LFR
LEVINE•FRICKE

1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500, FAX (510) 652-4906

FAX TRANSMISSION: This cover page plus 13 pages.

Date	**August 25, 1999**
Time	**11:32PM**
From	**Taylor Bennett**

Deliver To	**Scott Seery, CHMM**		
Name of Firm	**Alameda County Health Care Services Agency**		
FAX Number	**(510) 337-9335**	Project No.	**6895.00-020**

Comments: As you requested today, following are the laboratory results for samples collected at the former Glovatorium so far. Each laboratory report is being sent as a separate fax. There is a total of five reports. LFR has not yet completed a QA/QC review of these data.

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

ANALYTICAL REPORT

Prepared for:

LFR-Levine-Fricke
1900 Powell Street
12th Floor
Emeryville, CA 94608

Date: 27-JUL-99
Lab Job Number: 140543
Project ID: 6895.00.014
Location: Former Glovatorium

Reviewed by: Tracy Bobja

Reviewed by:

Laboratory Numbers: **140537**
Client: **LFR-Levine-Fricke**
Project #: **6895.00.014**
Location: **Former Glovatorium**
COC#: **3502**

Sampled Date: **07/21/99**
Received Date: **07/21/99**

CASE NARRATIVE

This hardcopy data package contains sample and QC results for one water sample, which was received from the site referenced above on July 21, 1999. The trip blank was placed on hold upon receipt. The samples were received cold and intact. All data were faxed to Taylor Bennett on July 27, 1999.

TVH (EPA 8015M):
Bromofluorobenzene failed high for sample GW4-0721 (CT# 140543-002) due to co-elution with hydrocarbons. No other analytical problems were encountered.

VOCs (EPA 8260):
No analytical problems were encountered.

TVH-Total Volatile Hydrocarbons

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8015M
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140543-002	GW4-0721	49463	07/21/99	07/21/99	07/21/99	

Matrix: Water

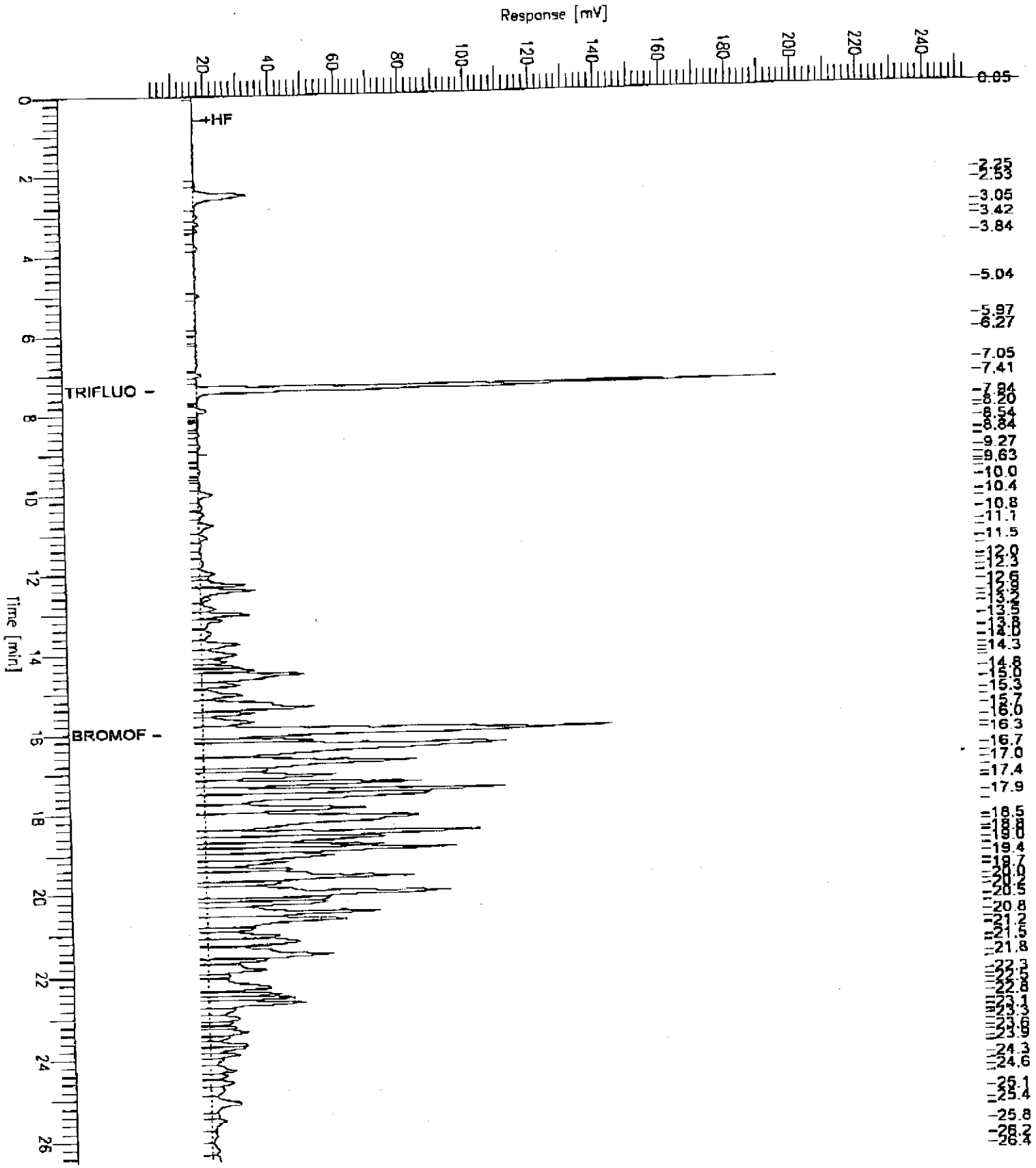
Analyte	Units	140543-002	
Diln Fac:		5	
Gasoline C7-C12	ug/L	10000	YH
Stoddard Solvent	ug/L	6600	
Surrogate			
Trifluorotoluene	%REC	115	
Bromofluorobenzene	%REC	257	*

* Values outside of QC limits
Y: Sample exhibits fuel pattern which does not resemble standard
H: Heavier hydrocarbons than indicated standard

GC19 TVH 'X' Data File (FID)

Sample Name : d,140543-002a,49463,tvh+stodd.only
FileName : G:\GC19\DATA\202X013.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: -1.0 Plot Offset: 4 mV

Sample #: ph<2, 5x
Date : 7/22/99 03:44 PM
Time of Injection: 7/21/99 11:49 PM
Low Point : 3.77 mV High Point : 253.77 mV
Plot Scale: 250.0 mV

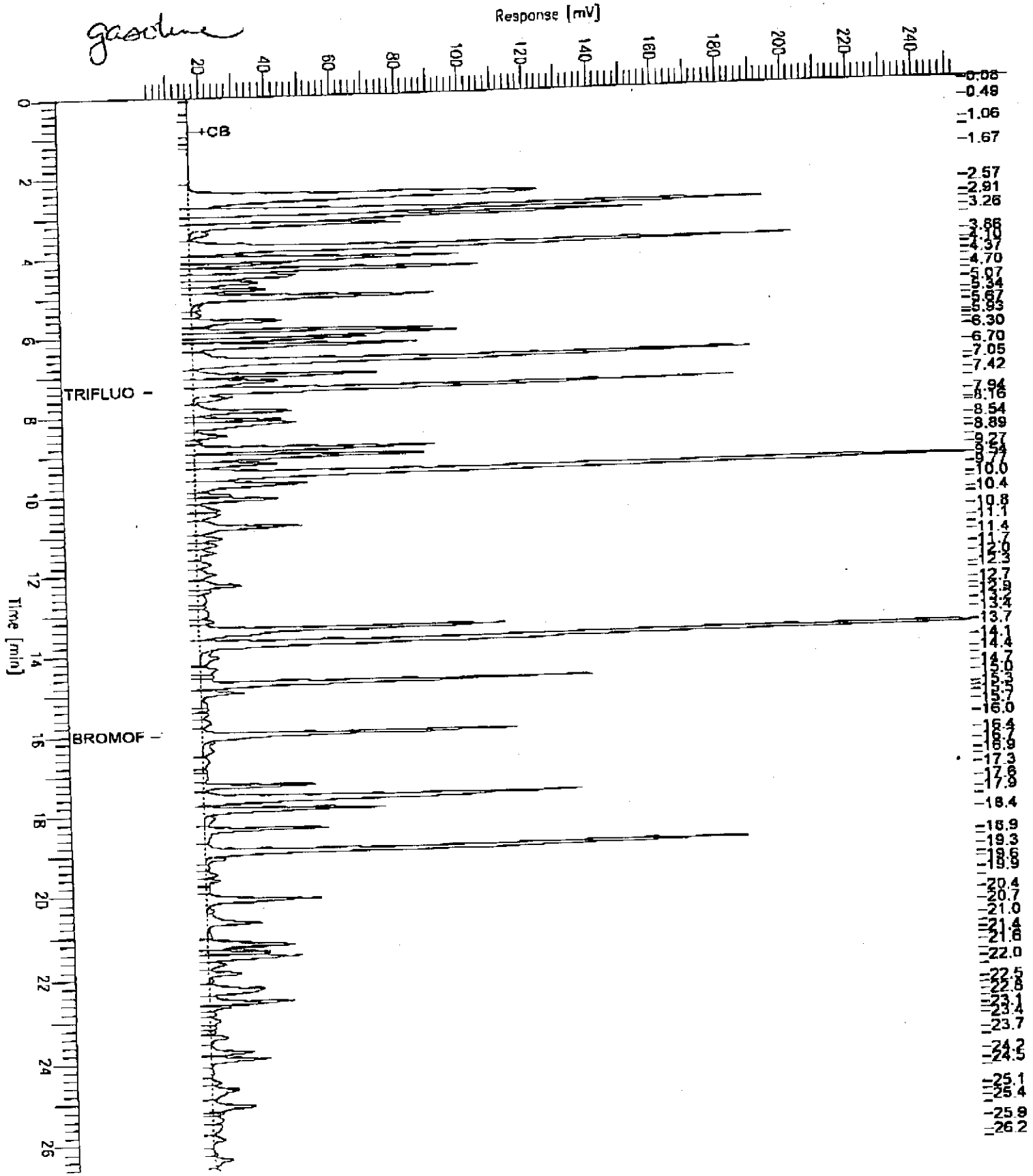


GC19 TVH 'X' Data File (FID)

Sample Name : CCV/LCS,QC03238,99WS7780,49463
FileName : G:\GC19\DATA\202X001.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: -1.0 Plot Offset: 4 mV

Sample #: GAS
Date : 7/21/99 02:05 PM
Time of Injection: 7/21/99 01:38 PM
Low Point : 3.95 mV High Point : 253.95 mV
Plot Scale: 250.0 mV

gasoline

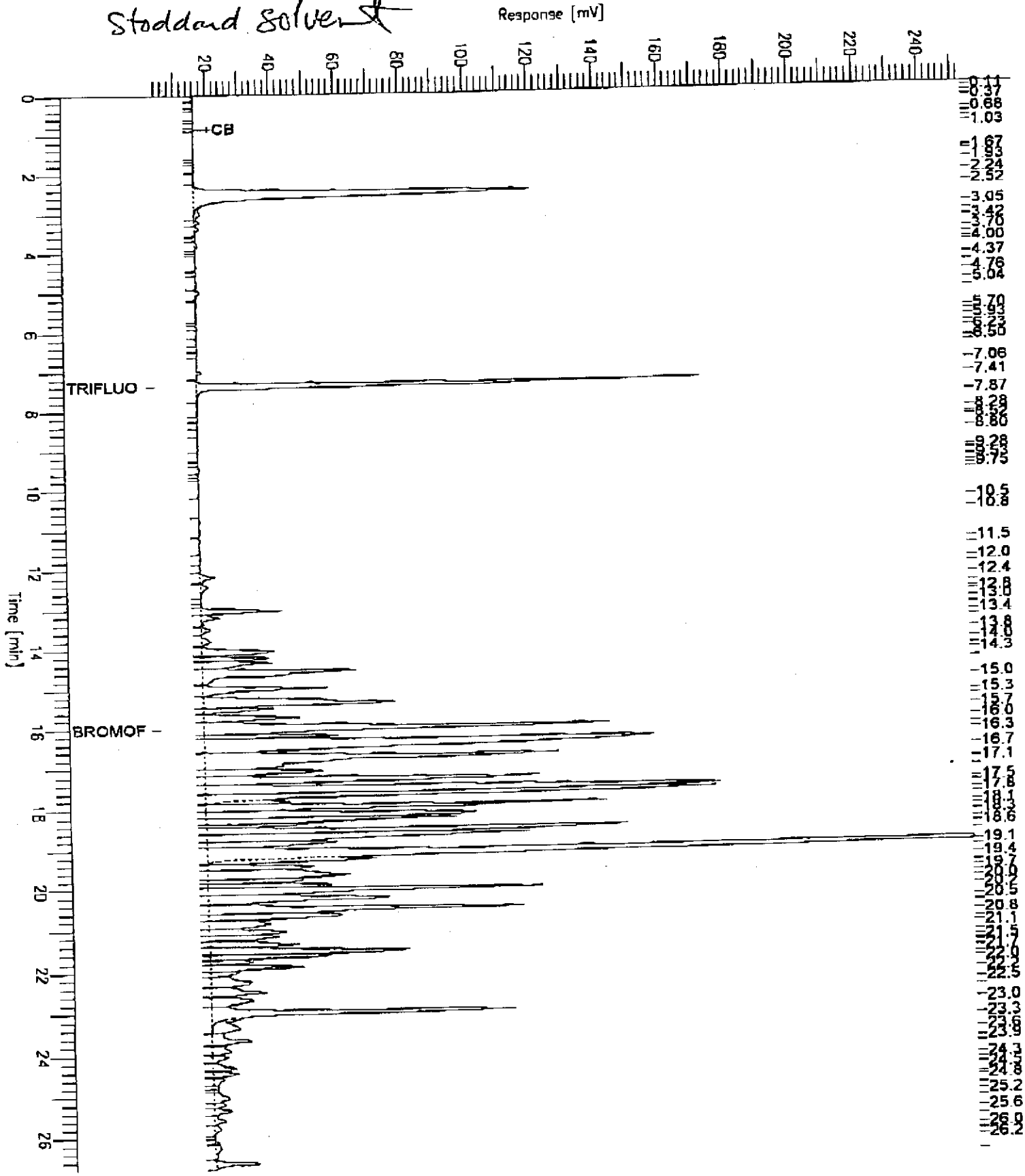


GC19 TVH 'X' Data File (FID)

Sample Name : CCV,99WB7145,49463
FileName : G:\GC19\DATA\202X003.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: -1.0 Plot Offset: 3 mV

Sample #: STODD.
Date : 7/21/99 05:05 PM
Time of Injection: 7/21/99 04:38 PM
Low Point : 3.41 mV High Point : 253.41 mV
Plot Scale: 250.0 mV

Stoddard Solvent



Lab #: 140543

BATCH QC REPORT

Curtis & Tompkins, Ltd.

TVH-Total Volatile Hydrocarbons

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8015M
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
Batch#: 49463
Units: ug/L
Diln Fac: 1

Prep Date: 07/21/99
Analysis Date: 07/21/99

MB Lab ID: QC03237

Analyte	Result
Gasoline C7-C12	<50
Stoddard Solvent	<50

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	101	53-150
Bromofluorobenzene	101	53-149

Curtis & Tompkins, Ltd.

Lab #: 140543

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8015M
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Water
Batch#: 49463
Units: ug/L
Diln Fac: 1

Prep Date: 07/21/99
Analysis Date: 07/21/99

LCS Lab ID: QC03238

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline C7-C12	1709	2000	85	77-117

Surrogate	%Rec	Limits
Trifluorotoluene	113	53-150
Bromofluorobenzene	124	53-149

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits

Lab #: 140543

BATCH QC REPORT

Page

TVH-Total Volatile Hydrocarbons

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8015M
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ
Lab ID: 140470-003
Matrix: Water
Batch#: 49463
Units: ug/L
Diln Fac: 1

Sample Date: 07/11/99
Received Date: 07/15/99
Prep Date: 07/22/99
Analysis Date: 07/22/99

MS Lab ID: QC03291

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline C7-C12	2000	<50	1881	94	69-131

Surrogate	%Rec	Limits
Trifluorotoluene	118	53-150
Bromofluorobenzene	136	53-149

MSD Lab ID: QC03292

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline C7-C12	2000	1921	96	69-131	2	13

Surrogate	%Rec	Limits
Trifluorotoluene	121	53-150
Bromofluorobenzene	148	53-149

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

Page

Aromatic Volatile Organics
EPA 8020 Analyte List

Client:	LFR-Levine-Fricke	Analysis Method:	EPA 8260A
Project#:	6895.00.014	Prep Method:	EPA 5030
Location:	Former Glovatorium		

Field ID:	GW4-0721	Sampled:	07/21/99
Lab ID:	140543-002	Received:	07/21/99
Matrix:	Water	Extracted:	07/26/99
Batch#:	49539	Analyzed:	07/26/99
Units:	ug/L		
Dilu Fac:	1		

Analyte	Result	Reporting Limit
MTBE	[illegible]	0.5
Benzene	ND	0.5
Toluene	ND	0.5
Chlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	[illegible]	0.5
o-Xylene	[illegible]	0.5
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	103	76-127
Toluene-d8	100	90-109
Bromofluorobenzene	99	82-118

Lab #: 140543

BATCH QC REPORT

Purgeable Aromatics by GC/MS
EPA 8020 Analyte List

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
Batch#: 49539
Units: ug/L
Diln Fac: 1

Prep Date: 07/26/99
Analysis Date: 07/26/99

MB Lab ID: QC03519

Analyte	Result	Reporting Limit
MTBE	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
Chlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

Surrogate	%Rec	Recovery Limits
1,2-Dichloroethane-d4	100	76-127
Toluene-d8	99	90-109
Bromofluorobenzene	104	82-118

Lab #: 140543

BATCH QC REPORT

Page

Purgeable Aromatics by GC/MS
EPA 8020 Analyte List

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water
Batch#: 49539
Units: ug/L
Dilu Fac: 1

Prep Date: 07/26/99
Analysis Date: 07/26/99

BS Lab ID: QC03516

Analyte	Spike Added	BS	%Rec #	Limits
Benzene	50	49.65	99	71-127
Toluene	50	52.56	105	73-129
Chlorobenzene	50	48.35	97	77-126

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	95	76-127
Toluene-d8	99	90-109
Bromofluorobenzene	102	82-118

BSD Lab ID: QC03517

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Benzene	50	51.58	103	71-127	4	10
Toluene	50	53.87	108	73-129	2	10
Chlorobenzene	50	49.83	100	77-126	3	10

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	95	76-127
Toluene-d8	101	90-109
Bromofluorobenzene	99	82-118

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 3 outside limits
Spike Recovery: 0 out of 6 outside limits

14053

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6895.00.014	Project Location: Oakland, CA	Date: 7/21/99	Serial No.: Nº 3502
Project Name: Former Glove Torium	Field Logbook No.: —		
Sampler (Signature): James R. Burke			Samplers: JRB

SAMPLES						ANALYSES							
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	8010	TPHd 8015 *	8020			HOLD	RUSH	REMARKS
1 TB-072199	7/21/99	9:00		3	water	X		X			X		* TPH fingerprint include Stoddard Solvent as a standard
2 GW4-0721	7/21/99	10:00		3	water		X	X					

RELINQUISHED BY: (Signature) James R. Burke	DATE 7/21/99	TIME 1015	RECEIVED BY: (Signature)	DATE 7/21/99	TIME 1650
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE•FRICKE•RECON
1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500

Analytical Laboratory:

COC.CDR 101596RVL

Shipping Copy (White) Lab Copy (Yellow) File Copy (Pink) Field Copy (Goldenrod)

** TOTAL PAGE.14 **

LFR
LEVINE • FRICKE

1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500, FAX (510) 652-4906

FAX TRANSMISSION: This cover page plus 31 pages.

Date	**August 25, 1999**
Time	**11:29PM**
From	**Taylor Bennett**

Deliver To	**Scott Seery, CHMM**		
Name of Firm	**Alameda County Health Care Services Agency**		
FAX Number	**(510) 337-9335**	Project No.	**6895.00-020**

Comments: As you requested today, following are the laboratory results for samples collected at the former Glovatorium so far. Each laboratory report is being sent as a separate fax. There is a total of five reports. LFR has not yet completed a QA/QC review of these data.

