

**MARCH 2002**

---

03/11/2002

Geofon, Inc.  
ATTN: Leo W. Williamson  
22632 Golden Springs Dr., Suite 270  
Diamond Bar, CA 91765

Project Reference: JPL #1  
Lab Number: A2030405-01/05

Enclosed are results for sample(s) received 3/04/02 by Advanced Technology Laboratories, Inc. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

**Report Narrative:**

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 3/08/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Air Toxics Operations Manager  
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





Client's Project: JPL #1  
 Date Received: 03/04/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14											
Lab No:	A2030405-01		A2030405-02		A2030405-03		A2030405-04		A2030405-05		
Client Sample I.D.:	T4-VE1-A-12-01		T4-VE1-B-12-02		T4-VE1-C-12-03		T4-VE1-INN-12-04		T4-VE1-EFF-12-05		
Date Sampled:	03/04/02		03/04/02		03/04/02		03/04/02		03/04/02		
Date Analyzed:	03/05/02		03/05/02		03/05/02		03/05/02		03/05/02		
QC Batch No:	020305MS2A1		020305MS2A1		020305MS2A1		020305MS2A1		020305MS2A1		
Analyst Initials:	SC		SC		SC		SC		SC		
Dilution Factor:	3.0		3.0		1.0		2.0		1.0		
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	6.4	3.0	4.7	3.0	ND	1.0	3.7	2.0	ND	1.0
Chloromethane	2.0	ND	6.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Vinyl Chloride	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Bromomethane	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Chloroethane	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Trichlorofluoromethane (11)	1.0	ND	3.0	50	3.0	133	1.0	62	2.0	ND	1.0
1,1-Dichloroethene	1.0	5.7	3.0	89	3.0	34	1.0	46	2.0	ND	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	6.5	3.0	95	3.0	84	1.0	63	2.0	ND	1.0
Methylene Chloride	1.0	ND	3.0	ND	3.0	1.2	1.0	ND	2.0	ND	1.0
1,1-Dichloroethane	1.0	ND	3.0	ND	3.0	1.9	1.0	ND	2.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	3.0	ND	3.0	1.2	1.0	ND	2.0	ND	1.0
Chloroform	1.0	283	3.0	202	3.0	132	1.0	196	2.0	ND	1.0
1,1,1-Trichloroethane	1.0	4.3	3.0	18	3.0	10	1.0	10	2.0	ND	1.0
Carbon Tetrachloride	1.0	373	3.0	465	3.0	250	1.0	349	2.0	ND	1.0
Benzene	1.0	ND	3.0	ND	3.0	ND	1.0	2.3	2.0	2.0	1.0
1,2-Dichloroethane	1.0	ND	3.0	ND	3.0	1.3	1.0	ND	2.0	ND	1.0
Trichloroethene	1.0	ND	3.0	85	3.0	217	1.0	119	2.0	ND	1.0
1,2-Dichloropropane	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Toluene	1.0	56	3.0	78	3.0	55	1.0	2.3	2.0	ND	1.0
t-1,3-Dichloropropene	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Tetrachloroethene	1.0	4.5	3.0	37	3.0	22	1.0	29	2.0	ND	1.0
1,2-Dibromoethane	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Chlorobenzene	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Ethylbenzene	1.0	5.5	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
p,&m-Xylene	1.0	26	3.0	4.9	3.0	2.0	1.0	3.2	2.0	ND	1.0
o-Xylene	1.0	8.9	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Styrene	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,1,2-Tetrachloroethane	2.0	ND	6.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	6.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	6.7	6.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	6.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
Hexachlorobutadiene	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0

MDL = Method Detection Limit  
 ND= Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By:   
 Mark Johnson  
 Air Toxics Operations Manager

Date 3-8-02

The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020305MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	03/05/02		03/05/02	% Rec	03/05/02	% Rec	RPD	Limits			
Data File ID:	05MAR008.D		05MAR003.D	% Rec	05MAR004.D	% Rec		Low %Rec	High %Rec	Max. RPD	Pass/Fail
Analyst Initials:	SC		SC	% Rec	SC	% Rec					
Dilution Factor:	1.0		1.0	% Rec	1.0	% Rec					
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/Fail
1,1-Dichloroethene	0.0	10.0	10.5	105	10.6	106	1.5	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.6	116	11.6	116	0.2	70	130	30	Pass
Trichloroethene	0.0	10.0	9.5	95	9.7	97	1.9	70	130	30	Pass
Toluene	0.0	10.0	9.1	91	9.2	92	0.1	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	7.3	73	7.5	75	2.3	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By:



Mark Johnson

Air Toxics Operations Manager

Date:

3-8-02

The cover letter is an integral part of this analytical report



MAR 25 2002

03/22/2002

Geofon, Inc.  
ATTN: Leo W. Williamson  
22632 Golden Springs Dr., Suite 270  
Diamond Bar, CA 91765

Project Reference: JPL#1  
Lab Number: A2031103-01/06

Enclosed are results for sample(s) received 3/11/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

**Report Narrative:**

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 3/20/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
mark@atfglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





Client's Project: JPL #1  
 Date Received: 03/11/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:	A2031103-01		A2031103-02		A2031103-03		A2031103-04		A2031103-05		
Client Sample I.D.:	T4-VE1-INN-13-01		T4-VE1-EFF-13-02		T4-VE1-P1EFF-13-03		T4-VE1-P2EFF-13-04		T4-VE1-S1EFF-13-05		
Date Sampled:	03/11/02		03/11/02		03/11/02		03/11/02		03/11/02		
Date Analyzed:	03/13/02		03/13/02		03/13/02		03/13/02		03/13/02		
QC Batch No:	020313MS2A1		020313MS2A1		020313MS2A1		020313MS2A1		020313MS2A1		
Analyst Initials:	SC		SC		SC		SC		SC		
Dilution Factor:	2.0		1.0		1.0		1.0		1.0		
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	3.9	2.0	14	1.0	5.2	1.0	4.8	1.0	9.7	1.0
Chloromethane	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	2.0	ND	1.0	ND	1.0	2.1	1.0	ND	1.0
Bromomethane	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	72	2.0	ND	1.0	56	1.0	73	1.0	ND	1.0
1,1-Dichloroethene	1.0	49	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	66	2.0	ND	1.0	26	1.0	50	1.0	2.0	1.0
Methylene Chloride	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	1.0	204	2.0	ND	1.0	1.2	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	10	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	1.0	307	2.0	ND	1.0	3.0	1.0	1.5	1.0	ND	1.0
Benzene	1.0	4.3	2.0	2.0	1.0	49	1.0	1.1	1.0	16	1.0
1,2-Dichloroethane	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	133	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	1.0	4.8	2.0	ND	1.0	26	1.0	28	1.0	83	1.0
t-1,3-Dichloropropene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	32	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	2.6	2.0	ND	1.0	1.0	1.0	ND	1.0	2.1	1.0
p,&m-Xylene	1.0	10	2.0	ND	1.0	3.8	1.0	1.7	1.0	6.7	1.0
o-Xylene	1.0	3.5	2.0	ND	1.0	2.0	1.0	ND	1.0	8.4	1.0
Styrene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0	4.6	2.0
1,2,4-Trimethylbenzene	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0	8.2	2.0
1,3-Dichlorobenzene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit  
 ND= Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Air Toxics Operations Manager

Date 3-20-02

The cover letter is an integral part of this analytical report



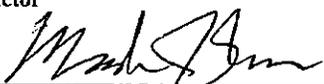
Client: Geofon Incorporated  
 Attn: Leo W. Williamson

Client's Project: JPL #1  
 Date Received: 03/11/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:	A2031103-06		
Client Sample I.D.:	T4-VE1-S2EFF-13-06		
Date Sampled:	03/11/02		
Date Analyzed:	03/13/02		
QC Batch No:	020313MS2A1		
Analyst Initials:	SC		
Dilution Factor:	1.0		
ANALYTE	MDL	Result	RL
Dichlorodifluoromethane (12)	1.0	9.7	1.0
Chloromethane	2.0	ND	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	1.0
Vinyl Chloride	1.0	1.9	1.0
Bromomethane	1.0	ND	1.0
Chloroethane	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	ND	1.0
1,1-Dichloroethene	1.0	ND	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	1.4	1.0
Methylene Chloride	1.0	ND	1.0
1,1-Dichloroethane	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0
Chloroform	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	ND	1.0
Carbon Tetrachloride	1.0	ND	1.0
Benzene	1.0	1.2	1.0
1,2-Dichloroethane	1.0	ND	1.0
Trichloroethene	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0
Toluene	1.0	5.8	1.0
t-1,3-Dichloropropene	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0
Tetrachloroethene	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0
p,&m-Xylene	1.0	1.7	1.0
o-Xylene	1.0	ND	1.0
Styrene	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0

MDL = Method Detection Limit  
 ND= Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By:   
 Mark Johnson  
 Air Toxics Operations Manager

Date 3-20-02

The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020313MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	03/13/02		03/13/02		03/13/02						
Data File ID:	13MAR005.D		13MAR015.D		13MAR016.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0		Limits				
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.2	102	9.9	99	2.9	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.4	114	10.8	108	4.7	70	130	30	Pass
Trichloroethene	0.0	10.0	8.8	88	8.6	86	1.5	70	130	30	Pass
Toluene	0.0	10.0	8.8	88	8.5	85	3.5	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	7.9	79	7.8	78	1.3	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By:



Mark Johnson

Air Toxics Operations Manager

Date:

3-20-02

The cover letter is an integral part of this analytical report



APR 04 2002<sup>cl</sup>

03/27/2002

Geofon, Inc.  
ATTN: Leo W. Williamson  
22632 Golden Springs Dr., Suite 270  
Diamond Bar, CA 91765

Project Reference: JPL #1  
Lab Number: A2031908-01/05

Enclosed are results for sample(s) received 3/19/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

**Report Narrative:**

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 3/26/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





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

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	OC Level	TAT	LABORATORY SERVICE ID		LABORATORY CONTACT		MAIL REPORT (COMPANY NAME)	
									LABORATORY PHONE	LABORATORY ADDRESS	LABORATORY FAX	LABORATORY FAX	RECIPIENT NAME	ADDRESS
	LEO W. WILLIAMSON		909-396-7662			909-396-1455				LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	TOAN DE LA OSSA	GEOFON INC	
	PROJECT NAME		PROJECT LOCATION			PROJECT NUMBER				LABORATORY PHONE	LABORATORY ADDRESS	LABORATORY FAX	RECIPIENT NAME	
	SPL #1		SPL VE-1			CH-4304-480				626-964-4032	1850 E. COLE AVE #130	626-964-5832	LEO W. WILLIAMSON	
	PROJECT CONTACT		PROJECT PHONE NUMBER			N/A				LABORATORY ADDRESS	CITY, STATE AND ZIP CODE		ADDRESS	'270
	LEO W. WILLIAMSON		714-970-8438							CITY, STATE AND ZIP CODE			22632 GOLDEN SPRINGS DR	
	PROJECT ADDRESS		CITY, STATE AND ZIP CODE											
	4800 OAKGROVE DR		PASADENA CA			US NAVY SWDIN								
	PROJECT MANAGER		PROJECT MANAGER'S PHONE			PROJECT MANAGER'S FAX								
	ASLAR FANBERG		909-396-7662			909-396-1455								
	Comments													A2031908
1	T4-VE1-A-14-01		AIR 3-17-02	1155	MADE	1*	3	NOLM	X					1 *L TEBLAR BAG
2	T4-VE1-B-14-02			1200					X					SCREEN - A 01
3	T4-VE1-C-14-03			1205					X					SCREEN - B 02
4	T4-VE1-D-14-04			1210					X					SCREEN - C 03
5	T4-VE1-E-14-05			1215					X					SCREEN - D 04
6														SCREEN - E 05
7														
8														
9														
10														

