

GEOFON PROJECT #04-4304-480 JPL 1
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF111401T2

GC SHIMADZU 14A

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR

AREA COUNTS

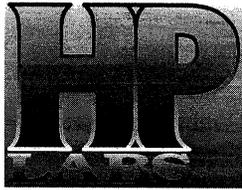
SAMPLE NAME	BLANK	BLANK	SVW30-VPA-01	SVW30-VPA-01	SVW30-VPB-02	SVW30-VPB-02	SVW30-VPC-03	SVW30-VPC-03	SVW30-VPD-04	SVW30-VPD-04
DATE	11/14/01	11/14/01	11/14/01	11/14/01	11/14/01	11/14/01	11/14/01	11/14/01	11/14/01	11/14/01
ANALYSIS TIME	6:17	6:17	6:49	6:49	7:12	7:12	7:34	7:34	7:56	7:56
SAMPLING DEPTH (feet)	--	--	17	17	30	30	40	40	50	50
VOLUME WITHDRAWN (cc)	--	--	128	128	180	180	220	220	260	260
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	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
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	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
1,1,2,2-TETRACHLORO ETHANE	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
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	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
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES										
1,4 DIFLUORO BENZENE	8.5	14.1	8.5	17.4	8.5	16.5	8.5	17.2	8.5	17.9
4 BROMOFLUORO BENZENE	17.7	44.4	17.8	54.6	17.8	51.6	17.8	53.8	17.8	55.8

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 (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: TAMARA DAVIS



GEOFON PROJECT #04-4304-480 JPL 1
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
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 AREA COUNTS

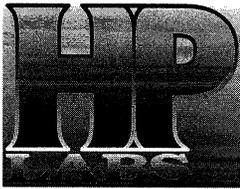
SAMPLE NAME	SVW30-VPE-	SVW30-VPE-	SVW30-VPE-	SVW30-VPE-	SVW31-VPA-	SVW31-VPA-	SVW31-VPB-	SVW31-VPB-	SVW31-VPD-	SVW31-VPD-
	05	05	06 DUP	06 DUP	07	07	08	08	09	09
DATE	11/14/01	11/14/01	11/14/01	11/14/01	11/14/01	11/14/01	11/14/01	11/14/01	11/14/01	11/14/01
ANALYSIS TIME	8:38	8:38	9:01	9:01	9:25	9:25	9:47	9:47	10:10	10:10
SAMPLING DEPTH (feet)	65	65	65	65	20	20	35	35	55	55
VOLUME WITHDRAWN (cc)	320	320	440	440	140	140	220	220	280	280
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA								
CARBON TETRACHLORIDE	nd									
CHLOROETHANE	nd									
CHLOROFORM	nd									
1,1-DICHLORO ETHANE	nd									
1,2-DICHLORO ETHANE	nd									
1,1-DICHLORO ETHENE	nd									
CIS-1,2-DICHLORO ETHENE	nd									
TRANS-1,2-DICHLORO ETHENE	nd									
DICHLOROMETHANE	nd									
TETRACHLORO ETHENE	nd									
1,1,1,2-TETRACHLORO ETHANE	nd									
1,1,2,2-TETRACHLORO ETHANE	nd									
1,1,1-TRICHLORO ETHANE	nd									
1,1,2-TRICHLORO ETHANE	nd									
TRICHLORO ETHENE	nd									
VINYL CHLORIDE	nd									
TRICHLOROFLUOROMETHANE (FR11)	nd									
DICHLORODIFLUOROMETHANE (FR12)	nd									
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd									
BENZENE	nd									
CHLOROBENZENE	nd									
ETHYLBENZENE	nd									
TOLUENE	nd									
m&p-XYLENES	nd									
o-XYLENE	nd									
SURROGATES										
1,4 DIFLUORO BENZENE	8.1	16.2	8.5	18.1	8.6	17.7	8.6	16.0	8.6	17.5
4 BROMOFLUORO BENZENE	17.4	50.8	17.8	56.1	17.8	56.9	17.8	50.8	17.9	55.5

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 (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