WATER

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

A N A L Y T I C A L R E P O R T

Prepared for:

LFR-Levine-Fricke
1900 Powell Street
12th Floor
Emeryville, CA 94608

Date: 27-JUL-99
Lab Job Number: 140518
Project ID: 6895.00.014
Location: Former Glovatorium

Reviewed by: Troy Bibby

Reviewed by:

Curtis & Tompkins, Ltd.

Laboratory Numbers: **140518**
Client: **LFR-Levine-Fricke**
Project #: **6895.00.014**
Location: **Former Glovatorium**
COC#: **5670**

Sampled Date: **07/19/99**
Received Date: **07/19/99**

CASE NARRATIVE

This hardcopy data package contains sample and QC results for five water samples, which were received from the site referenced above on July 19, 1999. The samples were received cold and intact. One water sample was placed on hold by Taylor Bennett on July 20,1999. All data were faxed to Taylor Bennett on July 27, 1999.

TVH/BTXE:
The relative percent difference (RPD) for MTBE was outside QC limits. This outlier should not affect the quality of the data as the spike recoveries are within QC limits and the samples were non-detect for this compound. No other analytical problems were encountered.

VOCs (EPA 8260):
No analytical problems were encountered.

Page

TVH-Total Volatile Hydrocarbons

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8015M
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140518-001	TB 071999	49463	07/19/99	07/21/99	07/21/99	
140518-002	GW3-071999	49463	07/19/99	07/21/99	07/21/99	
140518-003	GW8-071999	49463	07/19/99	07/21/99	07/21/99	
140518-004	GW8-071999	49463	07/19/99	07/21/99	07/21/99	

Matrix: Water

GW3

Analyte Diln Fac:	Units	140518-001 1	140518-002 1	140518-003 1	140518-004 1
Gasoline C7-C12	ug/L	<50	100 Z	<50	<50
Stoddard Solvent	ug/L	<50	70 Z	<50	<50
Surrogate					
Trifluorotoluene	%REC	111	111	112	113
Bromofluorobenzene	%REC	117	114	116	116

Z: Sample exhibits unknown single peak or peaks

Page

BTXE

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8021B
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140518-001	TB 071999	49463	07/19/99	07/21/99	07/21/99	
140518-002	GW3-071999	49514	07/19/99	07/23/99	07/23/99	
140518-003	GW2-071999	49514	07/19/99	07/23/99	07/23/99	
140518-004	GW8-071999	49514	07/19/99	07/23/99	07/23/99	

Matrix: Water

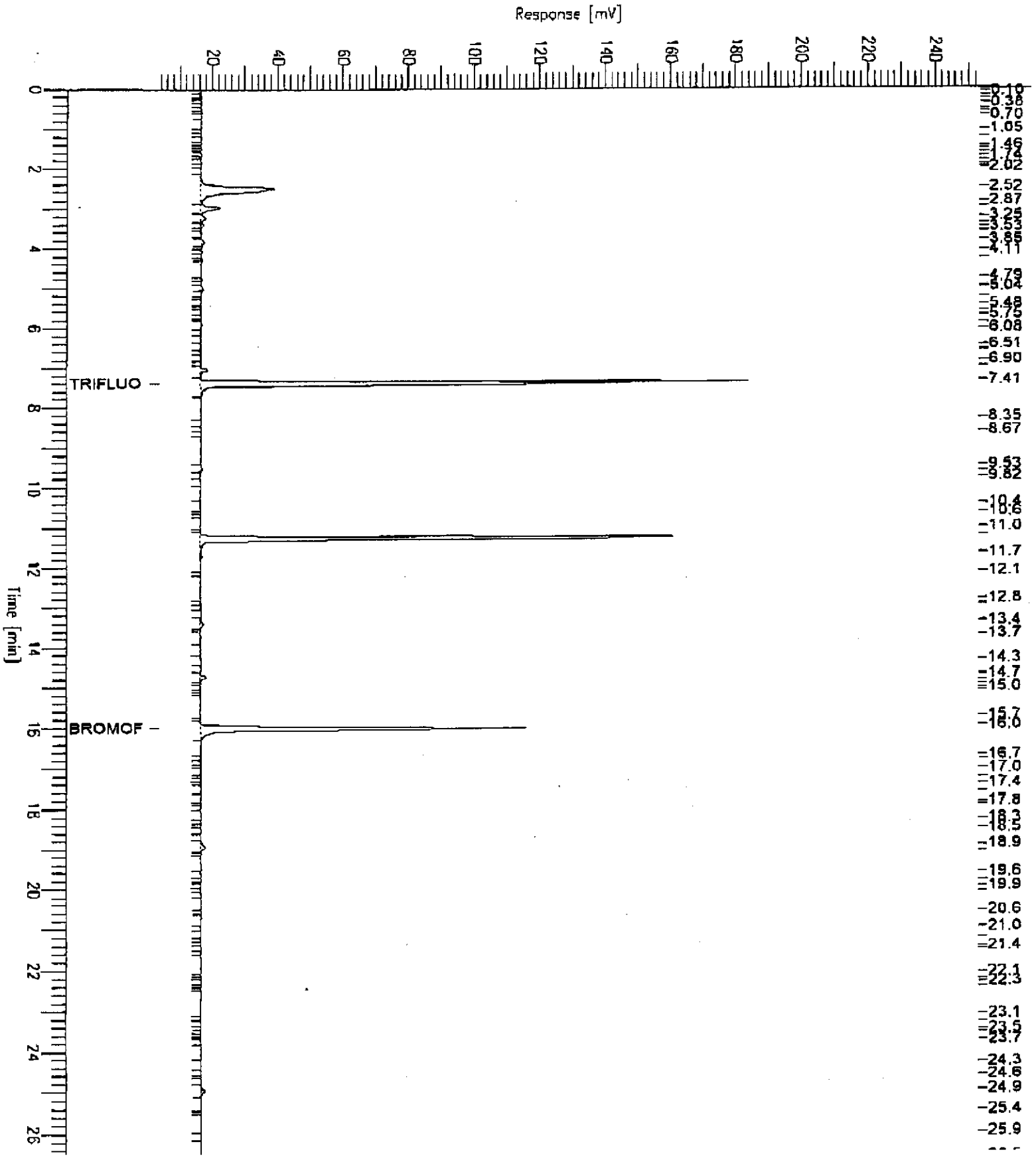
GW3 GW2 GW8

Analyte Diln Fac:	Units	140518-001 1	140518-002 1	140518-003 1	140518-004 1
MTBE	ug/L	<2	<2	2.5	7.8
Benzene	ug/L	<0.5	<0.5	<0.5	<0.5
Toluene	ug/L	<0.5	<0.5	0.71	0.64
Ethylbenzene	ug/L	<0.5	<0.5	<0.5	<0.5
m,p-Xylenes	ug/L	<0.5	<0.5	0.74	0.84
o-Xylene	ug/L	<0.5	0.64	<0.5	0.67
Surrogate					
Trifluorotoluene	%REC	127	65	94	92
Bromofluorobenzene	%REC	131	68	97	97

GC19 TVH 'X' Data File (FID)

Sample Name : 140518-002a,49463
FileName : G:\GC19\DATA\202X008.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: -1.0 Plot Offset: 4 mV

Sample #: ph<2 Page 1 of 1
Date : 7/22/99 03:44 PM
Time of Injection: 7/21/99 08:31 PM
Low Point : 3.61 mV High Point : 253.61 mV
Plot Scale: 250.0 mV

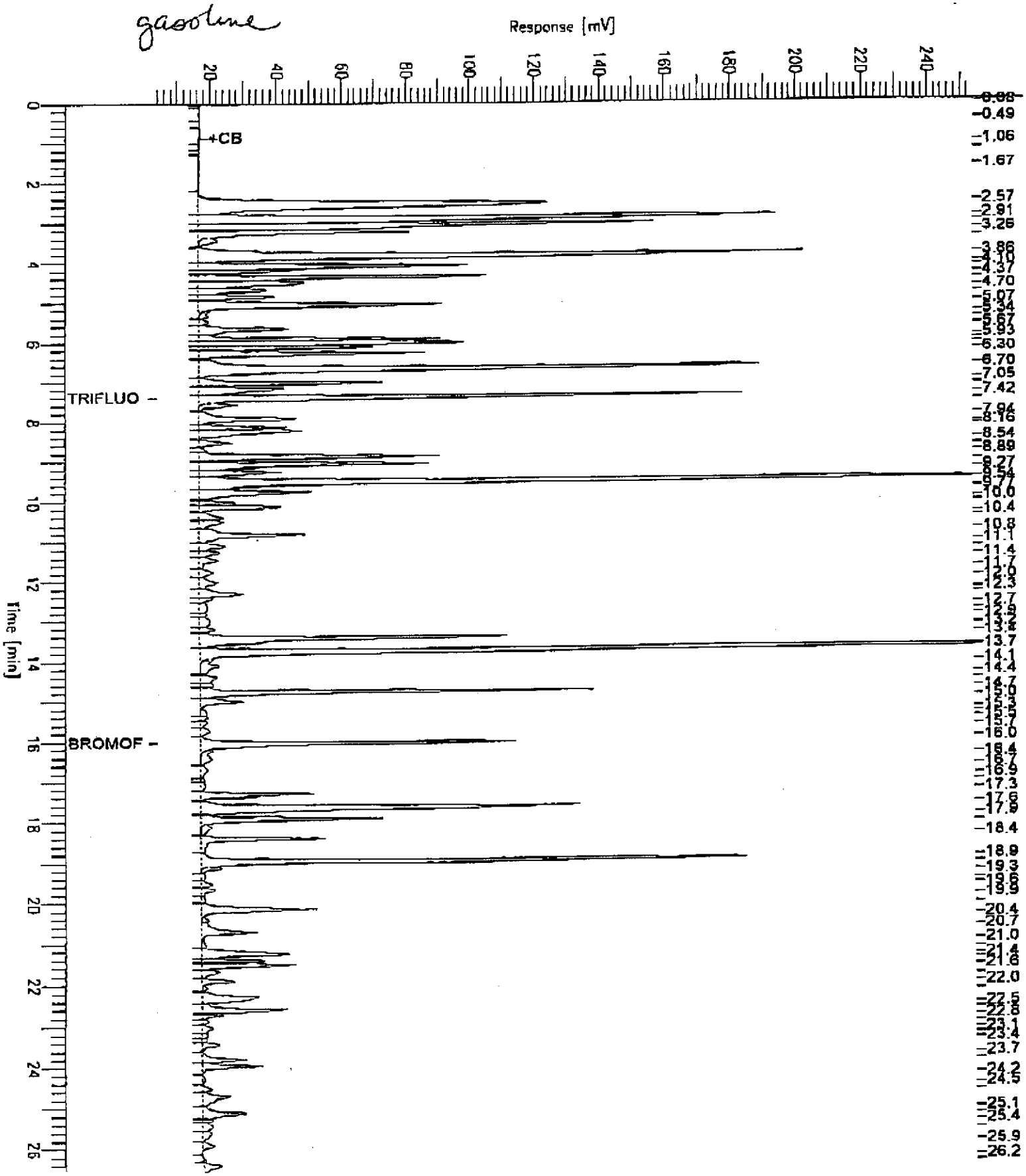


GC19 TVH 'X' Data File (FID)

Sample Name : CCV/LCS,QC03238,99W57780,49463
FileName : G:\GC19\DATA\202X001.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: 1.0 Plot Offset: 4 mV

Sample #: GAS Page 1 of 1
Date : 7/21/99 02:05 PM
Time of Injection: 7/21/99 01:38 PM
Low Point : 3.95 mV High Point : 253.95 mV
Plot Scale: 250.0 mV

gasoline

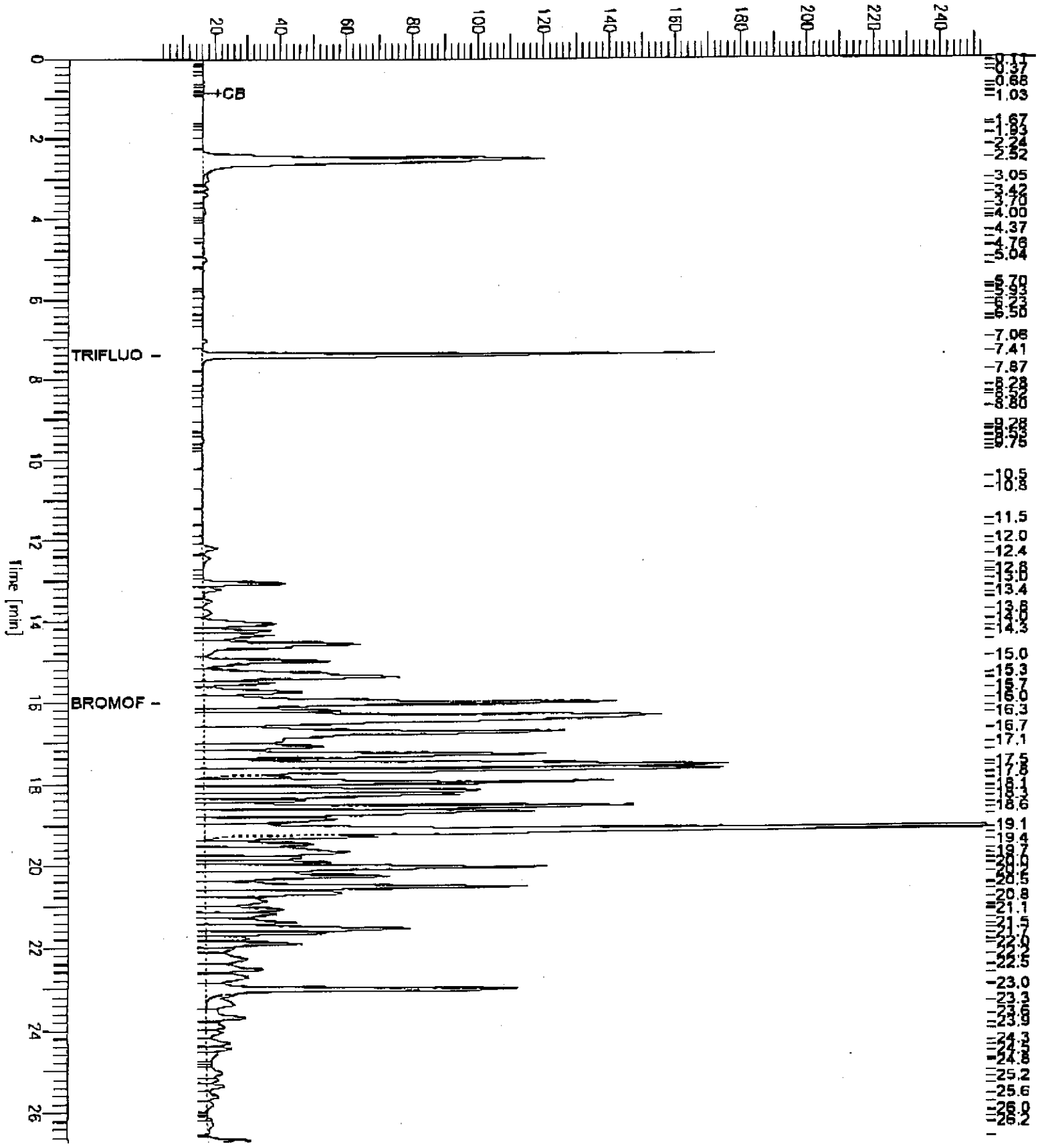


GC19 TVH 'X' Data File (FID)

Sample Name : CCV,99WS7145,49463
FileName : G:\GC19\DATA\202X003.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: -1.0 Plot Offset: 3 mV

Sample #: STODD. Page 1 of 1
Date : 7/21/99 05:05 PM
Time of Injection: 7/21/99 04:38 PM
Low Point : 3.41 mV High Point : 253.41 mV
Plot Scale: 250.0 mV

Stoddard Solvent



Lab #: 140518 BATCH QC REPORT Page

TVH-Total Volatile Hydrocarbons

Client:	LFR-Levine-Fricke	Analysis Method:	EPA 8015M
Project#:	6895.00.014	Prep Method:	EPA 5030
Location:	Former Glovatorium		

METHOD BLANK

Matrix:	Water	Prep Date:	07/21/99
Batch#:	49463	Analysis Date:	07/21/99
Units:	ug/L		
Diln Fac:	1		

MB Lab ID: QC03237

Analyte	Result
Gasoline C7-C12	<50
Stoddard Solvent	<50

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	101	53-150
Bromofluorobenzene	101	53-149

Lab #: 140518 BATCH QC REPORT Page

BTXE	
Client: LFR-Levine-Fricke	Analysis Method: EPA 8021B
Project#: 6895.00.014	Prep Method: EPA 5030
Location: Former Glovatorium	

METHOD BLANK	
Matrix: Water	Prep Date: 07/21/99
Batch#: 49463	Analysis Date: 07/21/99
Units: ug/L	
Diln Fac: 1	

MB Lab ID: QC03237

Analyte	Result
MTBE	<2.0
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
m,p-Xylenes	<0.5
o-Xylene	<0.5

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	119	51-143
Bromofluorobenzene	119	37-146

Lab #: 140518

BATCH QC REPORT

Page

BTXE	
Client: LFR-Levine-Fricke	Analysis Method: EPA 8021B
Project#: 6895.00.014	Prep Method: EPA 5030
Location: Former Glovatorium	

METHOD BLANK	
Matrix: Water	Prep Date: 07/23/99
Batch#: 49514	Analysis Date: 07/23/99
Units: ug/L	
Diln Fac: 1	

MB Lab ID: QC03438

Analyte	Result
MTBE	<2.0
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
m,p-Xylenes	<0.5
o-Xylene	<0.5

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	99	51-143
Bromofluorobenzene	98	37-146

Lab #: 140518 BATCH QC REPORT Page

TVH-Total Volatile Hydrocarbons

Client:	LFR-Levine-Fricke	Analysis Method:	EPA 8015M
Project#:	6895.00.014	Prep Method:	EPA 5030
Location:	Former Glovatorium		

LABORATORY CONTROL SAMPLE

Matrix:	Water	Prep Date:	07/21/99
Batch#:	49463	Analysis Date:	07/21/99
Units:	ug/L		
Diln Fac:	1		

LCS Lab ID: QC03238

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline C7-C12	1709	2000	85	77-117
Surrogate	**%Rec**	**Limits**		
Trifluorotoluene	113	53-150		
Bromofluorobenzene	124	53-149		

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits

Lab #: 140518 BATCH QC REPORT Page

BTXE

Client: LFR-Levine-Fricke	Analysis Method: EPA 8021B
Project#: 6895.00.014	Prep Method: EPA 5030
Location: Former Glovatorium	

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water	Prep Date: 07/21/99
Batch#: 49463	Analysis Date: 07/21/99
Units: ug/L	
Diln Fac: 1	

BS Lab ID: QC03289

Analyte	Spike Added	BS	%Rec	#	Limits
MTBE	20	14.41	72		66-126
Benzene	20	18.85	94		65-111
Toluene	20	19.49	97		76-117
Ethylbenzene	20	20.61	103		71-121
m,p-Xylenes	40	41.1	103		80-123
o-Xylene	20	20.59	103		75-127

Surrogate	%Rec	Limits
Trifluorotoluene	125	51-143
Bromofluorobenzene	126	37-146

BSD Lab ID: QC03290

Analyte	Spike Added	BSD	%Rec	#	Limits	RPD	#	Limit
MTBE	20	16.38	82		66-126	13	*	12
Benzene	20	19.59	98		65-111	4		10
Toluene	20	20.21	101		76-117	4		10
Ethylbenzene	20	20.69	103		71-121	0		11
m,p-Xylenes	40	41.97	105		80-123	2		10
o-Xylene	20	21.45	107		75-127	4		11

Surrogate	%Rec	Limits
Trifluorotoluene	120	51-143
Bromofluorobenzene	121	37-146

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 1 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

Lab #: 140518 BATCH QC REPORT Page

TVH-Total Volatile Hydrocarbons

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8015M
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ
Lab ID: 140470-003
Matrix: Water
Batch#: 49463
Units: ug/L
Diln Fac: 1

Sample Date: 07/11/99
Received Date: 07/15/99
Prep Date: 07/22/99
Analysis Date: 07/22/99

MS Lab ID: QC03291

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline C7-C12	2000	<50	1881	94	69-131

Surrogate	%Rec	Limits
Trifluorotoluene	118	53-150
Bromofluorobenzene	136	53-149

MSD Lab ID: QC03292

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline C7-C12	2000	1921	96	69-131	2	13

Surrogate	%Rec	Limits
Trifluorotoluene	121	53-150
Bromofluorobenzene	148	53-149

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

Lab #: 140518 BATCH QC REPORT Page

BTXE

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8021B
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Water
Batch#: 49514
Units: ug/L
Diln Fac: 1