SAMPLES COLLECTED BY: [Signature] COURIER AND AIR BILL NUMBER: [Blank]

RELINQUISHED BY: [Signature] RECEIVED BY: [Signature]

DATE: 3/19/02 TIME: 14:00

COOLER TEMPERATURE UPON RECEIPT: [Blank]

SAMPLE'S CONDITION UPON RECEIPT: [Blank]

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

Client: Geofon Incorporated  
 Attn: Leo W. Williamson

Client's Project: JPL #1  
 Date Received: 03/19/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14											
Lab No:	A2031908-01		A2031908-02		A2031908-03		A2031908-04		A2031908-05		
Client Sample I.D.:	T4-VE1-A-14-01		T4-VE1-B-14-02		T4-VE1-C-14-03		T4-VE1-INN-14-04		T4-VE1-EFF-14-05		
Date Sampled:	03/19/02		03/19/02		03/19/02		03/19/02		03/19/02		
Date Analyzed:	03/21/02		03/20/02		03/20/02		03/20/02		03/20/02		
QC Batch No:	020321MS2A1		020320MS2A1		020320MS2A1		020320MS2A1		020320MS2A1		
Analyst Initials:	SC		SC		SC		SC		SC		
Dilution Factor:	2.0		2.0		1.0		2.0		1.0		
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	6.0	2.0	3.6	2.0	1.3	1.0	3.9	2.0	11	1.0
Chloromethane	2.0	ND	4.0	ND	4.0	2.3	2.0	ND	4.0	ND	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Vinyl Chloride	1.0	ND	2.0	ND	2.0	1.6	1.0	ND	2.0	ND	1.0
Bromomethane	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Chloroethane	1.0	ND	2.0	ND	2.0	1.6	1.0	ND	2.0	ND	1.0
Trichlorofluoromethane (11)	1.0	ND	2.0	43	2.0	143	1.0	76	2.0	53	1.0
1,1-Dichloroethene	1.0	7.4	2.0	57	2.0	30	1.0	42	2.0	ND	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	7.0	2.0	66	2.0	71	1.0	60	2.0	6.1	1.0
Methylene Chloride	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	1.3	1.0
1,1-Dichloroethane	1.0	ND	2.0	ND	2.0	1.7	1.0	ND	2.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	2.0	ND	2.0	1.2	1.0	ND	2.0	ND	1.0
Chloroform	1.0	254	2.0	123	2.0	107	1.0	185	2.0	ND	1.0
1,1,1-Trichloroethane	1.0	3.6	2.0	11	2.0	6.9	1.0	9.5	2.0	ND	1.0
Carbon Tetrachloride	1.0	190	2.0	273	2.0	174	1.0	265	2.0	ND	1.0
Benzene	1.0	ND	2.0	ND	2.0	ND	1.0	7.4	2.0	2.2	1.0
1,2-Dichloroethane	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Trichloroethene	1.0	2.7	2.0	48	2.0	187	1.0	121	2.0	ND	1.0
1,2-Dichloropropane	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Toluene	1.0	63	2.0	76	2.0	86	1.0	3.0	2.0	ND	1.0
t-1,3-Dichloropropene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Tetrachloroethene	1.0	5.7	2.0	18	2.0	15	1.0	34	2.0	ND	1.0
1,2-Dibromoethane	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Chlorobenzene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Ethylbenzene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
p,&m-Xylene	1.0	6.6	2.0	5.3	2.0	2.1	1.0	5.1	2.0	ND	1.0
o-Xylene	1.0	2.3	2.0	2.1	2.0	1.0	1.0	2.3	2.0	ND	1.0
Styrene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	4.0	ND	4.0	ND	2.0	ND	4.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	4.0	ND	4.0	ND	2.0	ND	4.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	4.0	ND	4.0	ND	2.0	ND	4.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	4.0	ND	4.0	ND	2.0	ND	4.0	ND	2.0
Hexachlorobutadiene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0

MDL = Method Detection Limit  
 ND = Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By:   
 Mark Johnson  
 Air Toxics Operations Manager

Date 3-26-02



The cover letter is an integral part of this analytical report

Advanced Technology  
 Laboratories

18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020320MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	03/20/02		03/20/02		03/20/02						
Data File ID:	20MAR005.D		20MAR003.D		20MAR004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0		Limits				
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	11.6	116	11.4	114	1.8	70	130	30	Pass
Methylene Chloride	0.0	10.0	12.6	126	12.6	126	0.5	70	130	30	Pass
Trichloroethene	0.0	10.0	9.0	90	8.8	88	2.1	70	130	30	Pass
Toluene	0.0	10.0	10.1	101	9.9	99	1.5	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.4	94	9.4	94	0.2	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson

Mark Johnson

Air Toxics Operations Manager

Date: 3-26-02

The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020321MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	03/21/02		03/21/02		03/21/02						
Data File ID:	21MAR006.D		21MAR004.D		21MAR014.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0		Limits				
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	11.5	115	11.0	110	4.2	70	130	30	Pass
Methylene Chloride	0.0	10.0	12.9	129	12.4	124	4.4	70	130	30	Pass
Trichloroethene	0.0	10.0	9.1	91	8.7	87	4.3	70	130	30	Pass
Toluene	0.0	10.0	10.3	103	9.8	98	4.8	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.4	94	9.0	90	4.5	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By:



Mark Johnson

Air Toxics Operations Manager

Date:

3-26-02

The cover letter is an integral part of this analytical report



04/02/2002

Geofon, Inc.  
ATTN: Leo W. Williamson  
22632 Golden Springs Dr., Suite 270  
Diamond Bar, CA 91765

Project Reference: JPL #1  
Lab Number: A2032503-01/02

Enclosed are results for sample(s) received 3/25/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 4/02/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





Client: Geofon Incorporated  
 Attn: Leo W. Williamson

Client's Project: JPL #1  
 Date Received: 03/25/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:	A2032503-01	A2032503-02			
Client Sample I.D.:	T4-VE1-INN-15-01	T4-VE1-EFF-15-02			
Date Sampled:	03/25/02	03/25/02			
Date Analyzed:	03/26/02	03/26/02			
QC Batch No:	020326MS2A1	020326MS2A1			
Analyst Initials:	SC	SC			
Dilution Factor:	1.0	1.0			
ANALYTE	MDL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	3.9	1.0	9.3	1.0
Chloromethane	2.0	ND	2.0	ND	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	83	1.0	67	1.0
1,1-Dichloroethene	1.0	46	1.0	ND	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	70	1.0	17	1.0
Methylene Chloride	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	1.7	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0
Chloroform	1.0	201	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	11	1.0	ND	1.0
Carbon Tetrachloride	1.0	283*	2.0	ND	1.0
Benzene	1.0	2.6	1.0	1.4	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	127	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0
Toluene	1.0	1.2	1.0	ND	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	27	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	ND	1.0	ND	1.0
o-Xylene	1.0	ND	1.0	ND	1.0
Styrene	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit  
 ND= Not Detected (below RL)  
 RL = MDL X Dilution Factor  
 \* = Dilution factor of 2

Reviewed/Approved By:   
 Mark Johnson  
 Air Toxics Operations Manager

Date 4-2-02



The cover letter is an integral part of this analytical report

Advanced Technology  
 Laboratories

## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020326MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	03/26/02		03/26/02		03/26/02						
Data File ID:	26MAR005.D		26MAR003.D		26MAR004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0		Limits				
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	11.0	110	11.0	110	0.8	70	130	30	Pass
Methylene Chloride	0.0	10.0	12.5	125	12.5	125	0.2	70	130	30	Pass
Trichloroethene	0.0	10.0	8.4	84	8.5	85	1.2	70	130	30	Pass
Toluene	0.0	10.0	9.3	93	9.2	92	0.8	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.8	88	8.7	87	0.2	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: \_\_\_\_\_



Mark Johnson

Air Toxics Operations Manager

Date: \_\_\_\_\_

4-2-02

The cover letter is an integral part of this analytical report



**APRIL 2002**

---

02 APR 18 2002

04/09/2002

Geofon, Inc.  
ATTN: Leo W. Williamson  
22632 Golden Springs Dr., Suite 270  
Diamond Bar, CA 91765

Project Reference: JPL #1  
Lab Number: A2040102-01/05

Enclosed are results for sample(s) received 4/01/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

**Report Narrative:**

Sample analyses were performed within method performance criteria. All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 4/08/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.



A2040102



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

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

Item	Sample Identifier	Matrix		Date	Time	Preserved	# of Cont	OC Level	TAT	Analyzes	Comments
		LABORATORY SERVICE ID	LABORATORY CONTACT								
1	14-VE1-A-16-01	AIR	4/1/02	1030	NONE	1	3	N/D/L/M	X		1* L TSD LMC BAG SCREEN - A
2	14-VE1-B-16-02			1035					X		SCREEN - B
3	14-VE1-C-16-03			1040					X		SCREEN - C
4	14-VE1-INN-16-04			1045					X		SCREEN - INFLUENT
5	14-VE1-EFF-16-05			1050					X		SCREEN - EFFLUENT
6											
7											
8											
9											
10											

SAMPLES COLLECTED BY: <i>Tony...</i>	COURIER AND AIR BILL NUMBER:	COOLER TEMPERATURE UPON RECEIPT:
RELINQUISHED BY: <i>Tony...</i>	RECEIVED BY: <i>Moh...</i>	SAMPLE'S CONDITION UPON RECEIPT:
	DATE: 4-1-02	TIME: 12:05

