA	AQUEOUS	QTDS-A	23 OCT 96-A	23 OCT 96-A	23 OCT 96-AA
122158-0003-SA	AQUEOUS	QTSS-A	23 OCT 96-A	23 OCT 96-A	23 OCT 96-AA
122158-0003-SA	AQUEOUS	HARD-A	23 OCT 96-A	23 OCT 96-A	23 OCT 96-AA
122158-0003-SA	AQUEOUS	QCL-IC-A		18 OCT 96-AX	
122158-0003-SA	AQUEOUS	QCL-IC-A		18 OCT 96-AX	18 OCT 96-AA
122158-0003-SA	AQUEOUS	QSO4-A		18 OCT 96-AX	18 OCT 96-AA
122158-0003-SA	AQUEOUS	QALK-A	28 OCT 96-A	28 OCT 96-A	28 OCT 96-AA
122158-0003-SD	AQUEOUS	QNO3-A		18 OCT 96-AX	18 OCT 96-AA
122158-0003-SD	AQUEOUS	QNO2-A		18 OCT 96-AX	18 OCT 96-AA
122158-0003-SD	AQUEOUS	QCL-IC-A		18 OCT 96-AX	
122158-0003-SD	AQUEOUS	QCL-IC-A		18 OCT 96-AX	18 OCT 96-AA
122158-0003-SD	AQUEOUS	QSO4-A		18 OCT 96-AX	18 OCT 96-AA

Quanterra
Environmental Services

DUPLICATE CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 122158

Category: QTDS-A Method E160.1 - Total Dissolved Solids (TDS)
Matrix: AQUEOUS
QC Lot: 23 OCT 96-A Date Analyzed: 23 OCT 96
Concentration Units: mg/L

Analyte	Concentration Spiked	Measured DCS1	Qual	DCS2	Qual	AVG	Accuracy Average (%) DCS	Limits	Precision (RPD) DCS	Limit
Total Dissolved Solids	1400	1400		1400		1400	100	85-115	0.57	20

Category: QTSS-A Method E160.2 - Total Suspended Solids (TSS)
Matrix: AQUEOUS
QC Lot: 23 OCT 96-A Date Analyzed: 23 OCT 96
Concentration Units: mg/L

Analyte	Concentration Spiked	Measured DCS1	Qual	DCS2	Qual	AVG	Accuracy Average (%) DCS	Limits	Precision (RPD) DCS	Limit
Total Suspended Solids	100	106		114		110	110	75-125	7.3	20

Category: HARD-A Hardness, Titration (Total)
Matrix: AQUEOUS
QC Lot: 23 OCT 96-A Date Analyzed: 23 OCT 96
Concentration Units: mg/L

Analyte	Concentration Spiked	Measured DCS1	Qual	DCS2	Qual	AVG	Accuracy Average (%) DCS	Limits	Precision (RPD) DCS	Limit
Hardness as CaCO3	215	228		232		230	107	80-120	1.7	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

DUPLICATE CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 122158

Category: QALK-A Method E310.1 - Alkalinity, Total as CaCO3
Matrix: AQUEOUS
QC Lot: 28 OCT 96-A Date Analyzed: 28 OCT 96
Concentration Units: mg/L

Analyte	Concentration Spiked	Measured DCS1	Qual	DCS2	Qual	AVG	Accuracy Average (%) DCS	Limits	Precision (RPD) DCS	Limit
Alkalinity, Total as CaCO3	1600	1590		1580		1590	99	80-120	0.25	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Wet Chemistry Analysis and Preparation
Project: 122158

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 18 OCT 96
QC Run: 18 OCT 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrate as N	4.00	4.04	101	85-115

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 18 OCT 96
QC Run: 18 OCT 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Nitrite as N	4.00	4.03	101	85-115

Category: QCL-IC-A Method E300.0 - Chloride, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 18 OCT 96
QC Run: 18 OCT 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Chloride	5.00	4.54	91	85-115

Category: QSO4-A Method E300.0 - Sulfate, Ion Chromatography
Matrix: AQUEOUS Date Analyzed: 18 OCT 96
QC Run: 18 OCT 96-AX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Sulfate	8.00	7.57	95	85-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 122158

Category: QNO3-A Method E300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
Sample: 122158-0003
MS Run: 18 OCT 96-AA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Nitrate as N	2.39	40.6	40.8	40.0	95	96	0.6	85-115	20

Category: QNO2-A Method E300.0 - Nitrite as N, Ion Chromatography
Matrix: AQUEOUS
Sample: 122158-0003
MS Run: 18 OCT 96-AA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Nitrite as N	ND	36.7	36.8	40.0	92	92	0.1	85-115	20

Category: QCL-IC-A Method E300.0 - Chloride, Ion Chromatography
Matrix: AQUEOUS
Sample: 122158-0003
MS Run: 18 OCT 96-AA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Chloride	61.6	111	110	50.0	99	97	2.0	85-115	20

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 122158 (cont.)