Prep Date: 07/23/99
Analysis Date: 07/23/99

LCS Lab ID: QC03462

Analyte	Result	Spike Added	%Rec #	Limits
MTBE	16.34	20	82	66-126
Benzene	16.61	20	83	65-111
Toluene	17.08	20	85	76-117
Ethylbenzene	17.43	20	87	71-121
m,p-Xylenes	36.41	40	91	80-123
o-Xylene	17.76	20	89	75-127

Surrogate	%Rec	Limits
Trifluorotoluene	101	51-143
Bromofluorobenzene	103	37-146

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 6 outside limits

Lab #: 140518 BATCH QC REPORT Page

BTXE

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8021B
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ
Lab ID: 140601-003
Matrix: Water
Batch#: 49514
Units: ug/L
Diln Fac: 1

Sample Date: 07/22/99
Received Date: 07/22/99
Prep Date: 07/23/99
Analysis Date: 07/23/99

MS Lab ID: QC03463

Analyte	Spike Added	Sample	MS	%Rec #	Limits
MTBE	20	<2	18.3	92	49-136
Benzene	20	<0.5	17.49	87	55-122
Toluene	20	<0.5	17.99	90	63-139
Ethylbenzene	20	<0.5	18.23	91	61-137
m,p-Xylenes	40	<0.5	38.1	95	57-148
o-Xylene	20	<0.5	18.93	95	70-141

Surrogate	%Rec	Limits
Trifluorotoluene	96	51-143
Bromofluorobenzene	101	37-146

MSD Lab ID: QC03464

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
MTBE	20	18.97	95	49-136	4	11
Benzene	20	19.12	96	55-122	9	10
Toluene	20	19.38	97	63-139	7	10
Ethylbenzene	20	19.86	99	61-137	9	10
m,p-Xylenes	40	41.53	104	57-148	9	10
o-Xylene	20	20.54	103	70-141	8	10

Surrogate	%Rec	Limits
Trifluorotoluene	95	51-143
Bromofluorobenzene	102	37-146

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

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Halogenated Volatile Organics
EPA 8010 Analyte List

Client:	LFR-Levine-Fricke	Analysis Method:	EPA 8260A
Project#:	6895.00.014	Prep Method:	EPA 5030
Location:	Former Glovatorium		

Field ID:	TB 071999	Sampled:	07/19/99
Lab ID:	140518-001	Received:	07/19/99
Matrix:	Water	Extracted:	07/22/99
Batch#:	49488	Analyzed:	07/22/99
Units:	ug/L		
Dilu Fac:	1		

Analyte	Result	Reporting Limit
Freon 12	ND	2.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	5.0
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
2-Chloroethylvinylether	ND	10
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	98	76-127
Toluene-d8	100	90-109
Bromofluorobenzene	116	82-118

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Halogenated Volatile Organics
EPA 8010 Analyte List

Client:	LFR-Levine-Fricke	Analysis Method:	EPA 8260A
Project#:	6895.00.014	Prep Method:	EPA 5030
Location:	Former Glovatorium		

Field ID:	GW3-071999	Sampled:	07/19/99
Lab ID:	140518-002	Received:	07/19/99
Matrix:	Water	Extracted:	07/24/99
Batch#:	49507	Analyzed:	07/24/99
Units:	ug/L		
Diln Fac:	2		

Analyte	Result	Reporting Limit
Freon 12	ND	4.0
Chloromethane	ND	2.0
Vinyl Chloride	ND	1.0
Bromomethane	ND	2.0
Chloroethane	ND	2.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	10
1,1-Dichloroethene	ND	1.0
Methylene Chloride	ND	10
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	ND	1.0
cis-1,2-Dichloroethene	ND	1.0
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	1.0
Carbon Tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
2-Chloroethylvinylether	ND	20
cis-1,3-Dichloropropene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	**220**	1.0
Dibromochloromethane	ND	1.0
Chlorobenzene	ND	1.0
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	95	76-127
Toluene-d8	101	90-109
Bromofluorobenzene	89	82-118

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Halogenated Volatile Organics
EPA 8010 Analyte List

Client:	LFR-Levine-Fricke	Analysis Method:	EPA 8260A
Project#:	6895.00.014	Prep Method:	EPA 5030
Location:	Former Glovatorium		

Field ID:	GW2-071999	Sampled:	07/19/99
Lab ID:	140518-003	Received:	07/19/99
Matrix:	Water	Extracted:	07/23/99
Batch#:	49507	Analyzed:	07/23/99
Units:	ug/L		
Diln Fac:	1		

Analyte	Result	Reporting Limit
Freon 12	ND	2.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	5.0
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	1.4	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
2-Chloroethylvinylether	ND	10
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	14	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	91	76-127
Toluene-d8	100	90-109
Bromofluorobenzene	90	82-118

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Halogenated Volatile Organics
EPA 8010 Analyte List

Client:	LFR-Levine-Fricke	Analysis Method:	EPA 8260A
Project#:	6895.00.014	Prep Method:	EPA 5030
Location:	Former Glovatorium		

Field ID:	GW8-071999	Sampled:	07/19/99
Lab ID:	140518-004	Received:	07/19/99
Matrix:	Water	Extracted:	07/23/99
Batch#:	49488	Analyzed:	07/23/99
Units:	ug/L		
Diln Fac:	1		

Analyte	Result	Reporting Limit
Freon 12	ND	2.0
Chloromethane	ND	1.0
Vinyl Chloride	**1.2**	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	5.0
trans-1,2-Dichloroethene	**1.7**	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	**3.8**	0.5
Chloroform	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	**15**	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
2-Chloroethylvinylether	ND	10
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	**24**	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	102	76-127
Toluene-d8	101	90-109
Bromofluorobenzene	115	82-118

Halogenated Volatile Organics
EPA 8010 Analyte List

Client:	LFR-Levine-Fricke	Analysis Method:	EPA 8260A
Project#:	6895.00.014	Prep Method:	EPA 5030
Location:	Former Glovatorium		

Field ID:	GW4-071999	Sampled:	07/19/99
Lab ID:	140518-005	Received:	07/19/99
Matrix:	Water	Extracted:	07/22/99
Batch#:	49488	Analyzed:	07/22/99
Units:	ug/L		
Dilu Fac:	1		

Analyte	Result	Reporting Limit
Freon 12	ND	2.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	5.0
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	3.5	0.5
Chloroform	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	1.7	0.5
Bromodichloromethane	ND	0.5
2-Chloroethylvinylether	ND	10
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	99	76-127
Toluene-d8	101	90-109
Bromofluorobenzene	95	82-118

Lab #: 140518

BATCH QC REPORT

Halogenated Volatile Organics
EPA 8010 Analyte List

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
Batch#: 49488
Units: ug/L
Dilu Fac: 1

Prep Date: 07/22/99
Analysis Date: 07/22/99

MB Lab ID: QC03337

Analyte	Result	Reporting Limit
Freon 12	ND	2.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	5.0
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
2-Chloroethylvinylether	ND	10
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%Rec	Recovery Limits
1,2-Dichloroethane-d4	99	76-127
Toluene-d8	100	90-109
Bromofluorobenzene	116	82-118

Lab #: 140518

BATCH QC REPORT

Halogenated Volatile Organics
EPA 8010 Analyte List

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
Batch#: 49488
Units: ug/L
Diln Fac: 1

Prep Date: 07/22/99
Analysis Date: 07/22/99

MB Lab ID: QC03338

Analyte	Result	Reporting Limit
Freon 12	ND	2.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	5.0
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
2-Chloroethylvinylether	ND	10
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%Rec	Recovery Limits
1,2-Dichloroethane-d4	97	76-127
Toluene-d8	101	90-109
Bromofluorobenzene	117	82-118

Lab #: 140518

BATCH QC REPORT

Halogenated Volatile Organics
EPA 8010 Analyte List

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
Batch#: 49507
Units: ug/L
Diln Fac: 1

Prep Date: 07/23/99
Analysis Date: 07/23/99

MB Lab ID: QC03410

Analyte	Result	Reporting Limit
Freon 12	ND	2.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	5.0
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
2-Chloroethylvinylether	ND	10
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%Rec	Recovery Limits
1,2-Dichloroethane-d4	90	76-127
Toluene-d8	101	90-109
Bromofluorobenzene	90	82-118

Lab #: 140518

BATCH QC REPORT

Halogenated Volatile Organics
EPA 8010 Analyte List

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
Batch#: 49507
Units: ug/L
Diln Fac: 1

Prep Date: 07/23/99
Analysis Date: 07/23/99

MB Lab ID: QC03453

Analyte	Result	Reporting Limit
Freon 12	ND	2.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	5.0
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
2-Chloroethylvinylether	ND	10
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%Rec	Recovery Limits
1,2-Dichloroethane-d4	93	76-127
Toluene-d8	102	90-109
Bromofluorobenzene	90	82-118

Lab #: 140518 BATCH QC REPORT Page

Halogenated Volatile Organics

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Water
Batch#: 49507
Units: ug/L
Diln Fac: 1

Prep Date: 07/23/99
Analysis Date: 07/23/99

LCS Lab ID: QC03411

Analyte	Result	Spike Added	%Rec #	Limits
1,1-Dichloroethene	49.33	50	99	64-139
Trichloroethene	52.93	50	106	72-129
Chlorobenzene	53.77	50	108	77-126

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	89	76-127
Toluene-d8	101	90-109
Bromofluorobenzene	90	82-118

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 3 outside limits

Lab #: 140518

BATCH QC REPORT

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Halogenated Volatile Organics

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water
Batch#: 49488
Units: ug/L
Diln Fac: 1

Prep Date: 07/22/99
Analysis Date: 07/22/99

BS Lab ID: QC03335

Analyte	Spike Added	BS	%Rec	#	Limits
1,1-Dichloroethene	50	48.09	96		64-139
Trichloroethene	50	52.37	105		72-129
Chlorobenzene	50	52.8	106		77-126

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	93	76-127
Toluene-d8	99	90-109
Bromofluorobenzene	96	82-118

BSD Lab ID: QC03336

Analyte	Spike Added	BSD	%Rec	#	Limits	RPD	#	Limit
1,1-Dichloroethene	50	47.45	95		64-139	1		13
Trichloroethene	50	50.75	101		72-129	3		10
Chlorobenzene	50	51.12	102		77-126	3		10

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	99	76-127
Toluene-d8	100	90-109
Bromofluorobenzene	95	82-118

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 3 outside limits
Spike Recovery: 0 out of 6 outside limits

Lab #: 140518 BATCH QC REPORT Page

Halogenated Volatile Organics

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ
Lab ID: 140495-001
Matrix: Water
Batch#: 49507
Units: ug/L
Diln Fac: 1

Sample Date: 07/14/99
Received Date: 07/15/99
Prep Date: 07/23/99
Analysis Date: 07/23/99

MS Lab ID: QC03454

Analyte	Spike Added	Sample	MS	%Rec #	Limits
1,1-Dichloroethene	50	<0.5	50.06	100	59-144
Trichloroethene	50	<0.5	55.13	110	61-136
Chlorobenzene	50	<0.5	55.29	111	78-122

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	92	76-127
Toluene-d8	101	90-109
Bromofluorobenzene	88	82-118

MSD Lab ID: QC03455

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
1,1-Dichloroethene	50	50.66	101	59-144	1	13
Trichloroethene	50	54.68	109	61-136	1	10
Chlorobenzene	50	54.84	110	78-122	1	10

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	91	76-127
Toluene-d8	100	90-109
Bromofluorobenzene	89	82-118

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 3 outside limits
Spike Recovery: 0 out of 6 outside limits

H0518

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6895.00.014

Project Location: Oakland, CA

Date: 7/19/99

Serial № 5670

Project Name: Former Glovatorium

Field Logbook No.:

Sample Event Name: Soil + groundwater investigation

Sampler (Signature): James R. Burke

Samplers: JRB

SAMPLE INFORMATION (Print Clearly)

ANALYSES

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	VOC 8010	TPH 8015	BTEX 8020				HOLD	RUSH	REMARKS
TB-071999	7/19/99	1300		3	water	X		X				X		Include Stoddard solvent standard as TPH fingerprint
GW2-0719	↓	15:25		3	↓	X	X	X						
GW12-0719		15:45		3		X	X	X						
GW3-0719		16:10		3		X	X	X						
GW4-0719		16:30		1		X	~~X~~	~~X~~ No TPH/BTEX						Normal turn around time
GW4-0719 - FB	7/19/99	14:50		3	water	X	X	X						
JRB 7/19/99														

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
James R. Burke	7/19/99	17:05	[signature]	7/19/99	17:05
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME

METHOD OF SHIPMENT: DATE TIME

LAB COMMENTS:

Sample Collector: LEVINE·FRICKE·RECON
1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500

Analytical Laboratory:

Shipping Copy (White) Lab Copy (Yellow) File Copy (Pink) Field Copy (Goldenrod)

9999\COCTEMP.COR 042998

LFR
LEVINE•FRICKE

1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500, FAX (510) 652-4906

FAX TRANSMISSION: This cover page plus 2 pages.

Date	July 20, 1999
Time	4:45PM
From	Taylor Bennett

Deliver To	Tracy Babjar		
Name of Firm	Curtis & Tompkins		
FAX Number	486-0532	Project No.	6895.00-017

Comments: I'm sending you the login request and revised C.O.C. #3670 to confirm our telephone conversation today for project 6895.00-017. This is just a confirmation, not a new request.

MUSIC

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6895.00.014	Project Location: Oakland, CA	Date: 7/19/99	Serial № 5670
Project Name: Former Celovaturium	Field Logbook No.: --	Sample Event Name: Soil & groundwater investigation	
Sampler (Signature): James R. Burke			Samplers: JRB

ANALYSES

SAMPLE INFORMATION (Print Clearly)

	SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	VOC 8010	TPH 8015	BTEX 8020				HOLD	RUSH	REMARKS
1	TB_071999	7/19/99	1300		3	water	X		X				X		Include Stoddard
2	GW2_0719	↓	15:25		3	↓	X	X	X						solvent standard
3	GW2_0719		15:45		3		X	X	X						as TPH fingerprint
4	GW_0719		16:10		3		X	X	X						
5	GW4_0719	↓	16:30		1	↓	X	~~X~~	~~X~~ — No TPH/BTEX						Normal turn
6	GW4_0719 — FB	7/19/99	14:50		3	water	X	X	X				X		around time
	on 7/19														7/20/99 (THB) Analyze
															TB_071999; Place
															GW4_0719 on hold.

RELINQUISHED BY: (Signature) James R. Burke	DATE 7/19/99	TIME 17:05	RECEIVED BY: (Signature) [signature]	DATE 7/19/99	TIME 17:05
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE-RECON 1900 Powell Street, 12th Floor Emeryville, California 94608-1827 (510) 652-4500	Analytical Laboratory:

Shipping Copy (White) Lab Copy (Yellow) File Copy (Pink) Field Copy (Goldenrod)

AUG 25 '99 23:54 FR LFR LEVINE FRICKE 510 652 4906 TO 3379335 PAGE.03
JUL 20 '99 13:12 P.31/32

13:09:09

Curtis & Tompkins, Berkeley
Login Number: 140518

07/20/99

Project: 6815.00.014
Site: Former Elevatorium
Account #: LFR
Logged By: JOI
SDH:
Proj. Mgr: TLB

Report To: LFR-Levine-Fricke
1900 Powell Street
12th Floor
Emeryville, CA 94608
ATTN: Susan Shiu
(510) 652 - 4500

Bill To: LFR-Levine-Fricke LFR
Accounting
1900 Powell Street
Emeryville, CA 94608
ATTN: Renee Henderson
(510) 652 - 4500

Sample #	Alias	Client ID / Supp Id.	Samp	Ord	Recv	Hold	Due	Matrix	Loc	Analyses	Comments
140518-001		TB 071999	07/19	07/20	07/19						COMMENTS:
						07/26	07/26	Water	BK	HOLD	Comments: Analyze for EPA 8010, EPA 8015 (Stoddard), and EPA 8020 BTEX and MTBE
140518-002		GW3-071999	07/19	07/20	07/19						COMMENTS:
						08/02	07/26	Water	BK	8010HS	Comments:
							07/26	Water	BK	TVH/BTXE	Comments: stoddard,MTBE
						08/02	07/26	Water	BK	BTXE	Comments: stoddard,MTBE
						08/02	07/26	Water	BK	TVH	Comments: stoddard,MTBE
140518-003		GW2-071999	07/19	07/20	07/19						COMMENTS:
						08/02	07/26	Water	BK	8010HS	Comments:
							07/26	Water	BK	TVH/BTXE	Comments: stoddard,MTBE
						08/02	07/26	Water	BK	BTXE	Comments: stoddard,MTBE
						08/02	07/26	Water	BK	TVH	Comments: stoddard,MTBE
140518-004		GW8-071999	07/19	07/20	07/19						COMMENTS:
						08/02	07/26	Water	BK	8010HS	Comments:
							07/26	Water	BK	TVH/BTXE	Comments: stoddard,MTBE
						08/02	07/26	Water	BK	BTXE	Comments: stoddard,MTBE
						08/02	07/26	Water	BK	TVH	Comments: stoddard,MTBE
140518-005		GW1-071999	07/19	07/20	07/19						COMMENTS:
						08/02	07/26	Water	BK	8010HS	Comments: One VOA!!!!
140518-006		GW1-071999-FB	07/19	07/20	07/19						COMMENTS:
						~~08/02~~	~~07/26~~	~~Water~~	~~BK~~	~~8010HS~~	~~Comments:~~ HOLD
							~~07/26~~	~~Water~~	~~BK~~	~~TVH/BTXE~~	~~Comments: stoddard,MTBE~~
						~~08/02~~	~~07/26~~	~~Water~~	~~BK~~	~~BTXE~~	~~Comments: stoddard,MTBE~~
						~~08/02~~	~~07/26~~	~~Water~~	~~BK~~	~~TVH~~	~~Comments: stoddard,MTBE~~

LFR
LEVINE•FRICKE

1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500, FAX (510) 652-4906

FAX TRANSMISSION: This cover page plus 34 pages.

Date	**August 25, 1999**
Time	**11:10PM**
From	**Taylor Bennett**

Deliver To	**Scott Seery, CHMM**		
Name of Firm	**Alameda County Health Care Services Agency**		
FAX Number	**(510) 337-9335**	Project No.	**6895.00-020**

Comments: As you requested today, following are the laboratory results for samples collected at the former Glovatorium so far. Each laboratory report is being sent as a separate fax. There is a total of five reports. LFR has not yet completed a QA/QC review of these data.

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

ANALYTICAL REPORT

Prepared for:

LFR-Levine-Fricke
1900 Powell Street
12th Floor
Emeryville, CA 94608

Date: 28-JUL-99
Lab Job Number: 140466
Project ID: 6895.00.014
Location: Former Glovatorium

Reviewed by: Tracy Bobjon

Reviewed by:

Curtis & Tompkins, Ltd.

Laboratory Numbers: **140466**
Client: **LFR-Levine-Fricke**
Project #: **6895.00.014**
Location: **Former Glovatorium**
COC#: **5669**

Sampled Date: **07/15/99**
Received Date: **07/15/99**

CASE NARRATIVE

This hardcopy data package contains sample and QC results for four soil samples, which were received from the site referenced above on July 15, 1999. Four samples were placed on hold upon receipt. The samples were received cold and intact. Three soil samples were taken off hold by Taylor Bennett on July 19,1999. All data were faxed to Taylor Bennett on July 28, 1999.

TVH/BTXE:
No analytical problems were encountered.

VOCs (EPA 8260):
No analytical problems were encountered.

Curtis & Tompkins, Ltd.