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

Client: Geofon Incorporated  
 Attn: Leo W. Williamson

Client's Project: JPL #1  
 Date Received: 04/01/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:	A2040102-01	A2040102-02	A2040102-03	A2040102-04	A2040102-05						
Client Sample I.D.:	T4-VE1-A-16-01	T4-VE1-B-16-02	T4-VE1-C-16-03	T4-VE1-INN-16-04	T4-VE1-EFF-16-05						
Date Sampled:	04/01/02	04/01/02	04/01/02	04/01/02	04/01/02						
Date Analyzed:	04/02/02	04/02/02	04/02/02	04/02/02	04/02/02						
QC Batch No:	020402MS2A1	020402MS2A1	020402MS2A1	020402MS2A1	020402MS2A1						
Analyst Initials:	SC	SC	SC	SC	SC						
Dilution Factor:	2.0	3.0	1.0	2.0	1.0						
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	6.3	2.0	4.2	3.0	ND	1.0	3.8	2.0	6.2	1.0
Chloromethane	2.0	ND	4.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Vinyl Chloride	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Bromomethane	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Chloroethane	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Trichlorofluoromethane (11)	1.0	ND	2.0	51	3.0	127	1.0	76	2.0	94	1.0
1,1-Dichloroethene	1.0	7.5	2.0	73	3.0	24	1.0	43	2.0	ND	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	7.7	2.0	89	3.0	70	1.0	67	2.0	41	1.0
Methylene Chloride	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,1-Dichloroethane	1.0	ND	2.0	ND	3.0	1.5	1.0	ND	2.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Chloroform	1.0	257	2.0	151	3.0	92	1.0	188	2.0	ND	1.0
1,1,1-Trichloroethane	1.0	3.3	2.0	16	3.0	5.5	1.0	10	2.0	ND	1.0
Carbon Tetrachloride	1.0	136	2.0	352	3.0	162	1.0	260	2.0	ND	1.0
Benzene	1.0	ND	2.0	ND	3.0	ND	1.0	7.4	2.0	2.2	1.0
1,2-Dichloroethane	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Trichloroethene	1.0	4.0	2.0	66	3.0	149	1.0	127	2.0	ND	1.0
1,2-Dichloropropane	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Toluene	1.0	41	2.0	64	3.0	39	1.0	2.7	2.0	ND	1.0
t-1,3-Dichloropropene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Tetrachloroethene	1.0	2.8	2.0	20	3.0	11	1.0	26	2.0	ND	1.0
1,2-Dibromoethane	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Chlorobenzene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Ethylbenzene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
p,&m-Xylene	1.0	5.0	2.0	7.3	3.0	1.4	1.0	4.1	2.0	ND	1.0
o-Xylene	1.0	2.1	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Styrene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	4.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	4.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	4.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	4.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
Hexachlorobutadiene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0

MDL = Method Detection Limit  
 ND= Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson  
 for Mark Johnson  
 Air Toxics Operations Manager

Date 04-08-02

The cover letter is an integral part of this analytical report





APR 28 2002

04/17/2002

Geofon, Inc.  
ATTN: Leo W. Williamson  
22632 Golden Springs Dr., Suite 270  
Diamond Bar, CA 91765

Project Reference: JPL #1  
Lab Number: A2040905-01/06

Enclosed are results for sample(s) received 4/09/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 4/16/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





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 <b>ED W. WILLIAMSON</b>		LAB COORDINATOR'S PHONE 909-396-7662		LAB COORDINATOR'S FAX 909-396-1455		LABORATORY SERVICE ID		LABORATORY CONTACT <b>TOM DE LA OSSA</b>		MAIL REPORT (COMPANY NAME) <b>GEOFON INC</b>	
PROJECT NAME <b>SPL #1</b>		PROJECT LOCATION <b>SPL - VE1</b>		PROJECT NUMBER <b>04-4304-480</b>		LABORATORY PHONE <b>626-964-4032</b>		LABORATORY FAX <b>626-964-5832</b>		RECIPIENT NAME <b>ED W. WILLIAMSON</b>	
PROJECT CONTACT <b>ED W. WILLIAMSON</b>		PROJECT PHONE NUMBER <b>714-920-8438</b>		PROJECT FAX <b>N/A</b>		LABORATORY ADDRESS <b>18501 E. GALE AVE #130</b>		LABORATORY ADDRESS <b>18501 E. GALE AVE #130</b>		#270	
PROJECT ADDRESS <b>4800 OAKGROVE DR PASADENA CA</b>		CITY, STATE AND ZIP CODE <b>PASADENA CA</b>		CLIENT <b>US NAVY SWDIV</b>		CITY, STATE AND ZIP CODE <b>CITY OF INDUSTRY CA 91748</b>		CITY, STATE AND ZIP CODE <b>DIAMOND BAR CA 91765</b>			
PROJECT MANAGER <b>ASRAR FATEEM</b>		PROJECT MANAGER'S PHONE <b>909-396-7662</b>		PROJECT MANAGER'S FAX <b>909-396-1455</b>							

Item	Sample Identifier	Matrix			Date	Time	Preserved	# of Cont	OC Level	T.A.T	Analyzes	Comments
1	T4-VE1-INN-17-01	AIR	4/9/02	1100	None	1*	3	None	X			1 * 1 TENAR BAG SCREEN - INFLUENT -BE
2	T4-VE1-BEF-17-02			1105					X			SCREEN - EFFLUENT OC
3	T4-VE1-PIEFF-17-03			1110					X			SCREEN - PRIMARY 1 EFFLUENT-05
4	T4-VE1-P20PF-17-04			1115					X			SCREEN - PRIMARY 2 EFFLUENT-04
5	T4-VE1-S10PF-17-05			1120					X			SCREEN - SECONDARY 1 EFFLUENT-05
6	T4-VE1-S20PF-17-06			1125					X			SCREEN - SECONDARY 2 EFFLUENT-06
7												
8												
9												
10												

SAMPLES COLLECTED BY <i>[Signature]</i>		COURIER AND AIR BILL NUMBER	
REIMBURSED BY <i>[Signature]</i>		RECEIVED BY <i>[Signature]</i>	
		DATE 4/10/02 12:50	
		TIME	
		COOLER TEMPERATURE UPON RECEIPT	
		SAMPLE'S CONDITION UPON RECEIPT	

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

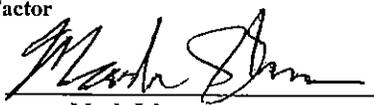
Client: Geofon Incorporated  
 Attn: Leo W. Williamson

Client's Project: JPL #1  
 Date Received: 04/09/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:		A2040905-01		A2040905-02		A2040905-03		A2040905-04		A2040905-05	
Client Sample I.D.:		T4-VE1-INN-17-01		T4-VE1-EFF-17-02		T4-VE1-PIEFF-17-03		T4-VE1-P2EFF-17-04		T4-VE1-S1EFF-17-05	
Date Sampled:		04/09/02		04/09/02		04/09/02		04/09/02		04/09/02	
Date Analyzed:		04/10/02		04/10/02		04/10/02		04/10/02		04/10/02	
QC Batch No:		020410MS2A1		020410MS2A1		020410MS2A1		020410MS2A1		020410MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	3.8	1.0	8.0	1.0	4.7	1.0	3.9	1.0	5.2	1.0
Chloromethane	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	76	1.0	176	1.0	132	1.0	107	1.0	134	1.0
1,1-Dichloroethene	1.0	44	1.0	ND	1.0	7.1	1.0	19	1.0	ND	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	65	1.0	118	1.0	128	1.0	112	1.0	95	1.0
Methylene Chloride	1.0	ND	1.0	1.5	1.0	ND	1.0	ND	1.0	1.2	1.0
1,1-Dichloroethane	1.0	1.7	1.0	ND	1.0	ND	1.0	1.3	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	1.0	191	1.0	ND	1.0	4.7	1.0	18	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	11	1.0	ND	1.0	ND	1.0	1.4	1.0	ND	1.0
Carbon Tetrachloride	1.0	250	1.0	ND	1.0	5.5	1.0	22	1.0	ND	1.0
Benzene	1.0	4.2	1.0	1.6	1.0	19	1.0	ND	1.0	15	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	130	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	1.0	1.2	1.0	ND	1.0	6.0	1.0	9.7	1.0	26	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	26	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	ND	1.0	ND	1.0	1.4	1.0	1.0	1.0	3.0	1.0
o-Xylene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	3.4	1.0
Styrene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	3.7	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit  
 ND= Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By:   
 Mark Johnson  
 Air Toxics Operations Manager

Date 4-16-02

The cover letter is an integral part of this analytical report



Client: Geofon Incorporated  
 Attn: Leo W. Williamson

Client's Project: JPL #1  
 Date Received: 04/09/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:	A2040905-06		
Client Sample I.D.:	T4-VE1-S2EFF-17-06		
Date Sampled:	04/09/02		
Date Analyzed:	04/10/02		
QC Batch No:	020410MS2A1		
Analyst Initials:	SC		
Dilution Factor:	1.0		
ANALYTE	MDL	Result	RL
Dichlorodifluoromethane (12)	1.0	5.3	1.0
Chloromethane	2.0	ND	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	1.0
Vinyl Chloride	1.0	1.6	1.0
Bromomethane	1.0	ND	1.0
Chloroethane	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	116	1.0
1,1-Dichloroethene	1.0	ND	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	96	1.0
Methylene Chloride	1.0	ND	1.0
1,1-Dichloroethane	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0
Chloroform	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	ND	1.0
Carbon Tetrachloride	1.0	ND	1.0
Benzene	1.0	ND	1.0
1,2-Dichloroethane	1.0	ND	1.0
Trichloroethene	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0
Toluene	1.0	3.4	1.0
t-1,3-Dichloropropene	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0
Tetrachloroethene	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0
p,&m-Xylene	1.0	1.2	1.0
o-Xylene	1.0	ND	1.0
Styrene	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0

MDL = Method Detection Limit  
 ND= Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Air Toxics Operations Manager

Date 4-16-02

The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020410MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	04/10/02		04/10/02		04/10/02						
Data File ID:	10APR006.D		10APR004.D		10APR005.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0		Limits				
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.7	107	10.9	109	2.0	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.3	113	12.2	122	7.3	70	130	30	Pass
Trichloroethene	0.0	10.0	8.0	80	8.2	82	3.5	70	130	30	Pass
Toluene	0.0	10.0	8.8	88	8.9	89	1.5	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	7.8	78	8.2	82	5.0	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By:



Mark Johnson

Air Toxics Operations Manager

Date:

4-16-02

The cover letter is an integral part of this analytical report



MAY 06 2002

04/30/2002

Geofon, Inc.  
ATTN: Leo W. Williamson  
22632 Golden Springs Dr., Suite 270  
Diamond Bar, CA 91765

Project Reference: JPL #1  
Lab Number: A2041502-01/05

Enclosed are results for sample(s) received 4/15/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 4/22/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





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

### CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

Item	Sample Identifier	Matrix		Date	Time	Preserved	# of Cont	OC Level	T.A.T.	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)	LABORATORY PHONE	LABORATORY ADDRESS	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME	ADDRESS	CITY, STATE AND ZIP CODE	CITY, STATE AND ZIP CODE	COMMENTS
		LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX																		
1	TY-VE1-A-18-01	AIR	4/15/02	1130	None	*	3	NORM	X		JOAN DE LA OSA	GEOFOR INC	626-964-4032	626-964-5832	626-964-4032	LEO W. WILLIAMSON	22632 GOLDEN SPRINGS DR	DIA MONS BAR CA 91765		Comments #2041502	
2	TY-VE1-B-18-02			1135					X												
3	TY-VE1-C-18-03			1140					X												
4	TY-VE1-INV-18-04			1145					X												
5	TY-VE1-EFF-18-05			1150					X												
6																					
7																					
8																					
9																					
10																					

SAMPLES COLLECTED BY: *[Signature]* COURIER AND AIR BILL NUMBER: *[Blank]* DATE: 4/15/02 TIME: 12:05  
 RELINQUISHED BY: *[Signature]* SAMPLE'S CONDITION UPON RECEIPT: *[Blank]*

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

Client's Project: JPL #1  
 Date Received: 04/15/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:	A2041502-01	A2041502-02	A2041502-03	A2041502-04	A2041502-05
Client Sample I.D.:	T4-VE1-A-18-01	T4-VE1-B-18-02	T4-VE1-C-18-03	T4-VE1-INN-18-04	T4-VE1-EFF-18-05
Date Sampled:	04/15/02	04/15/02	04/15/02	04/15/02	04/15/02
Date Analyzed:	04/16/02	04/16/02	04/16/02	04/16/02	04/16/02
QC Batch No:	020416MS2A1	020416MS2A1	020416MS2A1	020416MS2A1	020416MS2A1
Analyst Initials:	SC	SC	SC	SC	SC
Dilution Factor:	1.0	2.0	1.0	2.0	1.0