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 AREA COUNTS

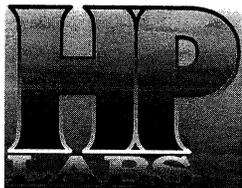
SAMPLE NAME	SVW31-VPE-10	SVW31-VPE-10	SVW12-VPC-11	SVW12-VPC-11	SVW12-VPC-12	SVW12-VPC-12	SVW12-VPD-13	SVW12-VPD-13
					DUP	DUP		
DATE	11/14/01	11/14/01	11/14/01	11/14/01	11/14/01	11/14/01	11/14/01	11/14/01
ANALYSIS TIME	10:33	10:33	11:33	11:33	11:57	11:57	12:20	12:20
SAMPLING DEPTH (feet)	65	65	60	60	60	60	76	76
VOLUME WITHDRAWN (cc)	320	320	300	300	360	360	364	364
VOLUME INJECTED	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd							
CHLOROETHANE	nd							
CHLOROFORM	nd							
1,1-DICHLORO ETHANE	nd							
1,2-DICHLORO ETHANE	nd							
1,1-DICHLORO ETHENE	nd							
CIS-1,2-DICHLORO ETHENE	nd							
TRANS-1,2-DICHLORO ETHENE	nd							
DICHLOROMETHANE	nd							
TETRACHLORO ETHENE	nd							
1,1,1,2-TETRACHLORO ETHANE	nd							
1,1,2,2-TETRACHLORO ETHANE	nd							
1,1,1-TRICHLORO ETHANE	nd							
1,1,2-TRICHLORO ETHANE	nd							
TRICHLORO ETHENE	nd							
VINYL CHLORIDE	nd							
TRICHLOROFLUOROMETHANE (FR11)	nd							
DICHLORODIFLUOROMETHANE (FR12)	nd							
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd							
BENZENE	nd							
CHLOROBENZENE	nd							
ETHYLBENZENE	nd							
TOLUENE	nd							
m&p-XYLENES	nd							
o-XYLENE	nd							
SURROGATES								
1,4 DIFLUORO BENZENE	8.6	17.4	8.6	16.8	8.6	17.8	8.6	17.7
4 BROMOFLUORO BENZENE	17.8	55.2	17.8	53.9	17.8	55.8	17.8	56.0

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 (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: TAMARA DAVIS



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AREA COUNTS

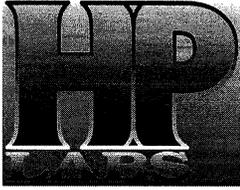
SAMPLE NAME	BLANK	BLANK	SVW5-VPB-14	SVW5-VPB-14	SVW1-VPB-15	SVW1-VPB-15	SVW1-VPC-16	SVW1-VPC-16	SVW2-VPA-17	SVW2-VPA-17
DATE	11/15/01	11/15/01	11/15/01	11/15/01	11/15/01	11/15/01	11/15/01	11/15/01	11/15/01	11/15/01
ANALYSIS TIME	7:12	7:12	7:34	7:34	7:57	7:57	8:20	8:20	8:42	8:42
SAMPLING DEPTH (feet)	--	--	9	9	21	21	33	33	10	10
VOLUME WITHDRAWN (cc)	--	--	96	96	144	144	192	192	100	100
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	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
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	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
1,1,2,2-TETRACHLORO ETHANE	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
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR13)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES										
1,4 DIFLUORO BENZENE	8.6	15.8	8.6	17.4	8.6	16.8	8.6	17.1	8.6	17.6
4 BROMOFLUORO BENZENE	17.8	50.4	17.8	55.5	17.8	53.3	17.8	53.3	17.8	55.5

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 (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: TAMARA DAVIS



