APPENDIX A

SOIL VAPOR DATA VALIDATION REPORT
EIGHTEENTH PERIODIC SAMPLING EVENT

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

Geofon, Inc.
22632 Golden Springs Drive, Suite 270
Diamond Bar, CA 91765
ATTN: Mr. Scott Brehmer

September 8, 2004

SUBJECT: NASA JPL, DO #12, Data Validation

Dear Mr. Brehmer,

Enclosed is the final validation report for the fraction listed below. This SDG was received on September 2, 2004. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 12426:

SDG #	**Fraction**
GF071404-L6	Volatiles

The data validation was performed under EPA Level III guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998

Please feel free to contact us if you have any questions.

Sincerely,

Erlinda T. Rauto
Operations Manager/Senior Chemist

V:\LOGIN\Geofon\JPL\12426COV.wpd

Attachment 1

LDC #12426 (Geofon, Inc.-Diamond Bar / NASA Jet Propulsion Laboratory, DO#012)

LDC	SDG#	DATE REC'D	DATE DUE	VOA (8260B)																																	
Matrix:	Air/Soil			A	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	GF071404-L6	09/02/04	09/23/04	11	0																																
Total	B			11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11

Shaded cells indicate Level IV validation (all other cells are Level III validation).

12426ST.wpd

NASA JPL
Data Validation Reports
LDC# 12426

Volatiles

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: NASA JPL

Collection Date: July 14, 2004

LDC Report Date: September 7, 2004

Matrix: Air

Parameters: Volatiles

Validation Level: EPA Level III

Laboratory: H & P Mobile Geo Chemistry

Sample Delivery Group (SDG): GF071404-L6

Sample Identification

SVW39-VPI-001
SVW37-VPJ-002
SVW4-VPB-003
SVW4-VPD-004
SVW17-VPC-005
SVW33-VPD-006
SVW33-VPE-007
SVW33-VPF-008
SVW36-VPB-009
SVW36-VPB-010Dup
SVW36-VPC-011

Introduction

This data review covers 11 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260 for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 30.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were not required by the method.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

Internal standards data were not provided and therefore not reviewed.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

Samples SVW36-VPB-009 and SVW36-VPB-010Dup were identified as field duplicates. No volatiles were detected in any of the samples.

XVII. Field Blanks

No field blanks were identified in this SDG.

NASA JPL
Volatiles - Data Qualification Summary - SDG GF071404-L6

No Sample Data Qualified in this SDG

NASA JPL
Volatiles - Laboratory Blank Data Qualification Summary - SDG GF071404-L6

No Sample Data Qualified in this SDG

GEOFON PROJECT # 4-12812
JET PROPULSION LABORATORY
4800 OAK GROVE DRIVE
PASADENA, CA

HP Labs Project #GF071404-L6
PRELIMINARY DATA
INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER
VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8260) ANALYSES OF SOIL VAPOR
SOIL VAPOR DATA IN UG/L-VAPOR

	AMBIENT BLANK	SVW39-VPI-001	SVW37-VPJ-002	SVW4-VPB-003	SVW4-VPD-004	SVW17-VPC-005	SVW33-VPD-006	SVW33-VPE-007	SVW33-VPF-008	SVW36-VPB-009	SVW36-VPB-010 Dup	SVW36-VPC-011
DATE	07/14/04	07/14/04	07/14/04	07/14/04	07/14/04	07/14/04	07/14/04	07/14/04	07/14/04	07/14/04	07/14/04	07/14/04
ANALYSIS TIME	6:23	7:40	8:03	8:25	8:55	9:18	9:41	10:03	10:26	10:49	11:11	12:38
SAMPLING DEPTH (feet)	--	130	185	20	56	36	85	105	120	35	35	55
VOLUME WITHDRAWN (cc)	--	580	800	140	284	204	400	480	540	200	260	230
VOLUME INJECTED	20	20	20	20	20	20	20	20	20	20	20	20
DILUTION FACTOR	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	33	6.9	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	1.2	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES (75-125% RECOVERY)												
DIBROMODIFLUOROMETHANE	121%	118%	119%	123%	122%	121%	118%	119%	114%	114%	109%	125%
1,2-DICHLOROETHANE-d4	114%	116%	117%	120%	121%	117%	116%	124%	111%	113%	108%	123%
4 BROMOFLUORO BENZENE	109%	111%	113%	113%	118%	119%	111%	111%	108%	109%	105%	110%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND
ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

9/8/04

LDC #: 12426A1

VALIDATION COMPLETENESS WORKSHEET

Level III

SDG #: GF071404-L6

Laboratory: H & P Mobile Geo Chemistry

Date: 9/3/04

Page: 1 of 1

Reviewer: 9

2nd Reviewer:

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/14/04
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	
IV.	Continuing calibration	A	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	Not provided. not reviewed.
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	ND	D=9+10
XVII.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

All air smpls.