ANALYTE	MDL	A2041502-01		A2041502-02		A2041502-03		A2041502-04		A2041502-05	
		Result	RL								
Dichlorodifluoromethane (12)	1.0	5.4	1.0	4.8	2.0	1.1	1.0	4.0	2.0	2.9	1.0
Chloromethane	2.0	ND	2.0	ND	4.0	2.1	2.0	ND	4.0	ND	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	2.0	1.0	1.0	ND	2.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Trichlorofluoromethane (11)	1.0	8.4	1.0	41	2.0	130	1.0	71	2.0	54	1.0
1,1-Dichloroethene	1.0	11	1.0	65	2.0	26	1.0	43	2.0	ND	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	12	1.0	75	2.0	77	1.0	65	2.0	19	1.0
Methylene Chloride	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,1-Dichloroethane	1.0	ND	1.0	ND	2.0	1.6	1.0	ND	2.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Chloroform	1.0	227	1.0	120	2.0	99	1.0	169	2.0	ND	1.0
1,1,1-Trichloroethane	1.0	3.5	1.0	16	2.0	6.0	1.0	11	2.0	ND	1.0
Carbon Tetrachloride	1.0	113	1.0	292	2.0	177	1.0	243	2.0	ND	1.0
Benzene	1.0	ND	1.0	ND	2.0	ND	1.0	3.5	2.0	1.2	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Trichloroethene	1.0	15	1.0	52	2.0	165	1.0	121	2.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Toluene	1.0	23	1.0	29	2.0	18	1.0	ND	2.0	ND	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Tetrachloroethene	1.0	3.0	1.0	16	2.0	12	1.0	23	2.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
p,&m-Xylene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
o-Xylene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Styrene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	4.0	ND	2.0	ND	4.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	4.0	ND	2.0	ND	4.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	4.0	ND	2.0	ND	4.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	4.0	ND	2.0	ND	4.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0

MDL = Method Detection Limit  
 ND= Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By:   
 Mark Johnson  
 Air Toxics Operations Manager

Date 4-22-02

The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020416MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	04/16/02		04/16/02		04/16/02						
Data File ID:	16APR005.D		16APR003.D		16APR004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0		Limits				
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.5	105	10.9	109	3.3	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.8	118	12.1	121	1.8	70	130	30	Pass
Trichloroethene	0.0	10.0	8.1	81	8.1	81	0.2	70	130	30	Pass
Toluene	0.0	10.0	9.0	90	8.9	89	1.2	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.7	87	8.7	87	0.1	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By:



Mark Johnson

Air Toxics Operations Manager

Date:

4-22-02

The cover letter is an integral part of this analytical report



MAY 06 2002

04/30/2002

Geofon, Inc.  
ATTN: Leo W. Williamson  
22632 Golden Springs Dr., Suite 270  
Diamond Bar, CA 91765

Project Reference: JPL #1  
Lab Number: A2042203-01

Enclosed are results for sample(s) received 4/22/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 4/30/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





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 LAB COORDINATOR LEO W. WILLIAMSON		LAB COORDINATOR'S PHONE 909-396-7662		LAB COORDINATOR'S FAX 909-396-1455		LABORATORY SERVICE ID		LABORATORY CONTACT JOAN DE CAOSSA		MAIL REPORT (COMPANY NAME) GEOFON INC	
PROJECT NAME JPL #1		PROJECT LOCATION JPL - VE1		PROJECT NUMBER 04-4304-480		LABORATORY PHONE 626-964-4032		LABORATORY FAX 626-964-5837		RECIPIENT NAME LEO W. WILLIAMSON	
PROJECT CONTACT LEO W. WILLIAMSON		PROJECT PHONE NUMBER 714-920-8438		PROJECT FAX N/A		LABORATORY ADDRESS 18501 E. CALE AVE #130		LABORATORY FAX		ADDRESS 22632 GOLDEN SPRINGS DR	
PROJECT ADDRESS 4800 OAKGROVE DR		CITY, STATE AND ZIP CODE PASADENA CA		CLIENT US NAVY SWD 1 V		LABORATORY ADDRESS CITY OF INDUSTRY CA 91748		LABORATORY FAX		CITY, STATE AND ZIP CODE DIAMOND BAR CA 91765	
PROJECT MANAGER ASLAR FAHREEM		PROJECT MANAGER'S PHONE 909-396-7662		PROJECT MANAGER'S FAX 909-396-1455		LABORATORY ADDRESS CITY OF INDUSTRY CA 91748		LABORATORY FAX		CITY, STATE AND ZIP CODE DIAMOND BAR CA 91765	
Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	TAT	Analyses	Comments	
1	14-VE1-11N-19-01	AIR	4/22/02	1130	NONE	1*	3	NORM	X	1 * L TENDLAR BAG SCREEN - INFLUENT	
2	14-VE1-6FF-19-02	AIR	4/24/02	1135	NONE	1*	3	NORM	X	SCREEN - EFFLUENT	
3											
4											
5											
6											
7											
8											
9											
10											

SAMPLES COLLECTED BY: *Leo Williamson* COURIER AND AIR BILL NUMBER: \_\_\_\_\_ COOLER TEMPERATURE UPON RECEIPT: \_\_\_\_\_

RELINQUISHED BY: *Leo Williamson* RECEIVED BY: *[Signature]* DATE: *4/24/02* TIME: *12:35*

SAMPLE'S CONDITION UPON RECEIPT: \_\_\_\_\_

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

Client: Geofon Incorporated  
 Attn: Leo W. Williamson

Client's Project: JPL #1  
 Date Received: 04/22/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:	A2042203-01		A2042203-02						
Client Sample I.D.:	T4-VE1-INN-19-01		T4-VE1-EFF-19-02						
Date Sampled:	04/22/02		04/22/02						
Date Analyzed:	04/24/02		04/24/02						
QC Batch No:	020424MS2A1		020424MS2A1						
Analyst Initials:	SC		SC						
Dilution Factor:	1.0		1.0						
ANALYTE	MDL	Result	RL	Result	RL				
Dichlorodifluoromethane (12)	1.0	4.6	1.0	8.9	1.0				
Chloromethane	2.0	ND	2.0	ND	2.0				
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0				
Vinyl Chloride	1.0	ND	1.0	ND	1.0				
Bromomethane	1.0	ND	1.0	ND	1.0				
Chloroethane	1.0	ND	1.0	ND	1.0				
Trichlorofluoromethane (11)	1.0	61	1.0	162	1.0				
1,1-Dichloroethene	1.0	36	1.0	ND	1.0				
1,1,2-CI 1,2,2-F ethane (113)	1.0	46	1.0	114	1.0				
Methylene Chloride	1.0	1.3	1.0	ND	1.0				
1,1-Dichloroethane	1.0	1.6	1.0	ND	1.0				
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0				
Chloroform	1.0	132	1.0	ND	1.0				
1,1,1-Trichloroethane	1.0	8.7	1.0	ND	1.0				
Carbon Tetrachloride	1.0	199	1.0	ND	1.0				
Benzene	1.0	4.1	1.0	4.8	1.0				
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0				
Trichloroethene	1.0	133	1.0	ND	1.0				
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0				
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0				
Toluene	1.0	2.1	1.0	ND	1.0				
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0				
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0				
Tetrachloroethene	1.0	23	1.0	ND	1.0				
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0				
Chlorobenzene	1.0	ND	1.0	ND	1.0				
Ethylbenzene	1.0	ND	1.0	ND	1.0				
p,&m-Xylene	1.0	1.7	1.0	ND	1.0				
o-Xylene	1.0	ND	1.0	ND	1.0				
Styrene	1.0	ND	1.0	ND	1.0				
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0				
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0				
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0				
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0				
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0				
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0				
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0				
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0				

MDL = Method Detection Limit  
 ND= Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Air Toxics Operations Manager

Date 4-30-02

The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020424MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	04/24/02		04/24/02		04/24/02						
Data File ID:	24APR005.D		24APR003.D		24APR004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0		Limits				
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/Fail
1,1-Dichloroethene	0.0	10.0	9.7	97	9.8	98	1.3	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.5	95	9.3	93	1.6	70	130	30	Pass
Trichloroethene	0.0	10.0	9.6	96	9.1	91	5.6	70	130	30	Pass
Toluene	0.0	10.0	9.6	96	9.2	92	4.2	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	10.5	105	10.2	102	3.3	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: \_\_\_\_\_



Mark Johnson

Air Toxics Operations Manager

Date: \_\_\_\_\_

4-30-02

The cover letter is an integral part of this analytical report



MAY 14 2002 07

05/09/2002

Geofon, Inc.  
ATTN: Leo W. Williamson  
22632 Golden Springs Dr., Suite 270  
Diamond Bar, CA 91765

Project Reference: JPL #1  
Lab Number: A2042905-01/05

Enclosed are results for sample(s) received 4/29/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 5/09/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





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

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

Item	Sample Identifier	Matrix		Date	Time	Preserved	# of Cont.	OC Level	T.A.T	Analyzes	LABORATORY SERVICE ID	LABORATORY CONTACT		MAIL REPORT (COMPANY NAME)
		LABORATORY PHONE	LABORATORY FAX									LABORATORY PHONE	LABORATORY FAX	
GEOFON LAB COORDINATOR: ED W. WILLIAMSON 909-396-7662 PROJECT NAME: SPL #1 PROJECT CONTACT: ED W. WILLIAMSON 714-920-8438 PROJECT ADDRESS: PASADENA CA PROJECT MANAGER: ASHAR FANTEEM 909-396-7662														
LAB COORDINATOR'S PHONE: 909-396-7662 LAB COORDINATOR'S FAX: 909-396-1455 PROJECT LOCATION: SPL-VE1 PROJECT NUMBER: 04-4304-480 PROJECT FAX: N/A CLIENT: US NAVY SWDIN PROJECT MANAGER'S PHONE: 909-396-7662 PROJECT MANAGER'S FAX: 909-396-1455														
1	T4-VE1-A-20-01	AIR	4/29/02	1110	NONE	1	3	NONE		X			TONDE LA OSA	GEOFON INC
2	T4-VE1-B-20-02			1115						X			626-964-4032	ED W. WILLIAMSON #270
3	T4-VE1-C-20-03			1120						X			18501 E. GALE AVE #130	22632 GOLDEN SPRINGS DR
4	T4-VE1-1NN-20-04			1125						X			CITY OF INDUSTRIAL CA 91748	DIAMOND BAR CA 91765
5	T4-VE1-EFF-20-05			1130						X				
6														
7														
8														
9														
10														

Comments: A2042905

1 PL TDD LAB BAG -01  
SCREEN - A  
SCREEN - B  
SCREEN - C  
SCREEN - INFLUENT -04  
SCREEN - EFFLUENT -05

SAMPLES COLLECTED BY: [Signature] COURIER AND AIR BILL NUMBER:

RELINQUISHED BY: [Signature] RECEIVED BY: [Signature]

