Lockheed Martin Corporation Environment, Safety & Health
[illegible]
[illegible] Floor Burbank, CA 91505-1055
Program Office Regulatory Affairs and
Remediation Demolition Departments: 818-847-0256 (Facsimile)
Business Office and Groundwater Department: 818-847-0170 (Facsimile)

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LOCKHEED MARTIN

Via Federal Express
CAY0897/251
WBS# 48720

August 29, 1997

Mr. Gerard J. Thibeault
Executive Officer
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Subject: June 1997 Production Well Sampling Report
Water Supply Contingency Plan
Crafton-Redlands Plume Project

Dear Mr. Thibeault:

In compliance with the Water Supply Contingency Plan, enclosed please find one copy of the subject report prepared by HSI-GeoTrans for Lockheed Martin Corporation, Burbank, California. This report presents analytical results from samples collected at Bunker Hill Basin Production Wells in June of 1997. Laboratory Quality Assurance/Quality Control documentation is in Attachment C which is also enclosed for your review.

Should you have any comments or requests, please contact me at (818) 847-0197 or Mr. Tom Blackman at (818) 847-0791.

Sincerely,

Carol A. Yuge
Deputy Director

Enclosures

cc: See Attached Distribution List

CAY0897/251
August 29, 1997

cc: (Abbreviated Report Without Attachment "C," Which is Available Upon Request)
Tom Bartol, USAF, Norton Air Force Base
Sean Bradley, Victoria Farms Mutual Water Company
Kim Brown, Southern California Edison
Gary Forth, City of Loma Linda
Eric Fraser, DHS-Division of Drinking Water (San Bernardino)
Peter Garcia, Department of Toxic Substances Control
Kevin Mayer, U. S. Environmental Protection Agency
Eugene McMeans, Riverside Highland Water Company
Robert Reiter, San Bernardino Valley Municipal Water District
Toby Roy, DHS-Division of Drinking Water (San Diego)
Joe Stejskal, City of San Bernardino

HSI GEOTRANS
A TETRA TECH COMPANY

3150 Bristol Street
Suite 500
Costa Mesa, California
92626

714-513-1415 FAX 714-513-1278

September 9, 1997

Lockheed Martin Corporation
2550 N. Hollywood Way, Suite 300
Burbank, California 91505

Attention: Mr. Masood Choudhury
Project Hydrogeologist

Subject: June 1997 Data Report
Water Supply Contingency Plan
Production Well Sampling Program
Crafton-Redlands Plume Project

Dear Mr. Choudhury:

This report presents a brief summary of field procedures, protocols, and results of the Water Supply Contingency Plan production well sampling for the month of June 1997. The Water Supply Contingency Plan (WSCP) was prepared by Lockheed Martin Corporation and submitted to the State of California Regional Water Quality Control Board (RWQCB) Santa Ana Region on September 30, 1996. The plan was conditionally approved by the RWQCB in a letter dated March 6, 1997. The WSCP for the Crafton-Redlands Plume was prepared to address maintenance of water supply to purveyors in the event that wells become impacted with trichloroethene (TCE) from the Crafton-Redlands TCE Plume.

The WSCP identifies eight existing production wells in the eastern Bunker Hill Basin in the vicinity of the leading edge of the Crafton-Redlands Plume for monthly groundwater quality sampling. These eight production wells are operated by three local water purveyors/suppliers including; the City of Loma Linda (COLL), Victoria Farms Mutual Water Company (Victoria Farms), and Southern California Edison (SCE). The wells selected for sampling include COLL Mountain View wells #1 and #2, COLL Richardson wells #1 and #2, Victoria Farms wells #1 and #3, and SCE wells #1 and #2. The locations of these wells are shown on Figure 1. The sampling frequency of each well is once a month for the first year of the WSCP. More frequent sampling, if required, would be based on the analytical results as outlined on the WSCP decision matrix provided as Figure 2.

FIELD METHODS

HSI GeoTrans conducted the June 1997 groundwater sampling event on June 2 and June 3, 1997. On June 2 six production wells were sampled, including COLL Mountain View wells #1 and #2, COLL Richardson wells #1 and #2, and Victoria Farms wells #1 and #3. On June 3, 1997 Southern California Edison's #2 Auxiliary well was sampled. Bi-weekly sampling of Victoria Farms #1 (WSCP Decision Matrix) was not conducted during June 1997 because the well is no longer in use.

Groundwater sampling followed State of California Regional Water Quality Control Board - Los Angeles Region (LARWQCB) Well Investigation Program (WIP) standards. In addition, HSI GeoTrans followed applicable components of the Quality Assurance Project Plan (QAPP) Addendum, Standard Operating Procedures (SOP) Addendum, and Health and Safety Plan (HASP) Addendum dated March 15, 1996, developed for sampling existing active and inactive wells for Task 1 of the Redlands Groundwater Plume Project.

Prior to sampling and between wells, all field equipment that came into contact with groundwater was decontaminated. The decontamination procedure consisted of washing equipment with non-phosphate detergent and potable water, followed by a potable water wash, and concluded with a deionized water rinse.

When possible, a static water level measurement was obtained at the time of sampling. A water level probe was used to measure the depth to water in the Victoria Farms wells through a port at the base of the pump housing. The COLL wells were pumping on June 2, 1997 at the time of sampling and turning off the pump to obtain a water level measurement was not permitted thus, water level data collected earlier by COLL personnel on June 2, 1997 using the airline system was used. Water levels were allowed to recover a minimum of 30 minutes prior to collecting a static water level measurement.

Field parameters of pH, conductivity, temperature, and turbidity were measured during purging prior to sampling. A groundwater sample was collected when the field parameters had stabilized and a minimum of three casing volumes of groundwater had been removed.

With the exception of Victoria Farms #1, the wells were sampled using an existing low-flow valve on the discharge pipe. At Victoria Farms #1, a low-flow fitting was attached to the hose bib on the discharge line in order to sample the well. Groundwater samples obtained for volatile organic compound (VOC) analysis were collected in three laboratory-supplied, certified-clean, 40-milliliter (mL) glass volatile organic analysis (VOA) vials. All samples were labeled with the name of

the sampler, time and date of collection, well designation, and required analysis, and placed in a cooler chilled to approximately 4 degrees Celsius using ice in a sealed bag. Samples were submitted under chain-of custody to Del Mar Analytical, a State of California Department of Health Services (Department of Toxic Substances Control) certified laboratory located in Irvine, California. Water samples were analyzed for VOCs by EPA Method 502.2 per Level III and WIP quality assurance quality control (QA/QC) analytical protocols and documentation. Additionally, a duplicate sample of Victoria Farms #1 and one trip blank were collected and analyzed with the well samples.

All field collected data were recorded on the following GEOLIS forms; Water Level Form, Well Purging Form, and Water Sampling Form. Copies of the GEOLIS field forms are provided in Attachment A. Other field-related data not recorded on the GEOLIS forms were recorded in a field notebook. Log entries in the field notebook were in accordance with WIP procedures.

RESULTS

A summary of the analytical results of the June 1997 sampling event is presented on Table 1. Groundwater elevations measured in the seven wells sampled are provided on Table 2. Chain-of-custody and laboratory data sheets are provided in Attachment B. Level III QA/QC documentation is provided in Attachment C, and available upon request.

The groundwater sample collected from Victoria Farms #1 on June 2, 1997 contained TCE at a concentration of 2.6 micrograms per liter (µg/L). Groundwater samples collected from COLL Mountain View #1, COLL Mountain View #2, COLL Richardson #1, COLL Richardson #2, and Victoria Farms #3 contained no detectable VOCs using EPA Method 502.2. The duplicate sample collected from Victoria Farms #1 on June 2, 1997, labeled as MUN 505, detected TCE at a concentration of 2.7 µg/L. The trip blanks contained no detectable analytes.

The groundwater samples collected from the SCE #2 Auxiliary well on June 3, 1997, contained no detectable VOCs. A duplicate sample of the SCE #2 Auxiliary well, labeled as MUN 506, also contained no detectable analytes.

In April and May 1997, the State Department of Health Services (DHS) sampled Victoria Farms wells #1 and #3 for perchlorate. The resulting analysis revealed that Victoria Farms #3 was above the provisional action level of 18 µg/L. Victoria Farms #3 was the only well that was being used by Victoria Farms to supply water. Since June 9, 1997 all water used by Victoria Farms was provided by the City of San Bernardino, and no water was pumped from Victoria Farms wells #1

and #3. Thus, WSCP sampling for Victoria Farms #1 and #3 will be suspended until such time as the wells are operated again.

Next month WSCP sampling will consist of sampling of COLL Mt. View wells #1 and #2, COLL Richardson wells #1 and #2, and SCE #2 (AUX) well. Additional wells will be sampled in August 1997 as a result of the perchlorate findings by the DHS. A description of the additional wells identified for WSCP sampling was provided in the August 15, 1997 Perchlorate Work Plan submitted to the RWQCB.

CLOSING

HSI GeoTrans greatly appreciates being of continued service to Lockheed Martin Corporation on this project. Should you have any questions or comments, please do not hesitate to call.

Sincerely,
HSI GEOTRANS

Roy J. Marroquin
Project Manager

James C. Norman, R.G., C.HG.
Project Director

cc: Tom Blackman Lockheed Martin Corporation
Eric Hodder Lockheed Martin Corporation

TABLES

TABLE 1

SUMMARY OF TRICHLOROETHENE SAMPLING RESULTS
JUNE 1997 SAMPLING EVENT

WELL NAME	SAMPLE DATE	RESULT(DL)
COLL Mountain View #1	June 2, 1997	ND(0.5)
COLL Mountain View #2	June 2, 1997	ND(0.5)
COLL Richardson #1	June 2, 1997	ND(0.5)
COLL Richardson #2	June 2, 1997	ND(0.5)
Victoria Farms #1	June 2, 1997	2.6
Victoria Farms #3	June 2, 1997	ND(0.5)
Trip Blank	June 2, 1997	ND(0.5)
MUN-505[a]	June 2, 1997	2.7
SCE #2 (Aux)	June 3, 1997	ND(0.5)
MUN-506[bc]	June 3, 1997	ND(0.5)
Trip Blank[b]	June 3, 1997	ND(0.5)

Notes:
All samples analyzed using EPA Method 502.2
All results reported in micrograms/liter (ug/L)
ND(0.5) = Not detected at the specified limit
DL = Detection Limit
NS = Not Sampled
[a] = Duplicate of Victoria Farms #1
[b] = QC samples collected during sampling of the SCE wells
[c] = Duplicate of SCE #2 Auxiliary well

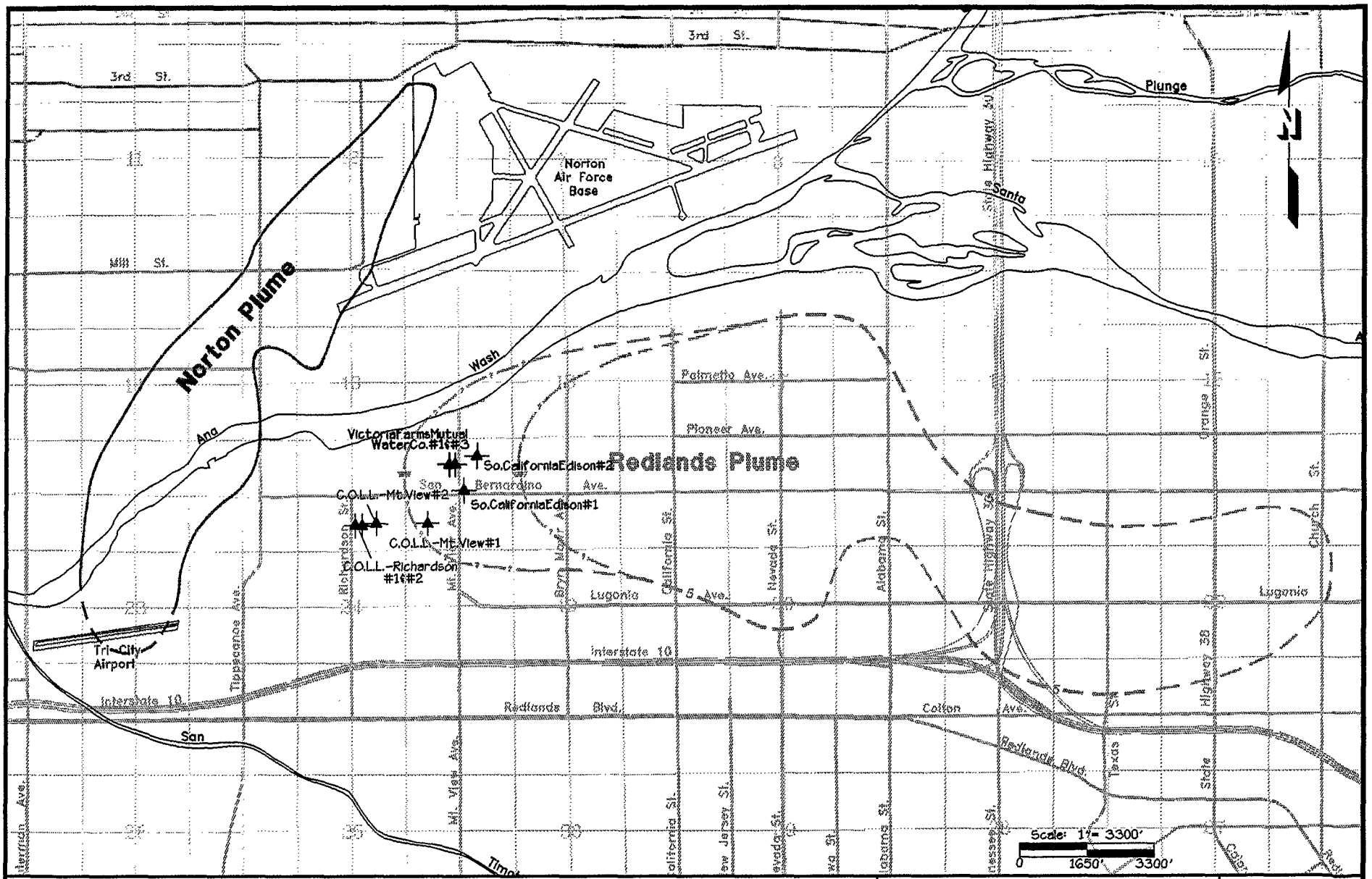
TABLE 2

SUMMARY OF WATER LEVEL MEASUREMENTS
JUNE 1997 SAMPLING EVENT

WELL NAME	MEASURE DATE	DEPTH TO WATER	MEASURING POINT ELEVATION	GROUNDWATER ELEVATION	COMMENTS
COLL Mountain View #1	June 2, 1997	128	1095	967	Static
COLL Mountain View #2	June 2, 1997	179	1085	906	Static
COLL Richardson #1	June 2, 1997	178	1090	912	Static
COLL Richardson #2	June 2, 1997	157	1078	921	Static
Victoria Farms #1	June 2, 1997	108.55	1101.40	992.85	Static
Victoria Farms #3	June 2, 1997	123.60	1100.00	976.40	Static
SCE #2 (Aux)	June 3, 1997	NM	1100.00	NM	Pumping

Notes:
All measurements reported in feet below measuring point (ft-bmp)
Water level measurements for all COLL wells were obtained by COLL personnel using airline system
Water level measurements for all other wells were collected by HSI GeoTrans using Slope Indicator water level meter
Elevations given in feet above mean sea level (ft-msl)
NM=Not measured
Water levels were allowed to recover a minimum of 30 minutes to obtain a static water level measurement

FIGURES



Explanation:

- Victoria Farms Mutual Water Company Wells
- Southern California Edison Wells
- City of Loma Linda Wells
- Approximate TCE Plume Location 5 µg/l (1997 Interpretation of Redlands Plume Task 1)
- Approximate TCE Plume Location 5 µg/l (1997 Interpretation of Norton AFB Plume)
- Projected 5 µg/l TCE Contour in Hydrostratigraphic Unit 2 (Task 2)
- Projected 5 µg/l TCE Contour in Hydrostratigraphic Unit 4 (Task 2)

m:\redlands\view-graphs\71wl13-a.dwg

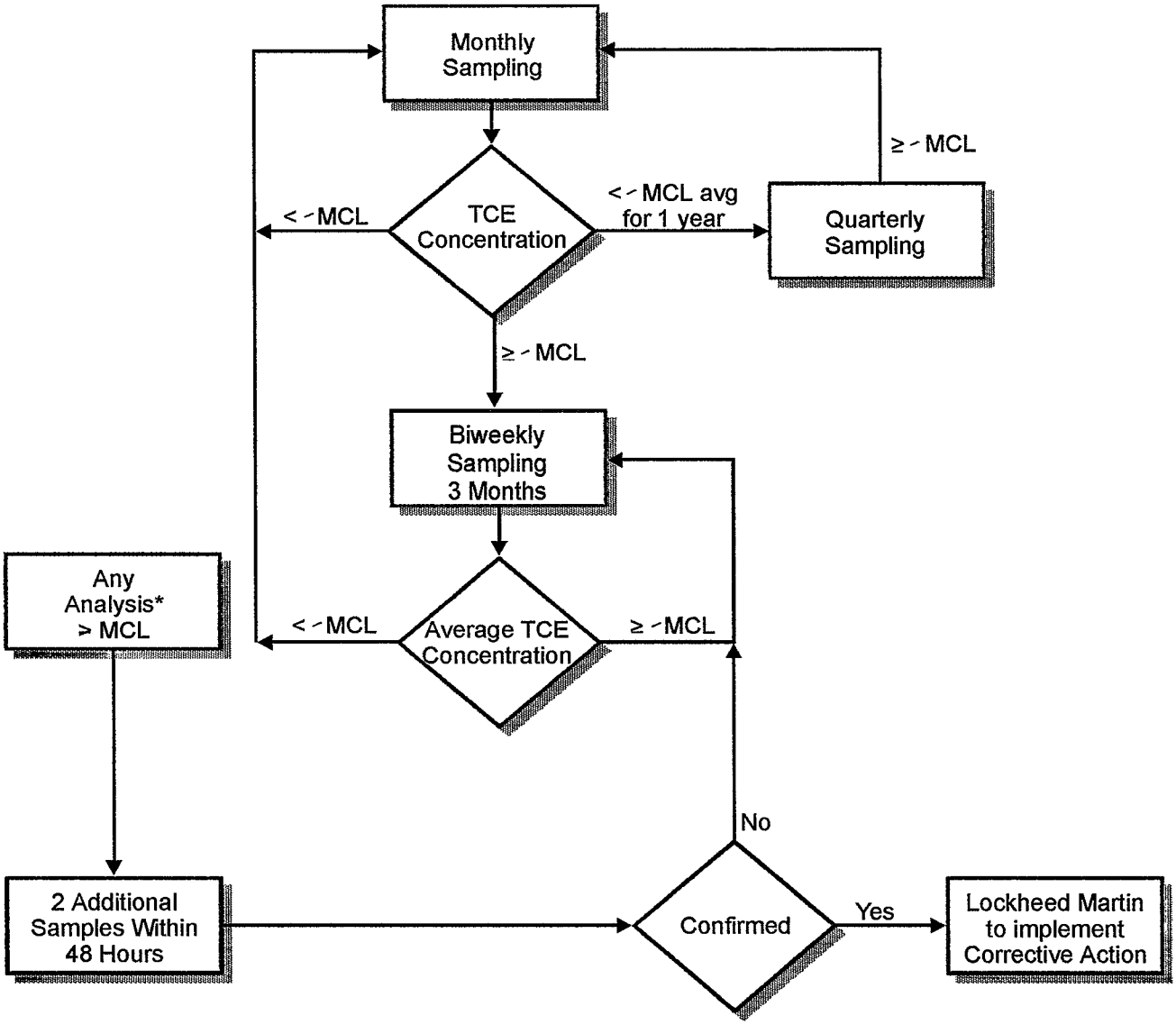
LOCKHEED MARTIN
REDLANDS, CALIFORNIA

Well Locations

HSI GEOTRANS
A TETRA TECH COMPANY

DATE:	07/25/97
DESIGNED:	RJM
CHECKED:	RDL
APPROVED:	JCN
DRAWN:	HM
PROJ.:	N534-101

Figure 1



Footnote:

If, at a specific well, blending is occuring to provide acceptable water for compounds other than TCE, a higher standard than MCL may be suggested.