1	SVW39-VPI-001	11	SVW36-VPC-011	21		31	
2	SVW37-VPJ-002	12	MB	22		32	
3	SVW4-VPB-003	13		23		33	
4	SVW4-VPD-004	14		24		34	
5	SVW17-VPC-005	15		25		35	
6	SVW33-VPD-006	16		26		36	
7	SVW33-VPE-007	17		27		37	
8	SVW33-VPF-008	18		28		38	
9	SVW36-VPB-009	19		29		39	
10	SVW36-VPB-010Dup	20		30		40	

APPENDIX B

B-1 RESULTS OF SOIL VAPOR ANALYSES

B-2 CHAIN-OF-CUSTODY FORMS

B-3 DAILY OPENING, CLOSING, AND CONTINUING CALIBRATION VERIFICATION REPORTS

APPENDIX B-1

RESULTS OF SOIL VAPOR ANALYSES

MOBILE GEOCHEMISTRY

H&P

JUL 2 6 2004

July 20, 2004

Mr. Jay Robinson
Geofon
22632 Golden Springs Drive
Suite 270
Diamond Bar, CA 91765

SUBJECT: DATA REPORT – JET PROPULSION LAB – 4800 OAK GROVE DRIVE – PASADENA, CA - GEOFON PROJECT #4-12812 JPL#2

HP Labs Project # GF071404-L6

Mr. Robinson:

Please find enclosed a data report for the above referenced location. Soil vapor samples were analyzed on-site in DOHS certified mobile laboratory (CERT #2579).

Project Summary

Soil vapor from 10 points was analyzed for:

- volatile halogenated hydrocarbons by EPA Method 8260B
- volatile aromatic hydrocarbons (BTEX) by EPA Method 8260B

The samples were received on-site in appropriate containers with appropriate labels, seals, and chain-of-custody documentation.

Project Narrative

The results for all analyses and required QA/QC analyses are summarized in the enclosed tables. All calibrations, blanks, surrogates, and spike recoveries fulfill quality control criteria. No data qualifiers (flags) apply to any of the reported data.

HP Labs appreciates the opportunity to provide analytical services to Geofon on this project. If you have any questions relating to this data or report, please do not hesitate to contact us.

Sincerely,

Tamara Davis

Ms. Tamara Davis
Lab Director

432 North Cedros Avenue, Solana Beach, California 92075 | 858 793.0401 — Fax 858 793.0404
148 South Vinewood Street, Escondido, California 92029 | 760 735.3208 — Fax 760 735.2469
2373 208th Street, Suite F-1, Torrance, California 90501 | 310 782.2929 — Fax 310 782.2798
www.HandPmg.com | 1-800-834-9888

GEOFON PROJECT # 4-12812
JET PROPULSION LABORATORY
4800 OAK GROVE DRIVE
PASADENA, CA

HP Labs Project #GF071404-L6
PRELIMINARY DATA
INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER
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DATE	07/14/04	07/14/04	07/14/04	07/14/04	07/14/04	07/14/04	07/14/04	07/14/04	07/14/04	07/14/04	07/14/04	07/14/04
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SAMPLING DEPTH (feet)	–	130	185	20	56	36	85	105	120	35	35	55
VOLUME WITHDRAWN (cc)	–	580	800	140	284	204	400	480	540	200	260	280
VOLUME INJECTED	20	20	20	20	20	20	20	20	20	20	20	20
DILUTION FACTOR	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
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1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	33	6.9	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	1.2	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES (75-125% RECOVERY)												
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ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND
ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