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AREA COUNTS

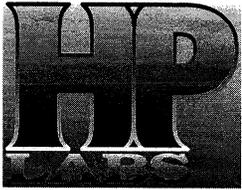
SAMPLE NAME	SVW2-VPA-18	SVW2-VPA-18	SVW2-VPC-19	SVW2-VPC-19	SVW3-VPC-20	SVW3-VPC-20	SVW3-VPD-21	SVW3-VPD-21	SVW4-VPB-22	SVW4-VPB-22
	DUP	DUP								
DATE	11/15/01	11/15/01	11/15/01	11/15/01	11/15/01	11/15/01	11/15/01	11/15/01	11/15/01	11/15/01
ANALYSIS TIME	9:05	9:05	9:29	9:29	9:52	9:52	10:17	10:17	10:39	10:39
SAMPLING DEPTH (feet)	10	10	37	37	40	40	47	47	20	20
VOLUME WITHDRAWN (cc)	160	160	208	208	220	220	248	248	140	140
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA								
CARBON TETRACHLORIDE	nd									
CHLOROETHANE	nd									
CHLOROFORM	nd									
1,1-DICHLORO ETHANE	nd									
1,2-DICHLORO ETHANE	nd									
1,1-DICHLORO ETHENE	nd									
CIS-1,2-DICHLORO ETHENE	nd									
TRANS-1,2-DICHLORO ETHENE	nd									
DICHLOROMETHANE	nd									
TETRACHLORO ETHENE	nd									
1,1,1,2-TETRACHLORO ETHANE	nd									
1,1,2,2-TETRACHLORO ETHANE	nd									
1,1,1-TRICHLORO ETHANE	nd									
1,1,2-TRICHLORO ETHANE	nd									
TRICHLORO ETHENE	nd	9.1	21.4							
VINYL CHLORIDE	nd									
TRICHLOROFLUOROMETHANE (FR11)	nd									
DICHLORODIFLUOROMETHANE (FR12)	nd									
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd									
BENZENE	nd									
CHLOROBENZENE	nd									
ETHYLBENZENE	nd									
TOLUENE	nd									
m&p-XYLENES	nd									
o-XYLENE	nd									
SURROGATES										
1,4 DIFLUORO BENZENE	8.6	16.9	8.6	17.8	8.6	17.9	8.6	18.6	8.6	17.1
4 BROMOFLUORO BENZENE	17.8	52.8	17.8	55.8	17.8	56.8	17.9	59.1	17.9	54.8

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

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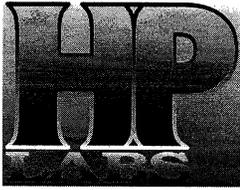
SAMPLE NAME	SVW4-VPD-23	SVW4-VPD-23	SVW4-VPD-24	SVW4-VPD-24	SVW7-VPA-25	SVW7-VPA-25	SVW7-VPB-26	SVW7-VPB-26
			DUP	DUP				
DATE	11/15/01	11/15/01	11/15/01	11/15/01	11/15/01	11/15/01	11/15/01	11/15/01
ANALYSIS TIME	11:33	11:33	11:56	11:56	12:20	12:20	12:48	12:48
SAMPLING DEPTH (feet)	56	56	56	56	20	20	35	35
VOLUME WITHDRAWN (cc)	284	284	344	344	140	140	200	200
VOLUME INJECTED	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd							
CHLOROETHANE	nd							
CHLOROFORM	nd							
1,1-DICHLORO ETHANE	nd							
1,2-DICHLORO ETHANE	nd							
1,1-DICHLORO ETHENE	nd							
CIS-1,2-DICHLORO ETHENE	nd							
TRANS-1,2-DICHLORO ETHENE	nd							
DICHLOROMETHANE	nd							
TETRACHLORO ETHENE	nd							
1,1,1,2-TETRACHLORO ETHANE	nd							
1,1,2,2-TETRACHLORO ETHANE	nd							
1,1,1-TRICHLORO ETHANE	nd							
1,1,2-TRICHLORO ETHANE	nd							
TRICHLORO ETHENE	9.1	6.0	9.1	3.7	nd	nd	nd	nd
VINYL CHLORIDE	nd							
TRICHLOROFLUOROMETHANE (FR11)	nd							
DICHLORODIFLUOROMETHANE (FR12)	nd							
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd							
BENZENE	nd							
CHLOROBENZENE	nd							
ETHYLBENZENE	nd							
TOLUENE	nd							
m&p-XYLENES	nd							
o-XYLENE	nd							
SURROGATES								
1,4 DIFLUORO BENZENE	8.7	17.1	8.7	18.7	8.7	17.0	8.7	17.5
4 BROMOFLUORO BENZENE	17.9	54.3	17.9	59.7	17.9	52.8	17.9	55.1

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

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ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: TAMARA DAVIS