TVH-Total Volatile Hydrocarbons

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8015M
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140466-001	GW7-9	49395	07/15/99	07/18/99	07/18/99	
140466-002	GW7-11	49442	07/15/99	07/21/99	07/21/99	
140466-003	GW7-14	49442	07/15/99	07/21/99	07/21/99	
140466-004	GW7-16	49442	07/15/99	07/21/99	07/21/99	

Matrix: Soil

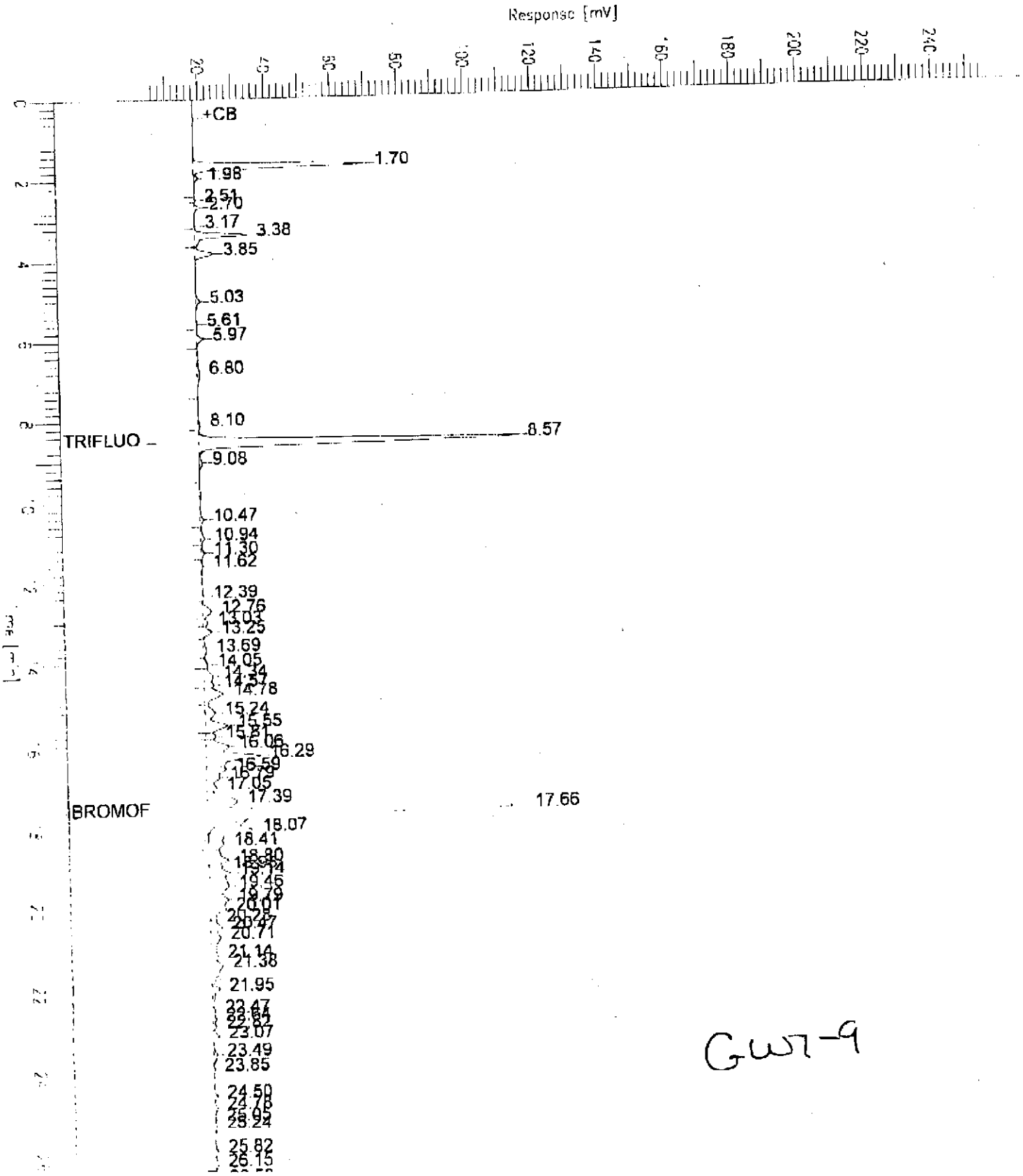
Analyte	Units	140466-001	140466-002	140466-003	140466-004
Diln Fac:		1	1	1	1
Gasoline C7-C12	mg/Kg	1.4YH	<1	<1	<1
Stoddard Solvent	mg/Kg	<1	<1	<1	<1
Surrogate					
Trifluorotoluene	%REC	107	105	105	106
Bromofluorobenzene	%REC	138	119	117	114

Y: Sample exhibits fuel pattern which does not resemble standard
H: Heavier hydrocarbons than indicated standard

Chromatogram

Sample Name : 140466-001,49395,+stoddard
FileName : G:\GC05\DATA\1990007.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: -1.0 Plot Offset: 6 mV

Sample #:
Date : 7/18/99 11:02 PM
Time of Injection: 7/18/99 10:35 PM
Low Point : 5.88 mV High Point : 255.88 mV
Plot Scale: 250.0 mV

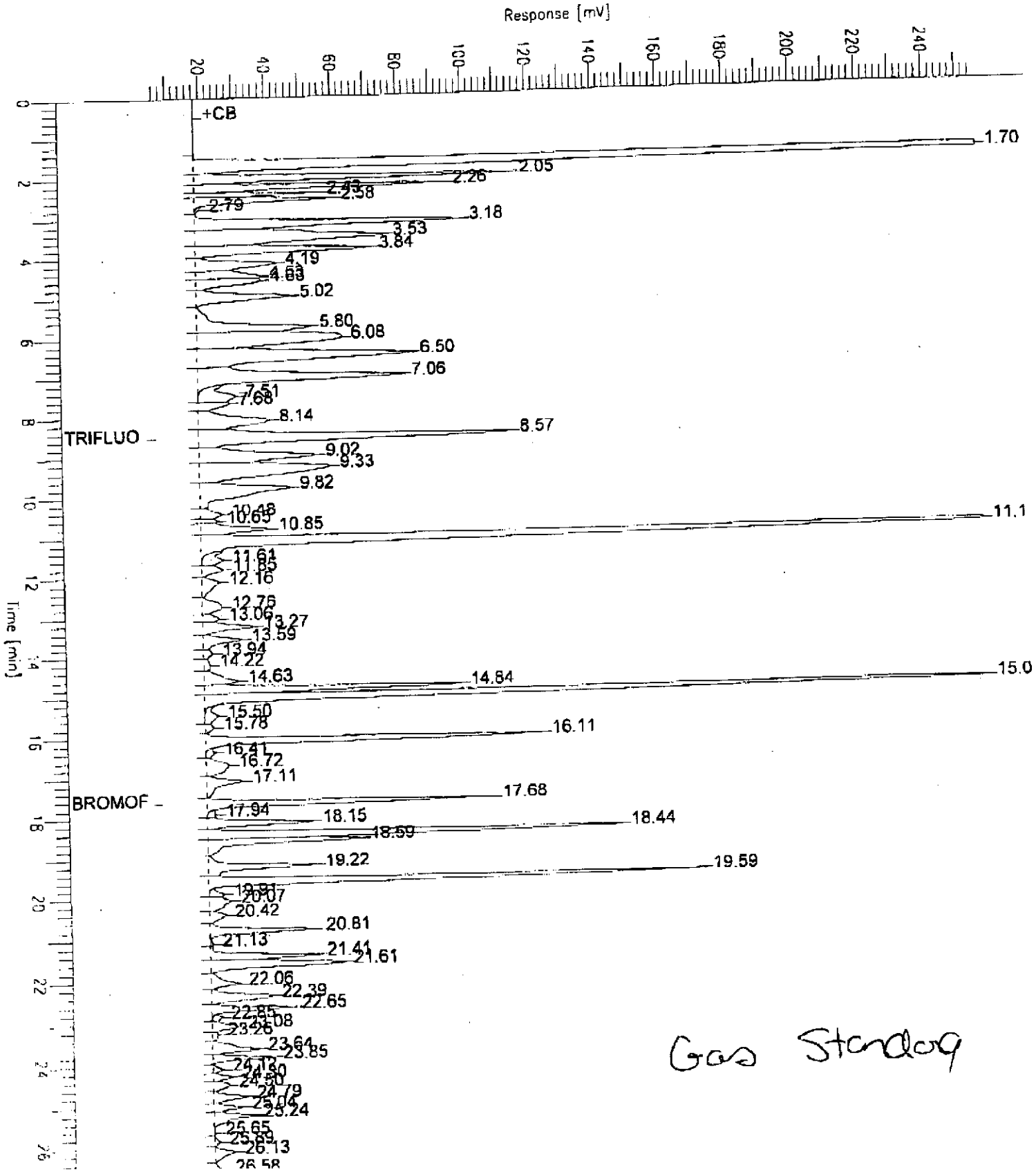


GW7-9

Chromatogram

Sample Name : ccv/lcs,qc02979,99ws7780,49395
FileName : G:\GC05\DATA\199G001.raw
Method : TVHBTXB
Start Time : 0.00 min
End Time : 26.80 min
Scale Factor: -1.0
Plot Offset: 6 mV

Sample #: 199gh,gas
Date : 7/18/99 06:40 PM
Time of Injection: 7/18/99 06:13 PM
Low Point : 5.93 mV
High Point : 255.93 mV
Plot Scale: 250.0 mV

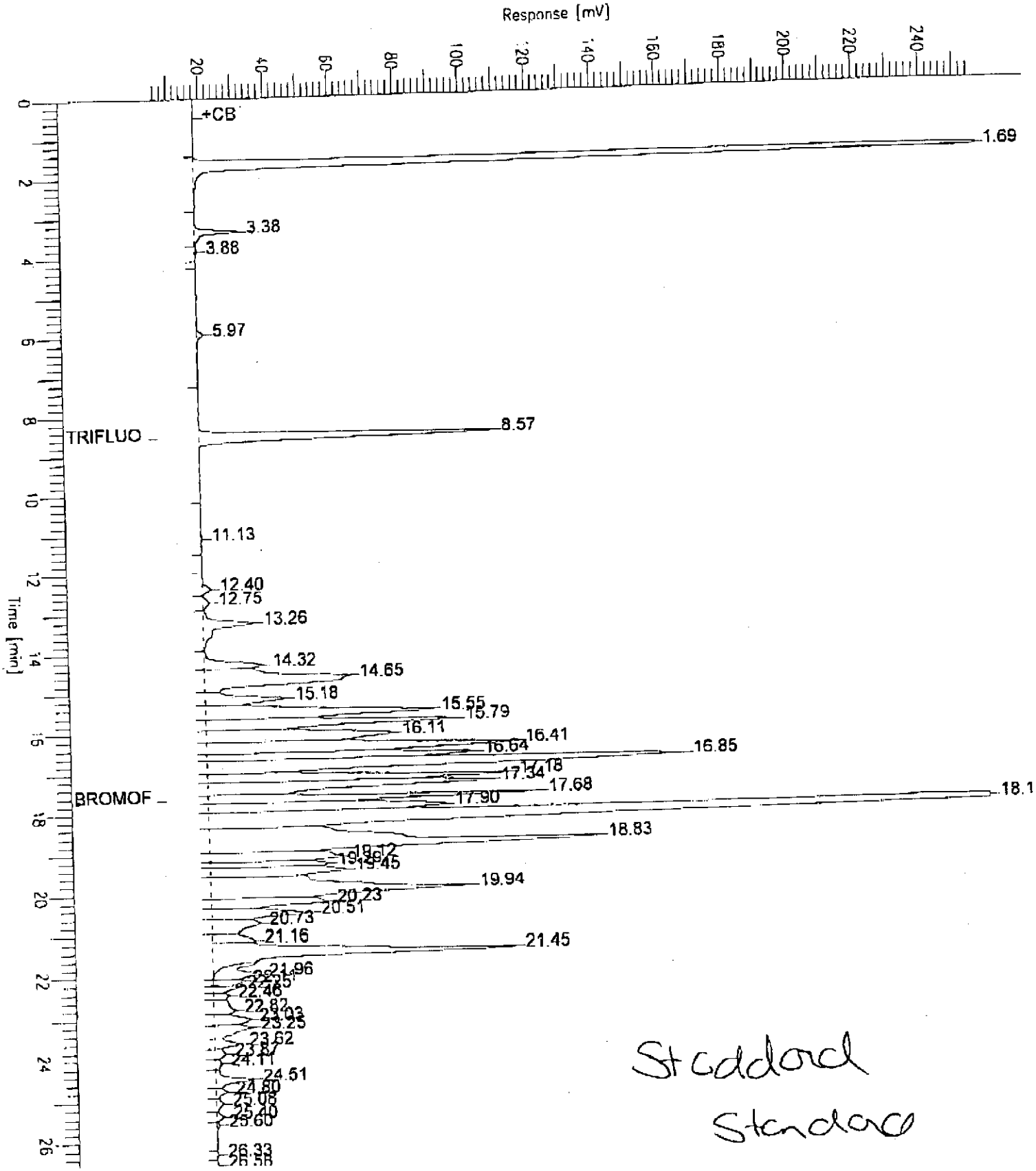


Gas Standard

Chromatogram

Sample Name : ccv,99ws7145,49395
FileName : G:\GC05\DATA\199G003.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: -1.0
End Time : 26.80 min
Plot Offset: 6 mV

Sample #: stoddard
Date : 7/18/99 08:01 PM
Time of Injection: 7/18/99 07:33 PM
Low Point : 5.85 mV
High Point : 255.85 mV
Plot Scale: 250.0 mV



Stoddard

Standard

Curtis & Tompkins, Ltd.

BTXE

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8021B
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140466-001	GW7-9	49395	07/15/99	07/18/99	07/18/99	
140466-002	GW7-11	49442	07/15/99	07/21/99	07/21/99	
140466-003	GW7-14	49442	07/15/99	07/21/99	07/21/99	
140466-004	GW7-16	49442	07/15/99	07/21/99	07/21/99	

Matrix: Soil

Analyte	Units	140466-001	140466-002	140466-003	140466-004
Diln Fac:		1	1	1	1
MTBE	ug/Kg	<20	<20	<20	<20
Benzene	ug/Kg	<5	<5	<5	<5
Toluene	ug/Kg	<5	<5	<5	<5
Ethylbenzene	ug/Kg	<5	<5	<5	<5
m,p-Xylenes	ug/Kg	<5	<5	<5	<5
o-Xylene	ug/Kg	<5	<5	<5	<5
Surrogate					
Trifluorotoluene	%REC	97	93	94	94
Bromofluorobenzene	%REC	107	99	99	98

Curtis & Tompkins, Ltd.

Lab #: 140466

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8015M
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 49395
Units: mg/Kg
Diln Fac: 1

Prep Date: 07/18/99
Analysis Date: 07/18/99

MB Lab ID: QC02978

Analyte	Result
Gasoline C7-C12	<1.0
Stoddard Solvent	<1.0

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	100	62-143
Bromofluorobenzene	102	59-150

Curtis & Tompkins, Ltd.

Lab #: 140466

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client:	LFR-Levine-Fricke	Analysis Method:	EPA 8015M
Project#:	6895.00.014	Prep Method:	EPA 5030
Location:	Former Glovatorium		

METHOD BLANK

Matrix:	Soil	Prep Date:	07/20/99
Batch#:	49442	Analysis Date:	07/20/99
Units:	mg/Kg		
Diln Fac:	1		

MB Lab ID: QC03153

Analyte	Result
Gasoline C7-C12	<1.0
Stoddard Solvent	<1.0

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	103	62-143
Bromofluorobenzene	114	59-150

Curtis & Tompkins, Ltd.

Lab #: 140466

BATCH QC REPORT

BTXE

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8021B
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 49395
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/18/99
Analysis Date: 07/18/99

MB Lab ID: QC02978

Analyte	Result
MTBE	<20
Benzene	<5.0
Toluene	<5.0
Ethylbenzene	<5.0
m,p-Xylenes	<5.0
o-Xylene	<5.0

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	89	59-134
Bromofluorobenzene	90	38-150

Curtis & Tompkins, Ltd.

Lab #: 140466

BATCH QC REPORT

BTXE

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8021B
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 49442
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/20/99
Analysis Date: 07/20/99

MB Lab ID: QC03153

Analyte	Result
MTBE	<20
Benzene	<5.0
Toluene	<5.0
Ethylbenzene	<5.0
m,p-Xylenes	<5.0
o-Xylene	<5.0

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	89	59-134
Bromofluorobenzene	93	38-150

Curtis & Tompkins, Ltd.

Lab #: 140466

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8015M
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 49395
Units: mg/Kg
Diln Fac: 1

Prep Date: 07/18/99
Analysis Date: 07/18/99

LCS Lab ID: QC02979

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline C7-C12	10.08	10	101	77-122

Surrogate	%Rec	Limits
Trifluorotoluene	126	62-143
Bromofluorobenzene	101	59-150

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits

Curtis & Tompkins, Ltd.

Lab #: 140466

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8015M
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 49442
Units: mg/Kg
Diln Fac: 1

Prep Date: 07/20/99
Analysis Date: 07/20/99

LCS Lab ID: QC03154

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline C7-C12	10.38	10	104	77-122

Surrogate	%Rec	Limits
Trifluorotoluene	130	62-143
Bromofluorobenzene	108	59-150

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits

Curtis & Tompkins, Ltd.

Lab #: 140466

BATCH QC REPORT

BTXE

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8021B
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 49395
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/18/99
Analysis Date: 07/18/99

LCS Lab ID: QC02980

Analyte	Result	Spike Added	%Rec #	Limits
MTBE	82.58	100	83	59-135
Benzene	95.7	100	96	67-116
Toluene	89.23	100	89	77-122
Ethylbenzene	94.63	100	95	70-124
m,p-Xylenes	189.7	200	95	75-125
o-Xylene	97.16	100	97	75-126

Surrogate	%Rec	Limits
Trifluorotoluene	94	59-134
Bromofluorobenzene	99	38-150

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 6 outside limits

Curtis & Tompkins, Ltd.

Lab #: 140466

BATCH QC REPORT

BTXE

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8021B
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 49442
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/20/99
Analysis Date: 07/20/99

LCS Lab ID: QC03155

Analyte	Result	Spike Added	%Rec #	Limits
MTBE	99.25	100	99	59-135
Benzene	103.3	100	103	67-116
Toluene	101.3	100	101	77-122
Ethylbenzene	106.2	100	106	70-124
m,p-Xylenes	218.9	200	109	75-125
o-Xylene	110.5	100	110	75-126

Surrogate	%Rec	Limits
Trifluorotoluene	95	59-134
Bromofluorobenzene	97	38-150

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 6 outside limits

Curtis & Tompkins, Ltd.

Lab #: 140466

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8015M
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ
Lab ID: 140457-006
Matrix: Soil
Batch#: 49395
Units: mg/Kg
Diln Fac: 1

Sample Date: 07/13/99
Received Date: 07/15/99
Prep Date: 07/18/99
Analysis Date: 07/18/99

MS Lab ID: QC02981

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline C7-C12	10	<1	9.9	99	55-134

Surrogate	%Rec	Limits
Trifluorotoluene	131	62-143
Bromofluorobenzene	109	59-150

MSD Lab ID: QC02982

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline C7-C12	10	9.83	98	55-134	1	30

Surrogate	%Rec	Limits
Trifluorotoluene	130	62-143
Bromofluorobenzene	107	59-150

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

Curtis & Tompkins, Ltd.