DATE: 4/29/02 TIME: 1220

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

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

Client: Geofon Incorporated  
 Attn: Leo W. Williamson

Client's Project: JPL #1  
 Date Received: 04/29/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:	A2042905-01		A2042905-02		A2042905-03		A2042905-04		A2042905-05		
Client Sample I.D.:	T4-VE1-A-20-01		T4-VE1-B-20-02		T4-VE1-C-20-03		T4-VE1-INN-20-04		T4-VE1-EFF-20-05		
Date Sampled:	04/29/02		04/29/02		04/29/02		04/29/02		04/29/02		
Date Analyzed:	05/02/02		05/02/02		05/02/02		05/02/02		05/02/02		
QC Batch No:	020501MS2A2		020501MS2A2		020501MS2A2		020501MS2A2		020501MS2A2		
Analyst Initials:	SC		SC		SC		SC		SC		
Dilution Factor:	1.0		1.0		1.0		1.0		1.0		
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	3.6	1.0	ND	1.0	ND	1.0	3.7	1.0	7.7	1.0
Chloromethane	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	1.1	1.0	25	1.0	113	1.0	62	1.0	133	1.0
1,1-Dichloroethene	1.0	5.4	1.0	60	1.0	20	1.0	36	1.0	ND	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	5.1	1.0	59	1.0	50	1.0	46	1.0	91	1.0
Methylene Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	1.1	1.0
1,1-Dichloroethane	1.0	ND	1.0	2.0	1.0	1.5	1.0	1.5	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	1.0	166	1.0	102	1.0	71	1.0	125	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	2.4	1.0	14	1.0	4.3	1.0	8.6	1.0	ND	1.0
Carbon Tetrachloride	1.0	87	1.0	250	1.0	132	1.0	192	1.0	ND	1.0
Benzene	1.0	ND	1.0	ND	1.0	ND	1.0	4.1	1.0	2.5	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	2.1	1.0	72	1.0	161	1.0	135	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	1.0	26	1.0	37	1.0	21	1.0	2.5	1.0	1.7	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	2.0	1.0	16	1.0	9.6	1.0	21	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	1.4	1.0	1.1	1.0	1.5	1.0	ND	1.0	ND	1.0
o-Xylene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Styrene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit  
 ND= Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Air Toxics Operations Manager

Date 5-9-02

The cover letter is an integral part of this analytical report

## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020502MS2A2

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	05/02/02		05/01/02		05/02/02						
Data File ID:	01MAY028.D		01MAY026.D		01MAY027.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0						
ANALYTE		Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Limits		Pass/ Fail
								Low %Rec	High %Rec	Max. RPD	
1,1-Dichloroethene	0.0	10.0	10.3	103	10.2	102	0.6	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.2	102	9.9	99	2.7	70	130	30	Pass
Trichloroethene	0.0	10.0	10.3	103	10.2	102	0.9	70	130	30	Pass
Toluene	0.0	10.0	9.9	99	10.0	100	1.2	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	10.9	109	10.6	106	2.2	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson

Mark Johnson  
Air Toxics Operations Manager

Date: 5-9-02

The cover letter is an integral part of this analytical report



**MAY 2002**

---

05/13/2002

Geofon, Inc.  
ATTN: Leo W. Williamson  
22632 Golden Springs Dr., Suite 270  
Diamond Bar, CA 91765

Project Reference: JPL #1  
Lab Number: A2050602-01/06

Enclosed are results for sample(s) received 5/06/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 5/13/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





Client: Geofon Incorporated  
 Attn: Leo W. Williamson

Client's Project: JPL #1  
 Date Received: 05/06/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:	A2050602-01		A2050602-02		A2050602-03		A2050602-04		A2050602-05		
Client Sample I.D.:	T4-VE1-INN-21-01		T4-VE1-EFF-21-02		T4-VE1-P1EFF-21-03		T4-VE1-P2EFF-21-04		T4-VE1-S1EFF-21-05		
Date Sampled:	05/06/02		05/06/02		05/06/02		05/06/02		05/06/02		
Date Analyzed:	05/07/02		05/07/02		05/07/02		05/07/02		05/07/02		
QC Batch No:	020506MS2A2		020506MS2A2		020506MS2A2		020506MS2A2		020506MS2A2		
Analyst Initials:	SC		SC		SC		SC		SC		
Dilution Factor:	1.0		1.0		1.0		1.0		1.0		
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	3.0	1.0	4.4	1.0	3.9	1.0	3.8	1.0	3.4	1.0
Chloromethane	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	57	1.0	68	1.0	51	1.0	71	1.0	63	1.0
1,1-Dichloroethene	1.0	33	1.0	ND	1.0	16	1.0	25	1.0	ND	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	43	1.0	36	1.0	30	1.0	28	1.0	35	1.0
Methylene Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	1.5	1.0	ND	1.0	ND	1.0	1.1	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	1.0	119	1.0	ND	1.0	26	1.0	53	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	8.2	1.0	ND	1.0	1.0	1.0	2.3	1.0	ND	1.0
Carbon Tetrachloride	1.0	201	1.0	ND	1.0	26	1.0	63	1.0	ND	1.0
Benzene	1.0	2.7	1.0	3.6	1.0	18	1.0	ND	1.0	11	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	141	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	1.0	ND	1.0	1.4	1.0	3.7	1.0	5.2	1.0	7.6	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	21	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p,p,m-Xylene	1.0	ND	1.0	ND	1.0	1.2	1.0	ND	1.0	1.6	1.0
o-Xylene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	2.0	1.0
Styrene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	3.6	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit  
 ND= Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By:   
 Mark Johnson  
 Air Toxics Operations Manager

Date 5-13-02

The cover letter is an integral part of this analytical report



Client: Geofon Incorporated  
 Attn: Leo W. Williamson

Client's Project: JPL #1  
 Date Received: 05/06/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:	A2050602-06			
Client Sample I.D.:	T4-VE1-S2EFF-21-06			
Date Sampled:	05/06/02			
Date Analyzed:	05/07/02			
QC Batch No:	020506MS2A2			
Analyst Initials:	SC			
Dilution Factor:	1.0			

ANALYTE	MDL	Result	RL						
Dichlorodifluoromethane (12)	1.0	4.0	1.0						
Chloromethane	2.0	ND	2.0						
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	1.0						
Vinyl Chloride	1.0	ND	1.0						
Bromomethane	1.0	ND	1.0						
Chloroethane	1.0	ND	1.0						
Trichlorofluoromethane (11)	1.0	55	1.0						
1,1-Dichloroethene	1.0	ND	1.0						
1,1,2-CI 1,2,2-F ethane (113)	1.0	34	1.0						
Methylene Chloride	1.0	ND	1.0						
1,1-Dichloroethane	1.0	ND	1.0						
c-1,2-Dichloroethene	1.0	ND	1.0						
Chloroform	1.0	ND	1.0						
1,1,1-Trichloroethane	1.0	ND	1.0						
Carbon Tetrachloride	1.0	ND	1.0						
Benzene	1.0	ND	1.0						
1,2-Dichloroethane	1.0	ND	1.0						
Trichloroethene	1.0	ND	1.0						
1,2-Dichloropropane	1.0	ND	1.0						
c-1,3-Dichloropropene	1.0	ND	1.0						
Toluene	1.0	2.5	1.0						
t-1,3-Dichloropropene	1.0	ND	1.0						
1,1,2-Trichloroethane	1.0	ND	1.0						
Tetrachloroethene	1.0	ND	1.0						
1,2-Dibromoethane	1.0	ND	1.0						
Chlorobenzene	1.0	ND	1.0						
Ethylbenzene	1.0	ND	1.0						
p,&m-Xylene	1.0	ND	1.0						
o-Xylene	1.0	ND	1.0						
Styrene	1.0	ND	1.0						
1,1,2,2-Tetrachloroethane	2.0	ND	2.0						
1,3,5-Trimethylbenzene	2.0	ND	2.0						
1,2,4-Trimethylbenzene	2.0	ND	2.0						
1,3-Dichlorobenzene	1.0	ND	1.0						
1,4-Dichlorobenzene	1.0	ND	1.0						
1,2-Dichlorobenzene	1.0	ND	1.0						
1,2,4-Trichlorobenzene	2.0	ND	2.0						
Hexachlorobutadiene	1.0	ND	1.0						

MDL = Method Detection Limit  
 ND= Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Air Toxics Operations Manager

Date 5-13-02

The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020506MS2A2

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	05/07/02		05/07/02		05/07/02						
Data File ID:	06MAY032.D		06MAY030.D		06MAY031.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0		Limits				
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	9.5	95	10.0	100	5.6	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.7	97	9.8	98	1.6	70	130	30	Pass
Trichloroethene	0.0	10.0	10.1	101	10.6	106	4.8	70	130	30	Pass
Toluene	0.0	10.0	9.9	99	10.3	103	4.0	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	11.1	111	11.0	110	1.0	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson

Mark Johnson

Air Toxics Operations Manager

Date: 5-13-02

The cover letter is an integral part of this analytical report



05/28/2002

Geofon, Inc.  
ATTN: Leo W. Williamson  
22632 Golden Springs Dr., Suite 270  
Diamond Bar, CA 91765

Project Reference: JPL #1  
Lab Number: A2051503-01/05

Enclosed are results for sample(s) received 5/15/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria. All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 5/23/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





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 LEO W. WILLIAMSON PROJECT NAME JPL #1		LAB COORDINATOR'S PHONE 909-396-7662		LAB COORDINATOR'S FAX 909-396-1455		LABORATORY SERVICE ID		LABORATORY CONTACT JOAN DE LA Ossa		MAIL REPORT (COMPANY NAME) GEOFON INC	
PROJECT LOCATION JPL - VE1		PROJECT NUMBER 04-4304-480		PROJECT FAX N/A		LABORATORY PHONE 626-964-4032		LABORATORY FAX 626-964-5832		RECIPIENT NAME LEO W. WILLIAMSON	
PROJECT CONTACT LEO W WILLIAMSON		PROJECT PHONE NUMBER 714-920-8438		CLIENT US NAVY SWDIV		LABORATORY ADDRESS 18501 E. GALE AVE #130		LABORATORY FAX		ADDRESS 22632 GOLDEN SPRINGS DR #270	
PROJECT ADDRESS 4800 OAKGROVE DR		CITY, STATE AND ZIP CODE PASADENA CA		PROJECT MANAGER'S PHONE 909-396-7662		CITY, STATE AND ZIP CODE CITY OF INDUSTRY CA 91748		LABORATORY ADDRESS		CITY, STATE AND ZIP CODE DIAMOND BAR CA 91765	
PROJECT MANAGER ASRAR PATHEBY		PROJECT MANAGER'S PHONE 909-396-7662		PROJECT MANAGER'S FAX 909-396-1455		LABORATORY ADDRESS		LABORATORY FAX		CITY, STATE AND ZIP CODE	
Sample Identifier		Date		Time		Preserved		QC Level		T.A.T	
Item		Matrix		Time		# of Cont		OC Level		T.A.T	
1	T4-VE1-A-22-01	AIR	5/15/02	1130	NONE	1	3	NORM	X		1 * L TADLAL BAG
2	T4-VE1-B-22-02			1135					X		SCREEN - A
3	T4-VE1-C-22-03			1140					X		SCREEN - B
4	T4-VE1-INN-22-04			1145					X		SCREEN - C
5	T4-VE1-EFF-22-05			1150					X		SCREEN - INFLUENT 04
6											SCREEN - EFFLUENT 05
7											
8											
9											
10											