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AREA COUNTS

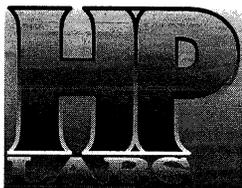
SAMPLE NAME	AMBIENT BLANK	AMBIENT BLANK	SWW11-VPA- 27	SWW11-VPA- 27	SWW11-VPE- 28	SWW11-VPE- 28	SWW32-VPH- 29	SWW32-VPH- 29	SWW32-VPH- 30 DUP	SWW32-VPH- 30 DUP
DATE	11/19/01	11/19/01	11/19/01	11/19/01	11/19/01	11/19/01	11/19/01	11/19/01	11/19/01	11/19/01
ANALYSIS TIME	6:45	6:45	7:07	7:07	7:30	7:30	7:52	7:52	8:15	8:15
SAMPLING DEPTH (feet)	--	--	20	20	96	96	155	155	155	155
VOLUME WITHDRAWN (cc)	--	--	140	140	444	444	680	680	740	740
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	7.7	66.1	7.7	55.9
CHLOROETHANE	nd	nd								
CHLOROFORM	nd	nd								
1,1-DICHLORO ETHANE	nd	nd								
1,2-DICHLORO ETHANE	nd	nd								
1,1-DICHLORO ETHENE	nd	nd								
CIS-1,2-DICHLORO ETHENE	nd	nd								
TRANS-1,2-DICHLORO ETHENE	nd	nd								
DICHLOROMETHANE	nd	nd								
TETRACHLORO ETHENE	nd	nd								
1,1,1,2-TETRACHLORO ETHANE	nd	nd								
1,1,2,2-TETRACHLORO ETHANE	nd	nd								
1,1,1-TRICHLORO ETHANE	nd	nd								
1,1,2-TRICHLORO ETHANE	nd	nd								
TRICHLORO ETHENE	nd	nd								
VINYL CHLORIDE	nd	nd								
TRICHLOROFLUOROMETHANE (FR11)	nd	nd								
DICHLORODIFLUOROMETHANE (FR12)	nd	nd								
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	4.1	40.4	4.1	37.6
BENZENE	nd	nd								
CHLOROBENZENE	nd	nd								
ETHYLBENZENE	nd	nd								
TOLUENE	nd	nd								
m&p-XYLENES	nd	nd								
o-XYLENE	nd	nd								
SURROGATES										
1,4 DIFLUORO BENZENE	8.6	13.6	8.6	15.7	8.6	16.6	8.6	16.6	8.6	17.2
4 BROMOFLUORO BENZENE	17.8	42.8	17.8	50.1	17.8	52.6	17.9	53.6	17.9	54.9

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 (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: TAMARA DAVIS



GEOFON PROJECT #04-4304-480 JPL 1
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF111401T2
 GC SHIMADZU 14A
 VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR
 AREA COUNTS

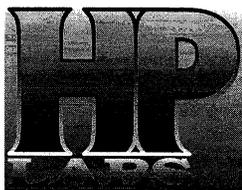
SAMPLE NAME	SVW9-VPB-36	SVW9-VPB-36	SVW9-VPC-37	SVW9-VPC-37	SVW9-VPD-38	SVW9-VPD-38	SVW9-VPE-39	SVW9-VPE-39
	DUP	DUP						
DATE	11/19/01	11/19/01	11/19/01	11/19/01	11/19/01	11/19/01	11/19/01	11/19/01
ANALYSIS TIME	10:42	10:42	11:28	11:28	11:51	11:51	12:17	12:17
SAMPLING DEPTH (feet)	35	35	50	50	70	70	87	87
VOLUME WITHDRAWN (cc)	260	260	260	260	340	340	408	408
VOLUME INJECTED	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd							
CHLOROETHANE	nd							
CHLOROFORM	nd							
1,1-DICHLORO ETHANE	nd							
1,2-DICHLORO ETHANE	nd							
1,1-DICHLORO ETHENE	nd							
CIS-1,2-DICHLORO ETHENE	nd							
TRANS-1,2-DICHLORO ETHENE	nd							
DICHLOROMETHANE	nd							
TETRACHLORO ETHENE	nd							
1,1,1,2-TETRACHLORO ETHANE	nd							
1,1,2,2-TETRACHLORO ETHANE	nd							
1,1,1-TRICHLORO ETHANE	nd							
1,1,2-TRICHLORO ETHANE	nd							
TRICHLORO ETHENE	nd							
VINYL CHLORIDE	nd							
TRICHLOROFLUOROMETHANE (FR11)	nd							
DICHLORODIFLUOROMETHANE (FR12)	nd							
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	4.1	25.9	4.1	31.1	4.1	24.3	4.1	24.7
BENZENE	nd							
CHLOROBENZENE	nd							
ETHYLBENZENE	nd							
TOLUENE	nd							
m&p-XYLENES	nd							
o-XYLENE	nd							
SURROGATES								
1,4 DIFLUORO BENZENE	8.6	17.6	8.7	15.5	8.6	16.3	8.7	16.7
4 BROMOFLUORO BENZENE	17.9	56.6	17.9	50.0	17.9	52.4	17.9	53.5