APPENDIX B-2

CHAIN-OF-CUSTODY FORMS

1 OF

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON'S LAB COORDINATOR: J. JONES	LAB COORDINATOR'S PHONE: 909-396-7662	LAB COORDINATOR'S FAX: 909-396-1455	LABORATORY SERVICE ID: GF071404-6	LABORATORY CONTACT: MARK BURKE	MAIL REPORT (COMPANY NAME): GEOFON INC
PROJECT NAME: JPL #2	PROJECT LOCATION: QUARTERLY SRW SAMPLING	PROJECT NUMBER: 4-12812	LABORATORY PHONE: 858-793-0401	LABORATORY FAX: 858-793-0464	RECIPIENT NAME: J. JONES
PROJECT CONTACT: J. JONES	PROJECT PHONE NUMBER: 714-920-8438	PROJECT FAX: N/A	LABORATORY ADDRESS: 437 N. CEDROS AVE		ADDRESS: 22632 GOLDEN SPRINGS DR #270
PROJECT ADDRESS: 4800 OAK GROVE DR	CITY, STATE AND ZIPCODE: PASADENA CA 91108	CLIENT: US NAVY SWDIV	CITY, STATE AND ZIPCODE: SOLANA BEACH CA 92075		CITY, STATE AND ZIPCODE: DIAMOND BAR CA 91765
PROJECT MANAGER: ASLAN FARBOM	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses 8010/8020								Comments
1	SRW39-VPI-001	AIR	7/14/04	0714	NONE	1*	3	NORM	X								1* 60cc SYRINGE
2	SRW37-VPJ-002			0736					X								
3	SRW4-VPB-003			0758					X								
4	SRW4-VPD-004			0820					X								
5	SRW17-VPC-005			0844					X								
6	SRW33-VPD-006			0912					X								
7	SRW33-VPE-007			0934					X								
8	SRW33-VPF-008			0956					X								
9	SRW36-VPB-009			1018					X								
10	SRW36-VPB-010 DUPLICATE			1040					X								DUPLICATE

SAMPLES COLLECTED BY: [signature]

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	[signature]	7-14-04	1300	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

2 OF 2

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON'S LAB COORDINATOR: J. JONES	LAB COORDINATOR'S PHONE: 909-396-7662	LAB COORDINATOR'S FAX: 909-396-1455	LABORATORY SERVICE ID: GF071404-L6	LABORATORY CONTACT: MARK BURKE	MAIL REPORT (COMPANY NAME): GEOFON INC
PROJECT NAME: JPL #2	PROJECT LOCATION: QUARTERLY SVW SAMPLING	PROJECT NUMBER: 4-12812	LABORATORY PHONE: 858-793-0401	LABORATORY FAX: 858-793-0404	RECIPIENT NAME: J. JONES
PROJECT CONTACT: J. JONES	PROJECT PHONE NUMBER: 714-920-8438	PROJECT FAX: N/A	LABORATORY ADDRESS: 437 N. CEDROS AVE		ADDRESS: 22632 GOLDEN SPRINGS DR #270
PROJECT ADDRESS: 4800 OAK GROVE DR	CITY, STATE AND ZIPCODE: PASADENA CA 91108	CLIENT: US NAVY SWDIV	CITY, STATE AND ZIPCODE: SOLANA BEACH CA 92075		CITY, STATE AND ZIPCODE: DIAMOND BAR CA 91765
PROJECT MANAGER: ASRAR FAHEEM	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T	Analyses: 8010	Analyses: 8020							Comments
1	SVW36-VPC-011	AIR	7/14/04	1225	NONE	1*	3	10 Day	X								1* 60cc SYRINGE
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY	COURIER AND AIR BILL NUMBER.				COOLER TEMPERATURE UPON RECEIPT
RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT	
[signature]	[signature]	7-14-04	1300		

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

APPENDIX B-3

DAILY OPENING, CLOSING, AND CONTINUING CALIBRATION VERIFICATION REPORTS

QA/QC CALIBRATION DATA

DATE: 07/14/04
HP Labs Project #GF071404-L6
LAB-6

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) SUPELCO LOT #LSS-856
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) SUPELCO LOT #LSS-857
INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