Lab #: 140466

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8015M
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ
Lab ID: 140511-004
Matrix: Soil
Batch#: 49442
Units: mg/Kg
Diln Fac: 1

Sample Date: 07/15/99
Received Date: 07/16/99
Prep Date: 07/21/99
Analysis Date: 07/21/99

MS Lab ID: QC03156

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline C7-C12	10	<1	7.19	72	55-134

Surrogate	%Rec	Limits
Trifluorotoluene	128	62-143
Bromofluorobenzene	114	59-150

MSD Lab ID: QC03157

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline C7-C12	10	7.69	77	55-134	7	30

Surrogate	%Rec	Limits
Trifluorotoluene	129	62-143
Bromofluorobenzene	114	59-150

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

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Halogenated Volatile Organics
EPA 8010 Analyte List

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

Field ID: SW7-9
Lab ID: 140466-001
Matrix: Soil
Batch#: 49417
Units: ug/Kg
Diln Fac: 1.02

Sampled: 07/15/99
Received: 07/15/99
Extracted: 07/19/99
Analyzed: 07/19/99

Analyte	Result	Reporting Limit
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.1
Freon 113	ND	5.1
1,1-Dichloroethene	ND	5.1
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	5.1
1,1-Dichloroethane	ND	5.1
cis-1,2-Dichloroethene	ND	5.1
Chloroform	ND	5.1
1,1,1-Trichloroethane	ND	5.1
Carbon Tetrachloride	ND	5.1
1,2-Dichloroethane	ND	5.1
Trichloroethene	ND	5.1
1,2-Dichloropropane	ND	5.1
Bromodichloromethane	ND	5.1
cis-1,3-Dichloropropene	ND	5.1
trans-1,3-Dichloropropene	ND	5.1
1,1,2-Trichloroethane	ND	5.1
Tetrachloroethene	ND	5.1
Dibromochloromethane	ND	5.1
Chlorobenzene	ND	10
Bromoform	ND	5.1
1,1,2,2-Tetrachloroethane	ND	5.1
1,3-Dichlorobenzene	ND	5.1
1,4-Dichlorobenzene	ND	5.1
1,2-Dichlorobenzene	ND	5.1

Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	111	80-129
Toluene-d8	94	88-111
Bromofluorobenzene	108	76-128

Halogenated Volatile Organics
EPA 8010 Analyte List

Client:	LFR-Levine-Fricke	Analysis Method:	EPA 8260A
Project#:	6895.00.014	Prep Method:	EPA 5030
Location:	Former Glovatorium		
Field ID:	GW7-11	Sampled:	07/15/99
Lab ID:	140466-002	Received:	07/15/99
Matrix:	Soil	Extracted:	07/26/99
Batch#:	49547	Analyzed:	07/26/99
Units:	ug/Kg		
Diln Fac:	0.9804		

Analyte	Result	Reporting Limit
Chloromethane	ND	9.8
Vinyl Chloride	ND	9.8
Bromomethane	ND	9.8
Chloroethane	ND	9.8
Trichlorofluoromethane	ND	4.9
Freon 113	ND	4.9
1,1-Dichloroethene	ND	4.9
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	4.9
1,1-Dichloroethane	ND	4.9
cis-1,2-Dichloroethene	ND	4.9
Chloroform	ND	4.9
1,1,1-Trichloroethane	ND	4.9
Carbon Tetrachloride	ND	4.9
1,2-Dichloroethane	ND	4.9
Trichloroethene	ND	4.9
1,2-Dichloropropane	ND	4.9
Bromodichloromethane	ND	4.9
cis-1,3-Dichloropropene	ND	4.9
trans-1,3-Dichloropropene	ND	4.9
1,1,2-Trichloroethane	ND	4.9
Tetrachloroethene	ND	4.9
Dibromochloromethane	ND	4.9
Chlorobenzene	ND	4.9
Bromoform	ND	9.8
1,1,2,2-Tetrachloroethane	ND	4.9
1,3-Dichlorobenzene	ND	4.9
1,4-Dichlorobenzene	ND	4.9
1,2-Dichlorobenzene	ND	4.9

Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	105	80-129
Toluene-d8	100	88-111
Bromofluorobenzene	103	76-128

Halogenated Volatile Organics
EPA 8010 Analyte List

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

Field ID: ~~GW7-14~~
Lab ID: 140466-003
Matrix: Soil
Batch#: 49498
Units: ug/Kg
Diln Fac: 0.9259

Sampled: 07/15/99
Received: 07/15/99
Extracted: 07/23/99
Analyzed: 07/23/99

Analyte	Result	Reporting Limit
Chloromethane	ND	9.3
Vinyl Chloride	ND	9.3
Bromomethane	ND	9.3
Chloroethane	ND	9.3
Trichlorofluoromethane	ND	4.6
Freon 113	ND	4.6
1,1-Dichloroethene	ND	4.6
Methylene Chloride	ND	19
trans-1,2-Dichloroethene	ND	4.6
1,1-Dichloroethane	ND	4.6
cis-1,2-Dichloroethene	ND	4.6
Chloroform	ND	4.6
1,1,1-Trichloroethane	ND	4.6
Carbon Tetrachloride	ND	4.6
1,2-Dichloroethane	ND	4.6
Trichloroethene	ND	4.6
1,2-Dichloropropane	ND	4.6
Bromodichloromethane	ND	4.6
cis-1,3-Dichloropropene	ND	4.6
trans-1,3-Dichloropropene	ND	4.6
1,1,2-Trichloroethane	ND	4.6
Tetrachloroethene	ND	4.6
Dibromochloromethane	ND	4.6
Chlorobenzene	ND	4.6
Bromoform	ND	9.3
1,1,2,2-Tetrachloroethane	ND	4.6
1,3-Dichlorobenzene	ND	4.6
1,4-Dichlorobenzene	ND	4.6
1,2-Dichlorobenzene	ND	4.6

Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	102	80-129
Toluene-d8	91	88-111
Bromofluorobenzene	103	76-128

Halogenated Volatile Organics
EPA 8010 Analyte List

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

Field ID: GW7-10
Lab ID: 140466-004
Matrix: Soil
Batch#: 49547
Units: ug/Kg
Diln Fac: 0.9804

Sampled: 07/15/99
Received: 07/15/99
Extracted: 07/26/99
Analyzed: 07/26/99

Analyte	Result	Reporting Limit
Chloromethane	ND	9.8
Vinyl Chloride	ND	9.8
Bromomethane	ND	9.8
Chloroethane	ND	9.8
Trichlorofluoromethane	ND	4.9
Freon 113	ND	4.9
1,1-Dichloroethene	ND	4.9
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	4.9
1,1-Dichloroethane	ND	4.9
cis-1,2-Dichloroethene	ND	4.9
Chloroform	ND	4.9
1,1,1-Trichloroethane	ND	4.9
Carbon Tetrachloride	ND	4.9
1,2-Dichloroethane	ND	4.9
Trichloroethene	ND	4.9
1,2-Dichloropropane	ND	4.9
Bromodichloromethane	ND	4.9
cis-1,3-Dichloropropene	ND	4.9
trans-1,3-Dichloropropene	ND	4.9
1,1,2-Trichloroethane	ND	4.9
Tetrachloroethene	ND	4.9
Dibromochloromethane	ND	4.9
Chlorobenzene	ND	4.9
Bromoform	ND	9.8
1,1,2,2-Tetrachloroethane	ND	4.9
1,3-Dichlorobenzene	ND	4.9
1,4-Dichlorobenzene	ND	4.9
1,2-Dichlorobenzene	ND	4.9

Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	109	80-129
Toluene-d8	102	88-111
Bromofluorobenzene	102	76-128

Lab #: 140466

BATCH QC REPORT

Halogenated Volatile Organics
EPA 8010 Analyte List

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

**METHOD BLANK

Matrix: Soil
Batch#: 49417
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/19/99
Analysis Date: 07/19/99

MB Lab ID: QC03063

Analyte	Result	Reporting Limit
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
Chlorobenzene	ND	10
Bromoform	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0

Surrogate	%Rec	Recovery Limits
1,2-Dichloroethane-d4	108	80-129
Toluene-d8	89	88-111
Bromofluorobenzene	105	76-128

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Lab #: 140466

BATCH QC REPORT

Halogenated Volatile Organics
EPA 8010 Analyte List

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 49498
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/22/99
Analysis Date: 07/22/99

MB Lab ID: QC03376

Analyte	Result	Reporting Limit
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
Chlorobenzene	ND	10
Bromoform	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0

Surrogate	%Rec	Recovery Limits
1,2-Dichloroethane-d4	104	80-129
Toluene-d8	100	88-111
Bromofluorobenzene	105	76-128

Lab #: 140466

BATCH QC REPORT

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Halogenated Volatile Organics
EPA 8010 Analyte List

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 49547
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/26/99
Analysis Date: 07/26/99

MB Lab ID: QC03559

Analyte	Result	Reporting Limit
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
Chlorobenzene	ND	10
Bromoform	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0

Surrogate	%Rec	Recovery Limits
1,2-Dichloroethane-d4	109	80-129
Toluene-d8	102	88-111
Bromofluorobenzene	101	76-128

Lab #: 140466 BATCH QC REPORT Page

Halogenated Volatile Organics

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 49417
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/19/99
Analysis Date: 07/19/99

LCS Lab ID: QC03062

Analyte	Result	Spike Added	%Rec #	Limits
1,1-Dichloroethene	46.68	50	93	63-144
Trichloroethene	45.61	50	91	70-131
Chlorobenzene	44.26	50	89	74-126

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	105	80-129
Toluene-d8	94	88-111
Bromofluorobenzene	91	76-128

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 3 outside limits

Lab #: 140466

BATCH QC REPORT

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Halogenated Volatile Organics

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 49498
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/22/99
Analysis Date: 07/22/99

LCS Lab ID: QC03375

Analyte	Result	Spike Added	%Rec #	Limits
1,1-Dichloroethene	53.34	50	107	63-144
Trichloroethene	50.09	50	100	70-131
Chlorobenzene	49.42	50	99	74-126

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	96	80-129
Toluene-d8	97	88-111
Bromofluorobenzene	95	76-128

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 3 outside limits

Lab #: 140466 BATCH QC REPORT Page

Halogenated Volatile Organics	
Client: LFR-Levine-Fricke	Analysis Method: EPA 8260A
Project#: 6895.00.014	Prep Method: EPA 5030
Location: Former Glovatorium	

LABORATORY CONTROL SAMPLE	
Matrix: Soil	Prep Date: 07/26/99
Batch#: 49547	Analysis Date: 07/26/99
Units: ug/Kg	
Diln Fac: 1	

LCS Lab ID: QC03558

Analyte	Result	Spike Added	%Rec #	Limits
1,1-Dichloroethene	49.81	50	100	63-144
Trichloroethene	47.39	50	95	70-131
Chlorobenzene	47.09	50	94	74-126

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	104	80-129
Toluene-d8	101	88-111
Bromofluorobenzene	99	76-128

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 3 outside limits

Lab #: 140466

BATCH QC REPORT

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Halogenated Volatile Organics

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ
Lab ID: 140483-001
Matrix: Soil
Batch#: 49417
Units: ug/Kg
Diln Fac: 1

Sample Date: 07/16/99
Received Date: 07/17/99
Prep Date: 07/19/99
Analysis Date: 07/19/99

MS Lab ID: QC03081

Analyte	Spike Added	Sample	MS	%Rec #	Limits
1,1-Dichloroethene	50	<5	49.92	100	51-137
Trichloroethene	50	<5	46.11	92	33-153
Chlorobenzene	50	<5	43.99	88	39-132

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	99	80-129
Toluene-d8	93	88-111
Bromofluorobenzene	92	76-128

MSD Lab ID: QC03082

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
1,1-Dichloroethene	48.08	49.1	102	51-137	2	35
Trichloroethene	48.08	47.82	99	33-153	4	44
Chlorobenzene	48.08	43.84	91	39-132	0	47

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	100	80-129
Toluene-d8	97	88-111
Bromofluorobenzene	91	76-128

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 3 outside limits
Spike Recovery: 0 out of 6 outside limits

Lab #: 140466

BATCH QC REPORT

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Halogenated Volatile Organics

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: GW7-11
Lab ID: 140466-002
Matrix: Soil
Batch#: 49498
Units: ug/Kg
Diln Fac: 0.9804

Sample Date: 07/15/99
Received Date: 07/15/99
Prep Date: 07/23/99
Analysis Date: 07/23/99

MS Lab ID: QC03377

Analyte	Spike Added	Sample	MS	%Rec #	Limits
1,1-Dichloroethene	49.02	<4.902	53.07	108	51-137
Trichloroethene	49.02	<4.902	45.5	93	33-153
Chlorobenzene	49.02	<4.902	42.64	87	39-132

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	111	80-129
Toluene-d8	103	88-111
Bromofluorobenzene	95	76-128

MSD Lab ID: QC03378

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
1,1-Dichloroethene	50	59.42	119	51-137	11	35
Trichloroethene	50	50.32	101	33-153	10	44
Chlorobenzene	50	43.86	88	39-132	3	47

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	101	80-129
Toluene-d8	98	88-111
Bromofluorobenzene	100	76-128

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 3 outside limits
Spike Recovery: 0 out of 6 outside limits

Lab #: 140466

BATCH QC REPORT

Page

Halogenated Volatile Organics

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ
Lab ID: 140511-002
Matrix: Soil
Batch#: 49547
Units: ug/Kg
Diln Fac: 0.9615

Sample Date: 07/15/99
Received Date: 07/16/99
Prep Date: 07/26/99
Analysis Date: 07/26/99

MS Lab ID: QC03560

Analyte	Spike Added	Sample	MS	%Rec #	Limits
1,1-Dichloroethene	48.08	<4.808	47.46	99	51-137
Trichloroethene	48.08	<4.808	43.28	90	33-153
Chlorobenzene	48.08	<4.808	41.56	86	39-132

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	107	80-129
Toluene-d8	100	88-111
Bromofluorobenzene	100	76-128

MSD Lab ID: QC03561

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
1,1-Dichloroethene	50	50.96	102	51-137	7	35
Trichloroethene	50	45.72	91	33-153	5	44
Chlorobenzene	50	44.24	88	39-132	6	47

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	108	80-129
Toluene-d8	102	88-111
Bromofluorobenzene	101	76-128

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 3 outside limits
Spike Recovery: 0 out of 6 outside limits

140466

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6895.00.014	Project Location: Oakland, CA.	Date: 7/15/99	Serial No: 5669
Project Name: Former Glovatorium	Field Logbook No.:	Sample Event Name: Soil + Grab Groundwater Sample	
Sampler (Signature): James R. Burke			Samplers:

SAMPLE INFORMATION (Print Clearly) — ANALYSES

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	VOC 8010	TPH-D 8015 *	BTEX 8020			HOLD	RUSH	REMARKS
1 GW7-9	7/15/99	15:00		1	Soil	X	X	X			X		* Please use Stoddard solvent standard for TPH fingerprinting
2 GW7-11		15:10		1		X	X	X			X		
3 GW7-14		15:20		1		X	X	X			X		
4 GW7-16		15:30		1		X	X	X			X		
5 GW7-19		15:40		1		X	X	X			X		Normal Turn around Time

RELINQUISHED BY: (Signature) James R. Burke	DATE 7/15/99	TIME 17 45	RECEIVED BY: (Signature)	DATE 7/15/99	TIME 17 45
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE-RECON
1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500

Analytical Laboratory: Curtis & Tompkin

Shipping Copy (White) Lab Copy (Yellow) File Copy (Pink) Field Copy (Goldenrod)

9999\COCIEMP.CDR 042998

Former laboratories

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 140466 Date Received: 7/15 Number of Coolers: 1

Client: LFR Project: 6895.00.014

A. Preliminary Examination Phase

Date Opened: 7/15 By (print): J. Williams (sign) J. Williams

1. Did cooler come with a shipping slip (airbill, etc.)? YES (NO)
   If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler? YES (NO)
   How many and where? Seal date: Seal name:
3. Were custody seals unbroken and intact at the date and time of arrival? YES NO NA
4. Were custody papers dry and intact when received? (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? (YES) NO
6. Did you sign the custody papers in the appropriate place? (YES) NO
7. Was project identifiable from custody papers? (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? (YES) NO
   Type of ice: Wet Temperature: 6.0°C

B. Login Phase

Date Logged In: 7/15 By (print): J. Williams (sign) J. Williams

1. Describe type of packing in cooler:
2. Did all bottles arrive unbroken? (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? (YES) NO
4. Did bottle labels agree with custody papers? (YES) NO
5. Were appropriate containers used for the tests indicated? (YES) NO
6. Were correct preservatives added to samples? (YES) NO
7. Was sufficient amount of sample sent for tests indicated? YES NO NA
8. Were bubbles absent in VOA samples? If NO, list sample Ids below. YES NO
9. Was the client contacted concerning this sample delivery? YES NO
   If YES, give details below.
   Who was called? By whom? Date:

Additional Comments:

Rev. 1 4/95

Filename: F:\qc\forms\cooler.wpd

LFR
LEVINE • FRICKE

1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500, FAX (510) 652-4906

FAX TRANSMISSION: This cover page plus 1 page.

Date	July 19, 1999
Time	5:47PM
From	Taylor Bennett

Deliver To	Tracy Babjar		
Name of Firm	Curtis & Tompkins		
FAX Number	486-0532	Project No.	6895.00-017

Comments: Following is a revised C.O.C. #5669 for project 6895.00-017. Please analyze samples GW-7-11, ~~GW-7-14~~, and ~~GW-7-16~~.

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CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: CX75.00.014

Project Location:

Date: 7/15/99

Serial № 5669

Project Name: Former Cl...

Field Logbook No.:

Sample Event Name:

Sampler (Signature):

Samplers:

ANALYSES

SAMPLE INFORMATION (Print Clearly)

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	VOC 8010	TPH 8015 *	BTEX 8020				HOLD	RUSH	REMARKS
GW7-9	7/15/99	[illegible]		1	Soil	X	X	X				X		* Please use
GW7-11	↓	[illegible]		1	↓	X	X	X				X		added solvent
GW7-14	↓	[illegible]		1	↓	X	X	X				X		standard for TPH
GW7-16	↓	[illegible]		1	↓	X	X	X				X		fingerprinting.
GW7-19	↓	[illegible]		1	↓	X	X	X				X		
														Normal Turn
														around time
														7/19/99 Please analyze
														GW-7-11, GW-7-14, and
														GW-7-16 for EPA 8010,
														EPA 8015, and EPA 8020
														with MtBE. (JHB)

RELINQUISHED BY: (Signature)	DATE 7/15/99	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE·FRICKE·RECON
1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500

Analytical Laboratory: Curtis & Tompkins

Shipping Copy (White) Lab Copy (Yellow) File Copy (Pink) Field Copy (Goldenrod)

9991\COCTEMP.CDR 042995

LFR
LEVINE•FRICKE

1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500, FAX (510) 652-4906

FAX TRANSMISSION: This cover page plus 30 pages.

Date	**August 25, 1999**
Time	**11:06PM**
From	**Taylor Bennett**

Deliver To	**Scott Seery, CHMM**		
Name of Firm	**Alameda County Health Care Services Agency**		
FAX Number	**(510) 337-9335**	Project No.	**6895.00-020**

Comments: As you requested today, following are the laboratory results for samples collected at the former Glovatorium so far. Each laboratory report is being sent as a separate fax. There is a total of five reports. LFR has not yet completed a QA/QC review of these data.

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

ANALYTICAL REPORT

Prepared for:

LFR-Levine-Fricke
1900 Powell Street
12th Floor
Emeryville, CA 94608

Date: 30-JUL-99
Lab Job Number: 140507
Project ID: 6895.00.014
Location: Former Glovatorium

Reviewed by: Tao Bd.y

Reviewed by:

Curtis & Tompkins, Ltd.

Laboratory Numbers: **140507**
Client: **LFR-Levine-Fricke**
Project #: **6895.00.014**
Location: **Former Glovatorium**
COC#: **3500**

Sampled Date: **07/16/99**
Received Date: **07/16/99**

CASE NARRATIVE

This hardcopy data package contains sample and QC results for **seven soil samples**, which was received from the site referenced above on July 16, 1999. Fourteen soil samples were received cold and intact and placed on hold. On July 19,199 Taylor Bennett took seven soils off hold for analysis. All data were faxed to Taylor Bennett on July 27, 1999.

TVH (EPA 8015M):
Bromofluorobenzene failed high for sample GW-8-12 (CT# 140507-005) due to co-elution with hydrocarbons. No other analytical problems were encountered.

VOCs (EPA 8260):
No analytical problems were encountered.

Curtis & Tompkins, Ltd.