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 (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: TAMARA DAVIS



GEOFON PROJECT #04-4304-480-JPL 1
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF111401T2

GC SHIMADZU 14A

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR

AREA COUNTS

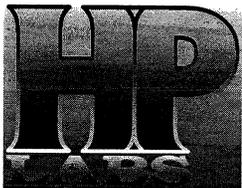
SAMPLE NAME	SVW14-VPA-	SVW14-VPA-	SVW14-VPB-	SVW14-VPB-	SVW17-VPC-	SVW17-VPC-	SVW9-VPA-34	SVW9-VPA-34	SVW9-VPB-35	SVW9-VPB-35
	31	31	32	32	33	33				
DATE	11/19/01	11/19/01	11/19/01	11/19/01	11/19/01	11/19/01	11/19/01	11/19/01	11/19/01	11/19/01
ANALYSIS TIME	8:37	8:37	9:00	9:00	9:29	9:29	9:57	9:57	10:20	10:20
SAMPLING DEPTH (feet)	5	5	10	10	36	36	20	20	35	35
VOLUME WITHDRAWN (cc)	80	80	100	100	204	204	140	140	200	200
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd						
CHLOROETHANE	nd	nd	nd	nd						
CHLOROFORM	nd	nd	nd	nd						
1,1-DICHLORO ETHANE	nd	nd	nd	nd						
1,2-DICHLORO ETHANE	nd	nd	nd	nd	8.1	38.3	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd						
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd						
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd						
DICHLOROMETHANE	nd	nd	nd	nd						
TETRACHLORO ETHENE	nd	nd	nd	nd	12.9	3.0	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd						
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd						
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd						
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd						
TRICHLORO ETHENE	nd	nd	nd	nd	9.1	1.6	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd						
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd						
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd						
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	4.2	24.5	4.1	30.7
BENZENE	nd	nd	nd	nd	8.0	161	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd						
ETHYLBENZENE	nd	nd	nd	nd	15.2	3.3	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	11.8	8.5	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	15.5	12.8	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	16.3	4.3	nd	nd	nd	nd
SURROGATES										
1,4 DIFLUORO BENZENE	8.6	17.3	8.6	16.2	8.7	18.8	8.7	16.7	8.7	17.0
4 BROMOFLUORO BENZENE	17.9	55.1	17.9	51.4	17.9	52.6	17.9	53.0	17.9	54.6

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 (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: TAMARA DAVIS



GEOFON PROJECT #04-4304-480 JPL 1
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF111401T2

GC SHIMADZU 14A

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR

AREA COUNTS

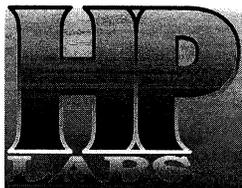
SAMPLE NAME	AMBIENT BLANK	AMBIENT BLANK	SVW33-VPD- 40	SVW33-VPD- 40	SVW33-VPE- 41	SVW33-VPE- 41	SVW33-VPE- 42 DUP	SVW33-VPE- 42 DUP	SVW33-VPF- 43	SVW33-VPF- 43
DATE	11/20/01	11/20/01	11/20/01	11/20/01	11/20/01	11/20/01	11/20/01	11/20/01	11/20/01	11/20/01
ANALYSIS TIME	6:12	6:12	6:40	6:40	7:03	7:03	7:26	7:26	7:48	7:48
SAMPLING DEPTH (feet)	--	--	85	85	105	105	105	105	120	120
VOLUME WITHDRAWN (cc)	--	--	400	400	480	480	540	540	540	540
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	7.7	61.0	7.7	147	7.7	105	7.7	126
CHLOROETHANE	nd	nd	nd	nd						
CHLOROFORM	nd	nd	nd	nd						
1,1-DICHLORO ETHANE	nd	nd	nd	nd						
1,2-DICHLORO ETHANE	nd	nd	nd	nd						
1,1-DICHLORO ETHENE	nd	nd	4.1	1.7	4.1	1.8	4.1	1.6	4.1	1.1
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd						
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd						
DICHLOROMETHANE	nd	nd	nd	nd						
TETRACHLORO ETHENE	nd	nd	nd	nd						
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd						
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd						
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd						
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd						
TRICHLORO ETHENE	nd	nd	nd	nd						
VINYL CHLORIDE	nd	nd	nd	nd						
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd						
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd						
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	4.1	10.0	4.1	17.0	4.2	12.0	nd	nd
BENZENE	nd	nd	nd	nd						
CHLOROBENZENE	nd	nd	nd	nd						
ETHYLBENZENE	nd	nd	nd	nd						
TOLUENE	nd	nd	nd	nd						
m&p-XYLENES	nd	nd	nd	nd						
o-XYLENE	nd	nd	nd	nd						
SURROGATES										
1,4 DIFLUORO BENZENE	8.6	14.5	8.6	16.5	8.6	16.5	8.6	15.8	8.6	15.6
4 BROMOFLUORO BENZENE	17.8	46.5	17.9	53.3	17.9	52.7	17.9	50.7	17.9	50.2