TCE MCL = 5 g/l (California Regulations, Title 22, Division 4, Chapter 15, Section 64444)

Lockheed Martin Redlands, California	DATE: 8/28/97
Decision Matrix for Sampling of Production Wells for TCE from the Crafton-Redlands Plume	DESIGNED: RPB CHECKED: RJM APPROVED: RJM DRAWN: RPB PROJ.: N534-101
HSI GEOTRANS A TETRA TECH COMPANY	Figure 2

j:\lockheed\red_plum\wscp\dm-prod3.cdr

ATTACHMENT A

GEOLIS FIELD FORMS

GEOLIS$_3$ Water Level Form

COMPANY: Hydro-Search. Inc.
CLIENT: Lockheed Martin Corp.
PROJECT: WISCP Sampling
SITE/AREA: Phoenix View #1

LOCATION ID: (SEE FIRST COLUMN ON THE LEFT)
DATE: 6-2-97
MEASURED BY: COLL
SIGNATURE: [illegible]

LOCATION ID	TIME	DEPTH TO WATER (ft)	DEPTH TO PRODUCT (ft)	DEPTH TO BOTTOM (ft)	BOTTOM CONDITION CODE	LEVEL STATUS CODE	LOCATION TYPE CODE	MEASURING POINT CODE	FIELD MEASURE. CODE
-691	—	128	—	746	FRM	STA	WSC	OMP	

COMMENTS:

LOCATION TYPE CODE	LEVEL STATUS CODE	MEASUREMENT POINT CODE	FIELD MEASUREMENT CODE
BUC - UNCASED BORING	STA - STATIC	TIC - TOP OF INNER CASING	MTP - TEMPERATURE
WOH - OPEN HOLE WELL	WDV - DURING DEVELOPMENT	TOC - TOP OF OUTER CASING	MSC - SPECIFIC CONDUCTANCE
WSC - SCREENED WELL OR PIEZOMETER	PPR - POST PURGE	ELM - ELEVATION MARKER	MPO - PHOTOIONIZER (e.g., HNu)
TPO - OPEN TEST PIT	TPP - PUMP TEST/PUMPED WELL	GRS - GROUND SURFACE	MFO - FLAME IONIZER(e.g., OVA)
STR - RIVER/STREAM	TPO - PUMP TEST/MONITOR WELL	OMP - OTHER: _____	MDO - DISSOLVED OXYGEN
SPR - SPRING/SEEP	TSR - SLUG TEST/RISING HEAD	**BOTTOM CONDITION CODE**	MPH - pH
OTH - _____	TSF - SLUG TEST/FALLING HEAD	FRM - FIRM BOTTOM	MEH - Eh
	TAP - PACKER TEST/PUMPED ZONE	SFT - SOFT BOTTOM	MO1 - Other: _____
	TAO - PACKER TEST/OBSERVED ZONE	DRY - DRY BOTTOM, NO WATER	MO2 - Other: _____
	OTH - _____		

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GEOLIS® Water Level Form

COMPANY: Hydro-Search, Inc.
CLIENT: Lockheed Martin Corp.
PROJECT: WSCP Sampling
SITE/AREA: Mountain View #2

LOCATION ID: (SEE FIRST COLUMN ON THE LEFT)
DATE: 6-2-97
MEASURED BY: [illegible]
SIGNATURE: [illegible]

LOCATION ID	TIME	DEPTH TO WATER (ft)	DEPTH TO PRODUCT (ft)	DEPTH TO BOTTOM (ft)	BOTTOM CONDITION CODE	LEVEL STATUS CODE	LOCATION TYPE CODE	MEASURING POINT CODE	FIELD MEASURE. CODE
-692	—	179	—	900	FRM	STA	WSC	OMP	

COMMENTS:

LOCATION TYPE CODE	LEVEL STATUS CODE	MEASUREMENT POINT CODE	FIELD MEASUREMENT CODE
BUC - UNCASED BORING	STA - STATIC	TIC - TOP OF INNER CASING	MTP - TEMPERATURE
WOH - OPEN HOLE WELL	WDV - DURING DEVELOPMENT	TOC - TOP OF OUTER CASING	MSC - SPECIFIC CONDUCTANCE
WSC - SCREENED WELL OR PIEZOMETER	PPR - POST PURGE	ELM - ELEVATION MARKER	MPD - PHOTOIONIZER (e.g., HNu)
TPO - OPEN TEST PIT	TPP - PUMP TEST/PUMPED WELL	GRS - GROUND SURFACE	MFD - FLAME IONIZER(e.g., OVA)
STR - RIVER/STREAM	TPO - PUMP TEST/MONITOR WELL	OMP - OTHER: _____	MDO - DISSOLVED OXYGEN
SPR - SPRING/SEEP	TSR - SLUG TEST/RISING HEAD	BOTTOM CONDITION CODE	MPH - pH
OTH - _____	TSF - SLUG TEST/FALLING HEAD	FRM - FIRM BOTTOM	MEH - Eh
	TAP - PACKER TEST/PUMPED ZONE	SFT - SOFT BOTTOM	MO1 - Other: _____
	TAO - PACKER TEST/OBSERVED ZONE	DRY - DRY BOTTOM, NO WATER	MO2 - Other: _____
	OTH - _____		

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GEOLIS® Water Level Form

COMPANY: Hydro-Search. Inc.
CLIENT: Lockheed Martin Corp.
PROJECT: WSCP Sampling
SITE/AREA: Richmond #1

LOCATION ID: (SEE FIRST COLUMN ON THE LEFT)
DATE: 6-2-97
MEASURED BY: [illegible]
SIGNATURE: [illegible]

LOCATION ID	TIME	DEPTH TO WATER (ft)	DEPTH TO PRODUCT (ft)	DEPTH TO BOTTOM (ft)	BOTTOM CONDITION CODE	LEVEL STATUS CODE	LOCATION TYPE CODE	MEASURING POINT CODE	FIELD MEASURE. CODE
-693	—	178'	—	1200	FRM	STA	WSC	OMP	

COMMENTS:

LOCATION TYPE CODE
- BUC - UNCASED BORING
- WOH - OPEN HOLE WELL
- WSC - SCREENED WELL OR PIEZOMETER
- TPO - OPEN TEST PIT
- STR - RIVER/STREAM
- SPR - SPRING/SEEP
- OTH - _____

LEVEL STATUS CODE
- STA - STATIC
- WDV - DURING DEVELOPMENT
- PPR - POST PURGE
- TPP - PUMP TEST/PUMPED WELL
- TPO - PUMP TEST/MONITOR WELL
- TSR - SLUG TEST/RISING HEAD
- TSF - SLUG TEST/FALLING HEAD
- TAP - PACKER TEST/PUMPED ZONE
- TAO - PACKER TEST/OBSERVED ZONE
- OTH - _____

MEASUREMENT POINT CODE
- TIC - TOP OF INNER CASING
- TOC - TOP OF OUTER CASING
- ELM - ELEVATION MARKER
- GRS - GROUND SURFACE
- OMP - OTHER: _____

BOTTOM CONDITION CODE
- FRM - FIRM BOTTOM
- SFT - SOFT BOTTOM
- DRY - DRY BOTTOM, NO WATER

FIELD MEASUREMENT CODE
- MTP - TEMPERATURE
- MSC - SPECIFIC CONDUCTANCE
- MPO - PHOTOIONIZER (e.g., HNu)
- MFO - FLAME IONIZER(e.g., OVA)
- MDO - DISSOLVED OXYGEN
- MPH - pH
- MEH - Eh
- MO1 - Other: _____
- MO2 - Other: _____

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GEOLIS® Water Level Form

COMPANY: Hydro-Search, Inc.
CLIENT: Lockheed Martin Corp.
PROJECT: WSCP Sampling
SITE/AREA: Richardson #2

LOCATION ID: (SEE FIRST COLUMN ON THE LEFT)
DATE: 6-2-97
MEASURED BY: [illegible]
SIGNATURE: [illegible]

LOCATION ID	TIME	DEPTH TO WATER (ft)	DEPTH TO PRODUCT (ft)	DEPTH TO BOTTOM (ft)	BOTTOM CONDITION CODE	LEVEL STATUS CODE	LOCATION TYPE CODE	MEASURING POINT CODE	FIELD MEASURE. CODE
-694	-	157	-	970	FRM	STA	WSC	OMP	

COMMENTS:

LOCATION TYPE CODE	LEVEL STATUS CODE	MEASUREMENT POINT CODE	FIELD MEASUREMENT CODE
BUC - UNCASED BORING	STA - STATIC	TIC - TOP OF INNER CASING	MTP - TEMPERATURE
WOH - OPEN HOLE WELL	WDV - DURING DEVELOPMENT	TOC - TOP OF OUTER CASING	MSC - SPECIFIC CONDUCTANCE
WSC - SCREENED WELL OR PIEZOMETER	PPR - POST PURGE	ELM - ELEVATION MARKER	MPD - PHOTOIONIZER (e.g., HNu)
TPO - OPEN TEST PIT	TPP - PUMP TEST/PUMPED WELL	GRS - GROUND SURFACE	MFD - FLAME IONIZER(e.g., OVA)
STR - RIVER/STREAM	TPO - PUMP TEST/MONITOR WELL	OMP - OTHER: _____	MDO - DISSOLVED OXYGEN
SPR - SPRING/SEEP	TSR - SLUG TEST/RISING HEAD	**BOTTOM CONDITION CODE**	MPH - pH
OTH - _____	TSF - SLUG TEST/FALLING HEAD	FRM - FIRM BOTTOM	MEH - Eh
	TAP - PACKER TEST/PUMPED ZONE	SFT - SOFT BOTTOM	MO1 - Other: _____
	TAO - PACKER TEST/OBSERVED ZONE	DRY - DRY BOTTOM, NO WATER	MO2 - Other: _____
	OTH - _____		

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GEOLIS® Water Level Form

COMPANY: Hydro-Search, Inc.
CLIENT: Lockheed Martin Corp.
PROJECT: WSCP Sampling
SITE/AREA: Victoria Farms #1

LOCATION ID: (SEE FIRST COLUMN ON THE LEFT)
DATE: 6-2-97
MEASURED BY: Robin DeLaPenna
SIGNATURE: [signature]

LOCATION ID	TIME	DEPTH TO WATER (ft)	DEPTH TO PRODUCT (ft)	DEPTH TO BOTTOM (ft)	BOTTOM CONDITION CODE	LEVEL STATUS CODE	LOCATION TYPE CODE	MEASURING POINT CODE	FIELD MEASURE. CODE
- 221	0910	108.55	—	220	FRM	STA	WSC	GRS	

COMMENTS:

LOCATION TYPE CODE
- BUC - UNCASED BORING
- WOH - OPEN HOLE WELL
- WSC - SCREENED WELL OR PIEZOMETER
- TPO - OPEN TEST PIT
- STR - RIVER/STREAM
- SPR - SPRING/SEEP
- OTH - _____

LEVEL STATUS CODE
- STA - STATIC
- WDV - DURING DEVELOPMENT
- PPR - POST PURGE
- TPP - PUMP TEST/PUMPED WELL
- TPO - PUMP TEST/MONITOR WELL
- TSR - SLUG TEST/RISING HEAD
- TSF - SLUG TEST/FALLING HEAD
- TAP - PACKER TEST/PUMPED ZONE
- TAO - PACKER TEST/OBSERVED ZONE
- OTH - _____

MEASUREMENT POINT CODE
- TIC - TOP OF INNER CASING
- TOC - TOP OF OUTER CASING
- ELM - ELEVATION MARKER
- GRS - GROUND SURFACE
- OMP - OTHER: _____

BOTTOM CONDITION CODE
- FRM - FIRM BOTTOM
- SFT - SOFT BOTTOM
- DRY - DRY BOTTOM, NO WATER

FIELD MEASUREMENT CODE
- MTP - TEMPERATURE
- MSC - SPECIFIC CONDUCTANCE
- MPD - PHOTOIONIZER (e.g., HNu)
- MFD - FLAME IONIZER(e.g., CVA)
- MDO - DISSOLVED OXYGEN
- MPH - pH
- MEH - Eh
- MO1 - Other: _____
- MO2 - Other: _____

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GEOLIS® Water Level Form

COMPANY: Hydro-Search, Inc.
CLIENT: Lockheed Martin Corp.
PROJECT: WSCP Sampling
SITE/AREA: Victoria Farms #3

LOCATION ID: (SEE FIRST COLUMN ON THE LEFT)
DATE: 6-2-97
MEASURED BY: [illegible]
SIGNATURE: [illegible]

LOCATION ID	TIME	DEPTH TO WATER (ft)	DEPTH TO PRODUCT (ft)	DEPTH TO BOTTOM (ft)	BOTTOM CONDITION CODE	LEVEL STATUS CODE	LOCATION TYPE CODE	MEASURING POINT CODE	FIELD MEASURE. CODE
-650	0850	123.60	—	600	FRM	STA	WOH	TOC	

COMMENTS:

LOCATION TYPE CODE	LEVEL STATUS CODE	MEASUREMENT POINT CODE	FIELD MEASUREMENT CODE
BUC - UNCASED BORING	STA - STATIC	TIC - TOP OF INNER CASING	MTP - TEMPERATURE
WOH - OPEN HOLE WELL	WDV - DURING DEVELOPMENT	TOC - TOP OF OUTER CASING	MSC - SPECIFIC CONDUCTANCE
WSC - SCREENED WELL OR PIEZOMETER	PPR - POST PURGE	ELM - ELEVATION MARKER	MPO - PHOTOIONIZER (e.g., HNu)
TPO - OPEN TEST PIT	TPP - PUMP TEST/PUMPED WELL	GRS - GROUND SURFACE	MFD - FLAME IONIZER(e.g., OVA)
STR - RIVER/STREAM	TPO - PUMP TEST/MONITOR WELL	OMP - OTHER:	MDO - DISSOLVED OXYGEN
SPR - SPRING/SEEP	TSR - SLUG TEST/RISING HEAD	**BOTTOM CONDITION CODE**	MPH - pH
	TSF - SLUG TEST/FALLING HEAD	FRM - FIRM BOTTOM	MEH - Eh
OTH -	TAP - PACKER TEST/PUMPED ZONE	SFT - SOFT BOTTOM	MO1 - Other:
	TAO - PACKER TEST/OBSERVED ZONE	DRY - DRY BOTTOM, NO WATER	MO2 - Other:
	OTH -		

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GEOLIS® Well Purging Form

COMPANY: HSI GeoTrans
CLIENT: Lockheed Martin Corp
PROJECT: WSCP Sampling
SITE / AREA: Mountain View #1

LOCATION ID: G91
DATE: 6-2-97
SAMPLER: Ralph Vedia Zaring
SIGNATURE: [signature]

WELL OBSERVATIONS

CASING & LID: OK - DAMAGED - HEAVED - NO LID LOCKED: YES - NO KEY NO: — STICKUP: — FT-M

WELL DIAMETER: 2" - 4" - 6" - 8" - OTH: 16" BOREHOLE DIAMETER: — IN-CM MEASURING POINT: TIC - TOC - GRS

VAPOR READINGS: PID - FID - OTHER: 0ppm BACKGROUND: 0ppm INSIDE WELL: —

CHECKED FOR NAPL LAYER: YES - NO OBSERVED: NON - FLT - SNK THICKNESS: — IN-CM SHEEN: YES - NO

PURGING CALCULATIONS

(A) DEPTH TO WELL BOTTOM: 746 FT-M BMP
(B) DEPTH TO WATER: 128 FT-M BMP
(C) SAND PACK LENGTH — FT-M
(D) WATER COLUMN HEIGHT (A - B): 618 FT-M
(E) CASING VOLUME FACTOR: 10.50 GPF-LPM
(F) SAND PACK VOLUME FACTOR: — GPF-LPM
(G) CASING VOLUME (D x E): 6489 GAL-L
(H) SAND PACK VOLUME (C x F): — GAL-L

Casing Factor (GPF for inches) = 0.041 (Well Diameter)²
2" = 0.16; 4" = 0.65; 6" = 1.47; 8" = 2.61 GPF

Sand Pack Factor (GPF for inches)
= [0.041 (Hole Diameter)² - 0.041 (Well Diameter)²] 0.45

(I) TOTAL WELL VOLUME (G + H): 6489 GAL-L
(J) VOLUMES TO BE PURGED: 3
(K) TOTAL PURGE VOLUME (I x J): 19467 GAL-L

÷1000 = 19.46 mins

PURGING INFORMATION

PURGE ENDPOINT: VOLUME - TIME - PARAMETER STABILIZATION - TURBIDITY CRITERIA: —
PURGING METHOD: BAILER - SUB. PUMP - CENT. PUMP - PACKER & PUMP - OTHER:
DEVICE DESCRIPTION: Vertical Turbine Pump DEVICE No.: —
PUMP/BAILER INTAKE: SCREEN TOP - SCREEN/WELL BOTTOM - MID SCREEN/WELL - WATER LEVEL - MOVED UP/DOWN
PURGE WATER: DISCHARGED - TREATED - STORED ONSITE STORED IN: TANKS - DRUMS NO.:
FIELD MEASURMENTS IN: FLOW THRU CHAMBER - OPEN JAR CASCADING WATER: YES - NO DEPTH: — FT-M BMP
WELL PURGING INTERVAL: — TO — FT-M BMP PURGE DEPTH TO WATER (MAX): — FT-M BMP