TVH-Total Volatile Hydrocarbons

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8015M
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140507-001	GW-1-7	49442	07/16/99	07/21/99	07/21/99	
140507-002	GW-1-8	49442	07/16/99	07/21/99	07/21/99	
140507-003	GW-8-9	49442	07/16/99	07/21/99	07/21/99	
140507-005	GW-8-12	49442	07/16/99	07/21/99	07/21/99	

Matrix: Soil

Analyte	Units	140507-001	140507-002	140507-003	140507-005	
Diln Fac:		1	1	1	1	
Gasoline C7-C12	mg/Kg	<1	<1	<1	8.2YH	
Stoddard Solvent	mg/Kg	<1	<1	<1	4.8	
Surrogate						
Trifluorotoluene	%REC	107	106	106	106	
Bromofluorobenzene	%REC	113	115	112	162	*

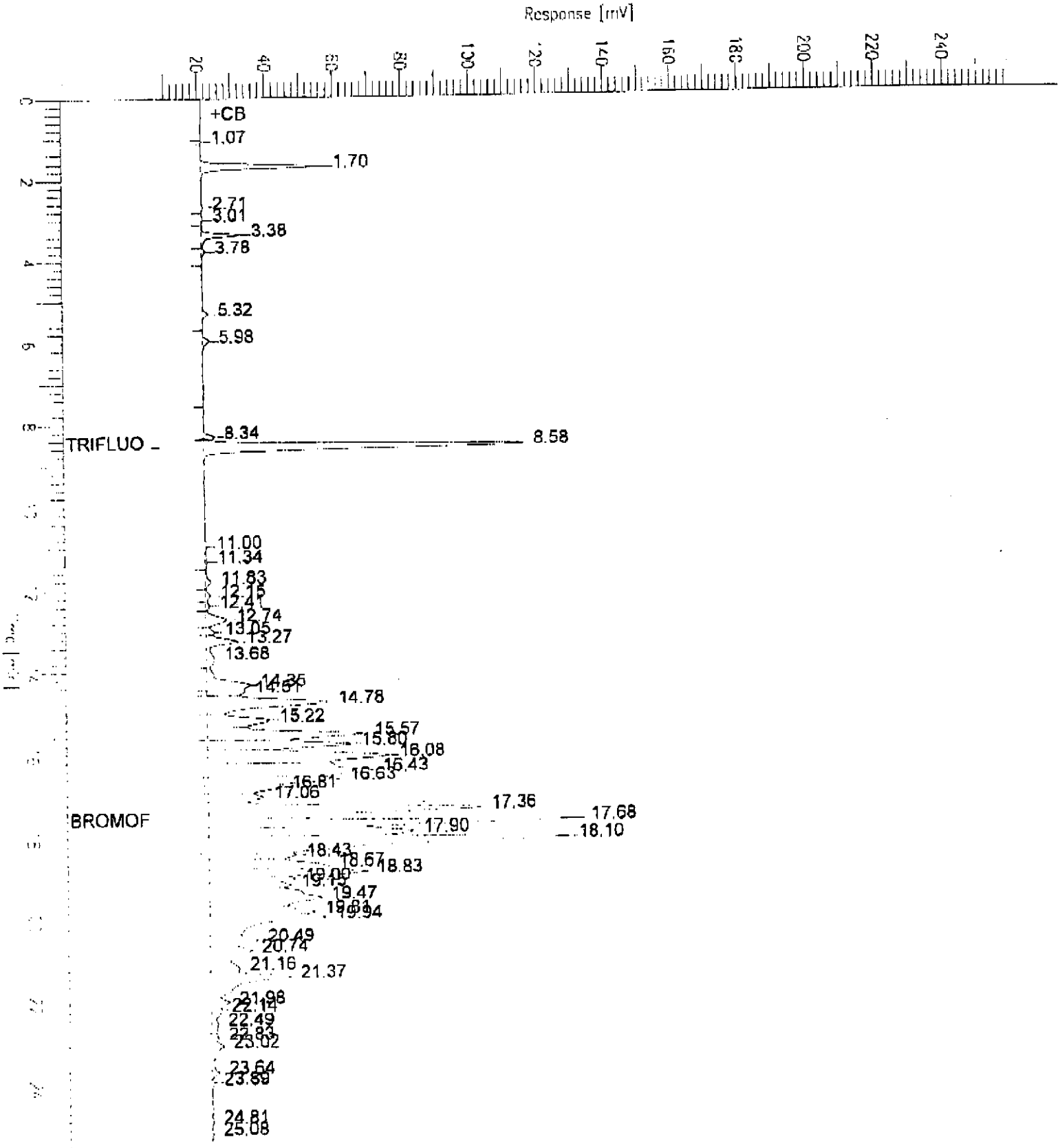
* Values outside of QC limits
Y: Sample exhibits fuel pattern which does not resemble standard
H: Heavier hydrocarbons than indicated standard

Soil

Chromatogram

Sample Name : 140507-005,49442,+atod/mtbe
FileName : C:\GC05\DATA\201G027.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: -1.0 Plot Offset: 8 mV

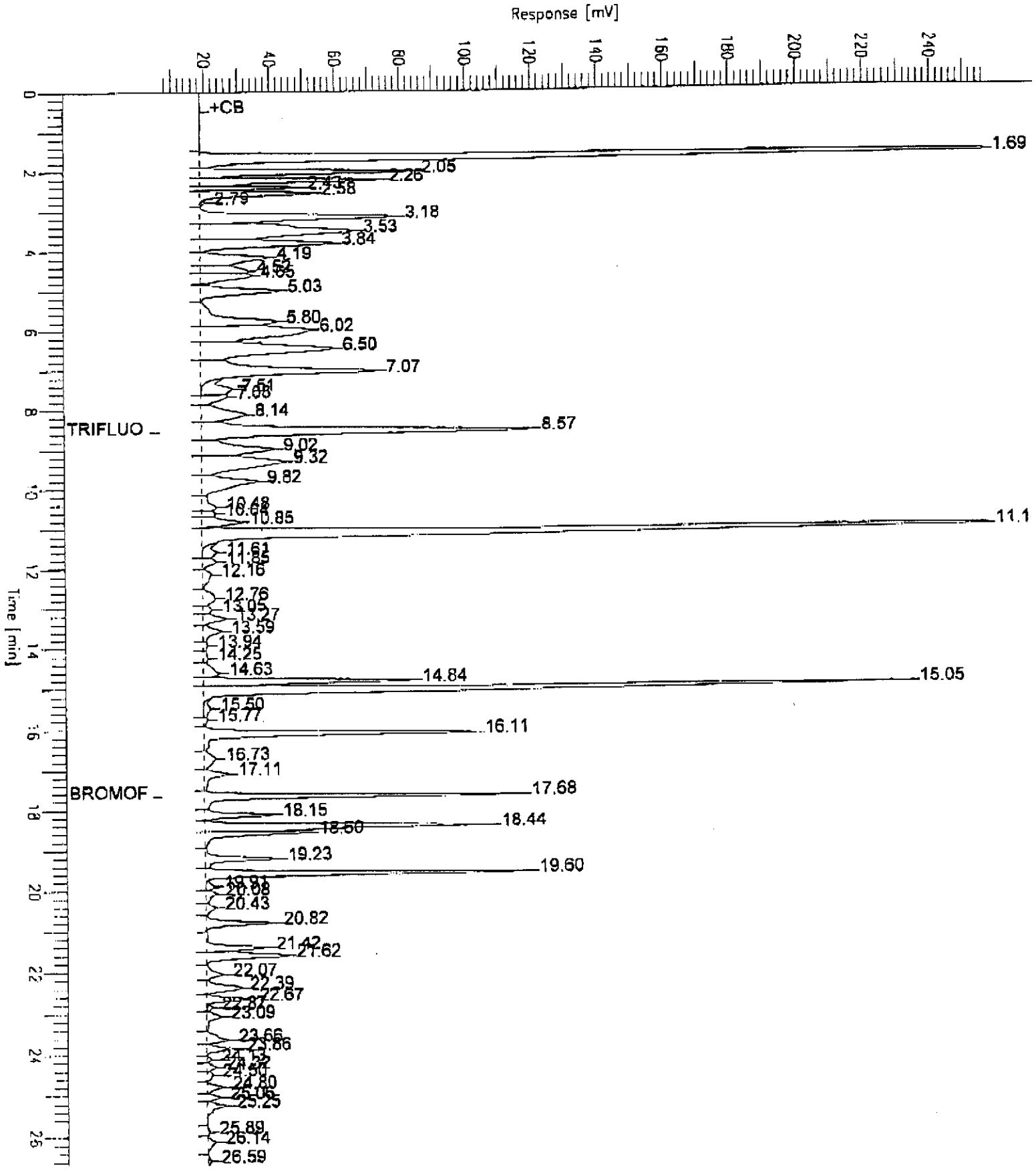
Sample #:
Date : 7/21/99 10:14 AM
Time of Injection: 7/21/99 09:46 AM
Low Point : 8.47 mV High Point : 258.47 mV
Plot Scale: 250.0 mV



Chromatogram

Sample Name : mb,qc03156,99w87780,49442
FileName : G:\GC05\DATA\201G035.raw
Method : TVRBTKB
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: -1.0 Plot Offset: 6 mV

Sample #: gas
Date : 7/21/99 03:36 PM
Time of Injection: 7/21/99 03:08 PM
Low Point : 6.12 mV High Point : 256.12 mV
Plot Scale: 250.0 mV



TVH-Total Volatile Hydrocarbons

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8015M
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140507-008	GW-4-9	49442	07/16/99	07/21/99	07/21/99	
140507-010	GW-5A-9	49442	07/16/99	07/21/99	07/21/99	
140507-013	GW-6A-10.0	49442	07/16/99	07/21/99	07/21/99	

Matrix: Soil

Analyte Diln Fac:	Units	140507-008 1	140507-010 1	140507-013 1
Gasoline C7-C12	mg/Kg	<1	<1	<1
Stoddard Solvent	mg/Kg	<1	<1	<1
Surrogate				
Trifluorotoluene	%REC	105	106	112
Bromofluorobenzene	%REC	109	118	118

Soil

Curtis & Tompkins, Ltd.

BTXE

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8021B
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140507-001	GW-1-7	49442	07/16/99	07/21/99	07/21/99	
140507-002	GW-1-8	49442	07/16/99	07/21/99	07/21/99	
140507-003	GW-8-9	49442	07/16/99	07/21/99	07/21/99	
140507-005	GW-8-12	49442	07/16/99	07/21/99	07/21/99	

Matrix: Soil

Analyte	Units	140507-001	140507-002	140507-003	140507-005	
Diln Fac:		1	1	1	1	
MTBE	ug/Kg	<20	<20	<20	<20	
Benzene	ug/Kg	<5	<5	<5	<5	
Toluene	ug/Kg	<5	<5	<5	<5	
Ethylbenzene	ug/Kg	<5	<5	<5	<5	
m,p-Xylenes	ug/Kg	<5	<5	<5	<5	
o-Xylene	ug/Kg	<5	<5	<5	140	C
Surrogate						
Trifluorotoluene	%REC	96	96	95	96	
Bromofluorobenzene	%REC	101	98	99	119	

C: Presence of this compound confirmed by second column, however, the confirmation concentration differed from the reported result by more than a factor of two

Soil

BTXE

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8021B
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140507-008	GW-4-9	49442	07/16/99	07/21/99	07/21/99	
140507-010	GW-5A-9	49442	07/16/99	07/21/99	07/21/99	
140507-013	GW-6A-10.0	49442	07/16/99	07/21/99	07/21/99	

Matrix: Soil

Analyte Diln Fac:	Units	140507-008 1	140507-010 1	140507-013 1
MTBE	ug/Kg	<20	<20	<20
Benzene	ug/Kg	<5	<5	<5
Toluene	ug/Kg	<5	<5	<5
Ethylbenzene	ug/Kg	<5	<5	<5
m,p-Xylenes	ug/Kg	<5	<5	<5
o-Xylene	ug/Kg	<5	<5	<5
Surrogate				
Trifluorotoluene	%REC	94	95	98
Bromofluorobenzene	%REC	96	100	102

Soil

Curtis & Tompkins, Ltd.

Lab #: 140507

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8015M
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 49442
Units: mg/Kg
Diln Fac: 1

Prep Date: 07/20/99
Analysis Date: 07/20/99

MB Lab ID: QC03153

Analyte	Result
Gasoline C7-C12	<1.0
Stoddard Solvent	<1.0

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	103	62-143
Bromofluorobenzene	114	59-150

Blank

Curtis & Tompkins, Ltd.

Lab #: 140507

BATCH QC REPORT

BTXE

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8021B
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 49442
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/20/99
Analysis Date: 07/20/99

MB Lab ID: QC03153

Analyte	Result
MTBE	<20
Benzene	<5.0
Toluene	<5.0
Ethylbenzene	<5.0
m,p-Xylenes	<5.0
o-Xylene	<5.0

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	89	59-134
Bromofluorobenzene	93	38-150

blank

Curtis & Tompkins, Ltd.

Lab #: 140507

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8015M
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 49442
Units: mg/Kg
Diln Fac: 1

Prep Date: 07/20/99
Analysis Date: 07/20/99

LCS Lab ID: QC03154

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline C7-C12	10.38	10	104	77-122
Surrogate	**%Rec**	**Limits**		
Trifluorotoluene	130	62-143		
Bromofluorobenzene	108	59-150		

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits

QC

Curtis & Tompkins, Ltd.

Lab #: 140507

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8015M
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ
Lab ID: 140511-004
Matrix: Soil
Batch#: 49442
Units: mg/Kg
Diln Fac: 1

Sample Date: 07/15/99
Received Date: 07/16/99
Prep Date: 07/21/99
Analysis Date: 07/21/99

MS Lab ID: QC03156

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline C7-C12	10	<1	7.19	72	55-134

Surrogate	%Rec	Limits
Trifluorotoluene	128	62-143
Bromofluorobenzene	114	59-150

MSD Lab ID: QC03157

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline C7-C12	10	7.69	77	55-134	7	30

Surrogate	%Rec	Limits
Trifluorotoluene	129	62-143
Bromofluorobenzene	114	59-150

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

Dup / QC

Curtis & Tompkins, Ltd.

Lab #: 140507

BATCH QC REPORT

BTXE

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8021B
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 49442
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/20/99
Analysis Date: 07/20/99

LCS Lab ID: QC03155

Analyte	Result	Spike Added	%Rec #	Limits
MTBE	99.25	100	99	59-135
Benzene	103.3	100	103	67-116
Toluene	101.3	100	101	77-122
Ethylbenzene	106.2	100	106	70-124
m,p-Xylenes	218.9	200	109	75-125
o-Xylene	110.5	100	110	75-126

Surrogate	%Rec	Limits
Trifluorotoluene	95	59-134
Bromofluorobenzene	97	38-150

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 6 outside limits

Page

Halogenated Volatile Organics
EPA 8010 Analyte List

Client:	LFR-Levine-Fricke	Analysis Method:	EPA 8260A
Project#:	6895.00.014	Prep Method:	EPA 5030
Location:	Former Glovatorium		

Field ID:	GW-1-7	Sampled:	07/16/99
Lab ID:	140507-001	Received:	07/16/99
Matrix:	Soil	Extracted:	07/28/99
Batch#:	49582	Analyzed:	07/28/99
Units:	ug/Kg		
Diln Fac:	4.545		

Analyte	Result	Reporting Limit
Chloromethane	ND	45
Vinyl Chloride	ND	45
Bromomethane	ND	45
Chloroethane	ND	45
Trichlorofluoromethane	ND	23
Freon 113	ND	23
1,1-Dichloroethene	ND	23
Methylene Chloride	ND	91
trans-1,2-Dichloroethene	ND	23
1,1-Dichloroethane	ND	23
cis-1,2-Dichloroethene	ND	23
Chloroform	ND	23
1,1,1-Trichloroethane	ND	23
Carbon Tetrachloride	ND	23
1,2-Dichloroethane	ND	23
Trichloroethene	ND	23
1,2-Dichloropropane	ND	23
Bromodichloromethane	ND	23
cis-1,3-Dichloropropene	ND	23
trans-1,3-Dichloropropene	ND	23
1,1,2-Trichloroethane	ND	23
Tetrachloroethene	710	23
Dibromochloromethane	ND	23
Chlorobenzene	ND	23
Bromoform	ND	45
1,1,2,2-Tetrachloroethane	ND	23
1,3-Dichlorobenzene	ND	23
1,4-Dichlorobenzene	ND	23
1,2-Dichlorobenzene	ND	23

ppb

Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	116	80-129
Toluene-d8	102	88-111
Bromofluorobenzene	104	76-128

Page

Halogenated Volatile Organics
EPA 8010 Analyte List

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

Field ID: GW-1-8
Lab ID: 140507-002
Matrix: Soil
Batch#: 49582
Units: ug/Kg
Diln Fac: 0.9615

Sampled: 07/16/99
Received: 07/16/99
Extracted: 07/28/99
Analyzed: 07/28/99

Analyte	Result	Reporting Limit
Chloromethane	ND	9.6
Vinyl Chloride	ND	9.6
Bromomethane	ND	9.6
Chloroethane	ND	9.6
Trichlorofluoromethane	ND	4.8
Freon 113	ND	4.8
1,1-Dichloroethene	ND	4.8
Methylene Chloride	ND	19
trans-1,2-Dichloroethene	ND	4.8
1,1-Dichloroethane	ND	4.8
cis-1,2-Dichloroethene	ND	4.8
Chloroform	ND	4.8
1,1,1-Trichloroethane	ND	4.8
Carbon Tetrachloride	ND	4.8
1,2-Dichloroethane	ND	4.8
Trichloroethene	ND	4.8
1,2-Dichloropropane	ND	4.8
Bromodichloromethane	ND	4.8
cis-1,3-Dichloropropene	ND	4.8
trans-1,3-Dichloropropene	ND	4.8
1,1,2-Trichloroethane	ND	4.8
Tetrachloroethene	140	4.8
Dibromochloromethane	ND	4.8
Chlorobenzene	ND	4.8
Bromoform	ND	9.6
1,1,2,2-Tetrachloroethane	ND	4.8
1,3-Dichlorobenzene	ND	4.8
1,4-Dichlorobenzene	ND	4.8
1,2-Dichlorobenzene	ND	4.8

Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	117	80-129
Toluene-d8	102	88-111
Bromofluorobenzene	104	76-128

Page

Halogenated Volatile Organics
EPA 8010 Analyte List

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

Field ID: GW-9-9
Lab ID: 140507-003
Matrix: Soil
Batch#: 49557
Units: ug/Kg
Dilu Fac: 0.9259

Sampled: 07/16/99
Received: 07/16/99
Extracted: 07/27/99
Analyzed: 07/27/99

Analyte	Result	Reporting Limit
Chloromethane	ND	9.3
Vinyl Chloride	ND	9.3
Bromomethane	ND	9.3
Chloroethane	ND	9.3
Trichlorofluoromethane	ND	4.6
Freon 113	ND	4.6
1,1-Dichloroethene	ND	4.6
Methylene Chloride	ND	19
trans-1,2-Dichloroethene	ND	4.6
1,1-Dichloroethane	ND	4.6
cis-1,2-Dichloroethene	ND	4.6
Chloroform	ND	4.6
1,1,1-Trichloroethane	ND	4.6
Carbon Tetrachloride	ND	4.6
1,2-Dichloroethane	ND	4.6
Trichloroethene	6.1	4.6
1,2-Dichloropropane	ND	4.6
Bromodichloromethane	ND	4.6
cis-1,3-Dichloropropene	ND	4.6
trans-1,3-Dichloropropene	ND	4.6
1,1,2-Trichloroethane	ND	4.6
Tetrachloroethene	50	4.6
Dibromochloromethane	ND	4.6
Chlorobenzene	ND	4.6
Bromoform	ND	9.3
1,1,2,2-Tetrachloroethane	ND	4.6
1,3-Dichlorobenzene	ND	4.6
1,4-Dichlorobenzene	ND	4.6
1,2-Dichlorobenzene	ND	4.6

Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	113	80-129
Toluene-d8	102	88-111
Bromofluorobenzene	101	76-128

Curtis & Tompkins, Ltd.

Halogenated Volatile Organics
EPA 8010 Analyte List

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

Field ID: GW-8-12
Lab ID: 140507-005
Matrix: Soil
Batch#: 49557
Units: ug/Kg
Diln Fac: 1

Sampled: 07/16/99
Received: 07/16/99
Extracted: 07/28/99
Analyzed: 07/28/99

Analyte	Result	Reporting Limit
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Trichloroethene	13	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
Chlorobenzene	ND	10
Bromoform	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0

Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	110	80-129
Toluene-d8	102	88-111
Bromofluorobenzene	108	76-128

Curtis & Tompkins, Ltd.

Halogenated Volatile Organics
EPA 8010 Analyte List

Client:	LFR-Levine-Fricke	Analysis Method:	EPA 8260A
Project#:	6895.00.014	Prep Method:	EPA 5030
Location:	Former Glovatorium		
Field ID:	GW-4-9	Sampled:	07/16/99
Lab ID:	140507-008	Received:	07/16/99
Matrix:	Soil	Extracted:	07/28/99
Batch#:	49557	Analyzed:	07/28/99
Units:	ug/Kg		
Diln Fac:	0.9259		

Analyte	Result	Reporting Limit
Chloromethane	ND	9.3
Vinyl Chloride	ND	9.3
Bromomethane	ND	9.3
Chloroethane	ND	9.3
Trichlorofluoromethane	ND	4.6
Freon 113	ND	4.6
1,1-Dichloroethene	ND	4.6
Methylene Chloride	ND	19
trans-1,2-Dichloroethene	ND	4.6
1,1-Dichloroethane	ND	4.6
cis-1,2-Dichloroethene	ND	4.6
Chloroform	ND	4.6
1,1,1-Trichloroethane	ND	4.6
Carbon Tetrachloride	ND	4.6
1,2-Dichloroethane	ND	4.6
Trichloroethene	ND	4.6
1,2-Dichloropropane	ND	4.6
Bromodichloromethane	ND	4.6
cis-1,3-Dichloropropene	ND	4.6
trans-1,3-Dichloropropene	ND	4.6
1,1,2-Trichloroethane	ND	4.6
Tetrachloroethene	ND	4.6
Dibromochloromethane	ND	4.6
Chlorobenzene	ND	4.6
Bromoform	ND	9.3
1,1,2,2-Tetrachloroethane	ND	4.6
1,3-Dichlorobenzene	ND	4.6
1,4-Dichlorobenzene	ND	4.6
1,2-Dichlorobenzene	ND	4.6

Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	114	80-129
Toluene-d8	102	88-111
Bromofluorobenzene	105	76-128

Curtis & Tompkins, Ltd.