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UGL-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: TAMARA DAVIS



GEOFON PROJECT #04-4304-480 JPL 1
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF111401T2

GC SHIMADZU 14A

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR

AREA COUNTS

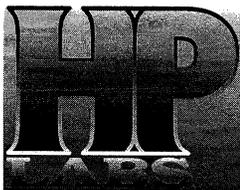
SAMPLE NAME	SVW36-VPB-	SVW36-VPB	SVW36-VPC-	SVW36-VPC	SVW8-VPC-46	SVW8-VPC-46	SVW8-VPD-47	SVW8-VPD-47	SVW8-VPD-48	SVW8-VPD-48
	44	44	45	45					DUP	DUP
DATE	11/20/01	11/20/01	11/20/01	11/20/01	11/20/01	11/20/01	11/20/01	11/20/01	11/20/01	11/20/01
ANALYSIS TIME	8:12	8:12	8:39	8:39	9:03	9:03	9:26	9:26	9:50	9:50
SAMPLING DEPTH (feet)	35	35	55	55	50	50	70	70	70	70
VOLUME WITHDRAWN (cc)	200	200	280	280	260	260	340	340	400	400
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	7.7	36.9	7.7	203	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	4.1	1.9	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	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
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	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
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	7.4	97.6	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	9.1	2.6	9.1	14.4	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	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
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES										
1,4 DIFLUORO BENZENE	8.6	17.2	8.6	16.7	8.6	16.0	8.6	16.4	8.6	15.9
4 BROMOFLUORO BENZENE	17.8	54.8	17.9	53.5	17.9	51.5	17.9	52.7	17.9	50.8

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: TAMARA DAVIS



GEOFON PROJECT #04-4304-480 JPL 1
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF111401T2

GC SHIMADZU 14A

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR

AREA COUNTS

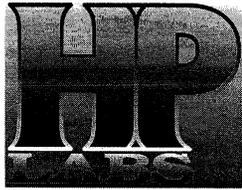
SAMPLE NAME	SVW8-VPE-49	SVW8-VPE-49	SVW10-VPB-50	SVW10-VPB-50	SVW10-VPD-51	SVW10-VPD-51
DATE	11/20/01	11/20/01	11/20/01	11/20/01	11/20/01	11/20/01
ANALYSIS TIME	10:12	10:12	11:24	11:24	11:49	11:49
SAMPLING DEPTH (feet)	90	90	35	35	69	69
VOLUME WITHDRAWN (cc)	420	420	200	200	336	336
VOLUME INJECTED	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	4.1	12.9	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd
SURROGATES						
1,4 DIFLUORO BENZENE	8.6	17.2	8.7	15.7	8.7	17.3
4 BROMOFLUORO BENZENE	17.9	55.6	17.9	51.4	17.9	55.7

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: TAMARA DAVIS



GEOFON PROJECT #04-4304-480 JPL 1
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF111401T2