Comments A205/503

Analyses  
TOP-14

COOLER TEMPERATURE UPON RECEIPT  
SAMPLE'S CONDITION UPON RECEIPT

COURIER AND AIR BILL NUMBER  
RECEIVED BY

DATE  
5/13/02

TIME  
1:20

Client: Geofon Incorporated  
 Attn: Leo W. Williamson

Client's Project: JPL #1  
 Date Received: 05/15/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:	A2051503-01	A2051503-02	A2051503-03	A2051503-04	A2051503-05						
Client Sample I.D.:	T4-VE1-A-22-01	T4-VE1-B-22-02	T4-VE1-C-22-03	T4-VE1-INN-22-04	T4-VE1-EFF-22-05						
Date Sampled:	05/15/02	05/15/02	05/15/02	05/15/02	05/15/02						
Date Analyzed:	05/16/02	05/16/02	05/16/02	05/16/02	05/16/02						
QC Batch No:	020516MS2A1	020516MS2A1	020516MS2A1	020516MS2A1	020516MS2A1						
Analyst Initials:	SC	SC	SC	SC	SC						
Dilution Factor:	1.0	2.5	1.0	1.0	1.0						
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	4.9	1.0	5.3	2.5	ND	1.0	3.8	1.0	5.2	1.0
Chloromethane	2.0	ND	2.0	ND	5.0	2.8	2.0	ND	2.0	ND	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	1.1	1.0	ND	2.5	1.5	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	2.5	1.8	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	1.2	1.0	34	2.5	104	1.0	52	1.0	93	1.0
1,1-Dichloroethene	1.0	8.2	1.0	60	2.5	19	1.0	35	1.0	ND	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	5.0	1.0	60	2.5	48	1.0	42	1.0	52	1.0
Methylene Chloride	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	ND	1.0	ND	2.5	1.5	1.0	1.4	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Chloroform	1.0	153	1.0	104	2.5	73	1.0	134	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	2.3	1.0	14	2.5	4.2	1.0	8.7	1.0	ND	1.0
Carbon Tetrachloride	1.0	87	1.0	286	2.5	145	1.0	205	1.0	ND	1.0
Benzene	1.0	ND	1.0	ND	2.5	ND	1.0	3.6	1.0	2.6	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	2.8	1.0	74	2.5	190	1.0	135	1.0	74	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Toluene	1.0	19	1.0	30	2.5	14	1.0	1.3	1.0	ND	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	1.7	1.0	16	2.5	12	1.0	21	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	ND	1.0	5.7	2.5	1.1	1.0	ND	1.0	ND	1.0
o-Xylene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Styrene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	5.0	ND	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	5.0	ND	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	5.0	ND	2.0	ND	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	5.0	ND	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit  
 ND= Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By:   
 Mark Johnson  
 Air Toxics Operations Manager

Date 5-23-02

The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020516MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	05/16/02		05/16/02		05/16/02						
Data File ID:	16MAY006.D		16MAY004.D		16MAY005.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0						
							Limits				
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.3	103	10.0	100	2.6	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.4	104	9.7	97	6.7	70	130	30	Pass
Trichloroethene	0.0	10.0	10.7	107	10.1	101	5.2	70	130	30	Pass
Toluene	0.0	10.0	10.2	102	9.9	99	2.4	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	11.4	114	11.6	116	2.1	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson


Mark Johnson

Air Toxics Operations Manager

Date: 5-23-02

The cover letter is an integral part of this analytical report



JUN 05 2002

05/29/2002

Geofon, Inc.  
ATTN: Leo W. Williamson  
22632 Golden Springs Dr., Suite 270  
Diamond Bar, CA 91765

Project Reference: JPL #1  
Lab Number: A2052105-01/02

Enclosed are results for sample(s) received 5/21/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria. All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 5/28/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





Client: Geofon Incorporated  
 Attn: Leo W. Williamson

Client's Project: JPL #1  
 Date Received: 05/21/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:	A2052105-01	A2052105-02		
Client Sample I.D.:	T4-VE1-INN-23-01	T4-VE1-EFF-23-02		
Date Sampled:	05/21/02	05/21/02		
Date Analyzed:	05/22/02	05/22/02		
QC Batch No:	020522MS2A1	020522MS2A1		
Analyst Initials:	SC	SC		
Dilution Factor:	1.0	1.0		

ANALYTE	MDL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	4.0	1.0	9.3	1.0
Chloromethane	2.0	ND	2.0	ND	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	53	1.0	128	1.0
1,1-Dichloroethene	1.0	32	1.0	ND	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	35	1.0	79	1.0
Methylene Chloride	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	1.4	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0
Chloroform	1.0	129	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	8.3	1.0	ND	1.0
Carbon Tetrachloride	1.0	197	1.0	ND	1.0
Benzene	1.0	3.3	1.0	2.1	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	124	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0
Toluene	1.0	1.6	1.0	ND	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	18	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	ND	1.0	ND	1.0
o-Xylene	1.0	ND	1.0	ND	1.0
Styrene	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit  
 ND= Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By:   
 Mark Johnson  
 Air Toxics Operations Manager

Date 5-28-02

The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020522MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	05/22/02		05/22/02		05/22/02						
Data File ID:	22MAY005.D		22MAY003.D		22MAY004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0		Limits				
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/Fail
1,1-Dichloroethene	0.0	10.0	9.9	99	9.6	96	3.1	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.9	99	9.4	94	5.4	70	130	30	Pass
Trichloroethene	0.0	10.0	9.7	97	9.5	95	2.1	70	130	30	Pass
Toluene	0.0	10.0	9.5	95	9.7	97	1.9	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	11.1	111	11.0	110	1.3	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By:

  
 Mark Johnson

Air Toxics Operations Manager

Date:

5-28-02

The cover letter is an integral part of this analytical report



7 JUN 12 2002

06/10/2002

Geofon, Inc.  
ATTN: Leo W. Williamson  
22632 Golden Springs Dr., Suite 270  
Diamond Bar, CA 91765

Project Reference: JPL #1  
Lab Number: A2052804-01/05

Enclosed are results for sample(s) received 5/28/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria. All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 6/05/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





Client's Project: JPL #1  
 Date Received: 05/28/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:	A2052804-01	A2052804-02	A2052804-03	A2052804-04	A2052804-05						
Client Sample I.D.:	T4-VE1-A-24-01	T4-VE1-B-24-02	T4-VE1-C-24-03	T4-VE1-INN-24-04	T4-VE1-EFF-24-05						
Date Sampled:	05/28/02	05/28/02	05/28/02	05/28/02	05/28/02						
Date Analyzed:	05/30/02	05/30/02	05/30/02	05/30/02	05/30/02						
QC Batch No:	020530MS2A1	020530MS2A1	020530MS2A1	020530MS2A1	020530MS2A1						
Analyst Initials:	SC	SC	SC	SC	SC						
Dilution Factor:	1.0	2.0	1.0	1.0	1.0						
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	5.0	1.0	5.0	2.0	ND	1.0	3.4	1.0	7.5	1.0
Chloromethane	2.0	2.3	2.0	ND	4.0	2.4	2.0	ND	2.0	ND	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	1.6	1.0	ND	2.0	1.2	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	1.5	1.0	ND	2.0	1.8	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	1.2	1.0	32	2.0	95	1.0	46	1.0	98	1.0
1,1-Dichloroethene	1.0	6.6	1.0	55	2.0	17	1.0	30	1.0	1.1	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	4.3	1.0	54	2.0	43	1.0	37	1.0	63	1.0
Methylene Chloride	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	ND	1.0	2.0	2.0	1.4	1.0	1.4	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	1.0	125	1.0	98	2.0	68	1.0	112	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	2.2	1.0	13	2.0	3.8	1.0	7.8	1.0	ND	1.0
Carbon Tetrachloride	1.0	72	1.0	259	2.0	125	1.0	179	1.0	ND	1.0
Benzene	1.0	1.4	1.0	2.3	2.0	1.9	1.0	8.7	1.0	7.3	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	3.4	1.0	68	2.0	167	1.0	116	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Toluene	1.0	24	1.0	30	2.0	19	1.0	10	1.0	1.4	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	1.9	1.0	18	2.0	10	1.0	18	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	4.1	2.0	ND	1.0	1.1	1.0	ND	1.0
p,&m-Xylene	1.0	1.9	1.0	12	2.0	1.8	1.0	1.1	1.0	ND	1.0
o-Xylene	1.0	ND	1.0	6.4	2.0	ND	1.0	ND	1.0	ND	1.0
Styrene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	6.2	4.0	ND	2.0	ND	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit  
 ND = Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Air Toxics Operations Manager

Date 6-5-02

The cover letter is an integral part of this analytical report

## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020530MS2A1

Matrix: Air

EPA Method TO-14/TO-15												
Lab No:	Method Blank		LCS		LCSD							
Date Analyzed:	05/30/02		05/30/02	% Rec	05/30/02	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/Fail	
Data File ID:	30MAY005.D		30MAY003.D		30MAY004.D							
Analyst Initials:	SC		SC		SC							
Dilution Factor:	1.0		1.0		1.0							
ANALYTE		Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/Fail
1,1-Dichloroethene		0.0	10.0	9.9	99	9.7	97	1.7	70	130	30	Pass
Methylene Chloride		0.0	10.0	9.1	91	9.9	99	7.8	70	130	30	Pass
Trichloroethene		0.0	10.0	9.4	94	9.7	97	3.0	70	130	30	Pass
Toluene		0.0	10.0	9.3	93	9.3	93	0.4	70	130	30	Pass
1,1,2,2-Tetrachloroethane		0.0	10.0	11.1	111	10.8	108	2.4	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By:



Mark Johnson  
Air Toxics Operations Manager

Date:

6-5-02

The cover letter is an integral part of this analytical report



**JUNE 2002**

---

JUN 18 2002CZ

06/12/2002

Geofon, Inc.  
ATTN: Leo W. Williamson  
22632 Golden Springs Dr., Suite 270  
Diamond Bar, CA 91765

Project Reference: JPL #1  
Lab Number: A2060301-01/02

Enclosed are results for sample(s) received 6/03/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria. All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 6/12/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





**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 LEO W. WILLIAMSON		LAB COORDINATOR'S PHONE 909-396-7662		LAB COORDINATOR'S FAX 909-396-1455		LABORATORY SERVICE ID		LABORATORY CONTACT JOAN DE LA OSSA		MAIL REPORT (COMPANY NAME) GEOFON INC	
PROJECT NAME JPL #1		PROJECT PHONE NUMBER 5PL - VE1		PROJECT NUMBER 04-4304-480		LABORATORY PHONE 626-964-4032		LABORATORY FAX 626-964-5832		RECIPIENT NAME LEO W. WILLIAMSON #270	
PROJECT CONTACT LEO W. WILLIAMSON		PROJECT FAX N/A		PROJECT FAX N/A		LABORATORY ADDRESS 18501 E. GALE AVE #130		LABORATORY ADDRESS 18501 E. GALE AVE #130		ADDRESS 22632 GOLDEN SPRING DR	
PROJECT ADDRESS 4800 OAK GROVE DR		CITY, STATE AND ZIP CODE PASADENA CA		CLIENT US NAVY SWDIV		CITY, STATE AND ZIP CODE CITY OF INDUSTRY CA 91748		CITY, STATE AND ZIP CODE CITY OF INDUSTRY CA 91748		DIAMOND BAR CA 91765	
PROJECT MANAGER ASLAC FAHEEM		PROJECT MANAGER'S PHONE 909-396-7662		PROJECT MANAGER'S FAX 909-396-1455		PROJECT MANAGER'S FAX 909-396-1455		PROJECT MANAGER'S FAX 909-396-1455		DIAMOND BAR CA 91765	