COMPOUND	OPENING STANDARD			2ND SOURCE (1ug/L) CLOSING		
	MASS	RESULT	%DIFF	MASS	RESULT	%DIFF
CARBON TETRACHLORIDE	50	53.1	6.2%	50	44.0	12.0%
CHLOROETHANE	50	51.2	2.4%	50	52.6	5.2%
CHLOROFORM	50	50.3	0.6%	50	48.1	3.8%
1,1-DICHLORO ETHANE	50	50.2	0.4%	50	49.0	2.0%
1,2-DICHLORO ETHANE	50	50.5	1.0%	50	50.0	0.0%
1,1-DICHLORO ETHENE	50	49.5	1.0%	50	52.0	4.0%
CIS-1,2-DICHLORO ETHENE	50	50.0	0.0%	50	46.5	7.0%
TRANS-1,2-DICHLORO ETHENE	50	50.7	1.4%	50	50.8	1.6%
DICHLOROMETHANE	50	49.2	1.6%	50	53.4	6.8%
TETRACHLORO ETHENE	50	51.6	3.2%	50	48.5	3.0%
1,1,1,2-TETRACHLORO ETHANE	50	49.5	1.0%	50	41.9	16.2%
1,1,2,2-TETRACHLORO ETHANE	50	52.9	5.8%	50	52.4	4.8%
1,1,1-TRICHLORO ETHANE	50	53.0	6.0%	50	45.9	8.2%
1,1,2-TRICHLORO ETHANE	50	49.0	2.0%	50	48.7	2.6%
TRICHLORO ETHENE	50	49.3	1.4%	50	46.9	6.2%
VINYL CHLORIDE	50	49.7	0.6%	50	51.9	3.8%
TRICHLOROFLUOROMETHANE (FR11)	50	50.1	0.2%	50	51.6	3.2%
DICHLORODIFLUOROMETHANE (FR12)	50	51.4	2.8%	50	47.6	4.8%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	48.8	2.4%	50	49.3	1.4%
BENZENE	50	48.3	3.4%	50	46.8	6.4%
CHLOROBENZENE	50	49.8	0.4%	50	47.8	4.4%
ETHYLBENZENE	50	49.4	1.2%	50	46.8	6.4%
TOLUENE	50	49.7	0.6%	50	48.2	3.6%
m&p-XYLENES	100	97.3	2.7%	100	92.9	7.1%
o-XYLENE	50	48.2	3.6%	50	45.4	9.2%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY #2579
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC - CALIBRATION DATA

DATE: 07/14/04
HP Labs Project #GF071404-L6
Lab 6

CALIBRATION VERIFICATION
SUPPLY SOURCE: SUPELCO LOT #LSS-886
INSTRUMENT: AGILENT 6850 GC / 5973 MASS SPECTROMETER

COMPOUND	MASS	CONTINUING STANDARD RESULT	%DIFF
CARBON TETRACHLORIDE	50	44.9	10.2%
CHLOROETHANE	50	51.9	3.8%
CHLOROFORM	50	49.7	0.6%
1,1-DICHLORO ETHANE	50	49.6	0.8%
1,2-DICHLORO ETHANE	50	52.4	4.8%
1,1-DICHLORO ETHENE	50	53.4	6.8%
CIS-1,2-DICHLORO ETHENE	50	49.2	1.6%
TRANS-1,2-DICHLORO ETHENE	50	53.9	7.8%
DICHLOROMETHANE	50	53.6	7.2%
TETRACHLORO ETHENE	50	49.9	0.2%
1,1,1,2-TETRACHLORO ETHANE	50	46.4	7.2%
1,1,2,2-TETRACHLORO ETHANE	50	54.2	8.4%
1,1,1-TRICHLORO ETHANE	50	47.2	5.6%
1,1,2-TRICHLORO ETHANE	50	51.9	3.8%
TRICHLORO ETHENE	50	47.6	4.8%
VINYL CHLORIDE	50	52.7	5.4%
TRICHLOROFLUOROMETHANE (FR11)	50	53.6	7.2%
DICHLORODIFLUOROMETHANE (FR12)	50	48.2	3.6%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	50	50.3	0.6%
BENZENE	50	48.6	2.8%
CHLOROBENZENE	50	49.9	0.2%
ETHYLBENZENE	50	49.4	1.2%
TOLUENE	50	49.3	1.4%
m&p-XYLENES	100	98.7	1.3%
o-XYLENE	50	49.1	1.8%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS