Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell Oakland / 980107-K1
Matrix: Liquid
Work Order #: 9801297 -01

Reported: Jan 30, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC011598BTEX01A	GC011598BTEX01A	GC011598BTEX01A	GC011598BTEX01A	GC011598BTEX01A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	C. Demartini	C. Demartini	C. Demartini	C. Demartini	C. Demartini
MS/MSD #:	980131601	980131601	980131601	980131601	980131601
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/15/98	1/15/98	1/15/98	1/15/98	1/15/98
Analyzed Date:	1/15/98	1/15/98	1/15/98	1/15/98	1/15/98
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	10	10	10	31	64
MS % Recovery:	100	100	100	103	107
Dup. Result:	9.0	9.0	10	30	60
MSD % Recov.:	90	90	100	100	100
RPD:	11	11	0.0	3.3	6.5
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK011598	BLK011598	BLK011598	BLK011598	BLK011598
Prepared Date:	1/15/98	1/15/98	1/15/98	1/15/98	1/15/98
Analyzed Date:	1/15/98	1/15/98	1/15/98	1/15/98	1/15/98
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	10	10	10	31	63
LCS % Recov.:	100	100	100	103	105
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Reggy Penner
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

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Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell Oakland / 980107-K1
Matrix: Liquid
Work Order #: 9801297-02
Reported: Jan 30, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC011998BTEX06A	GC011998BTEX06A	GC011998BTEX06A	GC011998BTEX06A	GC011998BTEX06A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	R. Geckler	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	980129904	980129904	980129904	980129904	980129904
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/19/98	1/19/98	1/19/98	1/19/98	1/19/98
Analyzed Date:	1/19/98	1/19/98	1/19/98	1/19/98	1/19/98
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.5	9.8	10	30	55
MS % Recovery:	95	98	100	100	92
Dup. Result:	8.6	8.8	9.2	27	50
MSD % Recov.:	86	88	92	90	83
RPD:	9.9	11	8.3	11	9.5
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK011998	BLK011998	BLK011998	BLK011998	BLK011998
Prepared Date:	1/19/98	1/19/98	1/19/98	1/19/98	1/19/98
Analyzed Date:	1/19/98	1/19/98	1/19/98	1/19/98	1/19/98
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.3	8.6	8.8	26	48
LCS % Recov.:	83	86	88	87	80
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell Oakland / 980107-K1
Matrix: Liquid
Work Order #: 9801297-03

Reported: Jan 30, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC012098BTEX06A	GC012098BTEX06A	GC012098BTEX06A	GC012098BTEX06A	GC012098BTEX06A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	R. Geckler	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	980129804	980129804	980129804	980129804	980129804
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/20/98	1/20/98	1/20/98	1/20/98	1/20/98
Analyzed Date:	1/20/98	1/20/98	1/20/98	1/20/98	1/20/98
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	10	9.9	10	30	56
MS % Recovery:	100	99	100	100	93
Dup. Result:	10	10	10	31	59
MSD % Recov.:	100	100	100	103	98
RPD:	0.0	1.0	0.0	3.3	5.2
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK012098	BLK012098	BLK012098	BLK012098	BLK012098
Prepared Date:	1/20/98	1/20/98	1/20/98	1/20/98	1/20/98
Analyzed Date:	1/20/98	1/20/98	1/20/98	1/20/98	1/20/98
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	10	10	11	31	57
LCS % Recov.:	100	100	110	103	95
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

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Peggy Penner
Project Manager

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Proj. ID: Shell Oakland/980107-K1
Lab Proj. ID: 9801297

Received: 01/08/98
Reported: 01/29/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 8 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

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Peggy Penner
Project Manager