Item	Sample Identifier	Matrix		Date	Time	Preserved	# of Cont	QC Level	T.A.T	Analytes	Comments
		Date	Time								
1	T4-VE1-INV-25-01	AIR	6/3/02 1110	NONE	1*	3	NORM	X			1* L TESSLAR BAG
2	T4-VE1-EFF-25-02	AIR	6/3/02 1115	NONE	1*	3	NORM	X			SCREEN - INFLUENT O1 SCREEN - EFFLUENT - O2
3											
4											
5											
6											
7											
8											
9											
10											

SAMPLES COLLECTED BY: <i>Tony...</i>		COURIER AND AIR BILL NUMBER:	
REINQUARANTED BY: <i>Tony...</i>		RECEIVED BY: <i>April...</i>	
		DATE	TIME
		6/02/02	1225
		COOLER TEMPERATURE UPON RECEIPT	
		SAMPLE'S CONDITION UPON RECEIPT	

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

Client: Geofon Incorporated  
 Attn: Leo W. Williamson

Client's Project: JPL #1  
 Date Received: 06/03/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:	A2060301-01	A2060301-02			
Client Sample I.D.:	T4-VE1-INN-25-01	T4-VE1-EFF-25-02			
Date Sampled:	06/03/02	06/03/02			
Date Analyzed:	06/05/02	06/05/02			
QC Batch No:	020605MS2A1	020605MS2A1			
Analyst Initials:	SC	SC			
Dilution Factor:	1.0	1.0			
ANALYTE	MDL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	3.7	1.0	5.3	1.0
Chloromethane	2.0	ND	2.0	ND	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	42	1.0	25	1.0
1,1-Dichloroethene	1.0	28	1.0	ND	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	36	1.0	6.4	1.0
Methylene Chloride	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	1.3	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0
Chloroform	1.0	112	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	6.5	1.0	ND	1.0
Carbon Tetrachloride	1.0	163	1.0	ND	1.0
Benzene	1.0	3.3	1.0	1.5	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	120	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0
Toluene	1.0	5.9	1.0	ND	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	18	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	1.7	1.0	1.2	1.0
o-Xylene	1.0	ND	1.0	ND	1.0
Styrene	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit  
 ND = Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Air Toxics Operations Manager

Date 6-12-02

The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020605MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	06/05/02		06/05/02		06/05/02						
Data File ID:	05JUN005.D		05JUN003.D		05JUN004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0		Limits				
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/Fail
1,1-Dichloroethene	0.0	10.0	9.7	97	9.5	95	2.2	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.5	95	9.0	90	5.3	70	130	30	Pass
Trichloroethene	0.0	10.0	10.4	104	9.9	99	4.6	70	130	30	Pass
Toluene	0.2	10.0	9.9	97	9.7	95	2.7	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	10.6	106	10.6	106	0.5	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson

Mark Johnson  
Air Toxics Operations Manager

Date: 6-12-02

The cover letter is an integral part of this analytical report



JUN 26 2002

06/19/2002

Geofon, Inc.  
ATTN: Leo W. Williamson  
22632 Golden Springs Dr., Suite 270  
Diamond Bar, CA 91765

Project Reference: JPL #1  
Lab Number: A2061106-01/09

Enclosed are results for sample(s) received 6/11/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 6/19/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





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 - LAB COORDINATOR		LAB COORDINATOR'S PHONE		LAB COORDINATOR'S FAX		LABORATORY SERVICE ID		LABORATORY CONTACT		MAIL REPORT (COMPANY NAME)	
LED W. WILLIAMSON		909-396-2662		909-396-1455		LABORATORY PHONE		TAN DE LA OSA		GEOFON INC.	
PROJECT NAME:		JPL-V51		PROJECT NUMBER		LABORATORY FAX		LABORATORY FAX		RECIPIENT NAME	
PROJECT CONTACT		PROJECT PHONE NUMBER		PROJECT FAX		LABORATORY ADDRESS		LABORATORY ADDRESS		ADDRESS	
LED W. WILLIAMSON		714-920-8438		N/A		1801 E. GALE AVE #130		1801 E. GALE AVE #130		#270	
PROJECT ADDRESS		CITY, STATE AND ZIP CODE		CLIENT		CITY, STATE AND ZIP CODE		CITY, STATE AND ZIP CODE		CITY, STATE AND ZIP CODE	
4800 OAK GROVE DR		PASADENA CA		USNAVY SWDIV		CITY OF INDUSTRY CA 91748		CITY OF INDUSTRY CA 91748		DIAMOND BAR CA 91765	
PROJECT MANAGER		PROJECT MANAGER'S PHONE		PROJECT MANAGER'S FAX		PROJECT MANAGER'S FAX		PROJECT MANAGER'S FAX		PROJECT MANAGER'S FAX	
KSLAR FANTERN		909-396-2662		909-396-1455		909-396-1455		909-396-1455		909-396-1455	
Item	Sample Identifier	Matrix			Time	Preserved	# of Cont	QC Level	T.A.T	Analyses	Comments
		Date	Time	Matrix							
1	T4-V51-A-26-01	AIR	9/1/02	1110	NONE	1	3	NORM			1 PL TETRA BAG.
2	T4-V51-B-26-02			1115							SCREEN - A
3	T4-V51-C-26-03			1120							SCREEN - B
4	T4-V51-INV-26-04			1125							SCREEN - C
5	T4-V51-EFF-26-05			1130							SCREEN - INFLUENT
6	T4-V51-PIEFF-26-06			1135							SCREEN - EFFLUENT
7	T4-V51-P2EFF-26-07			1140							SCREEN - PRIMARY 1 EFFLUENT
8	T4-V51-S1EFF-26-08			1145							SCREEN - PRIMARY 2 EFFLUENT
9	T4-V51-S2EFF-26-09			1150							SCREEN - SECONDARY 1 EFFLUENT
10											SCREEN - SECONDARY 2 EFFLUENT

SAMPLES COLLECTED BY: [Signature]  
RELINQUISHED BY: [Signature]  
COURIER AND AIR BILL NUMBER: [Blank]  
RECEIVED BY: [Signature]  
DATE: 01/16/02  
TIME: 13:30

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

Client's Project: JPL #1  
 Date Received: 06/11/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:	A2061106-01		A2061106-02		A2061106-03		A2061106-04		A2061106-05		
Client Sample I.D.:	T4-VE1-A-26-01		T4-VE1-B-26-02		T4-VE1-C-26-03		T4-VE1-INN-26-04		T4-VE1-EFF-26-05		
Date Sampled:	06/11/02		06/11/02		06/11/02		06/11/02		06/11/02		
Date Analyzed:	06/12/02		06/12/02		06/12/02		06/12/02		06/12/02		
QC Batch No:	020612MS2A1		020612MS2A1		020612MS2A1		020612MS2A1		020612MS2A1		
Analyst Initials:	SC		SC		SC		SC		SC		
Dilution Factor:	1.0		2.0		1.0		1.0		1.0		
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	4.5	1.0	4.2	2.0	ND	1.0	3.2	1.0	2.9	1.0
Chloromethane	2.0	ND	2.0	ND	4.0	2.3	2.0	ND	2.0	ND	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	14	1.0	23	2.0	84	1.0	38	1.0	43	1.0
1,1-Dichloroethene	1.0	4.9	1.0	43	2.0	15	1.0	25	1.0	1.2	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	4.1	1.0	47	2.0	43	1.0	34	1.0	18	1.0
Methylene Chloride	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	ND	1.0	ND	2.0	1.4	1.0	1.3	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	1.0	99	1.0	76	2.0	65	1.0	95	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	1.9	1.0	9.9	2.0	3.6	1.0	6.5	1.0	ND	1.0
Carbon Tetrachloride	1.0	60	1.0	196	2.0	116	1.0	153	1.0	ND	1.0
Benzene	1.0	ND	1.0	ND	2.0	1.6	1.0	5.4	1.0	3.4	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	2.6	1.0	56	2.0	159	1.0	105	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Toluene	1.0	5.8	1.0	16	2.0	10	1.0	3.7	1.0	4.4	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	1.7	1.0	23	2.0	8.6	1.0	15	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	5.8	2.0	ND	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	1.7	1.0	18	2.0	2.0	1.0	ND	1.0	ND	1.0
o-Xylene	1.0	ND	1.0	9.4	2.0	1.0	1.0	ND	1.0	ND	1.0
Styrene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	6.0	4.0	ND	2.0	ND	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit  
 ND= Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Air Toxics Operations Manager

Date 6-19-02

The cover letter is an integral part of this analytical report

Client's Project: JPL #1  
 Date Received: 06/11/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:	A2061106-06	A2061106-07	A2061106-08	A2061106-09					
Client Sample I.D.:	T4-VE1-P1EFF-26-06	T4-VE1-P2EFF-26-07	T4-VE1-S1EFF-26-08	T4-VE1-S2EFF-26-09					
Date Sampled:	06/11/02	06/11/02	06/11/02	06/11/02					
Date Analyzed:	06/12/02	06/12/02	06/12/02	06/12/02					
QC Batch No:	020612MS2A1	020612MS2A1	020612MS2A1	020612MS2A1					
Analyst Initials:	SC	SC	SC	SC					
Dilution Factor:	1.0	1.0	1.0	1.0					
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	1.7	1.0	2.8	1.0	4.2	1.0	4.3	1.0
Chloromethane	2.0	ND	2.0	ND	2.0	ND	2.0	2.5	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	2.7	1.0
Bromomethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	2.6	1.0
Trichlorofluoromethane (11)	1.0	73	1.0	69	1.0	41	1.0	27	1.0
1,1-Dichloroethene	1.0	30	1.0	33	1.0	ND	1.0	2.5	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	54	1.0	50	1.0	21	1.0	12	1.0
Methylene Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	1.5	1.0	1.6	1.0	ND	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	1.0	62	1.0	83	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	2.4	1.0	4.0	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	1.0	60	1.0	104	1.0	ND	1.0	ND	1.0
Benzene	1.0	81	1.0	1.6	1.0	40	1.0	1.7	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	1.0	4.8	1.0	6.9	1.0	8.4	1.0	6.1	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	1.4	1.0	1.2	1.0	1.7	1.0	1.8	1.0
o-Xylene	1.0	ND	1.0	ND	1.0	1.6	1.0	ND	1.0
Styrene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0	3.0	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit  
 ND = Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Air Toxics Operations Manager

Date 6-19-02

The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020612MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD			Limits			
Date Analyzed:	06/12/02		06/12/02		06/12/02						
Data File ID:	12JUN005.D		12JUN003.D		12JUN004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0						
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	9.0	90	8.9	89	1.1	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.1	91	8.8	88	3.7	70	130	30	Pass
Trichloroethene	0.0	10.0	9.8	98	9.3	93	5.2	70	130	30	Pass
Toluene	0.0	10.0	9.5	95	9.0	90	5.3	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	10.3	103	10.0	100	3.0	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson

Mark Johnson

Air Toxics Operations Manager

Date: 6-19-02

The cover letter is an integral part of this analytical report



06/27/2002

Geofon, Inc.  
ATTN: Leo W. Williamson  
22632 Golden Springs Dr., Suite 270  
Diamond Bar, CA 91765

Project Reference: JPL #1  
Lab Number: A2061703-01/02

Enclosed are results for sample(s) received 6/17/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria. All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 6/27/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





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

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

A2061703

GEOFON LAB COORDINATOR LEO W. WILLIAMSON PROJECT NAME JPL #1		LAB COORDINATOR'S PHONE 909-396-2662		LAB COORDINATOR'S FAX 909-396-1455		LABORATORY SERVICE ID		LABORATORY CONTACT JOAN DE LA Ossa		MAIL REPORT (COMPANY NAME) GEOFON INC	
PROJECT CONTACT LEO W. WILLIAMSON		PROJECT PHONE NUMBER 714-920-8438		PROJECT FAX N/A		LABORATORY PHONE 626-964-4032		LABORATORY FAX 626-964-5832		RECIPIENT NAME LEO W. WILLIAMSON	
PROJECT ADDRESS 4800 OAKGLOVE DR PASADENA CA		CITY, STATE AND ZIP CODE PASADENA CA		CLIENT US NAVY SUBDIV		LABORATORY ADDRESS 18501 E. CALLE AVE #130		LABORATORY FAX		ADDRESS 22632 GOLDEN SPRINGS DR	
PROJECT MANAGER ASLAR FATHOM		PROJECT MANAGER'S PHONE 909-396-7662		PROJECT MANAGER'S FAX 909-396-1455		CITY, STATE AND ZIP CODE CITY OF INDUSTRY CA 91748		LABORATORY FAX		CITY, STATE AND ZIP CODE DIAMOND BAR CA 91765	

Item	Sample Identifier	Matrix			Time Preserved	# of Cont.	QC Level	T.A.T	Analytes	Comments
		Date	Time	Preserved						
1	T4-VB1-INV-27-01	AIR	6/17/02 1110	None	1*	3	NORM X			1* L TDSLAR BAG. -01
2	T4-VB1-EFF-27-02	AIR	6/17/02 1115	None	1*	3	NORM X			SCREEN - EFFLUENT -02
3										
4										
5										
6										
7										
8										
9										
10										

SAMPLES COLLECTED BY Tommy M...		COURIER AND AIR BILL NUMBER:	
RELINQUISHED BY Tommy M...		DATE 6/18/02	TIME 13:40
		COOLER TEMPERATURE UPON RECEIPT	
		SAMPLE'S CONDITION UPON RECEIPT	

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

Client: Geofon Incorporated  
 Attn: Leo W. Williamson

Client's Project: JPL #1  
 Date Received: 06/17/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:		A2061703-01		A2061703-02	
Client Sample I.D.:		T4-VE1-INN-27-01		T4-VE1-EFF-27-02	
Date Sampled:		06/17/02		06/17/02	
Date Analyzed:		06/17/02		06/17/02	
QC Batch No:		020617MS2A1		020617MS2A1	
Analyst Initials:		SC		SC	
Dilution Factor:		1.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	3.4	1.0	3.4	1.0
Chloromethane	2.0	ND	2.0	ND	2.0
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	42	1.0	31	1.0
1,1-Dichloroethene	1.0	27	1.0	1.6	1.0
1,1,2-CI 1,2,2-F ethane (113)	1.0	34	1.0	8.2	1.0
Methylene Chloride	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	1.3	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0
Chloroform	1.0	104	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	7.2	1.0	ND	1.0
Carbon Tetrachloride	1.0	172	1.0	ND	1.0
Benzene	1.0	5.1	1.0	3.2	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	128	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0
Toluene	1.0	3.6	1.0	4.1	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	18	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	ND	1.0	ND	1.0
o-Xylene	1.0	ND	1.0	ND	1.0
Styrene	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit  
 ND= Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By:   
 Mark Johnson  
 Air Toxics Operations Manager

Date 6-27-02

The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020617MS2A1

Matrix: Air

## EPA Method TO-14/TO-15

Lab No:		Method Blank		LCS		LCSD		Limits				
Date Analyzed:		06/17/02		06/17/02		06/17/02		RPD	Low %Rec	High %Rec	Max. RPD	Pass/Fail
Data File ID:		17JUN005.D		17JUN003.D		17JUN004.D						
Analyst Initials:		SC		SC		SC						
Dilution Factor:		1.0		1.0		1.0						
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/Fail	
1,1-Dichloroethene	0.0	10.0	9.0	90	8.6	86	4.2	70	130	30	Pass	
Methylene Chloride	0.0	10.0	8.7	87	8.7	87	0.2	70	130	30	Pass	
Trichloroethene	0.0	10.0	10.0	100	9.5	95	5.3	70	130	30	Pass	
Toluene	0.0	10.0	9.3	93	8.9	89	4.1	70	130	30	Pass	
1,1,2,2-Tetrachloroethane	0.0	10.0	10.3	103	9.7	97	5.3	70	130	30	Pass	

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson

Mark Johnson

Air Toxics Operations Manager

Date: 6-27-02

The cover letter is an integral part of this analytical report



CZJUL 18 2002

07/09/2002

Geofon, Inc.  
ATTN: Leo W. Williamson  
22632 Golden Springs Dr., Suite 270  
Diamond Bar, CA 91765

Project Reference: JPL #1  
Lab Number: A2062406-01/02

Enclosed are results for sample(s) received 6/24/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria. All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 7/08/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.



A2062406



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

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	OC Level	T.A.T	LABORATORY SERVICE ID			LABORATORY CONTACT			MAIL REPORT (COMPANY NAME)		
									LABORATORY PHONE	LABORATORY FAX	LABORATORY ADDRESS	LABORATORY PHONE	LABORATORY FAX	LABORATORY ADDRESS	RECIPIENT NAME	ADDRESS	CITY, STATE AND ZIP CODE
GEOFON LAB COORDINATOR		LAB COORDINATOR'S PHONE			LAB COORDINATOR'S FAX			LABORATORY CONTACT			MAIL REPORT (COMPANY NAME)						
LEO W. WILLIAMSON		909-396-7662			909-396-1455			TAMARA CAPOSSA			GEOFON INC.						
PROJECT NAME		PROJECT LOCATION			PROJECT NUMBER			LABORATORY PHONE			RECIPIENT NAME						
JPL #1		JPL - V61			04-4304-480			626-764-4032			1870 W. WILLIAMSON						
PROJECT CONTACT		PROJECT PHONE NUMBER			PROJECT FAX			LABORATORY ADDRESS			ADDRESS						
ED W. WILLIAMSON		714-970-8438			N/A			18501 E. GALE AVE #130			22632 GOLDEN SPRINGS DR #270						
PROJECT ADDRESS		CITY, STATE AND ZIP CODE			CLIENT			CITY, STATE AND ZIP CODE			CITY, STATE AND ZIP CODE						
1800 OAKS GLOVE DR		PASADENA CA			US NAVY SWDIV			CITY OF INDUSTRY CA 91748			DIAMOND BAR CA 91765						
PROJECT MANAGER		PROJECT MANAGER'S PHONE			PROJECT MANAGER'S FAX			CITY, STATE AND ZIP CODE			CITY, STATE AND ZIP CODE						
ASLAK FARBEM		909-396-7662			909-396-1455			CITY OF INDUSTRY CA 91748			DIAMOND BAR CA 91765						
Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	OC Level	T.A.T	Analyses	Comments							
1	14-V61-1NN-28-01	AIR	6/24/02	1115	NOVA	1*	3	NOVA	+	1* L TADLAR BAG SCREEN - INELEMENT							
2	14-V61-BFE-28-02	AIR	6/24/02	1120	NOVA	1*	3	NOVA	+	SCREEN - INELEMENT							
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: [Signature] COURIER AND AIR BILL NUMBER: [Blank]

RELINQUISHED BY: [Signature] RECEIVED BY: [Signature]

DATE: 6/24/02 TIME: 13:25

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

Client's Project: JPL #1  
 Date Received: 06/24/02  
 Matrix: Air  
 Units: ppbv

EPA Method TO14

Lab No:	A2062406-01		A2062406-02							
Client Sample I.D.:	T4-VE1-INN-28-01		T4-VE1-EFF-28-02							
Date Sampled:	06/24/02		06/24/02							
Date Analyzed:	06/25/02		06/25/02							
QC Batch No:	020625MS2A1		020625MS2A1							
Analyst Initials:	SC		SC							
Dilution Factor:	1.0		1.0							
ANALYTE	MDL	Result	RL	Result	RL					
Dichlorodifluoromethane (12)	1.0	3.8	1.0	4.2	1.0					
Chloromethane	2.0	ND	2.0	ND	2.0					
1,2-CI-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0					
Vinyl Chloride	1.0	ND	1.0	ND	1.0					
Bromomethane	1.0	ND	1.0	ND	1.0					
Chloroethane	1.0	ND	1.0	ND	1.0					
Trichlorofluoromethane (11)	1.0	45	1.0	51	1.0					
1,1-Dichloroethene	1.0	38	1.0	2.5	1.0					
1,1,2-CI 1,2,2-F ethane (113)	1.0	38	1.0	20	1.0					
Methylene Chloride	1.0	ND	1.0	ND	1.0					
1,1-Dichloroethane	1.0	1.5	1.0	ND	1.0					
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0					
Chloroform	1.0	125	1.0	ND	1.0					
1,1,1-Trichloroethane	1.0	8.0	1.0	ND	1.0					
Carbon Tetrachloride	1.0	179	1.0	ND	1.0					
Benzene	1.0	5.0	1.0	2.2	1.0					
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0					
Trichloroethene	1.0	161	1.0	ND	1.0					
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0					
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0					
Toluene	1.0	7.0	1.0	3.5	1.0					
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0					
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0					
Tetrachloroethene	1.0	25	1.0	ND	1.0					
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0					
Chlorobenzene	1.0	ND	1.0	ND	1.0					
Ethylbenzene	1.0	ND	1.0	ND	1.0					
p,&m-Xylene	1.0	ND	1.0	ND	1.0					
o-Xylene	1.0	ND	1.0	ND	1.0					
Styrene	1.0	ND	1.0	ND	1.0					
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0					
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0					
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0					
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0					
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0					
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0					
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0					
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0					

MDL = Method Detection Limit  
 ND= Not Detected (below RL)  
 RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Air Toxics Operations Manager

Date 7-8-02

The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020625MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	06/25/02		06/25/02		06/25/02						
Data File ID:	25JUN005.D		25JUN003.D		25JUN004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0		Limits				
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	8.9	89	8.6	86	3.4	70	130	30	Pass
Methylene Chloride	0.0	10.0	8.6	86	8.0	80	8.0	70	130	30	Pass
Trichloroethene	0.0	10.0	8.8	88	8.5	85	3.0	70	130	30	Pass
Toluene	0.0	10.0	8.6	86	8.3	83	3.9	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.8	98	9.3	93	4.9	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson

Mark Johnson

Air Toxics Operations Manager

Date: 7-8-02

The cover letter is an integral part of this analytical report.