Halogenated Volatile Organics
EPA 8010 Analyte List

Client:	LFR-Levine-Fricke	Analysis Method:	EPA 8260A
Project#:	6895.00.014	Prep Method:	EPA 5030
Location:	Former Glovatorium		

Field ID:	GW-5A-9	Sampled:	07/16/99
Lab ID:	140507-010	Received:	07/16/99
Matrix:	Soil	Extracted:	07/28/99
Batch#:	49557	Analyzed:	07/28/99
Units:	ug/Kg		
Diln Fac:	1		

Analyte	Result	Reporting Limit
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
Chlorobenzene	ND	10
Bromoform	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
1,2-Dichlorobenzene	ND	

Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	114	80-129
Toluene-d8	101	88-111
Bromofluorobenzene	104	76-128

Curtis & Tompkins, Ltd.

Halogenated Volatile Organics
EPA 8010 Analyte List

Client:	LFR-Levine-Fricke	Analysis Method:	EPA 8260A
Project#:	6895.00.014	Prep Method:	EPA 5030
Location:	Former Glovatorium		
Field ID:	GW-6A-10.0	Sampled:	07/16/99
Lab ID:	140507-013	Received:	07/16/99
Matrix:	Soil	Extracted:	07/28/99
Batch#:	49557	Analyzed:	07/28/99
Units:	ug/Kg		
Diln Fac:	1.02		

Analyte	Result	Reporting Limit
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.1
Freon 113	ND	5.1
1,1-Dichloroethene	ND	5.1
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	5.1
1,1-Dichloroethane	ND	5.1
cis-1,2-Dichloroethene	ND	5.1
Chloroform	ND	5.1
1,1,1-Trichloroethane	ND	5.1
Carbon Tetrachloride	ND	5.1
1,2-Dichloroethane	ND	5.1
Trichloroethene	ND	5.1
1,2-Dichloropropane	ND	5.1
Bromodichloromethane	ND	5.1
cis-1,3-Dichloropropene	ND	5.1
trans-1,3-Dichloropropene	ND	5.1
1,1,2-Trichloroethane	ND	5.1
Tetrachloroethene	ND	5.1
Dibromochloromethane	ND	5.1
Chlorobenzene	ND	10
Bromoform	ND	5.1
1,1,2,2-Tetrachloroethane	ND	5.1
1,3-Dichlorobenzene	ND	5.1
1,4-Dichlorobenzene	ND	5.1
1,2-Dichlorobenzene	ND	

Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	114	80-129
Toluene-d8	100	88-111
Bromofluorobenzene	106	76-128

Curtis & Tompkins, Ltd.

Lab #: 140507 BATCH QC REPORT

Halogenated Volatile Organics
EPA 8010 Analyte List

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 49557
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/27/99
Analysis Date: 07/27/99

MB Lab ID: QC03596

Analyte	Result	Reporting Limit
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
Chlorobenzene	ND	10
Bromoform	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
1,2-Dichlorobenzene	ND	

Surrogate	%Rec	Recovery Limits
1,2-Dichloroethane-d4	114	80-129
Toluene-d8	101	88-111
Bromofluorobenzene	100	76-128

Curtis & Tompkins, Ltd.

Lab #: 140507

BATCH QC REPORT

Halogenated Volatile Organics
EPA 8010 Analyte List

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 49582
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/28/99
Analysis Date: 07/28/99

MB Lab ID: QC03691

Analyte	Result	Reporting Limit
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
Chlorobenzene	ND	10
Bromoform	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0

Surrogate	%Rec	Recovery Limits
1,2-Dichloroethane-d4	119	80-129
Toluene-d8	99	88-111
Bromofluorobenzene	101	76-128

Curtis & Tompkins, Ltd.

Lab #: 140507

BATCH QC REPORT

Halogenated Volatile Organics

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 49557
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/27/99
Analysis Date: 07/27/99

LCS Lab ID: QC03594

Analyte	Result	Spike Added	%Rec #	Limits
1,1-Dichloroethene	53.1	50	106	63-144
Trichloroethene	47.75	50	96	70-131
Chlorobenzene	48.53	50	97	74-126

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	108	80-129
Toluene-d8	99	88-111
Bromofluorobenzene	101	76-128

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 3 outside limits

Curtis & Tompkins, Ltd.

Lab #: 140507

BATCH QC REPORT

Halogenated Volatile Organics

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 49582
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/28/99
Analysis Date: 07/28/99

LCS Lab ID: QC03690

Analyte	Result	Spike Added	%Rec #	Limits
1,1-Dichloroethene	50.62	50	101	63-144
Trichloroethene	46.87	50	94	70-131
Chlorobenzene	47.37	50	95	74-126

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	117	80-129
Toluene-d8	101	88-111
Bromofluorobenzene	102	76-128

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 3 outside limits

Curtis & Tompkins, Ltd.

Lab #: 140507

BATCH QC REPORT

Halogenated Volatile Organics

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: GW-8-9
Lab ID: 140507-003
Matrix: Soil
Batch#: 49557
Units: ug/Kg
Diln Fac: 0.9615

Sample Date: 07/16/99
Received Date: 07/16/99
Prep Date: 07/27/99
Analysis Date: 07/27/99

MS Lab ID: QC03619

Analyte	Spike Added	Sample	MS	%Rec #	Limits
1,1-Dichloroethene	48.08	<4.808	46.14	96	51-137
Trichloroethene	48.08	6.057	47.58	86	33-153
Chlorobenzene	48.08	<4.808	41.74	87	39-132

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	112	80-129
Toluene-d8	102	88-111
Bromofluorobenzene	104	76-128

MSD Lab ID: QC03620

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
1,1-Dichloroethene	48.08	46.56	97	51-137	1	35
Trichloroethene	48.08	48	87	33-153	1	44
Chlorobenzene	48.08	41.21	86	39-132	1	47

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	115	80-129
Toluene-d8	102	88-111
Bromofluorobenzene	100	76-128

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 3 outside limits
Spike Recovery: 0 out of 6 outside limits

Lab #: 140507

BATCH QC REPORT

Curtis & Tompkins, Ltd.

Halogenated Volatile Organics

Client: LFR-Levine-Fricke
Project#: 6895.00.014
Location: Former Glovatorium

Analysis Method: EPA 8260A
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: GW-1-8
Lab ID: 140507-002
Matrix: Soil
Batch#: 49582
Units: ug/Kg
Diln Fac: 0.9804

Sample Date: 07/16/99
Received Date: 07/16/99
Prep Date: 07/28/99
Analysis Date: 07/28/99

MS Lab ID: QC03718

Analyte	Spike Added	Sample	MS	%Rec #	Limits
1,1-Dichloroethene	49.02	<4.902	58.5	119	51-137
Trichloroethene	49.02	0.9005	50.53	101	33-153
Chlorobenzene	49.02	<4.902	45.89	94	39-132

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	119	80-129
Toluene-d8	101	88-111
Bromofluorobenzene	101	76-128

MSD Lab ID: QC03719

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
1,1-Dichloroethene	49.02	48.54	99	51-137	19	35
Trichloroethene	49.02	38.84	77	33-153	26	44
Chlorobenzene	49.02	33.65	69	39-132	31	47

Surrogate	%Rec	Limits
1,2-Dichloroethane-d4	116	80-129
Toluene-d8	101	88-111
Bromofluorobenzene	103	76-128

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 3 outside limits
Spike Recovery: 0 out of 6 outside limits

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6895.00.014
Project Location: Oakland, CA
Date: 7/16/99
Serial No.: № 35_0
Project Name: Glovatorium
Field Logbook No.: —
Sampler (Signature): [signature]
Samplers: [initials]

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	TPH 8015	BTEX/MTBE 8020	8260				HOLD	RUSH	REMARKS
GW-1-7	7/16/99	0900	X	1	Soil	X	X	X				X		Include * Stoddard Solvent Standard for TPH Fingerprinting
GW-1-8	7/16/99	0910	X	1	Soil	X	X	X						
GW-8-9	7/16/99	0950	X	1	Soil	X	X	X						
GW-8-9.5	7/16/99	0955		1	Soil	X	X	X						
GW-8-12	7/16/99	1005	X	1	Soil	X	X	X						Normal Turnaround
GW-8-19	7/16/99	1025		1	Soil	X	X	X						7/19/99 (THB) Analyze GW-1-7, GW-1-8, GW-8-9, GW-8-12, GW-4-9, GW-5A-9, GW-6A-10
GW-4-8.5	7/16/99	1340		1	Soil	X	X	X						
GW-4-9	7/16/99	1345	X	1	Soil	X	X	X						
GW-4-10	7/16/99	1350		1	Soil	X	X	X						
GW-5A-9	7/16/99	1450	X	1	Soil	X	X	X						
GW-5A-9.5	7/16/99	1455		1	Soil	X	X	X						
GW-5A-10.0	7/16/99	1500		1	Soil	X	X	X						
GW-6A-10.0	7/16/99	1600	X	1	Soil	X	X	X						
GW-6A-17.5	7/16/99	1610		1	Soil	X	X	X				↓		

RELINQUISHED BY: (Signature) [signature]	DATE 7/16/99	TIME 1545	RECEIVED BY: (Signature) Taylor Bennett	DATE 7/16/99	TIME 16:45
RELINQUISHED BY: (Signature) Taylor Bennett	DATE 7/16/99	TIME 17:15	RECEIVED BY: (Signature) [signature]	DATE 7/16/99	TIME 17:15
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE·FRICKE·RECON
1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500

Analytical Laboratory: Curtis + Tomkins

COC.COR 101598/RVL

Shipping Copy (White) Lab Copy (Yellow) File Copy (Pink) Field Copy (Goldenrod)

AUG 25 '99 23:46 FR LFR LEVINE FRICKE 510 652 4906 TO 3379335 P.28/31
JUL 19 '99 18:50 FR LFR LEVINE FRICKE 510 652 4906 TO 4860532 P.02/02

Glovafor

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 90 507 Date Received: 7/16 Number of Coolers: _____
Client: LT& Project: 6895.00.014

A. Preliminary Examination Phase
Date Opened: 7/16 By (print): _____ (sign) _____
1. Did cooler come with a shipping slip (airbill, etc.)? YES NO
If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? YES NO
How many and where? _____ Seal date: _____ Seal name: _____ N/A
3. Were custody seals unbroken and intact at the date and time of arrival? YES NO
4. Were custody papers dry and intact when received? YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? YES NO
6. Did you sign the custody papers in the appropriate place? YES NO
7. Was project identifiable from custody papers? YES NO
If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? YES NO
Type of ice: Gel-pack Temperature: 5.0°C

B. Login Phase
Date Logged In: 7/16 By (print): _____ (sign) _____
1. Describe type of packing in cooler: _____
2. Did all bottles arrive unbroken? YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? YES NO
4. Did bottle labels agree with custody papers? YES NO
5. Were appropriate containers used for the tests indicated? YES NO
6. Were correct preservatives added to samples? YES NO
7. Was sufficient amount of sample sent for tests indicated? YES NO N/A
8. Were bubbles absent in VOA samples? If NO, list sample Ids below YES NO
9. Was the client contacted concerning this sample delivery? YES NO
If YES, give details below.
Who was called? _____ By whom? _____ Date: _____

Additional Comments:

Rev. 1 4/95

Filename: F:\qc\forms\cooler.wpd

LFR
LEVINE-FRICKE

1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500, FAX (510) 652-4906

FAX TRANSMISSION: This cover page plus 1 page.

Date	**July 19, 1999**
Time	**6:37PM**
From	**Taylor Bennett**

Deliver To	**Tracy Babjar**		
Name of Firm	**Curtis & Tompkins**		
FAX Number	**486-0532**	Project No.	**6895.00-017**

Comments: Following is a revised C.O.C. #35X0 (X represents illegible digit printed on the C.O.C.) for project 6895.00-017. Please analyze samples GW-1-7, GW-1-8, GW-8-9, GW-8-12, GW-4-9, GW-5A-9, and GW-6A-10, as indicated on the C.O.C.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6895.00.014
Project Location: OAKLAND, CA
Date: 7/16/99
Serial No.: № 35_0
Project Name: Glovatorium
Field Logbook No.: –
Sampler (Signature): [signature]
Samplers: AW

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	VOC 8010	TPH-* 8015	BTEX/MTBE 8020				HOLD	RUSH	REMARKS
GW-1-7	7/16/99	0900	X	1	Soil	X	X	X				X		Include * Standard Solvent
GW-1-8	7/16/99	0910	X	1	Soil	X	X	X						Standard & TPH
GW-8-9	7/16/99	0950	X	1	Soil	X	X	X						Fingerprinting
GW-8-9.5	7/16/99	0955		1	Soil	X	X	X						
GW-8-12	7/16/99	1005	X	1	Soil	X	X	X						Normal Turnaround
GW-8-19	7/16/99	1025		1	Soil	X	X	X						7/19/99 (THB) Analyze GW-1-7,
GW-4-8.5	7/16/99	1340		1	Soil	X	X	X						GW-1-8, GW-8-9, GW-8-12,
GW-4-9	7/16/99	1345	X	1	Soil	X	X	X						GW-4-9, GW-5A-9, GW-6A-10
GW-4-10	7/16/99	1350		1	Soil	X	X	X						
GW-5A-9	7/16/99	1450	X	1	Soil	X	X	X						
GW-5A-9.5	7/16/99	1455		1	Soil	X	X	X						
GW-5A-10.0	7/16/99	1500		1	Soil	X	X	X						
GW-6A-10.0	7/16/99	1600	X	1	Soil	X	X	X						
GW-6A-12.5	7/16/99	1610		1	Soil	X	X	X				↓		

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
[signature]	7/16/99	1545	Taylor Bennett	7/16/99	16:45
Taylor Bennett	7/16/99	17:15	[signature]	7/16/99	17:15

METHOD OF SHIPMENT: DATE TIME LAB COMMENTS:

Sample Collector: LEVINE•FRICKE•RECON
1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500

Analytical Laboratory: Curtis + Tompkins

COC.COB 10/15/98

Shipping Copy (White) Lab Copy (Yellow) File Copy (Pink) Field Copy (Goldenrod)

LFR LEVINE·FRICKE

1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500, FAX (510) 652-4906

FAX TRANSMISSION: This cover page plus 15 pages.

Date	**August 25, 1999**
Time	**11:01PM**
From	**Taylor Bennett**

Deliver To	**Scott Seery, CHMM**		
Name of Firm	**Alameda County Health Care Services Agency**		
FAX Number	**(510) 337-9335**	Project No.	**6895.00-020**

Comments: As you requested today, following are the laboratory results for samples collected at the former Glovatorium so far. Each laboratory report is being sent as a separate fax. There is a total of five reports. LFR has not yet completed a QA/QC review of these data.

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

July 21, 1999

Taylor Bennett
LFR Levine-Fricke - Emeryville
1900 Powell St, 12th Floor
Emeryville, CA 94608

RE: 6895.00.014/M907605

Dear Taylor Bennett

Enclosed are the results of analyses for sample(s) received by the laboratory on July 15, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
Project Manager

CA ELAP Certificate Number 1210

Sequoia Analytical

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Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

LFR Levine-Fricke - Emeryville	Project: -	Sampled: 7/15/99
1900 Powell St, 12th Floor	Project Number: 6895.00.014	Received: 7/15/99
Emeryville, CA 94608	Project Manager: Taylor Bennett	Reported: 7/21/99

ANALYTICAL REPORT FOR M907605

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
GW-07	M907605-01	Water	7/15/99
GW-107	M907605-02	Water	7/15/99

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Diesel Hydrocarbons (C9-C24) by DHS LUFT
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
GW-07			M907605-01				Water	
Diesel Range Hydrocarbons	9070560	7/16/99	7/18/99		0.0500	**0.566**	mg/l	1
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*32.3*	%	2
Stoddard Solvent (C9-C13)	"	"	"			**0.205**	mg/l	3
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*32.3*	%	2
Stoddard Solvent (C9-C13)	9070639	7/20/99	7/20/99			**0.697**	mg/l	3
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*105*	%	
Diesel Range Hydrocarbons	"	"	"		0.0500	**1.79**	mg/l	1
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*105*	%	
GW-107			M907605-02				Water	
Diesel Range Hydrocarbons	9070560	7/16/99	7/19/99		0.100	**3.10**	mg/l	1
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*100*	%	
Stoddard Solvent (C9-C13)	"	"	"			**1.42**	mg/l	3
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*100*	%	

*Refer to end of report for text of notes and definitions.

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Emeryville, CA 94608	Project Manager: Taylor Bennett	Reported: 7/21/99

MTBE by DHS LUFT
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
			M907605-01				Water	
GW-07					2.50	ND	ug/l	
Methyl tert-butyl ether	9070547	7/16/99	7/16/99		0.500	50.0	"	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	0.727	"	
Ethylbenzene	"	"	"		0.500	3.13	"	
Xylenes (total)	"	"	"			198	%	4
Surrogate: a,a,a-Trifluorotoluene				*70.0-130*				

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Emeryville, CA 94608	Project Manager: Taylor Bennett	Reported: 7/21/99

Volatile Organic Compounds by EPA Method 8010B
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
			M907605-01				Water	
GW-07					0.500	ND	ug/l	
Bromodichloromethane	9070500	7/16/99	7/16/99		0.500	ND	"	
Bromoform	"	"	"		1.00	ND	"	
Bromomethane	"	"	"		0.500	ND	"	
Carbon tetrachloride	"	"	"		0.500	ND	"	
Chlorobenzene	"	"	"		0.500	ND	"	
Chloroethane	"	"	"		0.500	ND	"	
Chloroform	"	"	"		0.500	ND	"	
Chloromethane	"	"	"		0.500	ND	"	
Dibromochloromethane	"	"	"		0.500	ND	"	
1,3-Dichlorobenzene	"	"	"		0.500	ND	"	
1,4-Dichlorobenzene	"	"	"		0.500	ND	"	
1,2-Dichlorobenzene	"	"	"		0.500	ND	"	
1,1-Dichloroethane	"	"	"		0.500	ND	"	
1,2-Dichloroethane	"	"	"		0.500	ND	"	
1,1-Dichloroethene	"	"	"		0.500	**3.58**	"	
cis-1,2-Dichloroethene	"	"	"		0.500	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.500	**0.632**	"	
1,2-Dichloropropane	"	"	"		0.500	ND	"	
cis-1,3-Dichloropropene	"	"	"		0.500	ND	"	
trans-1,3-Dichloropropene	"	"	"		5.00	ND	"	
Methylene chloride	"	"	"		0.500	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.500	ND	"	
Tetrachloroethene	"	"	"		0.500	ND	"	
1,1,1-Trichloroethane	"	"	"		0.500	ND	"	
1,1,2-Trichloroethane	"	"	"		0.500	ND	"	
1,1,2-Trichlorotrifluoroethane	"	"	"		0.500	ND	"	
Trichloroethene	"	"	"		0.500	ND	"	
Trichlorofluoromethane	"	"	"		0.500	ND	"	
Vinyl chloride	"	"	"					
Surrogate: 4-Bromofluorobenzene	"	"	"	*70.0-130*		*113*	%	

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1900 Powell St, 12th Floor	Project Number: 6895.00.014	Received: 7/15/99
Emeryville, CA 94608	Project Manager: Taylor Bennett	Reported: 7/21/99

Diesel Hydrocarbons (C9-C23) by DHS LUFT Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9070560	**Date Prepared: 7/16/99**					**Extraction Method: EPA 3510B**				
Blank	**9070560-BLK1**									
Diesel Range Hydrocarbons	7/18/99			ND	mg/l	0.0500				
Diesel Range Hydrocarbons	"			ND	"	0.0500				
Surrogate: n-Pentacosane	"	*0.100*		*0.0702*	"	*50.0-150*	*70.2*			
Surrogate: n-Pentacosane	"	*0.100*		*0.0702*	"	*50.0-150*	*70.2*			
LCS	**9070560-BS1**									
Diesel Range Hydrocarbons	7/18/99	1.00		0.778	mg/l	60.0-140	77.8			
Diesel Range Hydrocarbons	"	1.00		0.778	"	60.0-140	77.8			
Surrogate: n-Pentacosane	"	*0.100*		*0.0851*	"	*50.0-150*	*85.1*			
Surrogate: n-Pentacosane	"	*0.100*		*0.0851*	"	*50.0-150*	*85.1*			
LCS Dup	**9070560-BSD1**									
Diesel Range Hydrocarbons	7/18/99	1.00		0.767	mg/l	60.0-140	76.7	50.0	1.42	
Diesel Range Hydrocarbons	"	1.00		0.767	"	60.0-140	76.7	50.0	1.42	
Surrogate: n-Pentacosane	"	*0.100*		*0.0811*	"	*50.0-150*	*81.1*			
Surrogate: n-Pentacosane	"	*0.100*		*0.0811*	"	*50.0-150*	*81.1*			
Matrix Spike	**9070560-MS1**		**M907581-02**							
Diesel Range Hydrocarbons	7/18/99	1.00	ND	0.553	mg/l	50.0-150	55.3			
Diesel Range Hydrocarbons	"	1.00	ND	0.553	"	50.0-150	55.3			
Surrogate: n-Pentacosane	"	*0.100*		*0.0721*	"	*50.0-150*	*72.1*			
Surrogate: n-Pentacosane	"	*0.100*		*0.0721*	"	*50.0-150*	*72.1*			
Matrix Spike Dup	**9070560-MSD1**		**M907581-02**							
Diesel Range Hydrocarbons	7/18/99	1.00	ND	1.05	mg/l	50.0-150	105	50.0	62.0	5
Diesel Range Hydrocarbons	"	1.00	ND	1.05	"	50.0-150	105	50.0	62.0	5
Surrogate: n-Pentacosane	"	*0.100*		*0.0877*	"	*50.0-150*	*87.7*			
Surrogate: n-Pentacosane	"	*0.100*		*0.0877*	"	*50.0-150*	*87.7*			
Batch: 9070639	**Date Prepared: 7/20/99**					**Extraction Method: EPA 3510B**				
Blank	**9070639-BLK1**									
Diesel Range Hydrocarbons	7/20/99			ND	mg/l	0.0500				
Diesel Range Hydrocarbons	"			ND	"	0.0500				
Surrogate: n-Pentacosane	"	*0.100*		*0.102*	"	*50.0-150*	*102*			
Surrogate: n-Pentacosane	"	*0.100*		*0.102*	"	*50.0-150*	*102*			
LCS	**9070639-BS1**									
Diesel Range Hydrocarbons	7/20/99	1.00		0.919	mg/l	60.0-140	91.9			
Diesel Range Hydrocarbons	"	1.00		0.919	"	60.0-140	91.9			
Surrogate: n-Pentacosane	"	*0.100*		*0.111*	"	*50.0-150*	*111*			

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Emeryville, CA 94608	Project Manager:	Taylor Bennett	Reported: 7/21/99

Diesel Hydrocarbons (C9-C24) by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**9070639-BS1**									
Surrogate: n-Pentacosane	*7/20/99*	*0.100*		*0.111*	*mg/l*	*50.0-150*	*111*			
LCS Dup	**9070639-BSD1**									
Diesel Range Hydrocarbons	7/20/99	1.00		0.926	mg/l	60.0-140	92.6	50.0	0.759	
Diesel Range Hydrocarbons	"	1.00		0.926	"	60.0-140	92.6	50.0	0.759	
Surrogate: n-Pentacosane	"	*0.100*		*0.106*	"	*50.0-150*	*106*			
Surrogate: n-Pentacosane	"	*0.100*		*0.106*	"	*50.0-150*	*106*			

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1900 Powell St, 12th Floor	Project Number: 6895.00.014	Received: 7/15/99
Emeryville, CA 94608	Project Manager: Taylor Bennett	Reported: 7/21/99

MTBE by DHS/DUFT/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9070547	**Date Prepared: 7/16/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9070547-BLK1**									
Methyl tert-butyl ether	7/16/99			ND	ug/l	2.50				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.48*	"	*70.0-130*	*94.8*			
LCS	**9070547-BS1**									
Benzene	7/16/99	10.0		8.77	ug/l	70.0-130	87.7			
Toluene	"	10.0		8.82	"	70.0-130	88.2			
Ethylbenzene	"	10.0		8.82	"	70.0-130	88.2			
Xylenes (total)	"	30.0		26.6	"	70.0-130	88.7			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.69*	"	*70.0-130*	*86.9*			
Matrix Spike	**9070547-MS1**		**M907294-07**							
Benzene	7/16/99	10.0	ND	8.96	ug/l	60.0-140	89.6			
Toluene	"	10.0	ND	9.09	"	60.0-140	90.9			
Ethylbenzene	"	10.0	ND	9.16	"	60.0-140	91.6			
Xylenes (total)	"	30.0	ND	27.6	"	60.0-140	92.0			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*7.95*	"	*70.0-130*	*79.5*			
Matrix Spike Dup	**9070547-MSD1**		**M907294-07**							
Benzene	7/16/99	10.0	ND	7.83	ug/l	60.0-140	78.3	25.0	13.5	
Toluene	"	10.0	ND	8.21	"	60.0-140	82.1	25.0	10.2	
Ethylbenzene	"	10.0	ND	8.24	"	60.0-140	82.4	25.0	10.6	
Xylenes (total)	"	30.0	ND	24.8	"	60.0-140	82.7	25.0	10.6	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*7.68*	"	*70.0-130*	*76.8*			

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Volatile Organic Compounds by EPA Method 8010B/Quality Control - Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9070500	**Date Prepared: 7/15/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9070500-BLK1**									
Bromodichloromethane	7/15/99			ND	ug/l	0.500				
Bromoform	"			ND	"	0.500				
Bromomethane	"			ND	"	1.00				
Carbon tetrachloride	"			ND	"	0.500				
Chlorobenzene	"			ND	"	0.500				
Chloroethane	"			ND	"	1.00				
Chloroform	"			ND	"	0.500				
Chloromethane	"			ND	"	1.00				
Dibromochloromethane	"			ND	"	0.500				
1,3-Dichlorobenzene	"			ND	"	0.500				
1,4-Dichlorobenzene	"			ND	"	0.500				
1,2-Dichlorobenzene	"			ND	"	0.500				
1,1-Dichloroethane	"			ND	"	0.500				
1,2-Dichloroethane	"			ND	"	0.500				
1,1-Dichloroethene	"			ND	"	0.500				
cis-1,2-Dichloroethene	"			ND	"	0.500				
trans-1,2-Dichloroethene	"			ND	"	0.500				
1,2-Dichloropropane	"			ND	"	0.500				
cis-1,3-Dichloropropene	"			ND	"	0.500				
trans-1,3-Dichloropropene	"			ND	"	0.500				
Methylene chloride	"			ND	"	5.00				
1,1,2,2-Tetrachloroethane	"			ND	"	0.500				
Tetrachloroethene	"			ND	"	0.500				
1,1,1-Trichloroethane	"			ND	"	0.500				
1,1,2-Trichloroethane	"			ND	"	0.500				
1,1,2-Trichlorotrifluoroethane	"			ND	"	1.00				
Trichloroethene	"			ND	"	0.500				
Trichlorofluoromethane	"			ND	"	0.500				
Vinyl chloride	"			ND	"	1.00				
Surrogate: 4-Bromofluorobenzene	"	*10.0*		*10.0*	"	*70.0-130*	*100*			
Blank	**9070500-BLK2**									
Bromodichloromethane	7/16/99			ND	ug/l	0.500				
Bromoform	"			ND	"	0.500				
Bromomethane	"			ND	"	1.00				
Carbon tetrachloride	"			ND	"	0.500				
Chlorobenzene	"			ND	"	0.500				
Chloroethane	"			ND	"	1.00				
Chloroform	"			ND	"	0.500				
Chloromethane	"			ND	"	1.00				

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Volatile Organic Compounds by EPA Method 8010B/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	9070500-BLK2									
Dibromochloromethane	7/16/99			ND	ug/l	0.500				
1,3-Dichlorobenzene	"			ND	"	0.500				
1,4-Dichlorobenzene	"			ND	"	0.500				
1,2-Dichlorobenzene	"			ND	"	0.500				
1,1-Dichloroethane	"			ND	"	0.500				
1,2-Dichloroethane	"			ND	"	0.500				
1,1-Dichloroethene	"			ND	"	0.500				
cis-1,2-Dichloroethene	"			ND	"	0.500				
trans-1,2-Dichloroethene	"			ND	"	0.500				
1,2-Dichloropropane	"			ND	"	0.500				
cis-1,3-Dichloropropene	"			ND	"	0.500				
trans-1,3-Dichloropropene	"			ND	"	0.500				
Methylene chloride	"			ND	"	5.00				
1,1,2,2-Tetrachloroethane	"			ND	"	0.500				
Tetrachloroethene	"			ND	"	0.500				
1,1,1-Trichloroethane	"			ND	"	0.500				
1,1,2-Trichloroethane	"			ND	"	0.500				
1,1,2-Trichlorotrifluoroethane	"			ND	"	1.00				
Trichloroethene	"			ND	"	0.500				
Trichlorofluoromethane	"			ND	"	0.500				
Vinyl chloride	"			ND	"	1.00				
Surrogate: 4-Bromofluorobenzene	"	*10.0*		*8.94*	"	*70.0-130*	*89.4*			
LCS	9070500-BS1									
Chlorobenzene	7/15/99	25.0		19.7	ug/l	70.0-130	78.8			
1,1-Dichloroethene	"	25.0		19.1	"	65.0-135	76.4			
Trichloroethene	"	25.0		20.8	"	70.0-130	83.2			
Surrogate: 4-Bromofluorobenzene	"	*10.0*		*9.42*	"	*70.0-130*	*94.2*			
LCS	9070500-BS2									
Chlorobenzene	7/16/99	25.0		18.5	ug/l	70.0-130	74.0			
1,1-Dichloroethene	"	25.0		17.2	"	65.0-135	68.8			
Trichloroethene	"	25.0		19.1	"	70.0-130	76.4			
Surrogate: 4-Bromofluorobenzene	"	*10.0*		*10.3*	"	*70.0-130*	*103*			
Matrix Spike	9070500-MS1		M907554-02							
Chlorobenzene	7/16/99	25.0	ND	19.3	ug/l	60.0-140	77.2			
1,1-Dichloroethene	"	25.0	ND	17.5	"	60.0-140	70.0			
Trichloroethene	"	25.0	ND	19.3	"	60.0-140	77.2			
Surrogate: 4-Bromofluorobenzene	"	*10.0*		*10.7*	"	*70.0-130*	*107*			

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Volatile Organic Compounds by EPA Method 8010B/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike Dup	**9070500-MSD1**		**M907554-02**							
Chlorobenzene	7/15/99	25.0	ND	20.4	ug/l	60.0-140	81.6	25.0	5.54	
1,1-Dichloroethene	"	25.0	ND	18.3	"	60.0-140	73.2	25.0	4.47	
Trichloroethene	"	25.0	ND	20.3	"	60.0-140	81.2	25.0	5.05	
Surrogate: 4-Bromofluorobenzene	"	*10.0*		*12.1*	"	*70.0-130*	*121*			

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1900 Powell St, 12th Floor	Project Number: 6895.00.014	Received: 7/15/99
Emeryville, CA 94608	Project Manager: Taylor Bennett	Reported: 7/21/99

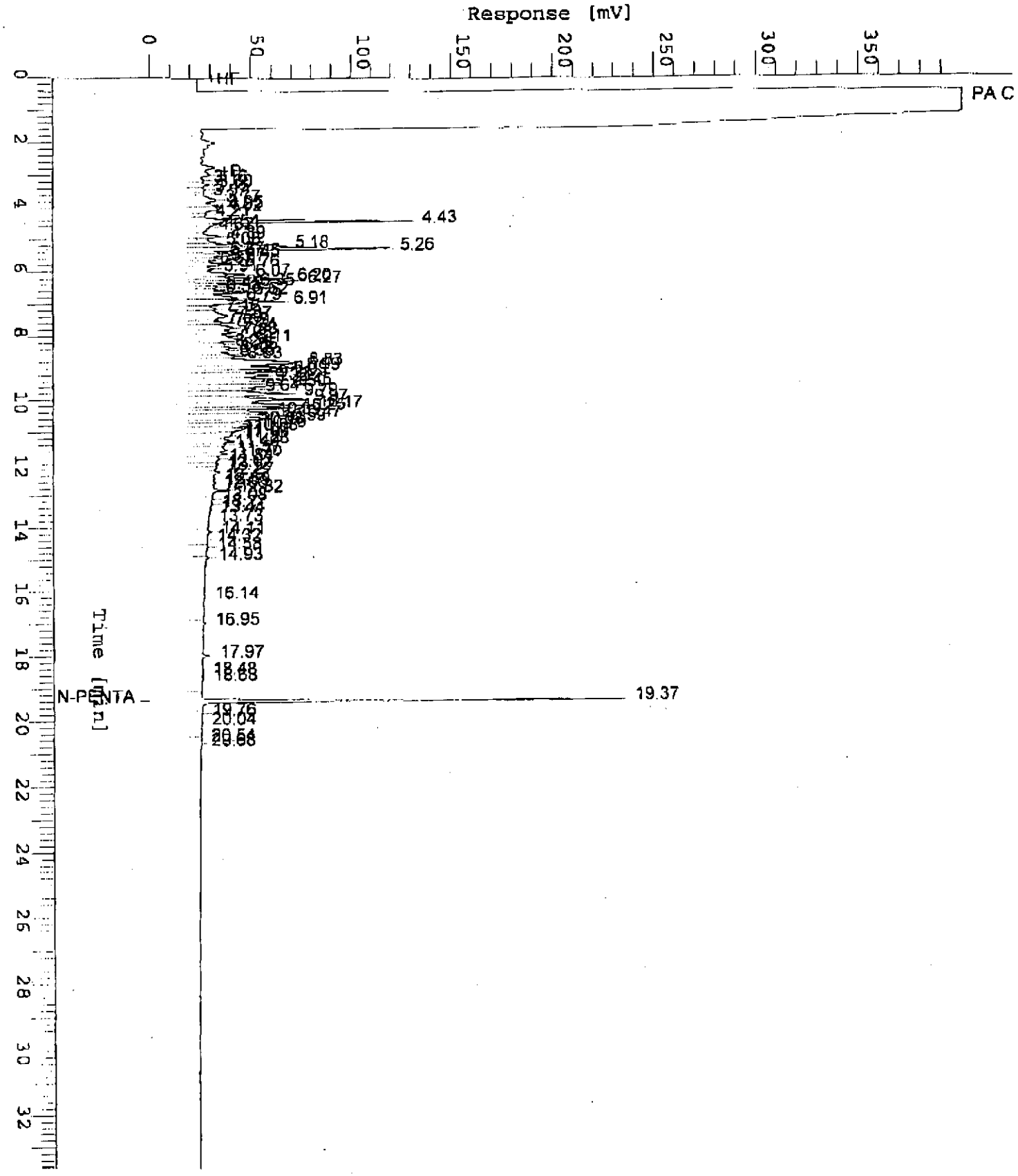
Notes and Definitions

#	Note
1	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
2	The surrogate recovery for this sample is outside of established control limits. Review of associated QC indicates the recovery for this surrogate does not represent an out-of-control condition.
3	Chromatogram Pattern: [Unidentified Hydrocarbons C9-C13].
4	The surrogate recovery for this sample is outside of established control limits.
5	The RPD value for this QC sample is above the established control limit. Review of associated QC indicates the high RPD does not represent an out-of-control condition for the batch.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

Chromatogram

Sample Name : M907605-01 (500:1)
FileName : S:\GHP_04\0718\716A002.raw
Method : TPH04A
Start Time : 0.00 min End Time : 33.65 min
Scale Factor: 0.0 Plot Offset: 0 mV

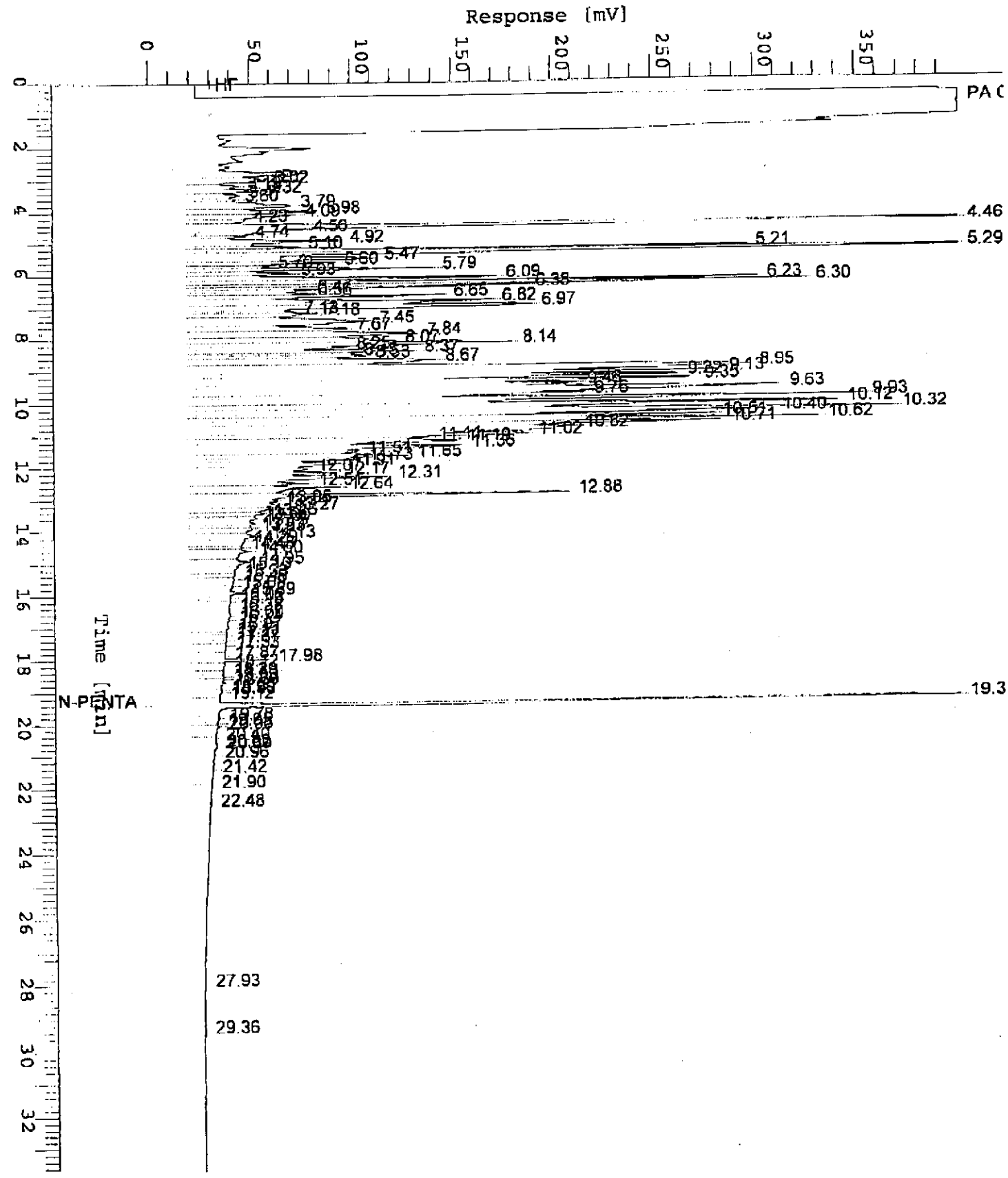
Sample #: NO QC
Date : 7/16/99 17:31
Time of Injection: 7/16/99 16:57
Low Point : 0.00 mV High Point : 400.00 mV
Plot Scale: 400.0 mV



Chromatogram

Sample Name : M907605-02 (500:1)
FileName : S:\GHP_04\0718\716A001.raw
Method : TPH04A
Start Time : 0.00 min End Time : 33.65 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: NO QC
Date : 7/16/99 16:49
Time of Injection: 7/16/99 16:16
Low Point : 0.00 mV High Point : 400.00 mV
Plot Scale: 400.0 mV



CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 6895.00.014	Project Location: Oakland, CA	Date: 7/15/99	Serial No. 5672
Project Name: Former Glovatorium	Field Logbook No.:	Sample Event Name:	
Sampler (Signature): James R. Burke			Samplers:

SAMPLE INFORMATION (Print Clearly)

ANALYSES: M907 LOT

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	VOC's 8010	BTEX + MTBE 8020	8015 TPH * Stoddard Solvent				HOLD	RUSH	REMARKS
TB-071599	7/15/99	7:45		3	water	X	X					X		* TPH fingerprint
GW-07	↓	2:45		5	↓	X	X	X					X	must include stoddard
GW-107	↓	2:50		5	↓	X	X	X				X		solvent as a standard

RELINQUISHED BY: (Signature) James R. Burke	DATE 7/15/99	TIME 17:04	RECEIVED BY: (Signature) Pete Gamez III	DATE 7-15-99	TIME 1704
RELINQUISHED BY: (Signature) Pete Gamez	DATE	TIME	RECEIVED BY: (Signature)	DATE 7/15/99	TIME 19:52
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE 7/15/99	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE-RECON
1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500

Analytical Laboratory: Sequoia

Shipping Copy (White) Lab Copy (Yellow) File Copy (Pink) Field Copy (Goldenrod)

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** TOTAL PAGE.16 **