GC SHIMADZU 14A

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR

AREA COUNTS

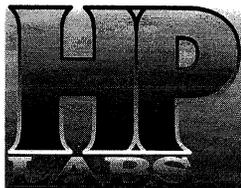
SAMPLE NAME	AMBIENT BLANK	AMBIENT BLANK	SVW37-VPJ- 52	SVW37-VPJ- 52	SVW34-VPH- 53	SVW34-VPH- 53	SVW34-VPH- 54 DUP	SVW34-VPH- 54 DUP	SVW15-VPB- 55	SVW15-VPB- 55
DATE	11/21/01	11/21/01	11/21/01	11/21/01	11/21/01	11/21/01	11/21/01	11/21/01	11/21/01	11/21/01
ANALYSIS TIME	6:33	6:33	6:55	6:55	7:18	7:18	7:40	7:40	8:03	8:03
SAMPLING DEPTH (feet)	--	--	185	185	118	118	118	118	40	40
VOLUME WITHDRAWN (cc)	--	--	800	800	532	532	592	592	220	220
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	7.7	27.7	7.7	30.4	nd	nd
CHLOROETHANE	nd	nd	nd	nd						
CHLOROFORM	nd	nd	nd	nd						
1,1-DICHLORO ETHANE	nd	nd	nd	nd						
1,2-DICHLORO ETHANE	nd	nd	nd	nd						
1,1-DICHLORO ETHENE	nd	nd	nd	nd						
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd						
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd						
DICHLOROMETHANE	nd	nd	nd	nd						
TETRACHLORO ETHENE	nd	nd	nd	nd						
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd						
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd						
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd						
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd						
TRICHLORO ETHENE	nd	nd	nd	nd						
VINYL CHLORIDE	nd	nd	nd	nd						
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd						
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd						
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd						
BENZENE	nd	nd	nd	nd						
CHLOROBENZENE	nd	nd	nd	nd						
ETHYLBENZENE	nd	nd	nd	nd						
TOLUENE	nd	nd	nd	nd						
m&p-XYLENES	nd	nd	nd	nd						
o-XYLENE	nd	nd	nd	nd						
SURROGATES										
1,4 DIFLUORO BENZENE	8.6	16.2	8.6	16.6	8.6	17.0	8.6	16.5	8.6	17.0
4 BROMOFLUORO BENZENE	17.9	52.6	17.9	54.2	17.9	55.2	17.9	53.4	17.9	54.6

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: TAMARA DAVIS



GEOFON PROJECT #04-4304-480 JPL 1
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF111401T2

GC SHIMADZU 14A

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR

AREA COUNTS

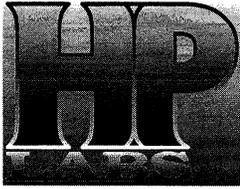
SAMPLE NAME	SVW15-VPC-56	SVW15-VPC-56	SVW15-VPD-57	SVW15-VPD-57	SVW15-VPE-58	SVW15-VPE-58	SVW6-VPB-59	SVW6-VPB-59	SVW6-VPB-60	SVW6-VPB-60
									DUP	DUP
DATE	11/21/01	11/21/01	11/21/01	11/21/01	11/21/01	11/21/01	11/21/01	11/21/01	11/21/01	11/21/01
ANALYSIS TIME	8:25	8:25	8:49	8:49	9:13	9:13	9:35	9:35	9:58	9:58
SAMPLING DEPTH (feet)	60	60	75	75	90	90	40	40	40	40
VOLUME WITHDRAWN (cc)	300	300	360	360	420	420	220	220	280	280
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	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
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	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
1,1,2,2-TETRACHLORO ETHANE	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
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	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
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES										
1,4 DIFLUORO BENZENE	8.6	17.1	8.6	17.3	8.6	17.7	8.6	17.1	8.6	16.8
4 BROMOFLUORO BENZENE	17.9	55.4	17.9	55.4	17.9	56.5	17.9	56.0	17.9	54.3

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: TAMARA DAVIS



GEOFON PROJECT #04-4304-480 JPL 1
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF111401T2

GC SHIMADZU 14A

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR

AREA COUNTS

SAMPLE NAME	SVW6-VPC-61	SVW6-VPC-61	SVW6-VPD-62	SVW6-VPD-62	SVW6-VPE-63	SVW6-VPE-63
DATE	11/21/01	11/21/01	11/21/01	11/21/01	11/21/01	11/21/01
ANALYSIS TIME	10:21	10:21	11:09	11:09	11:32	11:32
SAMPLING DEPTH (feet)	60	60	77	77	96	96
VOLUME WITHDRAWN (cc)	300	300	368	368	444	444
VOLUME INJECTED	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd
SURROGATES						
1,4 DIFLUORO BENZENE	8.6	16.5	8.7	16.9	8.7	17.4
4 BROMOFLUORO BENZENE	17.9	53.6	17.9	55.0	17.9	56.6

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: TAMARA DAVIS