Category: QSO4-A Method E300.0 - Sulfate, Ion Chromatography
Matrix: AQUEOUS
Sample: 122158-0003
MS Run: 18 OCT 96-AA
Units: mg/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	MSD	%RPD	Acceptance Limit Recov.	RPD
Sulfate	61.1	138	138	80.0	96	97	0.3	85-115	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 122158

Category: QTDS-A Method E160.1 - Total Dissolved Solids (TDS)
Matrix: AQUEOUS
Sample: 122158-0003
MS Run: 23 OCT 96-AA
Units: mg/L

Analyte	Concentration Sample	Concentration Duplicate	%RPD SA-DU	Acceptance Limit
Total Dissolved Solids	366	370	1.1	20

Category: QTSS-A Method E160.2 - Total Suspended Solids (TSS)
Matrix: AQUEOUS
Sample: 122158-0003
MS Run: 23 OCT 96-AA
Units: mg/L

Analyte	Concentration Sample	Concentration Duplicate	%RPD SA-DU	Acceptance Limit
Total Suspended Solids	ND	ND	NC	20

Category: HARD-A Hardness, Titration (Total)
Matrix: AQUEOUS
Sample: 122158-0003
MS Run: 23 OCT 96-AA
Units: mg/L

Analyte	Concentration Sample	Concentration Duplicate	%RPD SA-DU	Acceptance Limit
Hardness as CaCO3	241	239	0.83	20

NC = Not Calculated, calculation not applicable.
ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX DUPLICATE QC REPORT
Wet Chemistry Analysis and Preparation
Project: 122158 (cont.)

Category: QALK-A Method E310.1 - Alkalinity, Total as CaCO3
Matrix: AQUEOUS
Sample: 122158-0003
MS Run: 28 OCT 96-AA
Units: mg/L

Analyte	Concentration Sample	Concentration Duplicate	%RPD SA-DU	Acceptance Limit
Alkalinity, Total as CaCO3	113	113	0.0	20
Alkalinity, Bicarb. as CaCO3	113	113	0.0	20
Alkalinity, Carb. as CaCO3	ND	ND	NC	20
Alkalinity, Hydrox. as CaCO3	ND	ND	NC	20

NC = Not Calculated, calculation not applicable.
ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Wet Chemistry Analysis and Preparation
Project: 122158

Test: Q-NO3-IC-A Method 300.0 - Nitrate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 18 OCT 96-AX Date Analyzed: 18 OCT 96

Analyte	Result	Units	Reporting Limit
Nitrate as N	ND	mg/L	0.050

Test: Q-NO2-IC-A Method 300.0 - Nitrite as N, Ion Chomatography
Matrix: AQUEOUS
QC Run: 18 OCT 96-AX Date Analyzed: 18 OCT 96

Analyte	Result	Units	Reporting Limit
Nitrite as N	ND	mg/L	0.050

Test: Q-TDS-A Method E160.1 - Total Dissolved Solids (TDS)
Matrix: AQUEOUS
QC Run: 23 OCT 96-A Date Analyzed: 23 OCT 96

Analyte	Result	Units	Reporting Limit
Total Dissolved Solids	ND	mg/L	10.0

Test: Q-TSS-A Method E160.2 - Total Suspended Solids (TSS)
Matrix: AQUEOUS
QC Run: 23 OCT 96-A Date Analyzed: 23 OCT 96

Analyte	Result	Units	Reporting Limit
Total Suspended Solids	ND	mg/L	10.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Wet Chemistry Analysis and Preparation
Project: 122158

Test: HARD-TITR-AT Method 130.2 - Hardness, Titration (Total)
Matrix: AQUEOUS
QC Run: 23 OCT 96-A Date Analyzed: 23 OCT 96

Analyte	Result	Units	Reporting Limit
Hardness as CaCO3	ND	mg/L	2.0

Test: Q-CL-IC-A Method E300.0 - Chloride, Ion Chromatography
Matrix: AQUEOUS
QC Run: 18 OCT 96-AX Date Analyzed: 18 OCT 96

Analyte	Result	Units	Reporting Limit
Chloride	ND	mg/L	0.10

Test: Q-SO4-IC-A Method E300.0 - Sulfate, Ion Chromatography
Matrix: AQUEOUS
QC Run: 18 OCT 96-AX Date Analyzed: 18 OCT 96

Analyte	Result	Units	Reporting Limit
Sulfate	ND	mg/L	0.20

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Wet Chemistry Analysis and Preparation
Project: 122158

Test: Q-ALK-AT Method E310.1 - Alkalinity, Total as CaCO3
Matrix: AQUEOUS
QC Run: 28 OCT 96-A Date Analyzed: 28 OCT 96

Analyte	Result	Units	Reporting Limit
Alkalinity,Total as CaCO3	ND	mg/L	4.0
Alkalinity,Bicarb. as CaCO3	ND	mg/L	4.0
Alkalinity,Carb. as CaCO3	ND	mg/L	4.0
Alkalinity,Hydrox. as CaCO3	ND	mg/L	4.0

ND = Not Detected

REPORT

TRUESDAIL LABORATORIES, INC.

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RESEARCH · DEVELOPMENT · TESTING
ESTABLISHED 1931

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CLIENT: QUANTERRA ENVIRONMENTAL SERVICES
1721 S. GRAND
SANTA ANA,CA 92705
Attention: PATTY MATA

DATE: 11/01/96

RECEIVED: 10/18/96

LABORATORY NO. 94340

INVESTIGATION: QUALITIY CONTROL DOCUMENTATION

RESULTS

LCS* Acceptable Recovery Range: 90-110%
Duplicate Acceptable Difference Range: 2 sigma

Parameter	LCS Result	LCS True Value	LCS % Recovery
Radon-High	5803	5912	98.2
Radon-Low	561	591.2	94.9

Parameter	Sample Result	Duplicate Result	Two Sigma Error
Radon	278	272	+/- 16

*LCS-Laboratory Control Sample

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Angela Burke

Angela Burke, Project Manager
Water and Waste Laboratory

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