TIME	DEPTH TO WATER (FT-M BMP)	PURGE RATE or VOLUME (GPM-GAL)	TURBIDITY (NTU)	FIELD MEASUREMENTS AND UNITS: MTP °C.	MSC	PH				COMMENTS
0817	128	1000	.25	20	310	8.27				Pre Purge Readings Effervesent
0820	"	"	.21	"	"	8.19				"
0823	"	"	.17	"	"	8.17				"
0825	"	"	.21	"	"	8.15				"
0828	"	"	.20	"	"	8.14				"
										Post Purge Readings

TOTAL PURGE TIME: _____ HRS TOTAL PURGE VOLUME: _____ GAL - L. RECOVERY: FAST - SLOW - V.SLOW

FIELD MEASUREMENT CODES

MTP - Temperature (°C.)
MSC - Specific Conductance (mS/cm)
MPD - Photoionizer (e.g., HNu)
MFD - Flame Ionizer (e.g., OVA)
MCL - Color
MPH - pH
MEH - Eh
MAL - Alkalinity
MDO - Dissolved Oxygen (mg/L)
MO1 - Other: _____
MO2 - Other: _____
MO3 - Other: _____
MD1 - DTW in Well _____
MD2 - DTW in Well _____
MD3 - DTW in Well _____
MD4 - DTW in Well _____

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GEOLIS® Well Purging Form

COMPANY: HSI Geo Trans
CLIENT: Lockheed Martin Corp
PROJECT: WSCP Sampling
SITE / AREA: M+View #2

LOCATION ID: G92
DATE: 6-2-97
SAMPLER: [illegible]
SIGNATURE: [illegible]

WELL OBSERVATIONS

CASING & LID: OK - DAMAGED - HEAVED - NO LID LOCKED: YES - NO KEY NO: — STICKUP: — FT-M

WELL DIAMETER: 2" - 4" - 6" - 8" - OTH: 20" BOREHOLE DIAMETER: — IN-CM MEASURING POINT: TIC - TOC - GRS

VAPOR READINGS: PID - FID - OTHER: 0ppm BACKGROUND: 0ppm INSIDE WELL: —

CHECKED FOR NAPL LAYER: YES - NO OBSERVED: NON - FLT - SNK THICKNESS: — IN-CM SHEEN: YES - NO

PURGING CALCULATIONS

Static

(A) DEPTH TO WELL BOTTOM: 900 FT-M BMP
(B) DEPTH TO WATER: 179 FT-M BMP
(C) SAND PACK LENGTH — FT-M
(D) WATER COLUMN HEIGHT (A - B): 721 FT-M
(E) CASING VOLUME FACTOR: 16.4 GPF-LPM
(F) SAND PACK VOLUME FACTOR: — GPF-LPM
(G) CASING VOLUME (D x E): 11824.4 GAL-L
(H) SAND PACK VOLUME (C x F): — GAL-L

Casing Factor (GPF for inches) = 0.041 (Well Diameter)²
2" = 0.16; 4" = 0.65; 6" = 1.47; 8" = 2.61 GPF

Sand Pack Factor (GPF for inches)
= [0.041 (Hole Diameter)² - 0.041 (Well Diameter)²] 0.45

(I) TOTAL WELL VOLUME (G + H): 11824.4 GAL-L
(J) VOLUMES TO BE PURGED: 3
(K) TOTAL PURGE VOLUME (I x J): 35473.2 GAL-L

÷1500 = 23.64 ml

PURGING INFORMATION

PURGE ENDPOINT: VOLUME - TIME - PARAMETER STABILIZATION - TURBIDITY CRITERIA: —
PURGING METHOD: BAILER - SUB. PUMP - CENT. PUMP - PACKER & PUMP - OTHER:
DEVICE DESCRIPTION: Vertical Turbine Pump DEVICE No.: —
PUMP/BAILER INTAKE: SCREEN TOP - SCREEN/WELL BOTTOM - MID SCREEN/WELL - WATER LEVEL - MOVED UP/DOWN
PURGE WATER: DISCHARGED - TREATED - STORED ONSITE STORED IN: TANKS - DRUMS NO.: —
FIELD MEASURMENTS IN: FLOW THRU CHAMBER - OPEN JAR CASCADING WATER: YES - NO DEPTH: — FT-M BMP
WELL PURGING INTERVAL: — TO — FT-M BMP PURGE DEPTH TO WATER (MAX): — FT-M BMP

TIME	DEPTH TO WATER (FT-M BMP)	PURGE RATE or VOLUME (GPM-GAL)	TURBIDITY (NTU)	FIELD MEASUREMENTS AND UNITS: MTP °C.	MSC	MPH				COMMENTS
0748	179	1500	.27	22	340	8.41				Pre Purge Readings Effervesent
0751	"	"	.24	"	"	8.38				"
0753	"	"	.21	"	"	8.35				"
0756	"	"	.20	"	"	8.32				"
0800	"	"	"	"	"	"				"
										Post Purge Readings

TOTAL PURGE TIME: ____ HRS TOTAL PURGE VOLUME: ____ GAL - L. RECOVERY: FAST - SLOW - V.SLOW

FIELD MEASUREMENT CODES

MTP - Temperature (°C.)
MSC - Specific Conductance (mS/cm)
MPD - Photoionizer (e.g., HNu)
MFD - Flame Ionizer (e.g., OVA)
MCL - Color
MPH - pH
MEH - Eh
MAL - Alkalinity
MDO - Dissolved Oxygen (mg/L)
MO1 - Other: ____
MO2 - Other: ____
MO3 - Other: ____
MD1 - DTW in Well ____
MD2 - DTW in Well ____
MD3 - DTW in Well ____
MD4 - DTW in Well ____

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GEOLIS® Well Purging Form

COMPANY: HSI GeoTrans
CLIENT: Lockheed Martin Corp
PROJECT: MSCP Sample 24
SITE / AREA: Richardson [redacted] #1

LOCATION ID: 693
DATE: 6-2-98
SAMPLER: [illegible]
SIGNATURE: [illegible]

WELL OBSERVATIONS

CASING & LID: OK - DAMAGED - HEAVED - NO LID LOCKED: YES - NO KEY NO: — STICKUP: — FT-M

WELL DIAMETER: 2" - 4" - 6" - 8" - OTH: 15" BOREHOLE DIAMETER: — IN-CM MEASURING POINT: TIC - TOC - GRS

VAPOR READINGS: PID - FID - OTHER: 0ppm BACKGROUND: 0ppm INSIDE WELL: 0

CHECKED FOR NAPL LAYER: YES - NO OBSERVED: NON - FLT - SNK THICKNESS: — IN-CM SHEEN: YES - NO

PURGING CALCULATIONS

Static

(A) DEPTH TO WELL BOTTOM: 1200 FT-M BMP
(B) DEPTH TO WATER: 178 FT-M BMP
(C) SAND PACK LENGTH: — FT-M
(D) WATER COLUMN HEIGHT (A - B): 1022 FT-M
(E) CASING VOLUME FACTOR: 9.23 GPF-LPM
(F) SAND PACK VOLUME FACTOR: — GPF-LPM
(G) CASING VOLUME (D x E): 9433.06 GAL-L
(H) SAND PACK VOLUME (C x F): — GAL-L

Casing Factor (GPF for inches) = 0.041 (Well Diameter)²
2" = 0.16; 4" = 0.65; 6" = 1.47; 8" = 2.61 GPF

Sand Pack Factor (GPF for inches)
= [0.041 (Hole Diameter)² - 0.041 (Well Diameter)²] 0.45

(I) TOTAL WELL VOLUME (G + H): ~~28299.18~~ GAL-L
(J) VOLUMES TO BE PURGED: 3
(K) TOTAL PURGE VOLUME (I x J): 28299.18 GAL-L

÷1200 = 23.58

PURGING INFORMATION

PURGE ENDPOINT: VOLUME - TIME - PARAMETER STABILIZATION - TURBIDITY CRITERIA: —
PURGING METHOD: BAILER - SUB. PUMP - GENT. PUMP - PACKER & PUMP - OTHER:
DEVICE DESCRIPTION: Vertical Turbine Pump DEVICE No.: —
PUMP/BAILER INTAKE: SCREEN TOP - SCREEN/WELL BOTTOM - MID SCREEN/WELL - WATER LEVEL - MOVED UP/DOWN
PURGE WATER: DISCHARGED - TREATED - STORED ONSITE STORED IN: TANKS - DRUMS NO.: —
FIELD MEASURMENTS IN: FLOW THRU CHAMBER - OPEN JAR CASCADING WATER: YES - NO DEPTH: — FT-M BMP
WELL PURGING INTERVAL: — TO — FT-M BMP PURGE DEPTH TO WATER (MAX): — FT-M BMP

TIME	DEPTH TO WATER (FT-M BMP)	PURGE RATE or VOLUME (GPM-GAL)	TURBIDITY (NTU)	FIELD MEASUREMENTS AND UNITS: MTP °C.	MSC	MPH				COMMENTS
0650	178	1200	.27	24	370	8.70				Pre Purge Readings Effervesent
0655	"	"	"	"	"	8.55				"
0658	"	"	.30	23	"	"				"
0701	"	"	.23	"	"	8.53				"
										Post Purge Readings

TOTAL PURGE TIME: — HRS TOTAL PURGE VOLUME: — GAL - L. RECOVERY: FAST - SLOW - V.SLOW

FIELD MEASUREMENT CODES

MTP - Temperature (°C.)
MSC - Specific Conductance (mS/cm)
MPO - Photoionizer (e.g., HNu)
MFO - Flame Ionizer (e.g., OVA)
MCL - Color
MPH - pH
MEH - Eh
MAL - Alkalinity
MDO - Dissolved Oxygen (mg/L)
MO1 - Other: —
MO2 - Other: —
MO3 - Other: —
MD1 - DTW In Well —
MD2 - DTW In Well —
MD3 - DTW In Well —
MD4 - DTW In Well —

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GEOLIS® Well Purging Form

COMPANY: HSI GeoTrans
CLIENT: Lockheed Martin Corp
PROJECT: WSCP Sampling
SITE / AREA: Richardson #2

LOCATION ID: G94
DATE: 6-2-97
SAMPLER: [illegible]
SIGNATURE: [illegible]

WELL OBSERVATIONS

CASING & LID: OK - DAMAGED - HEAVED - NO LID LOCKED: YES - NO KEY NO: — STICKUP: — FT-M
WELL DIAMETER: 2" - 4" - 6" - 8" - OTH: 15" BOREHOLE DIAMETER: — IN-CM MEASURING POINT: TIC - TOC - GRS
VAPOR READINGS: PID - FID - OTHER: 0ppm BACKGROUND: 0ppm INSIDE WELL: —
CHECKED FOR NAPL LAYER: YES - NO OBSERVED: NON - FLT - SNK THICKNESS: — IN-CM SHEEN: YES - NO

PURGING CALCULATIONS

Static

(A) DEPTH TO WELL BOTTOM: 970 FT-M BMP
(B) DEPTH TO WATER: 157 FT-M BMP
(C) SAND PACK LENGTH — FT-M
(D) WATER COLUMN HEIGHT (A - B): 813 FT-M
(E) CASING VOLUME FACTOR: 9.23 GPF-LPM
(F) SAND PACK VOLUME FACTOR: — GPF-LPM
(G) CASING VOLUME (D x E): 2503.99 GAL-L
(H) SAND PACK VOLUME (C x F): — GAL-L

Casing Factor (GPF for inches) = 0.041 (Well Diameter)²
2" = 0.16; 4" = 0.65; 6" = 1.47; 8" = 2.61 GPF

Sand Pack Factor (GPF for inches)
= [0.041 (Hole Diameter)² - 0.041 (Well Diameter)²] 0.45

(I) TOTAL WELL VOLUME (G + H): 22511.97 GAL-L
(J) VOLUMES TO BE PURGED: 3
(K) TOTAL PURGE VOLUME (I x J): 22511.97 GAL-L

÷ 2200 = 10.23

PURGING INFORMATION

PURGE ENDPOINT: VOLUME - TIME - PARAMETER STABILIZATION - TURBIDITY CRITERIA: —
PURGING METHOD: BAILER - SUB. PUMP - CENT. PUMP - PACKER & PUMP - OTHER:
DEVICE DESCRIPTION: Vertical Turbine Pump DEVICE No.: —
PUMP/BAILER INTAKE: SCREEN TOP - SCREEN/WELL BOTTOM - MID SCREEN/WELL - WATER LEVEL - MOVED UP/DOWN
PURGE WATER: DISCHARGED - TREATED - STORED ONSITE STORED IN: TANKS - DRUMS NO.: —
FIELD MEASURMENTS IN: FLOW THRU CHAMBER - OPEN JAR CASCADING WATER: YES - NO DEPTH: — FT-M BMP
WELL PURGING INTERVAL: — TO — FT-M BMP PURGE DEPTH TO WATER (MAX): — FT-M BMP

TIME	DEPTH TO WATER (FT-M BMP)	PURGE RATE or VOLUME (GPM-GAL)	TURBIDITY (NTU)	FIELD MEASUREMENTS AND UNITS: MTP °C.	MSC	MPH				COMMENTS
0720	157	2200	.20	22	360	8.39				Pre Purge Readings Effervesent
0724	"	"	"	"	"	8.39				"
0727	"	"	.23	"	"	8.35				"
0730	"	"	.24	"	"	"				
										Post Purge Readings

TOTAL PURGE TIME: _____ HRS TOTAL PURGE VOLUME: _____ GAL - L. RECOVERY: FAST - SLOW - V.SLOW

FIELD MEASUREMENT CODES

MTP - Temperature (°C.)
MSC - Specific Conductance (mS/cm)
MPD - Photoionizer (e.g., HNu)
MFD - Flame Ionizer (e.g., OVA)
MCL - Color
MPH - pH
MEH - Eh
MAL - Alkalinity
MDO - Dissolved Oxygen (mg/L)
MO1 - Other: _____
MO2 - Other: _____
MO3 - Other: _____
MD1 - DTW in Well _____
MD2 - DTW in Well _____
MD3 - DTW in Well _____
MD4 - DTW in Well _____

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GEOLIS® Well Purging Form

COMPANY: HSI GeoTrans
CLIENT: Lockheed Martin Corp
PROJECT: WSCP Sampling
SITE / AREA: Victorio Farms #1

LOCATION ID: 221
DATE: 6-2-97
SAMPLER: [illegible]
SIGNATURE: [illegible]

WELL OBSERVATIONS

CASING & LID: OK - DAMAGED - HEAVED - NO LID LOCKED: YES - NO KEY NO: — STICKUP: — FT-M

WELL DIAMETER: 2" - 4" - 6" - 8" - OTH: 20" BOREHOLE DIAMETER: — IN-CM MEASURING POINT: TIC - TOC - GRS

VAPOR READINGS: PID - FID - OTHER: 0ppm BACKGROUND: 0ppm INSIDE WELL: —

CHECKED FOR NAPL LAYER: YES - NO OBSERVED: NON - FLT - SNK THICKNESS: — IN-CM SHEEN: YES - NO

PURGING CALCULATIONS

(A) DEPTH TO WELL BOTTOM: 220 FT-M BMP
(B) DEPTH TO WATER: 108.55 FT-M BMP
(C) SAND PACK LENGTH: — FT-M
(D) WATER COLUMN HEIGHT (A - B): 111.45 FT-M
(E) CASING VOLUME FACTOR: 16.4 GPF-LPM
(F) SAND PACK VOLUME FACTOR: — GPF-LPM
(G) CASING VOLUME (D x E): 1827.78 GAL-L
(H) SAND PACK VOLUME (C x F): — GAL-L

Casing Factor (GPF for inches) = 0.041 (Well Diameter)²
2" = 0.16; 4" = 0.65; 6" = 1.47; 8" = 2.61 GPF

Sand Pack Factor (GPF for inches)
= [0.041 (Hole Diameter)² - 0.041 (Well Diameter)²] 0.45

(I) TOTAL WELL VOLUME (G + H): 1827.78 GAL-L
(J) VOLUMES TO BE PURGED: 3
(K) TOTAL PURGE VOLUME (I x J): 5483.34 GAL-L

÷200 = 27.41

PURGING INFORMATION

PURGE ENDPOINT: VOLUME - TIME - PARAMETER STABILIZATION - TURBIDITY CRITERIA: —

PURGING METHOD: BAILER - SUB. PUMP - CENT. PUMP - PACKER & PUMP - OTHER:

DEVICE DESCRIPTION: DEVICE No.: —

PUMP/BAILER INTAKE: SCREEN TOP - SCREEN/WELL BOTTOM - MID SCREEN/WELL - WATER LEVEL - MOVED UP/DOWN

PURGE WATER: DISCHARGED - TREATED - STORED ONSITE STORED IN: TANKS - DRUMS NO.: —

FIELD MEASUREMENTS IN: FLOW THRU CHAMBER - OPEN JAR CASCADING WATER: YES - NO DEPTH: — FT-M BMP

WELL PURGING INTERVAL: — TO — FT-M BMP PURGE DEPTH TO WATER (MAX): — FT-M BMP

pump started 912

TIME	DEPTH TO WATER (FT-M BMP)	PURGE RATE or VOLUME (GPM-GAL)	TURBIDITY (NTU)	FIELD MEASUREMENTS AND UNITS: MTP °C.	MSC	MPH				COMMENTS
0913	108.55	200	.95	20	800	7.59				Pre Purge Readings
0920	"	"	.49	"	750	7.60				
0925	"	"	.28	"	"	7.58				
0930	"	"	"	"	"	7.59				
0935	"	"	"	"	"	7.58				
										Post Purge Readings

TOTAL PURGE TIME: _____ HRS TOTAL PURGE VOLUME: _____ GAL - L. RECOVERY: FAST - SLOW - V.SLOW

FIELD MEASUREMENT CODES

MTP - Temperature (°C.)
MSC - Specific Conductance (mS/cm)
MPD - Photoionizer (e.g., HNu)
MFD - Flame Ionizer (e.g., OVA)
MCL - Color
MPH - pH
MEH - Eh
MAL - Alkalinity
MDO - Dissolved Oxygen (mg/L)
MO1 - Other: _____
MO2 - Other: _____
MO3 - Other: _____
MD1 - DTW in Well _____
MD2 - DTW in Well _____
MD3 - DTW in Well _____
MD4 - DTW in Well _____

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GEOLIS® Well Purging Form

COMPANY: HSI Geo Trans
CLIENT: Lockheed Martin Corp
PROJECT: WSCP Sampling
SITE / AREA: Victoria Farms #3

LOCATION ID: G50
DATE: 6-2-97
SAMPLER: Robin Dekkenna
SIGNATURE: [signature]

WELL OBSERVATIONS

CASING & LID: OK - DAMAGED - HEAVED - NO LID LOCKED: YES - NO KEY NO: — STICKUP: — FT-M

WELL DIAMETER: 2" - 4" - 6" - 8" - OTH: 14" BOREHOLE DIAMETER: — IN-CM MEASURING POINT: TIC - TOC - GRS

VAPOR READINGS: PID - FID - OTHER: 0ppm BACKGROUND: 0ppm INSIDE WELL: —

CHECKED FOR NAPL LAYER: YES - NO OBSERVED: NON - FLT - SNK THICKNESS: — IN-CM SHEEN: YES - NO

PURGING CALCULATIONS

Static

(A) DEPTH TO WELL BOTTOM: 600 FT-M BMP
(B) DEPTH TO WATER: 123.60 FT-M BMP
(C) SAND PACK LENGTH — FT-M
(D) WATER COLUMN HEIGHT (A - B): 476.4 FT-M
(E) CASING VOLUME FACTOR: 8.04 GPF-LPM
(F) SAND PACK VOLUME FACTOR: — GPF-LPM
(G) CASING VOLUME (D x E): 3830.25 GAL-L
(H) SAND PACK VOLUME (C x F): — GAL-L

Casing Factor (GPF for inches) = 0.041(Well Diameter)²
2" = 0.16; 4" = 0.65; 6" = 1.47; 8" = 2.61 GPF

Sand Pack Factor (GPF for inches)
= [0.041(Hole Diameter)² - 0.041(Well Diameter)²] 0.45

(I) TOTAL WELL VOLUME (G + H): 3830.25 GAL-L
(J) VOLUMES TO BE PURGED: 3
(K) TOTAL PURGE VOLUME (I x J): 11490.75 GAL-L

÷800 = 14.36 min

PURGING INFORMATION

PURGE ENDPOINT: VOLUME - TIME - PARAMETER STABILIZATION - TURBIDITY CRITERIA: ____

PURGING METHOD: BAILER - SUB. PUMP - CENT. PUMP - PACKER & PUMP - OTHER: ____

DEVICE DESCRIPTION: Vertical Turbine Pump DEVICE No.: ____

PUMP/BAILER INTAKE: SCREEN TOP - SCREEN/WELL BOTTOM - MID SCREEN/WELL - WATER LEVEL - MOVED UP/DOWN

PURGE WATER: DISCHARGED - TREATED - STORED ONSITE STORED IN: TANKS - DRUMS NO.: —

FIELD MEASURMENTS IN: FLOW THRU CHAMBER - OPEN JAR CASCADING WATER: YES - NO DEPTH: — FT-M BMP

WELL PURGING INTERVAL: — TO ____ FT-M BMP PURGE DEPTH TO WATER (MAX): — FT-M BMP

TIME	DEPTH TO WATER (FT-M BMP)	PURGE RATE or VOLUME (GPM/GAL)	TURBIDITY (NTU)	FIELD MEASUREMENTS AND UNITS: MTP °C.	MSC	MPH				COMMENTS
0855	123.60	800	.26	20	410	8.03				Pre Purge Readings
0858	"	"	.25	19	"	8.02				
0901	"	"	"	"	"	"				
										Post Purge Readings

TOTAL PURGE TIME: ____ HRS TOTAL PURGE VOLUME: ____ GAL - L. RECOVERY: FAST - SLOW - V.SLOW

FIELD MEASUREMENT CODES

MTP - Temperature (°C.)
MSC - Specific Conductance (mS/cm)
MPD - Photoionizer (e.g., HNu)
MFD - Flame Ionizer (e.g., OVA)
MCL - Color
MPH - pH
MEH - Eh
MAL - Alkalinity
MDO - Dissolved Oxygen (mg/L)
MO1 - Other: ____
MO2 - Other: ____
MO3 - Other: ____
MD1 - DTW in Well ____
MD2 - DTW in Well ____
MD3 - DTW in Well ____
MD4 - DTW in Well ____

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GEOLIS® Well Purging Form

COMPANY: HSI Geo Trans
CLIENT: Lockheed Martin Corp
PROJECT: WSCP Sampling
SITE / AREA: SCE#2 (OX Well)

LOCATION ID: 554
DATE: 6-3-97
SAMPLER: [illegible]
SIGNATURE: [illegible]

WELL OBSERVATIONS

CASING & LID: OK - DAMAGED - HEAVED - NO LID LOCKED: YES - NO KEY NO: — STICKUP: — FT-M

WELL DIAMETER: 2" - 4" - 6" - 8" - OTH: 20" BOREHOLE DIAMETER: ____ IN-CM MEASURING POINT: TIC - TOC - GRS

VAPOR READINGS: PID - FID - OTHER: 0ppm BACKGROUND: 0ppm INSIDE WELL: —

CHECKED FOR NAPL LAYER: YES - NO OBSERVED: NON - FLT - SNK THICKNESS: — IN-CM SHEEN: YES - NO

PURGING CALCULATIONS

(A) DEPTH TO WELL BOTTOM: 992 FT-M BMP
(B) DEPTH TO WATER: ____ FT-M BMP
(C) SAND PACK LENGTH — FT-M
(D) WATER COLUMN HEIGHT (A - B): ____ FT-M
(E) CASING VOLUME FACTOR: 16.4 GPF-LPM
(F) SAND PACK VOLUME FACTOR: — GPF-LPM
(G) CASING VOLUME (D x E): ____ GAL-L
(H) SAND PACK VOLUME (C x F): ____ GAL-L

Casing Factor (GPF for inches) = 0.041 (Well Diameter)²
2" = 0.16; 4" = 0.65; 6" = 1.47; 8" = 2.61 GPF

Sand Pack Factor (GPF for inches)
= [0.041 (Hole Diameter)² - 0.041 (Well Diameter)²] 0.45

(I) TOTAL WELL VOLUME (G + H): ____ GAL-L
(J) VOLUMES TO BE PURGED: 3
(K) TOTAL PURGE VOLUME (I x J): ____ GAL-L

PURGING INFORMATION

PURGE ENDPOINT: VOLUME - TIME - PARAMETER STABILIZATION - TURBIDITY CRITERIA: ____

PURGING METHOD: BAILER - SUB. PUMP - CENT. PUMP - PACKER & PUMP - OTHER: ____

DEVICE DESCRIPTION: ____ DEVICE No.: ____

PUMP/BAILER INTAKE: SCREEN TOP - SCREEN/WELL BOTTOM - MID SCREEN/WELL - WATER LEVEL - MOVED UP/DOWN

PURGE WATER: DISCHARGED - TREATED - STORED ONSITE STORED IN: TANKS - DRUMS NO.: —

FIELD MEASURMENTS IN: FLOW THRU CHAMBER - OPEN JAR CASCADING WATER: YES - NO DEPTH: — FT-M BMP

WELL PURGING INTERVAL: ____ TO ____ FT-M BMP PURGE DEPTH TO WATER (MAX): — FT-M BMP

TIME	DEPTH TO WATER (FT-M BMP)	PURGE RATE or VOLUME (GPM-GAL)	TURBIDITY (NTU)	FIELD MEASUREMENTS AND UNITS: MTP °C.	MSC	mpH				COMMENTS
1124			.53	22	280	8.53				Pre Purge Readings
1129			.43	20	270	8.50				
1133			.40	20	"	"				
1136			"	"	"	"				
										Post Purge Readings

TOTAL PURGE TIME: ____ HRS TOTAL PURGE VOLUME: ____ GAL - L. RECOVERY: FAST - SLOW - V.SLOW

FIELD MEASUREMENT CODES

MTP - Temperature (°C.)
MSC - Specific Conductance (mS/cm)
MPD - Photoionizer (e.g., HNu)
MFD - Flame Ionizer (e.g., OVA)
MCL - Color
MPH - pH
MEH - Eh
MAL - Alkalinity
MDO - Dissolved Oxygen (mg/L)
MO1 - Other: ____
MO2 - Other: ____
MO3 - Other: ____
MD1 - DTW in Well ____
MD2 - DTW in Well ____
MD3 - DTW in Well ____
MD4 - DTW in Well ____

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GEOLIS® Water Sampling Form

COMPANY: HSI Geo Trans
PROJECT: WSCP Sampling
PROPERTY:
SITE/AREA: Mt View #1

LOCATION ID: G91
DATE: 6-2-97
SAMPLER: Ralph Lehardone
SIGNATURE: [signature]

SITE SKETCH

	ESTIMATED/GPS	SURVEYED
SURFACE ELEVATION:		
N. COORDINATE:		
E. COORDINATE:		

WELL PERMIT No.:
MEASURING POINT: TOC - TSG - WAT - OTH:

SAMPLING INFORMATION

SAMPLE ID: Mt View #1 - 6-2-97

COLLECTION TIME (24:00): 08:35
DURATION HRS:MIN: :10
SAMPLE DEPTH FT-M BMP:
SAMPLING QTR/ROUND: WSCP

SAMPLE PURPOSE: BKG - SCR - RSK - RND - SDW - CON - OTH:
SAMPLE TYPE: DISCRETE - COMPOSITE - OTHER:
SAMPLING METHOD:
GROUNDWATER: BLO - BLC - PSB - PPR - PCN - PBL - NLF - MLS
SURFACE WATER BOT - KEM - BCB - SCP - TGS
OTHER:
SAMPLER DECONTAMINATION: DED - LAB - FLD - NON
(1)DET - (2)STM - (3)ACE - (4)HEX - (5)MET - (6)DIW - (7)POT - (8)NO3
(9)OTH: SEQUENCE:
SAMPLING PROCEDURES USED: NON - SAP/QAPP - SOP - OTH
REFERENCE:
QA SAMPLES: MS/MSD SAMPLE COLLECTED: YES - NO
DUPLICATE ID:
TRIP BLANK ID: Trip Blank - 6-2-97
AMBIENT - RINSE BLANK ID:
CHAIN-OF-CUSTODY No.:
48 HOUR PRECIPITATION: NON - LTE - MOD - HVY
CUR - 6 - 16 - 24 - HOURS PRIOR TO SAMPLING
WELL PURGE RECOVERY: % OF INITIAL WATER LEVEL

SAMPLE DESCRIPTION

GROUNDWATER: WCS - WBS - WBO - SUP - RES - BOR - HYD - SPR
SEP - PIT - SMP - OTH:
SURFACE WATER: TAL - LAK - PND - RVM - RVB - RVS - STP - STI - WET
OUB - INB - LAG - PIP - SWR - CUL - CHN - DCH - OTH:
SAMPLED: WATER - NAPL/PRODUCT - OTH:
WATER BODY/FORMATION NAME:
FLOW: FLD - FUL - LOW - POO - DRY - NA WIDTH: FT-M
DEPTH: FT-M VELOCITY: FT/S-M/S
VELOCITY METHOD: MMB - PYG - DYE - OBJ - EST
WATER COLOR: CLR - LBN - MBN - DBN - TUR - GRE - STN
NAPL LAYER PRESENT: NO - FLT - SNK
THICKNESS IN-CM SHEEN: YES - NO
DESCRIPTION

FIELD PARAMETERS:	UNITS	BEFORE	AFTER
TIME	24:00		
WATER LEVEL (BMP)	FT-M		
TEMPERATURE			
SP. CONDUCTANCE			
pH			
Eh			
DISS. OXYGEN			
PID / FID			
ALKALINITY			
TURBIDITY			

ANALYTICAL PARAMETERS

CHM: VOC - BNA - PES - PCB - HRB - PHE - TOC - UMT - FMT - ION - SOL - INO - OTH: LAB NAME: Del Mar
CHM: VOC - BNA - PES - PCB - HRB - PHE - TOC - UMT - FMT - ION - SOL - INO - OTH:
RAD/OTH: GAL - GBT - GGM - SAL - TRT - ASB - OTH:

SPLIT SAMPLES: NON - CLI - CWN - CVR - OTH:
SPLIT SAMPLE ID NO.:
ORGANIZATION NAME:
PARAMETERS: SAME - OTHER:
REPRESENTATIVES NAME:
QA/QC SAMPLES: NON - COL - RNS - TRP - MSD

COMMENTS: Pump was on when Sampled
Pump was on 1.5 Hour's Previous to Sampling

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GEOLIS® Water Sampling Form

COMPANY: HSI Geo Trans
PROJECT: WSCP Sampling
PROPERTY:
SITE/AREA: Mt View #4

LOCATION ID: 692
DATE: 6-2-97
SAMPLER: [illegible]
SIGNATURE: [illegible]

SITE SKETCH

	ESTIMATED/GPS	SURVEYED
SURFACE ELEVATION:		
N. COORDINATE:		
E. COORDINATE:		

WELL PERMIT No.:
MEASURING POINT: TOC - TSG - WAT - OTH:

SAMPLING INFORMATION

SAMPLE ID: Mt View #2-6-2-97

COLLECTION TIME (24:00): 08:10
DURATION HRS:MIN: :10
SAMPLE DEPTH FT-M BMP:
SAMPLING QTR/ROUND: WSCP

SAMPLE PURPOSE: BKG - SCR - RSK - RND - SDW - CON - OTH:
SAMPLE TYPE: DISCRETE - COMPOSITE - OTHER:
SAMPLING METHOD:
GROUNDWATER: BLO - BLC - PSB - PPR - PCN - PBL - NLF - MLS
SURFACE WATER BOT - KEM - BCB - SCP - TGS
OTHER:
SAMPLER DECONTAMINATION: DED - LAB - FLD - NON
(1)DET - (2)STM - (3)ACE - (4)HEX - (5)MET - (6)DIW - (7)POT - (8)NO3
(9)OTH: SEQUENCE:
SAMPLING PROCEDURES USED: NON - SAP/QAPP - SOP - OTH
REFERENCE:
QA SAMPLES: MS/MSD SAMPLE COLLECTED: YES - NO
DUPLICATE ID:
TRIP BLANK ID: Trip Blank-6-2-97
AMBIENT - RINSE BLANK ID:
CHAIN-OF-CUSTODY No.:
48 HOUR PRECIPITATION: NON - LTE - MOD - HVY
CUR - 8 - 16 - 24 - HOURS PRIOR TO SAMPLING
WELL PURGE RECOVERY: % OF INITIAL WATER LEVEL

SAMPLE DESCRIPTION

GROUNDWATER WCS - WBS - WBO - SUP - RES - BOR - HYD - SPR
SEP - PIT - SMP - OTH:
SURFACE WATER: TAL - LAK - PND - RVM - RVB - RVS - STP - STI - WET
OUB - INB - LAG - PIP - SWR - CUL - CHN - DCH - OTH:
SAMPLED: WATER - NAPL/PRODUCT - OTH:
WATER BODY/FORMATION NAME:
FLOW: FLD - FUL - LOW - POO - DRY - NA WIDTH: FT-M
DEPTH: FT-M VELOCITY: FT/S-M/S
VELOCITY METHOD: MMB - PYG - DYE - OBJ - EST
WATER COLOR: CLR - LBN - MBN - DBN - TUR - GRE - STN
NAPL LAYER PRESENT: NO - FLT - SNK
THICKNESS IN-CM SHEEN: YES - NO
DESCRIPTION

FIELD PARAMETERS:	UNITS	BEFORE	AFTER
TIME	24:00		
WATER LEVEL (BMP)	FT-M		
TEMPERATURE			
SP. CONDUCTANCE			
pH			
Eh			
DISS. OXYGEN			
PID / FID			
ALKALINITY			
TURBIDITY			

ANALYTICAL PARAMETERS

CHM: VOC - BNA - PES - PCB - HRB - PHE - TOC - UMT - FMT - ION - SOL - INO - OTH: LAB NAME Del Mar
CHM: VOC - BNA - PES - PCB - HRB - PHE - TOC - UMT - FMT - ION - SOL - INO - OTH:
RAD/OTH: GAL - GBT - GGM - SAL - TRT - ASB - OTH:

SPLIT SAMPLES: NON - CLI - CWN - CVR - OTH:
ORGANIZATION NAME:
REPRESENTATIVES NAME:
SPLIT SAMPLE ID NO.:
PARAMETERS: SAME - OTHER:
QA/QC SAMPLES: NON - COL - RNS - TRP - MSD

COMMENTS: Pump was on when Sampled
Pump was on 1.5 Hours previous to Sampling

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GEOLIS® Water Sampling Form

COMPANY: FSI Geotrans
PROJECT: WSCP Sampling
PROPERTY:
SITE/AREA: Richardson #1

LOCATION ID: 693
DATE: 6-2-97
SAMPLER: [illegible]
SIGNATURE: [illegible]

SITE SKETCH

	ESTIMATED/GPS	SURVEYED
SURFACE ELEVATION:		
N. COORDINATE:		
E. COORDINATE:		

WELL PERMIT No.:
MEASURING POINT: TOC - TSG - WAT - OTH:

SAMPLING INFORMATION

SAMPLE ID: Richardson #1-6-2-97

COLLECTION TIME (24:00): 07:10
DURATION HRS:MIN: :10
SAMPLE DEPTH FT-M BMP:
SAMPLING QTR/ROUND: WSCP

SAMPLE PURPOSE: BKG - SCR - RSK - RND - SDW - CON - OTH:
SAMPLE TYPE: DISCRETE - COMPOSITE - OTHER:
SAMPLING METHOD:
GROUNDWATER: BLO - BLC - PSB - PPR - PCN - PBL - NLF - MLS
SURFACE WATER BOT - KEM - BCB - SCP - TGS
OTHER:
SAMPLER DECONTAMINATION: DED - LAB - FLD - NON
(1)DET - (2)STM - (3)ACE - (4)HEX - (5)MET - (6)DIW - (7)POT - (8)NO3
(9)OTH: SEQUENCE:
SAMPLING PROCEDURES USED: NON - SAP/QAPP - SOP - OTH
REFERENCE:
QA SAMPLES: MS/MSD SAMPLE COLLECTED: YES - NO
DUPLICATE ID:
TRIP BLANK ID: Trip Blank-6-2-97
AMBIENT - RINSE BLANK ID:
CHAIN-OF-CUSTODY No.:
48 HOUR PRECIPITATION: NON - LTE - MOD - HVY
CUR - 6 - 16 - 24 - HOURS PRIOR TO SAMPLING
WELL PURGE RECOVERY: % OF INITIAL WATER LEVEL

SAMPLE DESCRIPTION

GROUNDWATER WCS - WBS - WBO - SUP - RES - BOR - HYD - SPR
SEP - PIT - SMP - OTH:
SURFACE WATER: TAL - LAK - PND - RVM - RVB - RVS - STP - STI - WET
OUB - INB - LAG - PIP - SWR - CUL - CHN - DCH - OTH:
SAMPLED: WATER - NAPL/PRODUCT - OTH:
WATER BODY/FORMATION NAME:
FLOW: FLD - FUL - LOW - POO - DRY - NA WIDTH: FT-M
DEPTH: FT-M VELOCITY: FT/S-M/S
VELOCITY METHOD: MMB - PYG - DYE - OBJ - EST
WATER COLOR: CLR - LBN - MBN - DBN - TUR - GRE - STN
NAPL LAYER PRESENT: NO - FLT - SNK
THICKNESS IN-CM SHEEN: YES - NO
DESCRIPTION

FIELD PARAMETERS:	UNITS	BEFORE	AFTER
TIME	24:00		
WATER LEVEL (BMP)	FT-M		
TEMPERATURE			
SP. CONDUCTANCE			
pH			
Eh			
DISS. OXYGEN			
PID / FID			
ALKALINITY			
TURBIDITY			

ANALYTICAL PARAMETERS

CHM: VOC - BNA - PES - PCB - HRB - PHE - TOC - UMT - FMT - ION - SOL - INO - OTH: LAB NAME Del Mar
CHM: VOC - BNA - PES - PCB - HRB - PHE - TOC - UMT - FMT - ION - SOL - INO - OTH:
RAD/OTH: GAL - GBT - GGM - SAL - TRT - ASB - OTH:

SPLIT SAMPLES: NON - CLI - OWN - OVR - OTH:
SPLIT SAMPLE ID NO.:
ORGANIZATION NAME:
PARAMETERS: SAME - OTHER:
REPRESENTATIVES NAME:
QA/QC SAMPLES: NON - COL - RNS - TRP - MSD

COMMENTS: Pump was on when sampled
Pump was on 1 hour previous to sampling

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GEOLIS Water Sampling Form

COMPANY: ITT Geo Trans
PROJECT: WSCP Sampling
PROPERTY:
SITE/AREA: Richardson #2

LOCATION ID: 094
DATE: 6-2-97
SAMPLER: John Fellenzarow
SIGNATURE:

SITE SKETCH

	ESTIMATED/GPS	SURVEYED
SURFACE ELEVATION:		
N. COORDINATE:		
E. COORDINATE:		

WELL PERMIT No.:
MEASURING POINT: TOC - TSG - WAT - OTH:

SAMPLING INFORMATION

SAMPLE ID: Richardson #2-6-2-97

COLLECTION TIME (24:00): 07 :40
DURATION HRS:MIN: :10
SAMPLE DEPTH FT-M BMP:
SAMPLING QTR/ROUND: WSCP

SAMPLE PURPOSE: BKG - SCR - RSK - RND - SDW - CON - OTH:
SAMPLE TYPE: DISCRETE - COMPOSITE - OTHER:
SAMPLING METHOD:
GROUNDWATER: BLO - BLG - PSB - PPR - PCN - PSL - NLF - MLS
SURFACE WATER BOT - KEM - BCS - SCP - TGS
OTHER:
SAMPLER DECONTAMINATION: DED - LAB - FLD - NON
(1)DET - (2)STM - (3)ACE - (4)HEX - (5)MET - (6)DW - (7)POT - (8)NO3
(9)OTH: SEQUENCE:
SAMPLING PROCEDURES USED: NON - SAP/QAPP - SOP - OTH
REFERENCE:
QA SAMPLES: MS/MSD SAMPLE COLLECTED: YES - NO
DUPLICATE ID:
TRIP BLANK ID: Trip Blank-6-2-97
AMBIENT - RINSE BLANK ID:
CHAIN-OF-CUSTODY No.:
48 HOUR PRECIPITATION: NON - LTE - MOD - HVY
CUR - 6 - 16 - 24 - HOURS PRIOR TO SAMPLING
WELL PURGE RECOVERY: % OF INITIAL WATER LEVEL

SAMPLE DESCRIPTION

GROUNDWATER: WCS - WBS - WBO - SUP - RES - BCR - HYD - SPR
SEP - PIT - SMP - OTH:
SURFACE WATER: TAL - LAK - PND - RVM - RVB - RVS - STP - STI - WET
OUB - INB - LAG - PIP - SWR - CUL - CHN - DCH - OTH:
SAMPLED: WATER - NAPL/PRODUCT - OTH:
WATER BODY/FORMATION NAME:
FLOW: FLD - FUL - LOW - PCO - DRY - NA WIDTH: FT-M
DEPTH: FT-M VELOCITY: FT/S-M/S
VELOCITY METHOD: MMB - PYG - DYE - OBJ - EST
WATER COLOR: CLR - LBN - MBN - DBN - TUR - GRE - STN
NAPL LAYER PRESENT: NO - FLT - SNK
THICKNESS IN-CM SHEEN: YES - NO
DESCRIPTION

FIELD PARAMETERS:	UNITS	BEFORE	AFTER
TIME	24:00		
WATER LEVEL (BMP)	FT-M		
TEMPERATURE			
SP. CONDUCTANCE			
pH			
Eh			
DISS. OXYGEN			
PID / FID			
ALKALINITY			
TURBIDITY			

ANALYTICAL PARAMETERS

CHM: VOC - BNA - PES - PCB - HRB - PHE - TOC - UMT - FMT - ION - SOL - INO - OTH: LAB NAME: Del Mar
CHM: VOC - BNA - PES - PCB - HRB - PHE - TOC - UMT - FMT - ION - SOL - INO - OTH:
RAD/OTH: GAL - GBT - GGM - SAL - TRT - ASB - OTH:

SPLIT SAMPLES: NON - CLI - CWN - CVR - OTH:
SPLIT SAMPLE ID NO.:
ORGANIZATION NAME:
PARAMETERS: SAME - OTHER:
REPRESENTATIVES NAME:
QA/QC SAMPLES: NON - COL - RNS - TRP - MSD

COMMENTS: Pump was on when Sampled
Pump was on 1 hour previous to sampling

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GEOLIS Water Sampling Form

COMPANY: HSL (Geotran)
PROJECT: WSCP Sampling
PROPERTY:
SITE/AREA: Victoria Farms #1

LOCATION ID: 221
DATE: 6-2-97
SAMPLER: [illegible]
SIGNATURE: [illegible]

SITE SKETCH

	ESTIMATED/GPS	SURVEYED
SURFACE ELEVATION:		
N. COORDINATE:		
E. COORDINATE:		

WELL PERMIT No.:
MEASURING POINT: TOC - TSG - WAT - OTH:

SAMPLING INFORMATION

SAMPLE ID: Victoria Farms #1-6-2-97
COLLECTION TIME (24:00): 09:40
DURATION HRS:MIN: :15
SAMPLE DEPTH FT-M BMP:
SAMPLING QTR/ROUND: WSCP
SAMPLE PURPOSE: BKG - SCR - RSK - RND - SDW - CON - OTH:
SAMPLE TYPE: DISCRETE - COMPOSITE - OTHER:
SAMPLING METHOD:
GROUNDWATER: BLO - BLC - PSB - PPR - PCN - PBL - NLF - MLS
SURFACE WATER: BGT - KEM - BCS - SCP - TGS
OTHER:
SAMPLER DECONTAMINATION: DED - LAB - FLD - NON
(1)DET - (2)STM - (3)ACE - (4)HEX - (5)MET - (6)DIW - (7)POT - (8)NO3
(9)OTH: SEQUENCE:
SAMPLING PROCEDURES USED: NON - SAP/CAPP - SOP - OTH
REFERENCE:
QA SAMPLES: MS/MSD SAMPLE COLLECTED: YES - NO
DUPLICATE ID: MUN-505-6-2-97
TRIP BLANK ID: TripBlank-6-2-97
AMBIENT - RINSE BLANK ID: —
CHAIN-OF-CUSTODY No.: —
48 HOUR PRECIPITATION: NON - LTE - MOD - HVY
CUR - 6 - 16 - 24 - HOURS PRIOR TO SAMPLING
WELL PURGE RECOVERY: % OF INITIAL WATER LEVEL

SAMPLE DESCRIPTION

GROUNDWATER: WCS - WBS - WBO - SUP - RES - BCR - HYD - SPR
SEP - PIT - SMP - OTH:
SURFACE WATER: TAL - LAK - PND - RVM - RVB - RVS - STP - STI - WET
CUB - INB - LAG - RIP - SWR - CUL - CHN - DCH - OTH:
SAMPLED: WATER - NAPL/PRODUCT - OTH:
WATER BODY/FORMATION NAME:
FLOW: FLD - FUL - LOW - POO - DRY - NA WIDTH: FT-M
DEPTH: FT-M VELOCITY: FT/S-M/S
VELOCITY METHOD: MMB - PYG - DYE - OBJ - EST
WATER COLOR: CLR - LBN - MBN - DBN - TUR - GRE - STN
NAPL LAYER PRESENT: NO - FLT - SNK
THICKNESS IN-CM SHEEN: YES - NO
DESCRIPTION

FIELD PARAMETERS:	UNITS	BEFORE	AFTER
TIME	24:00		
WATER LEVEL (BMP)	FT-M		
TEMPERATURE			
SP. CONDUCTANCE			
pH			
Eh			
DISS. OXYGEN			
PID / FID			
ALKALINITY			
TURBIDITY			

ANALYTICAL PARAMETERS

CHM: VOC - BNA - PES - PCB - HRB - PHE - TOC - UMT - FMT - ICN - SOL - INO - OTH: LAB NAME: Del Mar
CHM: VOC - BNA - PES - PCB - HRB - PHE - TOC - UMT - FMT - ICN - SOL - INO - OTH:
RAD/OTH: GAL - GBT - GGM - SAL - TRT - ASB - OTH:

SPLIT SAMPLES: NON - CLI - OWN - OVR - OTH:
SPLIT SAMPLE ID NO.:
ORGANIZATION NAME:
PARAMETERS: SAME - OTHER:
REPRESENTATIVES NAME:
QA/QC SAMPLES: NON - COL - RNS - TRP - MSD

COMMENTS: Pump was on when Sampled
Pump was on 35min previous before Sampling

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GEOLIS Water Sampling Form

COMPANY: HSI Geo Trans
PROJECT: WSCP Sampling
PROPERTY: —
SITE/AREA: Victoria #3

LOCATION ID: 650
DATE: 6-2-97
SAMPLER: Ralph DeLaParra
SIGNATURE: [signature]

SITE SKETCH

	ESTIMATED/GPS	SURVEYED
SURFACE ELEVATION:		
N. COORDINATE:		
E. COORDINATE:		

WELL PERMIT No.:
MEASURING POINT: TOC - TSG - WAT - OTH:

SAMPLING INFORMATION

SAMPLE ID: Victoria Farms #3-6-2-97

COLLECTION TIME (24:00): 09:10
DURATION HRS:MIN: :10
SAMPLE DEPTH FT-M BMP:
SAMPLING QTR/ROUND: WSCP

SAMPLE PURPOSE: BKG - SCR - RSK - RND - SDW - CON - OTH:
SAMPLE TYPE: DISCRETE - COMPOSITE - OTHER:
SAMPLING METHOD:
GROUNDWATER: BLO - BLC - PSB - PPR - PCN - PBL - NLF - MLS
SURFACE WATER: BOT - KEM - BCB - SCP - TGS
OTHER:
SAMPLER DECONTAMINATION: DED - LAB - FLD - NON
(1)DET - (2)STM - (3)ACE - (4)HEX - (5)MET - (6)DIW - (7)POT - (8)NO3
(9)OTH: SEQUENCE:
SAMPLING PROCEDURES USED: NON - SAP/QAPP - SOP - OTH
REFERENCE:
QA SAMPLES: MS/MSD SAMPLE COLLECTED: YES - NO
DUPLICATE ID:
TRIP BLANK ID: Trip Blank-6-2-97
AMBIENT - RINSE BLANK ID:
CHAIN-OF-CUSTODY No.:
48 HOUR PRECIPITATION: NON - LTE - MOD - HVY
CUR - 8 - 16 - 24 - HOURS PRIOR TO SAMPLING
WELL PURGE RECOVERY: % OF INITIAL WATER LEVEL

SAMPLE DESCRIPTION

GROUNDWATER: WCS - WBS - WBO - SUP - RES - BOR - HYD - SPR
SEP - PIT - SMP - OTH:
SURFACE WATER: TAL - LAK - PND - RVM - RVB - RVS - STP - STI - WET
OUB - INB - LAG - PIP - SWR - CUL - CHN - DCH - OTH:
SAMPLED: WATER - NAPL/PRODUCT - OTH:
WATER BODY/FORMATION NAME:
FLOW: FLD - FUL - LOW - POO - DRY - NA WIDTH: FT-M
DEPTH: FT-M VELOCITY: FT/S-M/S
VELOCITY METHOD: MMB - PYG - DYE - OBJ - EST
WATER COLOR: CLR - LBN - MBN - DBN - TUR - GRE - STN
NAPL LAYER PRESENT: NO - FLT - SNK
THICKNESS IN-CM SHEEN: YES - NO
DESCRIPTION

FIELD PARAMETERS:	UNITS	BEFORE	AFTER
TIME	24:00		
WATER LEVEL (BMP)	FT-M		
TEMPERATURE			
SP. CONDUCTANCE			
pH			
Eh			
DISS. OXYGEN			
PID / FID			
ALKALINITY			
TURBIDITY			

ANALYTICAL PARAMETERS

CHM: VOC - BNA - PES - PCB - HRB - PHE - TOC - UMT - FMT - ION - SOL - INO - OTH: LAB NAME: Del Mar
CHM: VOC - BNA - PES - PCB - HRB - PHE - TOC - UMT - FMT - ION - SOL - INO - OTH:
RAD/OTH: GAL - GBT - GGM - SAL - TRT - ASB - OTH:

SPLIT SAMPLES: NON - CLI - CWN - CVR - OTH:
SPLIT SAMPLE ID NO.:
ORGANIZATION NAME:
PARAMETERS: SAME - OTHER:
REPRESENTATIVES NAME:
QA/QC SAMPLES: NON - COL - RNS - TRP - MSD

COMMENTS: Pump was on when Sampled
Pump was running 1 hour previous before Sampling

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GEOLIS Water Sampling Form

COMPANY: HST Geo Trans
PROJECT: WSCP Sampling
PROPERTY: —
SITE/AREA: SCE #2 / (OX well)

LOCATION ID: 554
DATE: 6-3-97
SAMPLER: [illegible]
SIGNATURE: [illegible]

SITE SKETCH

N

	ESTIMATED/GPS	SURVEYED
SURFACE ELEVATION:		
N. COORDINATE:		
E. COORDINATE:		

WELL PERMIT No.:
MEASURING POINT: TOC - TSG - WAT - OTH:

SAMPLING INFORMATION

SAMPLE ID: SCEOX-6-3-97

COLLECTION TIME (24:00): 11:40
DURATION HRS:MIN: :10

SAMPLE DEPTH FT-M BMP:
SAMPLING QTR/ROUND: WSCP

SAMPLE PURPOSE: BKG - SCR - RSK - RND - SDW - CON - OTH:
SAMPLE TYPE: DISCRETE - COMPOSITE - OTHER:
SAMPLING METHOD:
GROUNDWATER: BLO - BLC - PSB - PPR - PCN - PSL - NLF - MLS
SURFACE WATER: BOT - KEM - BCS - SCP - TGS
OTHER:
SAMPLER DECONTAMINATION: DED - LAB - FLD - NON
(1)DET - (2)STM - (3)ACE - (4)HEX - (5)MET - (6)DW - (7)POT - (8)NO3
(9)OTH: SEQUENCE:
SAMPLING PROCEDURES USED: NON - SAP/CAPP - SOP - OTH
REFERENCE:
QA SAMPLES: MS/MSD SAMPLE COLLECTED: YES - NO

DUPLICATE ID: MUN-506-6-3-97
TRIP BLANK ID: Trip Blank-6-3-97
AMBIENT - RINSE BLANK ID:

CHAIN-OF-CUSTODY No.:
48 HOUR PRECIPITATION: NON - LTE - MOD - HVY
CUR - 6 - 16 - 24 - HOURS PRIOR TO SAMPLING
WELL PURGE RECOVERY: % OF INITIAL WATER LEVEL

SAMPLE DESCRIPTION

GROUNDWATER: WCS - WBS - WBO - SUP - REB - BCR - HYD - SPR
SEP - PIT - SMP - OTH:
SURFACE WATER: TAL - LAK - PND - RVM - RVB - RVS - STP - STI - WET
CUB - INB - LAG - PIR - SWR - CUL - CHN - DCH - OTH:
SAMPLED: WATER - NAPL/PRODUCT - OTH:
WATER BODY/FORMATION NAME:
FLOW: FLD - FUL - LOW - POO - DRY - NA WIDTH: FT-M
DEPTH: FT-M VELOCITY: FT/S-M/S
VELOCITY METHOD: MMB - PYG - CYE - OBJ - EST
WATER COLOR: CLR - LBN - MBN - DBN - TUR - GRE - STN
NAPL LAYER PRESENT: NO - FLT - SNK
THICKNESS IN-CM SHEEN: YES - NO
DESCRIPTION

FIELD PARAMETERS:	UNITS	BEFORE	AFTER
TIME	24:00		
WATER LEVEL (BMP)	FT-M		
TEMPERATURE			
SP. CONDUCTANCE			
pH			
Eh			
DISS. OXYGEN			
PID / FID			
ALKALINITY			
TURBIDITY			

ANALYTICAL PARAMETERS

LAB NAME: Del Mar

CHM: VOC - BNA - PES - PCB - HRB - PHE - TOC - UMT - FMT - ICN - SOL - INO - OTH:
CHM: VOC - BNA - PES - PCB - HRB - PHE - TOC - UMT - FMT - ICN - SOL - INO - OTH:
RAD/OTH: GAL - GBT - GGM - SAL - TRT - ASB - OTH:

SPLIT SAMPLES: NON - CLI - GWN - CVR - OTH:
SPLIT SAMPLE ID NO.:
ORGANIZATION NAME:
PARAMETERS: SAME - OTHER:
REPRESENTATIVES NAME:
QA/QC SAMPLES: NON - CCL - RNS - TRP - MSD

COMMENTS: (OX well) is continuously running 98% of the time
Pump was "on" when sampled

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ATTACHMENT B

CHAIN-OF-CUSTODY RECORDS
AND
LABORATORY DATA SHEETS

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

CRWQCB - L.A. REGION
WELL INVESTIGATION PROGRAM
QA/QC REPORT

PREPARED FOR HSI GEOTRANS
PROJECT: WSCP SAMPLING
SAMPLED: 6/2/97

ATTENTION: ROY MARROQUIN

Celebrating 10 years of service 1987-1997

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 1)

Laboratory Name: Del Mar Analytical

Address: 2852 Alton Avenue

Irvine, CA 92606

Telephone/FAX: (714) 261-1022 / (714) 261-1228

ELAP Certification No.: 1197 Expiration Date: May 31, 1998

Authorized Signature:
Name, Title (print) Debbie Ranck, Quality Assurance Officer

Signature, Date:

Client Name: HSI Geotrans

Project No.: WSCP Sampling

Date(s) Sampled: 6/2/97 To

Date(s) Received: 6/2/97 To

Date(s) Reported: 6/11/97 To

Chain of Custody received: Yes X No

Comments: The methylene chloride reported in the Trip Blank is most likely due to laboratory contamination.

(RWQCB LabForm; Ver 12/94)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

Organic Analyses	# of Samples	# of Samples Subcontracted
EPA 502.2	8	0

Sample Condition: Acceptable

Inorganic Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Microbiological Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Other Types of Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

PROJECT NO: WSCP Sampling (RWQCB LabForm 10A; Ver12/94)

ANALYTICAL RESULT FOR ORGANICS

METHOD: **EPA 502.2** **REPORTING UNIT:** **µg/L**

	DATE ANALYZED	6/4/97	6/4/97	6/4/97	6/4/97
	DATE EXTRACTED	6/4/97	6/4/97	6/4/97	6/4/97
	LAB SAMPLE ID	Method Blank	GF00007	GF00008	GF00009
	CLIENT SAMPLE ID	n/a	Richardson #1-6-2-97	Richardson #2-6-2-97	Mt. View #2-6-2-97
	EXTRACTION SOLVENT	n/a	n/a	n/a	n/a
	EXTRACTION METHOD	502.2	502.2	502.2	502.2
	DILUTION FACTOR	1	1	1	1
COMPOUND	**CRDL**				
Benzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromochloromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromoform	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromomethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
n-Butylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
sec-Butylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
tert-Butylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbon tetrachloride	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroform	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorotoluene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorotoluene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibromochloromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dibromo-3-chloropropane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dibromoethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibromomethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorodifluoromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethane (1,1-DCA)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane (1,2-DCA)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethene (1,1-DCE)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	0.50	< 0.50	< 0.50	< 0.50	< 0.50

PROJECT NO: WSCP Sampling

ANALYTICAL RESULT FOR ORGANICS (cont'd)

METHOD: EPA 502.2 **REPORTING UNIT:** µg/L

	LAB SAMPLE ID	Method Blank	GF00007	GF00008	GF00009
	CLIENT SAMPLE ID	n/a	Richardson #1-6-2-97	Richardson #2-6-2-97	Mt. View #2-6-2-97
COMPOUND	CRDL				
1,3-Dichloropropane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,2-Dichloropropane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloropropene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Ethylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isopropylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
p-Isopropyltoluene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methylene chloride	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
n-Propylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Styrene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,1,2-Tetrachloroethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-Tetrachloroethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethene (PCE)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,1-Trichloroethane (1,1,1-TCA)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane (1,1,2-TCA)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene (TCE)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichloropropane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trimethylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	0.50	< 0.50	< 0.50	< 0.50	< 0.50
o-Xylene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
m,p-Xylenes	0.50	< 0.50	< 0.50	< 0.50	< 0.50

SURROGATE	SPIKE CONC	ACCEPT LIMITS %	% RECOVERY	% RECOVERY	% RECOVERY	% RECOVERY
1-Chloro-3-fluorobenzene	10	80-120	107	100	99	98
a,a,a-Trifluorotoluene	10	80-120	102	99	98	98

PROJECT NO: WSCP Sampling (RWQCB LabForm 10A; Ver12/94)

ANALYTICAL RESULT FOR ORGANICS

METHOD: EPA 502.2 **REPORTING UNIT:** µg/L

	DATE ANALYZED	6/4/97			
	DATE EXTRACTED	6/4/97			
	LAB SAMPLE ID	GF00010			
	CLIENT SAMPLE ID	Mt. View #1-6-2-97			
	EXTRACTION SOLVENT	n/a			
	EXTRACTION METHOD	502.2			
	DILUTION FACTOR	1			
COMPOUND	**CRDL**				
Benzene	0.50	< 0.50			
Bromobenzene	0.50	< 0.50			
Bromochloromethane	0.50	< 0.50			
Bromodichloromethane	0.50	< 0.50			
Bromoform	0.50	< 0.50			
Bromomethane	0.50	< 0.50			
n-Butylbenzene	0.50	< 0.50			
sec-Butylbenzene	0.50	< 0.50			
tert-Butylbenzene	0.50	< 0.50			
Carbon tetrachloride	0.50	< 0.50			
Chlorobenzene	0.50	< 0.50			
Chloroethane	0.50	< 0.50			
Chloroform	0.50	< 0.50			
Chloromethane	0.50	< 0.50			
2-Chlorotoluene	0.50	< 0.50			
4-Chlorotoluene	0.50	< 0.50			
Dibromochloromethane	0.50	< 0.50			
1,2-Dibromo-3-chloropropane	0.50	< 0.50			
1,2-Dibromoethane	0.50	< 0.50			
Dibromomethane	0.50	< 0.50			
1,2-Dichlorobenzene	0.50	< 0.50			
1,3-Dichlorobenzene	0.50	< 0.50			
1,4-Dichlorobenzene	0.50	< 0.50			
Dichlorodifluoromethane	0.50	< 0.50			
1,1-Dichloroethane (1,1-DCA)	0.50	< 0.50			
1,2-Dichloroethane (1,2-DCA)	0.50	< 0.50			
1,1-Dichloroethene (1,1-DCE)	0.50	< 0.50			
cis-1,2-Dichloroethene	0.50	< 0.50			
trans-1,2-Dichloroethene	0.50	< 0.50			
1,2-Dichloropropane	0.50	< 0.50			

PROJECT NO: WSCP Sampling

ANALYTICAL RESULT FOR ORGANICS (cont'd)

METHOD: EPA 502.2 **REPORTING UNIT:** µg/L

LAB SAMPLE ID		GF00010			
CLIENT SAMPLE ID		Mt. View #1-6-2-97			
COMPOUND	**CRDL**				
1,3-Dichloropropane	0.50	< 0.50			
2,2-Dichloropropane	0.50	< 0.50			
1,1-Dichloropropene	0.50	< 0.50			
cis-1,3-Dichloropropene	0.50	< 0.50			
trans-1,3-Dichloropropene	0.50	< 0.50			
Ethylbenzene	0.50	< 0.50			
Hexachlorobutadiene	0.50	< 0.50			
Isopropylbenzene	0.50	< 0.50			
p-Isopropyltoluene	0.50	< 0.50			
Methylene chloride	1.0	< 1.0			
Naphthalene	0.50	< 0.50			
n-Propylbenzene	0.50	< 0.50			
Styrene	0.50	< 0.50			
1,1,1,2-Tetrachloroethane	0.50	< 0.50			
1,1,2,2-Tetrachloroethane	0.50	< 0.50			
Tetrachloroethene (PCE)	0.50	< 0.50			
Toluene	0.50	< 0.50			
1,2,3-Trichlorobenzene	0.50	< 0.50			
1,2,4-Trichlorobenzene	0.50	< 0.50			
1,1,1-Trichloroethane (1,1,1-TCA)	0.50	< 0.50			
1,1,2-Trichloroethane (1,1,2-TCA)	0.50	< 0.50			
Trichloroethene (TCE)	0.50	< 0.50			
Trichlorofluoromethane	0.50	< 0.50			
1,2,3-Trichloropropane	0.50	< 0.50			
1,2,4-Trimethylbenzene	0.50	< 0.50			
1,3,5-Trimethylbenzene	0.50	< 0.50			
Vinyl chloride	0.50	< 0.50			
o-Xylene	0.50	< 0.50			
m,p-Xylenes	0.50	< 0.50			

SURROGATE	SPIKE CONC	ACCEPT LIMITS %	% RECOVERY	% RECOVERY	% RECOVERY	% RECOVERY
1-Chloro-3-fluorobenzene	10	80-120	97			
a,a,a-Trifluorotoluene	10	80-120	94			

PROJECT NO: WSCP Sampling (RWQCB LabForm 10A; Ver12/94)

ANALYTICAL RESULT FOR ORGANICS

METHOD: **EPA 502.2** **REPORTING UNIT:** **µg/L**

	DATE ANALYZED	6/6/97	6/6/97	6/6/97	6/6/97
	DATE EXTRACTED	6/6/97	6/6/97	6/6/97	6/6/97
	LAB SAMPLE ID	Method Blank	GF00011	GF00012	GF00013
	CLIENT SAMPLE ID	n/a	Victoria Farms #3-6-2-97	Victoria Farms #1-6-2-97	MUN-505-6-2-97
	EXTRACTION SOLVENT	n/a	n/a	n/a	n/a
	EXTRACTION METHOD	502.2	502.2	502.2	502.2
	DILUTION FACTOR	1	1	1	1
COMPOUND	**CRDL**				
Benzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromochloromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromoform	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromomethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
n-Butylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
sec-Butylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
tert-Butylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbon tetrachloride	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroform	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorotoluene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorotoluene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibromochloromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dibromo-3-chloropropane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dibromoethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibromomethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorodifluoromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethane (1,1-DCA)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane (1,2-DCA)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethene (1,1-DCE)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	0.50	< 0.50	< 0.50	< 0.50	< 0.50

PROJECT NO: WSCP Sampling

ANALYTICAL RESULT FOR ORGANICS (cont'd)

METHOD: **EPA 502.2** **REPORTING UNIT:** **µg/L**

	LAB SAMPLE ID	Method Blank	GF00011	GF00012	GF00013
	CLIENT SAMPLE ID	n/a	Victoria Farms #3-6-2-97	Victoria Farms #1-6-2-97	MUN-505-6-2-97
COMPOUND	**CRDL**				
1,3-Dichloropropane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,2-Dichloropropane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloropropene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Ethylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isopropylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
p-Isopropyltoluene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methylene chloride	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
n-Propylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Styrene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,1,2-Tetrachloroethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-Tetrachloroethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethene (PCE)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,1-Trichloroethane (1,1,1-TCA)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane (1,1,2-TCA)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene (TCE)	0.50	< 0.50	< 0.50	**2.6**	**2.7**
Trichlorofluoromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichloropropane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trimethylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	0.50	< 0.50	< 0.50	< 0.50	< 0.50
o-Xylene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
m,p-Xylenes	0.50	< 0.50	< 0.50	< 0.50	< 0.50

SURROGATE	**SPIKE CONC**	**ACCEPT LIMITS %**	**% RECOVERY**	**% RECOVERY**	**% RECOVERY**	**% RECOVERY**
1-Chloro-3-fluorobenzene	10	80-120	105	106	103	105
a,a,a-Trifluorotoluene	10	80-120	97	103	104	98

PROJECT NO: WSCP Sampling (RWQCB LabForm 10A; Ver12/94)

ANALYTICAL RESULT FOR ORGANICS

METHOD: **EPA 502.2** **REPORTING UNIT:** **µg/L**

	DATE ANALYZED	6/6/97			
	DATE EXTRACTED	6/6/97			
	LAB SAMPLE ID	GF00014			
	CLIENT SAMPLE ID	Trip Blank-6-2-97			
	EXTRACTION SOLVENT	n/a			
	EXTRACTION METHOD	502.2			
	DILUTION FACTOR	1			
COMPOUND	**CRDL**				
Benzene	0.50	< 0.50			
Bromobenzene	0.50	< 0.50			
Bromochloromethane	0.50	< 0.50			
Bromodichloromethane	0.50	< 0.50			
Bromoform	0.50	< 0.50			
Bromomethane	0.50	< 0.50			
n-Butylbenzene	0.50	< 0.50			
sec-Butylbenzene	0.50	< 0.50			
tert-Butylbenzene	0.50	< 0.50			
Carbon tetrachloride	0.50	< 0.50			
Chlorobenzene	0.50	< 0.50			
Chloroethane	0.50	< 0.50			
Chloroform	0.50	< 0.50			
Chloromethane	0.50	< 0.50			
2-Chlorotoluene	0.50	< 0.50			
4-Chlorotoluene	0.50	< 0.50			
Dibromochloromethane	0.50	< 0.50			
1,2-Dibromo-3-chloropropane	0.50	< 0.50			
1,2-Dibromoethane	0.50	< 0.50			
Dibromomethane	0.50	< 0.50			
1,2-Dichlorobenzene	0.50	< 0.50			
1,3-Dichlorobenzene	0.50	< 0.50			
1,4-Dichlorobenzene	0.50	< 0.50			
Dichlorodifluoromethane	0.50	< 0.50			
1,1-Dichloroethane (1,1-DCA)	0.50	< 0.50			
1,2-Dichloroethane (1,2-DCA)	0.50	< 0.50			
1,1-Dichloroethene (1,1-DCE)	0.50	< 0.50			
cis-1,2-Dichloroethene	0.50	< 0.50			
trans-1,2-Dichloroethene	0.50	< 0.50			
1,2-Dichloropropane	0.50	< 0.50			

PROJECT NO: WSCP Sampling

ANALYTICAL RESULT FOR ORGANICS (cont'd)

METHOD: **EPA 502.2** **REPORTING UNIT:** **µg/L**

	LAB SAMPLE ID	GF00014			
	CLIENT SAMPLE ID	Trip Blank-6-2-97			
COMPOUND	**CRDL**				
1,3-Dichloropropane	0.50	< 0.50			
2,2-Dichloropropane	0.50	< 0.50			
1,1-Dichloropropene	0.50	< 0.50			
cis-1,3-Dichloropropene	0.50	< 0.50			
trans-1,3-Dichloropropene	0.50	< 0.50			
Ethylbenzene	0.50	< 0.50			
Hexachlorobutadiene	0.50	< 0.50			
Isopropylbenzene	0.50	< 0.50			
p-Isopropyltoluene	0.50	< 0.50			
Methylene chloride	1.0	**1.7**			
Naphthalene	0.50	< 0.50			
n-Propylbenzene	0.50	< 0.50			
Styrene	0.50	< 0.50			
1,1,1,2-Tetrachloroethane	0.50	< 0.50			
1,1,2,2-Tetrachloroethane	0.50	< 0.50			
Tetrachloroethene (PCE)	0.50	< 0.50			
Toluene	0.50	< 0.50			
1,2,3-Trichlorobenzene	0.50	< 0.50			
1,2,4-Trichlorobenzene	0.50	< 0.50			
1,1,1-Trichloroethane (1,1,1-TCA)	0.50	< 0.50			
1,1,2-Trichloroethane (1,1,2-TCA)	0.50	< 0.50			
Trichloroethene (TCE)	0.50	< 0.50			
Trichlorofluoromethane	0.50	< 0.50			
1,2,3-Trichloropropane	0.50	< 0.50			
1,2,4-Trimethylbenzene	0.50	< 0.50			
1,3,5-Trimethylbenzene	0.50	< 0.50			
Vinyl chloride	0.50	< 0.50			
o-Xylene	0.50	< 0.50			
m,p-Xylenes	0.50	< 0.50			

SURROGATE	SPIKE CONC	ACCEPT LIMITS %	% RECOVERY	% RECOVERY	% RECOVERY	% RECOVERY
1-Chloro-3-fluorobenzene	10	80-120	103			
a,a,a-Trifluorotoluene	10	80-120	99			

Project Number: WSCP Sampling (RWQCB LabForm 10A; Ver12/94)

QA/QC REPORT

II. MATRIX SPIKE (MS) MATRIX SPIKE DUPLICATE (MSD)

Date Performed: 06/04/97
Batch Number: GF04VO1W
Lab Sample I.D.: GE03457

Analytical Method: EPA 502.2
Reporting Unit: µg/L

Analyte	Sample Result	Spike Conc	MS	% MS	Spike Conc (Dup)	MSD	% MSD	RPD	MS/MSD % Limit	RPD Limit
Benzene	0	10	9.8	98	10	11	106	7.8	80-120	≤ 20
Chloroform	0	10	11	109	10	11	110	0.70	80-120	≤ 20
1,1-Dichloroethane	0	10	11	109	10	11	110	0.73	80-120	≤ 20
1,2-Dichloroethane	0	10	11	106	10	11	111	4.1	80-120	≤ 20
1,1-Dichloroethene	0	10	11	106	10	11	108	1.8	80-120	≤ 20
Tetrachloroethene	4.4	10	13	91	10	14	97	6.9	80-120	≤ 20
Toluene	0	10	9.6	96	10	10	105	8.2	80-120	≤ 20
Trichloroethene	0	10	10	102	10	10	104	2.1	80-120	≤ 20

III. LABORATORY QUALITY CONTROL CHECK SAMPLE (LCS)

Date Performed: 06/04/97
Supply Source: AccuStandard
Lot Number: DK-03047
Date of Source: 3/6/97

Analytical Method: EPA 502.2
Reporting Unit: µg/L
Lab LCS I.D.: LCS

Analyte	Spike Concentration	Result	% Recovery	Acceptance % Recovery Limit
Benzene	10	10	100	80-120
Chloroform	10	11	110	80-120
1,1-Dichloroethane	10	11	110	80-120
1,2-Dichloroethane	10	11	110	80-120
1,1-Dichloroethene	10	11	110	80-120
Tetrachloroethene	10	11	110	80-120
Toluene	10	10	100	80-120
Trichloroethene	10	11	110	80-120

Project Number: WSCP Sampling (RWQCB LabForm 10A; Ver12/94)

QA/QC REPORT

II. MATRIX SPIKE (MS) MATRIX SPIKE DUPLICATE (MSD)

Date Performed: 06/06/97
Batch Number: GF06VO1W
Lab Sample I.D.: GF00544

Analytical Method: EPA 502.2
Reporting Unit: µg/L

Analyte	Sample Result	Spike Conc	MS	% MS	Spike Conc (Dup)	MSD	% MSD	RPD	MS/MSD % Limit	RPD Limit
Benzene	0	20	20	98	20	20	98	0.55	80-120	≤ 20
Chloroform	0	20	23	116	20	23	113	2.7	80-120	≤ 20
1,1-Dichloroethane	0	20	23	116	20	22	111	4.8	80-120	≤ 20
1,2-Dichloroethane	0	20	21	105	20	22	108	2.7	80-120	≤ 20
1,1-Dichloroethene	0	20	23	113	20	22	109	4.1	80-120	≤ 20
Tetrachloroethene	0	20	23	116	20	22	110	5.9	80-120	≤ 20
Toluene	0	20	19	97	20	20	99	1.6	80-120	≤ 20
Trichloroethene	0	20	22	109	20	21	105	3.6	80-120	≤ 20

III. LABORATORY QUALITY CONTROL CHECK SAMPLE (LCS)

Date Performed: 06/06/97
Supply Source: AccuStandard
Lot Number: DK-03047
Date of Source: 3/6/97

Analytical Method: EPA 502.2
Reporting Unit: µg/L
Lab LCS I.D.: LCS

Analyte	Spike Concentration	Result	% Recovery	Acceptance % Recovery Limit
Benzene	10	11	110	80-120
Chloroform	10	12	120	80-120
1,1-Dichloroethane	10	12	120	80-120
1,2-Dichloroethane	10	11	110	80-120
1,1-Dichloroethene	10	11	110	80-120
Tetrachloroethene	10	12	120	80-120
Toluene	10	10	100	80-120
Trichloroethene	10	11	110	80-120

Sample File : H:\DATA\GC23A\PC9703.SMP
Created by : on : 1/25/95 12:46 PM
Edited by : on : 3/31/97 09:22 AM
Number Of Times Edited : 137

Sample Description :

Default Injection Volume : 1.0000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct Amounts During Calibration : YES
Reject Outliers During Calibration : NO
An Internal Standard Calibration Will Be Used
Unknown Peaks Will Be Quantitated Using A Response Factor of 1000000.000000

Component Information :

CIS-1,2-DCE

Component Type : Single Peak Component
Retention Time : 12.522 min Search Window: 1.40 s, 1.40 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	12140.00	1613.54	0.07500	0.10000	1
2	10.0000	25380.00	3355.84	0.14227	0.20000	1
3	50.0000	119231.00	15730.76	0.68412	1.00000	1
4	100.0000	233572.50	30839.05	1.38415	2.00000	1
5	150.0000	352316.00	46015.24	2.01571	3.00000	1

Calibration Curve : y = (0.008046) + (0.675076)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999691

BENZENE

Component Type : Single Peak Component
Retention Time : 17.435 min Search Window: 1.00 s, 1.00 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	30255.00	4666.56	0.18692	0.10000	1
2	10.0000	62808.00	9703.70	0.35208	0.20000	1
3	50.0000	281337.50	44708.34	1.61424	1.00000	1
4	100.0000	554106.00	88212.69	3.28363	2.00000	1
5	150.0000	825915.00	132093.64	4.72532	3.00000	1

Calibration Curve : y = (0.030608) + (1.583896)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999385

FB

Component Type : Single Peak Component
Retention Time : 18.337 min Search Window: 1.00 s, 1.00 %
Reference Component:
Find Largest Peak in Window

Internal Standard :
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	50.0000	161858.50	24535.50	1.00000	1.00000	1
2	50.0000	178390.00	27054.12	1.00000	1.00000	1
3	50.0000	174285.00	26506.14	1.00000	1.00000	1
4	50.0000	168748.00	25884.98	1.00000	1.00000	1
5	50.0000	174785.00	26477.79	1.00000	1.00000	1

Calibration Curve : y = (0.000000) + (1.000000)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.000000

TCE.
Component Type : Single Peak Component
Retention Time : 19.869 min Search Window: 0.90 s, 0.90 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	15510.00	2955.07	0.09582	0.10000	1
2	10.0000	33857.00	6238.71	0.18979	0.20000	1
3	50.0000	156885.00	29463.90	0.90016	1.00000	1
4	100.0000	308353.00	58427.79	1.82730	2.00000	1
5	150.0000	462201.00	87985.71	2.64440	3.00000	1

Calibration Curve : y = (0.011520) + (0.887040)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999540

AAA-TFT
Component Type : Single Peak Component
Retention Time : 20.810 min Search Window: 0.90 s, 0.90 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	50.0000	77057.00	16609.35	0.47608	1.00000	1
2	50.0000	89538.00	19111.89	0.50192	1.00000	1
3	50.0000	87125.00	18568.28	0.49990	1.00000	1
4	50.0000	85669.00	18284.56	0.50767	1.00000	1
5	50.0000	88701.00	18315.23	0.50749	1.00000	1

Calibration Curve : y = (0.000000) + (0.498612)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.996722

TOLUENE
Component Type : Single Peak Component
Retention Time : 23.186 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit

Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	32340.50	8883.99	0.19981	0.10000	1
2	10.0000	62731.00	18751.57	0.35165	0.20000	1
3	50.0000	265308.00	87184.58	1.52227	1.00000	1
4	100.0000	515264.85	167577.16	3.05346	2.00000	1
5	150.0000	760981.00	253346.64	4.35381	3.00000	1

Calibration Curve : y = (0.051291) + (1.456071)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999026

CFB
Component Type : Single Peak Component
Retention Time : 24.789 min Search Window: 0.80 s, 0.50 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	50.0000	151608.00	61087.80	0.93667	1.00000	1
2	50.0000	174644.00	70081.51	0.97900	1.00000	1
3	50.0000	170214.00	68994.30	0.97664	1.00000	1
4	50.0000	165478.00	64838.78	0.98062	1.00000	1
5	50.0000	168221.00	66692.00	0.96245	1.00000	1

Calibration Curve : y = (0.000000) + (0.967076)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998254

CHLOROBENZENE
Component Type : Single Peak Component
Retention Time : 25.215 min Search Window: 0.30 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	26853.50	10548.19	0.16591	0.10000	1
2	10.0000	58271.00	23448.14	0.32665	0.20000	1
3	50.0000	269021.00	109346.64	1.54357	1.00000	1
4	100.0000	523474.00	220104.59	3.10210	2.00000	1
5	150.0000	778703.00	323623.81	4.45520	3.00000	1

Calibration Curve : y = (0.028184) + (1.495926)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999295

ETHYLBENZENE
Component Type : Single Peak Component
Retention Time : 25.513 min Search Window: 0.30 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression

Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	23653.00	9320.10	0.14613	0.10000	1
2	10.0000	50980.00	20159.51	0.28578	0.20000	1
3	50.0000	232877.50	94161.75	1.33619	1.00000	1
4	100.0000	453812.00	191000.64	2.68929	2.00000	1
5	150.0000	673725.50	283857.89	3.85460	3.00000	1

Calibration Curve : y = (0.026370) + (1.294248)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999234

M,P-XYLENES
Component Type : Single Peak Component
Retention Time : 25.764 min Search Window: 0.20 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	53139.00	19032.31	0.32831	0.20000	1
2	20.0000	117998.00	42705.93	0.66146	0.40000	1
3	100.0000	539546.00	197938.05	3.09577	2.00000	1
4	200.0000	1039539.00	393700.80	6.16030	4.00000	1
5	300.0000	1538340.50	576019.55	8.80133	6.00000	1

Calibration Curve : y = (0.069584) + (1.478545)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999053

STYRENE
Component Type : Single Peak Component
Retention Time : 26.138 min Search Window: 0.20 s, 0.17 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	31190.92	13128.62	0.19270	0.10000	1
2	10.0000	63513.37	28698.24	0.35604	0.20000	1
3	50.0000	293621.62	134656.92	1.68472	1.00000	1
4	100.0000	570847.11	242866.00	3.38284	2.00000	1
5	150.0000	842388.75	371635.03	4.81957	3.00000	1

Calibration Curve : y = (0.038704) + (1.619626)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999007

O-XYLENE
Component Type : Single Peak Component
Retention Time : 26.218 min Search Window: 0.70 s, 0.15 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	22986.08	9954.65	0.14201	0.10000	1
2	10.0000	51812.63	21769.21	0.29045	0.20000	1
3	50.0000	235058.88	101325.22	1.34870	1.00000	1
4	100.0000	449557.89	191480.79	2.66408	2.00000	1
5	150.0000	667711.25	277052.31	3.82019	3.00000	1

Calibration Curve : y = (0.031564) + (1.281911)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999138

ISOPROPYLBENZENE
Component Type : Single Peak Component
Retention Time : 26.638 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	19451.00	8023.05	0.12017	0.10000	1
2	10.0000	42259.00	17978.40	0.23689	0.20000	1
3	50.0000	194959.50	83817.81	1.11862	1.00000	1
4	100.0000	379096.00	154388.64	2.24652	2.00000	1
5	150.0000	562278.50	235294.80	3.21697	3.00000	1

Calibration Curve : y = (0.021678) + (1.080812)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999190

BROMOBENZENE
Component Type : Single Peak Component
Retention Time : 26.865 min Search Window: 0.30 s, 0.25 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	27508.00	11893.45	0.16995	0.10000	1
2	10.0000	59498.00	25126.34	0.33353	0.20000	1
3	50.0000	275857.00	119842.66	1.58279	1.00000	1
4	100.0000	529005.00	242511.21	3.13488	2.00000	1
5	150.0000	786552.00	353678.81	4.50011	3.00000	1

Calibration Curve : y = (0.034370) + (1.510325)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999204

n-PROPYLBENZENE
Component Type : Single Peak Component
Retention Time : 27.118 min Search Window: 0.20 s, 0.22 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	20311.67	8925.58	0.12549	0.10000	1

2	10.0000	48659.26	20206.82	0.27277	0.20000	1
3	50.0000	220509.47	92801.40	1.26522	1.00000	1
4	100.0000	430551.95	183329.02	2.55145	2.00000	1
5	150.0000	631518.82	263613.23	3.61312	3.00000	1

Calibration Curve : y = (0.025874) + (1.217905)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998722

2-CL-TOLUENE
Component Type : Single Peak Component
Retention Time : 27.198 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	23346.90	9933.37	0.14424	0.10000	1
2	10.0000	52877.10	22740.41	0.29641	0.20000	1
3	50.0000	240540.87	105541.18	1.38016	1.00000	1
4	100.0000	456640.25	209864.30	2.70605	2.00000	1
5	150.0000	679326.38	306086.41	3.88664	3.00000	1

Calibration Curve : y = (0.033550) + (1.303524)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999133

4-CLOROTOLUENE
Component Type : Single Peak Component
Retention Time : 27.284 min Search Window: 0.15 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	24592.43	10778.32	0.15194	0.10000	1
2	10.0000	57519.14	23960.47	0.32243	0.20000	1
3	50.0000	254763.16	110187.55	1.46176	1.00000	1
4	100.0000	478194.80	222437.98	2.83378	2.00000	1
5	150.0000	711242.80	318682.61	4.06924	3.00000	1

Calibration Curve : y = (0.041801) + (1.363230)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998996

1,3,5-TRIMETHYLBENZE
Component Type : Single Peak Component
Retention Time : 27.440 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	29020.50	13036.33	0.17930	0.10000	1
2	10.0000	69392.00	31824.60	0.38899	0.20000	1
3	50.0000	319180.00	146837.21	1.83137	1.00000	1
4	100.0000	610769.00	270454.46	3.61941	2.00000	1

5	150.0000	903969.00	410835.51	5.17189	3.00000	1

Calibration Curve : y = (0.038980) + (1.739219)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998975

t-BUTYLBENZENE
Component Type : Single Peak Component
Retention Time : 27.715 min Search Window: 0.15 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	18223.22	7138.19	0.11259	0.10000	1
2	10.0000	39759.11	16123.89	0.22288	0.20000	1
3	50.0000	179533.00	75082.56	1.03011	1.00000	1
4	100.0000	347185.50	148594.04	2.05742	2.00000	1
5	150.0000	513168.50	216421.27	2.93600	3.00000	1

Calibration Curve : y = (0.024402) + (0.986125)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999037

1,2,4-TRIMETHYLBENZE
Component Type : Single Peak Component
Retention Time : 27.834 min Search Window: 0.20 s, 0.15 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	22929.90	10535.55	0.14167	0.10000	1
2	10.0000	53277.05	22832.76	0.29865	0.20000	1
3	50.0000	242784.81	106237.67	1.39303	1.00000	1
4	100.0000	458880.46	209595.78	2.71932	2.00000	1
5	150.0000	676328.67	298233.04	3.86949	3.00000	1

Calibration Curve : y = (0.037950) + (1.300709)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998693

sec-BUTYLBENZENE
Component Type : Single Peak Component
Retention Time : 27.936 min Search Window: 0.20 s, 0.15 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	16955.22	7675.90	0.10475	0.10000	1
2	10.0000	41119.26	16942.39	0.23050	0.20000	1
3	50.0000	189176.67	78028.60	1.08544	1.00000	1
4	100.0000	374614.36	151067.77	2.21996	2.00000	1
5	150.0000	543616.85	221051.02	3.11020	3.00000	1

Calibration Curve : y = (0.020188) + (1.052340)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998238

1,3-DCBE
Component Type : Single Peak Component
Retention Time : 27.995 min Search Window: 0.20 s, 0.15 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	23105.65	9229.73	0.14275	0.10000	1
2	10.0000	51614.32	24386.11	0.28933	0.20000	1
3	50.0000	239528.85	114529.08	1.37435	1.00000	1
4	100.0000	446592.54	215124.69	2.64651	2.00000	1
5	150.0000	666298.15	319032.32	3.81210	3.00000	1

Calibration Curve : y = (0.036231) + (1.277406)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999036

1,4-DCBE
Component Type : Single Peak Component
Retention Time : 28.066 min Search Window: 0.15 s, 0.15 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	19786.12	9780.44	0.12224	0.10000	1
2	10.0000	50720.37	22625.68	0.28432	0.20000	1
3	50.0000	237095.04	107265.52	1.36039	1.00000	1
4	100.0000	448073.17	209169.52	2.65528	2.00000	1
5	150.0000	656670.96	297850.04	3.75702	3.00000	1

Calibration Curve : y = (0.032472) + (1.267368)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998340

p-ISOPROPYLTOLUENE
Component Type : Single Peak Component
Retention Time : 28.130 min Search Window: 0.20 s, 0.15 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	18810.88	7280.76	0.11622	0.10000	1
2	10.0000	40479.89	18206.89	0.22692	0.20000	1
3	50.0000	183831.63	84098.41	1.05478	1.00000	1
4	100.0000	343923.50	160188.53	2.03809	2.00000	1
5	150.0000	513028.37	235004.73	2.93520	3.00000	1

Calibration Curve : y = (0.030396) + (0.982353)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999098

1,2-DCBE

Component Type : Single Peak Component
Retention Time : 28.431 min Search Window: 0.40 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	18971.50	8063.53	0.11721	0.10000	1
2	10.0000	42543.11	18808.46	0.23848	0.20000	1
3	50.0000	194010.00	87274.68	1.11318	1.00000	1
4	100.0000	365730.00	167475.49	2.16731	2.00000	1
5	150.0000	539654.00	243199.50	3.08753	3.00000	1

Calibration Curve : y = (0.031795) + (1.036976)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998732

n-BUTYLBENZENE

Component Type : Single Peak Component
Retention Time : 28.552 min Search Window: 0.60 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	17576.00	7498.30	0.10859	0.10000	1
2	10.0000	45103.89	18286.61	0.25284	0.20000	1
3	50.0000	203311.00	83821.17	1.16654	1.00000	1
4	100.0000	380812.00	160960.99	2.25669	2.00000	1
5	150.0000	561045.00	233238.19	3.20992	3.00000	1

Calibration Curve : y = (0.032188) + (1.079595)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998497

1,2,4-TCBE

Component Type : Single Peak Component
Retention Time : 30.616 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	11506.79	3920.40	0.07109	0.10000	1
2	10.0000	30908.00	11058.74	0.17326	0.20000	1
3	50.0000	144191.00	51623.64	0.82733	1.00000	1
4	100.0000	257718.00	92661.29	1.52724	2.00000	1
5	150.0000	376714.00	134992.84	2.15530	3.00000	1

Calibration Curve : y = (0.030109) + (0.725963)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.996996

NAPHTHALENE

Component Type : Single Peak Component

Retention Time : 30.973 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	19608.87	6502.50	0.12115	0.10000	1
2	10.0000	40167.00	13572.90	0.22516	0.20000	1
3	50.0000	187582.97	64581.03	1.07630	1.00000	1
4	100.0000	349195.21	119682.18	2.06933	2.00000	1
5	150.0000	513846.79	176368.50	2.93988	3.00000	1

Calibration Curve : y = (0.035622) + (0.986998)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998460

CL6BUTADIENE
Component Type : Single Peak Component
Retention Time : 31.054 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	8673.63	2850.03	0.05359	0.10000	1
2	10.0000	24400.00	7667.89	0.13678	0.20000	1
3	50.0000	114858.53	35999.87	0.65903	1.00000	1
4	100.0000	208114.29	65315.21	1.23328	2.00000	1
5	150.0000	307059.71	96598.76	1.75679	3.00000	1

Calibration Curve : y = (0.018916) + (0.591423)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997834

1,2,3 TCBE
Component Type : Single Peak Component
Retention Time : 31.268 min Search Window: 0.60 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	13095.00	3976.34	0.08090	0.10000	1
2	10.0000	31214.00	10256.61	0.17498	0.20000	1
3	50.0000	147233.50	47670.88	0.84479	1.00000	1
4	100.0000	262182.00	85039.59	1.55369	2.00000	1
5	150.0000	378548.00	122633.88	2.16579	3.00000	1

Calibration Curve : y = (0.036304) + (0.730528)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.996162

Sample File : H:\DATA\GC23A\EC9703.SMP
Created by : on : 1/23/91 08:42 AM
Edited by : on : 3/28/97 05:57 PM
Number Of Times Edited : 836

Sample Description :

Default Injection Volume : 1.0000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct Amounts During Calibration : YES
Reject Outliers During Calibration : YES
Allowed Replicate Deviation : 20.00 %

An Internal Standard Calibration Will Be Used
Unknown Peaks Will Be Quantitated Using A Response Factor of 1000000.000000

Component Information :

DICHLORODIFLUOROMETH

Component Type : Single Peak Component
Retention Time : 3.729 min Search Window: 2.40 s, 2.40 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	4716.35	916.47	0.00887	0.05000	1
1	5.0000	16437.67	2900.12	0.03180	0.10000	1
2	10.0000	47826.22	8078.61	0.08122	0.20000	1
3	50.0000	285384.64	45437.84	0.48651	1.00000	1
4	100.0000	569305.24	90775.32	0.99861	2.00000	1
5	150.0000	851236.22	132708.91	1.52314	3.00000	1

Calibration Curve : y = (-0.015976) + (0.510548)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999790

CHLOROMETHANE

Component Type : Single Peak Component
Retention Time : 3.894 min Search Window: 2.50 s, 1.40 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	27332.65	6802.26	0.05140	0.05000	1
1	5.0000	75056.00	17545.40	0.14519	0.10000	1
2	10.0000	158549.24	34848.77	0.26924	0.20000	1
3	50.0000	733998.90	163040.20	1.25128	1.00000	1
4	100.0000	1396675.52	309489.33	2.44989	2.00000	1
5	150.0000	1966652.97	437540.99	3.51899	3.00000	1

Calibration Curve : y = (0.025169) + (1.182647)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999128

VINYL CHLORIDE

Component Type : Single Peak Component

Retention Time : 4.208 min Search Window: 2.00 s, 1.40 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	20869.00	5015.48	0.03925	0.05000	1
1	5.0000	51552.33	12214.84	0.09972	0.10000	1
2	10.0000	121727.53	26800.90	0.20671	0.20000	1
3	50.0000	598121.46	118289.98	1.01964	1.00000	1
4	100.0000	1187840.38	213903.39	2.08357	2.00000	1
5	150.0000	1733189.30	280185.64	3.10125	3.00000	1

Calibration Curve : y = (-0.005294) + (1.037355)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999945

BROMOMETHANE
Component Type : Single Peak Component
Retention Time : 4.819 min Search Window: 1.20 s, 2.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	6523.00	1464.24	0.01227	0.05000	1
1	5.0000	20880.12	4636.30	0.04039	0.10000	1
2	10.0000	56305.06	12532.19	0.09561	0.20000	1
3	50.0000	328576.21	72542.87	0.56014	1.00000	1
4	100.0000	680528.35	145624.18	1.19370	2.00000	1
5	150.0000	992294.03	209298.22	1.77554	3.00000	1

Calibration Curve : y = (-0.017430) + (0.598372)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999665

TRICHLOROFLUOROMETH
Component Type : Single Peak Component
Retention Time : 5.073 min Search Window: 2.00 s, 2.00 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	24460.50	5101.27	0.04600	0.05000	1
1	5.0000	60043.88	11987.58	0.11615	0.10000	1
2	10.0000	130548.94	25697.53	0.22169	0.20000	1
3	50.0000	637018.79	118542.60	1.08595	1.00000	1
4	100.0000	1241812.50	225738.84	2.17824	2.00000	1
5	150.0000	1800930.01	318473.41	3.22246	3.00000	1

Calibration Curve : y = (0.003970) + (1.077593)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999920

CHLOROETHANE
Component Type : Single Peak Component

Retention Time : 6.116 min Search Window: 1.20 s, 1.60 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	15134.50	1875.83	0.02846	0.05000	1
1	5.0000	45571.00	5088.82	0.08815	0.10000	1
2	10.0000	114018.00	12932.29	0.19362	0.20000	1
3	50.0000	653959.00	65667.99	1.11483	1.00000	1
4	100.0000	1341825.00	126149.62	2.35367	2.00000	1
5	150.0000	1835844.88	170793.38	3.28493	3.00000	1

Calibration Curve : y = (-0.010293) + (1.123737)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998057

1,1-DCE
Component Type : Single Peak Component
Retention Time : 7.247 min Search Window: 1.40 s, 2.00 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	36329.50	6443.91	0.06832	0.05000	1
1	5.0000	89797.00	15196.28	0.17370	0.10000	1
2	10.0000	198742.00	34171.19	0.33749	0.20000	1
3	50.0000	933912.00	155125.59	1.59208	1.00000	1
4	100.0000	1680488.50	274592.61	2.94772	2.00000	1
5	150.0000	2438696.00	385109.15	4.36363	3.00000	1

Calibration Curve : y = (0.034898) + (1.454909)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999163

MECL2
Component Type : Single Peak Component
Retention Time : 7.646 min Search Window: 2.00 s, 1.90 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	183218.00	31505.52	0.35442	0.10000	1
2	10.0000	321728.00	54949.62	0.54634	0.20000	1
3	50.0000	1212986.00	204988.31	2.06783	1.00000	1
4	100.0000	2056064.00	349183.48	3.60651	2.00000	1
5	150.0000	2984854.00	480395.68	5.34089	3.00000	1

Calibration Curve : y = (0.159063) + (1.739939)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997417

T-1,2-DCE
Component Type : Single Peak Component
Retention Time : 9.504 min Search Window: 2.00 s, 1.60 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	49067.00	8157.23	0.09228	0.05000	1
1	5.0000	110377.00	17827.72	0.21351	0.10000	1
2	10.0000	248414.00	39134.12	0.42184	0.20000	1
3	50.0000	1088983.00	164476.47	1.85644	1.00000	1
4	100.0000	1962444.00	288200.15	3.44229	2.00000	1
5	150.0000	2907485.00	423597.47	5.20245	3.00000	1

Calibration Curve : y = (0.042728) + (1.721217)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999399

1,1-DCA
Component Type : Single Peak Component
Retention Time : 10.311 min Search Window: 1.60 s, 1.60 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	42989.00	5922.84	0.08085	0.05000	1
1	5.0000	102152.00	13520.22	0.19760	0.10000	1
2	10.0000	233555.50	29984.39	0.39661	0.20000	1
3	50.0000	1023014.00	126766.15	1.74398	1.00000	1
4	100.0000	1846159.50	224180.47	3.23832	2.00000	1
5	150.0000	2736251.50	328950.34	4.89606	3.00000	1

Calibration Curve : y = (0.037492) + (1.620626)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999400

CIS-1,2-DCE
Component Type : Single Peak Component
Retention Time : 12.528 min Search Window: 1.00 s, 1.60 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	40957.00	5680.21	0.07703	0.05000	1
1	5.0000	95002.00	12671.71	0.18377	0.10000	1
2	10.0000	207566.50	27010.78	0.35248	0.20000	1
3	50.0000	936846.00	117074.07	1.59708	1.00000	1
4	100.0000	1689047.00	207089.60	2.96273	2.00000	1
5	150.0000	2544388.00	308914.78	4.55275	3.00000	1

Calibration Curve : y = (0.027315) + (1.501518)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999374

BROMOCHLOROMETHAN
Component Type : Single Peak Component
Retention Time : 13.103 min Search Window: 1.00 s, 1.20 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	27946.58	4077.48	0.05256	0.05000	1
1	5.0000	71189.02	10143.20	0.13771	0.10000	1
2	10.0000	154146.21	21459.14	0.26176	0.20000	1
3	50.0000	716710.06	97447.95	1.22181	1.00000	1
4	100.0000	1259973.33	170898.06	2.21010	2.00000	1
5	150.0000	1974410.53	262529.70	3.53287	3.00000	1

Calibration Curve : y = (0.011373) + (1.155464)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998238

CHLOROFORM
Component Type : Single Peak Component
Retention Time : 13.384 min Search Window: 1.00 s, 1.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	65580.00	8465.25	0.12333	0.05000	1
1	5.0000	145514.35	18368.61	0.28148	0.10000	1
2	10.0000	296430.55	37528.82	0.50338	0.20000	1
3	50.0000	1299075.80	159353.23	2.21459	1.00000	1
4	100.0000	2295076.00	277462.83	4.02576	2.00000	1
5	150.0000	3475975.41	414721.61	6.21967	3.00000	1

Calibration Curve : y = (0.057287) + (2.042081)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999007

2,2-DCP
Component Type : Single Peak Component
Retention Time : 13.614 min Search Window: 0.70 s, 1.30 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	32151.42	3600.26	0.06047	0.05000	1
1	5.0000	72334.64	7876.43	0.13992	0.10000	1
2	10.0000	185814.24	19360.46	0.31554	0.20000	1
3	50.0000	825569.14	84035.05	1.40738	1.00000	1
4	100.0000	1417512.67	143165.24	2.48644	2.00000	1
5	150.0000	2139106.07	215771.11	3.82757	3.00000	1

Calibration Curve : y = (0.031292) + (1.262721)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998391

1,2-DCA
Component Type : Single Peak Component
Retention Time : 15.756 min Search Window: 0.80 s, 1.10 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	43163.95	6890.86	0.08118	0.05000	1
1	5.0000	101332.30	15893.36	0.19602	0.10000	1
2	10.0000	202428.96	31549.95	0.34375	0.20000	1
3	50.0000	895951.17	135872.39	1.52737	1.00000	1
4	100.0000	1680127.90	249829.46	2.94709	2.00000	1
5	150.0000	2488290.83	366896.23	4.45238	3.00000	1

Calibration Curve : y = (0.028233) + (1.472464)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999804

1,1,1-TCA
Component Type : Single Peak Component
Retention Time : 16.036 min Search Window: 0.80 s, 1.00 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	54677.05	7181.05	0.10283	0.05000	1
1	5.0000	124915.70	15766.13	0.24164	0.10000	1
2	10.0000	258397.04	32299.94	0.43880	0.20000	1
3	50.0000	1140719.33	136266.15	1.94464	1.00000	1
4	100.0000	2155811.10	254690.85	3.78148	2.00000	1
5	150.0000	3155944.09	369390.39	5.64703	3.00000	1

Calibration Curve : y = (0.036789) + (1.873839)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999847

1,1-DICHLOROPROPENE
Component Type : Single Peak Component
Retention Time : 16.760 min Search Window: 0.70 s, 1.10 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	40022.50	6533.59	0.07527	0.05000	1
1	5.0000	89052.00	14165.61	0.17226	0.10000	1
2	10.0000	190230.00	29685.98	0.32304	0.20000	1
3	50.0000	845374.00	127594.97	1.44115	1.00000	1
4	100.0000	1610753.00	240834.50	2.82540	2.00000	1
5	150.0000	2355729.00	349326.56	4.21518	3.00000	1

Calibration Curve : y = (0.022927) + (1.400284)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999894

CARBON TETRACHLORIDE
Component Type : Single Peak Component
Retention Time : 17.232 min Search Window: 0.70 s, 1.00 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	61469.00	8858.75	0.11560	0.05000	1
1	5.0000	136613.50	19028.90	0.26427	0.10000	1
2	10.0000	283211.00	38778.73	0.48093	0.20000	1
3	50.0000	1234679.50	163591.15	2.10481	1.00000	1
4	100.0000	2336356.50	302913.47	4.09817	2.00000	1
5	150.0000	3431795.00	444188.48	6.14062	3.00000	1

Calibration Curve : y = (0.040460) + (2.034832)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999857

BR2CH2
Component Type : Single Peak Component
Retention Time : 19.519 min Search Window: 0.50 s, 0.55 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	12954.70	2374.55	0.02436	0.05000	1
1	5.0000	38654.00	6907.26	0.07477	0.10000	1
2	10.0000	86797.54	15432.58	0.14739	0.20000	1
3	50.0000	446874.65	76630.21	0.76181	1.00000	1
4	100.0000	903049.52	151931.86	1.58403	2.00000	1
5	150.0000	1313115.50	218445.89	2.34960	3.00000	1

Calibration Curve : y = (-0.008785) + (0.787946)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999853

1,2-DCP
Component Type : Single Peak Component
Retention Time : 19.711 min Search Window: 0.30 s, 0.55 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	42338.09	6951.40	0.07962	0.05000	1
1	5.0000	96306.01	15669.06	0.18630	0.10000	1
2	10.0000	195927.50	31739.53	0.33271	0.20000	1
3	50.0000	914036.18	140891.31	1.55820	1.00000	1
4	100.0000	1707993.77	260477.33	2.99597	2.00000	1
5	150.0000	2395287.17	375691.48	4.28596	3.00000	1

Calibration Curve : y = (0.042745) + (1.439298)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998837

TCE
Component Type : Single Peak Component
Retention Time : 19.880 min Search Window: 0.60 s, 0.50 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	63090.73	11411.66	0.11865	0.05000	1
1	5.0000	127896.17	22856.45	0.24740	0.10000	1
2	10.0000	275398.08	46777.44	0.46767	0.20000	1
3	50.0000	1150761.47	200972.24	1.96175	1.00000	1
4	100.0000	2139634.44	367745.17	3.75310	2.00000	1
5	150.0000	2989201.50	521124.20	5.34867	3.00000	1

Calibration Curve : y = (0.075522) + (1.790330)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998601

BROMODICHLOROMETHAN
Component Type : Single Peak Component
Retention Time : 20.007 min Search Window: 0.50 s, 0.50 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	41725.49	7979.01	0.07847	0.05000	1
1	5.0000	93315.32	17616.79	0.18051	0.10000	1
2	10.0000	184810.88	35743.74	0.31384	0.20000	1
3	50.0000	873346.71	159955.68	1.48883	1.00000	1
4	100.0000	1598775.27	297657.63	2.80439	2.00000	1
5	150.0000	2377037.83	420146.29	4.25331	3.00000	1

Calibration Curve : y = (0.026121) + (1.407323)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999656

2-CVE
Component Type : Single Peak Component
Retention Time : 21.432 min Search Window: 0.30 s, 0.60 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	10227.00	2577.78	0.01923	0.05000	1
1	5.0000	24935.00	6411.10	0.04823	0.10000	1
2	10.0000	59223.50	15014.48	0.10057	0.20000	1
3	50.0000	307409.50	76435.45	0.52405	1.00000	1
4	100.0000	577364.00	144039.06	1.01275	2.00000	1
5	150.0000	817703.00	202447.64	1.46314	3.00000	1

Calibration Curve : y = (0.005015) + (0.493366)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999127

C-1,3-DCP
Component Type : Single Peak Component
Retention Time : 21.890 min Search Window: 0.80 s, 0.60 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	37303.50	10180.62	0.07016	0.05000	1
1	5.0000	82124.00	22263.31	0.15886	0.10000	1
2	10.0000	179025.50	47429.05	0.30401	0.20000	1
3	50.0000	815552.00	211691.46	1.39031	1.00000	1
4	100.0000	1477296.50	385983.68	2.59130	2.00000	1
5	150.0000	2049053.50	520978.97	3.66644	3.00000	1

Calibration Curve : y = (0.049474) + (1.233820)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997749

T-1,3-DCP
Component Type : Single Peak Component
Retention Time : 22.700 min Search Window: 0.50 s, 0.50 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	34532.66	10417.37	0.06494	0.05000	1
1	5.0000	72515.07	21988.18	0.14027	0.10000	1
2	10.0000	162902.57	49376.03	0.27663	0.20000	1
3	50.0000	735182.07	221077.98	1.25330	1.00000	1
4	100.0000	1307409.71	390847.21	2.29331	2.00000	1
5	150.0000	1823603.53	528846.63	3.26303	3.00000	1

Calibration Curve : y = (0.047522) + (1.095879)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997572

1,1,2-TCA
Component Type : Single Peak Component
Retention Time : 22.930 min Search Window: 0.50 s, 0.50 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	47354.34	13725.59	0.08906	0.05000	1
1	5.0000	102321.93	29685.91	0.19793	0.10000	1
2	10.0000	205978.43	60012.37	0.34978	0.20000	1
3	50.0000	909834.31	260652.81	1.55104	1.00000	1
4	100.0000	1618122.79	467133.87	2.83832	2.00000	1
5	150.0000	2272967.65	643666.28	4.06709	3.00000	1

Calibration Curve : y = (0.065646) + (1.359638)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997974

1CL2BRPRPN
Component Type : Single Peak Component
Retention Time : 23.190 min Search Window: 0.40 s, 0.40 %

Reference Component:
Find Largest Peak in Window
Internal Standard :
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	50.0000	531724.64	145331.07	1.00000	1.00000	1
1	50.0000	516954.17	140684.34	1.00000	1.00000	1
2	50.0000	588878.33	159624.20	1.00000	1.00000	1
3	50.0000	586598.07	159619.22	1.00000	1.00000	1
4	50.0000	570097.83	153376.14	1.00000	1.00000	1
5	50.0000	558868.03	151379.96	1.00000	1.00000	1

Calibration Curve : y = (0.000000) + (1.000000)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.000000

1,3-DCP
Component Type : Single Peak Component
Retention Time : 23.392 min Search Window: 0.60 s, 0.40 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	50891.86	14083.48	0.09571	0.05000	1
1	5.0000	92856.83	27157.76	0.17962	0.10000	1
2	10.0000	184261.67	54596.23	0.31290	0.20000	1
3	50.0000	755014.56	226189.11	1.28711	1.00000	1
4	100.0000	1327132.67	403880.73	2.32790	2.00000	1
5	150.0000	1844782.28	554406.87	3.30093	3.00000	1

Calibration Curve : y = (0.073915) + (1.100278)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997219

DIBROMOCHLOROMETHAN
Component Type : Single Peak Component
Retention Time : 23.736 min Search Window: 0.50 s, 0.50 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	27348.00	8664.53	0.05143	0.05000	1
1	5.0000	58653.00	18899.35	0.11346	0.10000	1
2	10.0000	135074.00	42278.25	0.22938	0.20000	1
3	50.0000	601235.00	190274.98	1.02495	1.00000	1
4	100.0000	1120919.00	342988.87	1.96619	2.00000	1
5	150.0000	1527889.50	481347.06	2.73390	3.00000	1

Calibration Curve : y = (0.035353) + (0.924699)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997328

EDB
Component Type : Single Peak Component
Retention Time : 24.095 min Search Window: 0.50 s, 0.50 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	15043.50	4949.67	0.02829	0.05000	1
1	5.0000	35155.00	11536.96	0.06800	0.10000	1
2	10.0000	84778.00	28054.08	0.14397	0.20000	1
3	50.0000	380522.00	130185.91	0.64869	1.00000	1
4	100.0000	724802.00	243480.92	1.27136	2.00000	1
5	150.0000	989166.50	342065.76	1.76995	3.00000	1

Calibration Curve : y = (0.017435) + (0.599719)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997678

TETRACHLOROETHENE
Component Type : Single Peak Component
Retention Time : 24.370 min Search Window: 0.50 s, 0.50 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	70283.50	23672.38	0.13218	0.05000	1
1	5.0000	117777.00	39307.66	0.22783	0.10000	1
2	10.0000	269015.00	90968.22	0.45683	0.20000	1
3	50.0000	1101706.50	363551.51	1.87813	1.00000	1
4	100.0000	1921840.00	616097.29	3.37107	2.00000	1
5	150.0000	2672525.00	855118.60	4.78203	3.00000	1

Calibration Curve : y = (0.100598) + (1.597461)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.996924

CFB
Component Type : Single Peak Component
Retention Time : 24.870 min Search Window: 0.30 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	50.0000	341404.00	121572.53	0.64207	1.00000	1
1	50.0000	329504.00	116688.24	0.63739	1.00000	1
2	50.0000	389593.00	136413.88	0.66158	1.00000	1
3	50.0000	391929.00	135662.28	0.66814	1.00000	1
4	50.0000	365008.00	132190.54	0.64026	1.00000	1
5	50.0000	347289.00	130133.00	0.62142	1.00000	1

Calibration Curve : y = (0.000000) + (0.645143)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.995937

1,1,1,2-TCA
Component Type : Single Peak Component
Retention Time : 25.134 min Search Window: 0.50 s, 0.20 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	60910.00	20537.98	0.11455	0.05000	1
1	5.0000	124583.36	41713.92	0.24099	0.10000	1
2	10.0000	266009.00	89407.27	0.45172	0.20000	1
3	50.0000	1118404.78	360278.38	1.90659	1.00000	1
4	100.0000	1902612.29	645974.56	3.33734	2.00000	1
5	150.0000	2612410.67	878632.51	4.67447	3.00000	1

Calibration Curve : y = (0.110599) + (1.567163)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.995159

CHLOROBNZN
Component Type : Single Peak Component
Retention Time : 25.223 min Search Window: 0.30 s, 0.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	23079.00	8964.63	0.04340	0.05000	1
1	5.0000	47803.64	17451.72	0.09247	0.10000	1
2	10.0000	100908.00	39778.36	0.17136	0.20000	1
3	50.0000	458727.22	170568.19	0.78201	1.00000	1
4	100.0000	798344.71	293938.27	1.40036	2.00000	1
5	150.0000	1178791.33	405359.97	2.10925	3.00000	1

Calibration Curve : y = (0.024184) + (0.697570)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998777

BROMOFORM
Component Type : Single Peak Component
Retention Time : 25.836 min Search Window: 0.30 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	14581.00	5295.27	0.02742	0.05000	1
1	5.0000	36078.00	13159.13	0.06979	0.10000	1
2	10.0000	84433.00	30398.09	0.14338	0.20000	1
3	50.0000	417362.00	143402.96	0.71150	1.00000	1
4	100.0000	777853.00	268621.69	1.36442	2.00000	1
5	150.0000	1013711.00	374469.97	1.81386	3.00000	1

Calibration Curve : y = (0.024234) + (0.623737)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.993541

1,1,2,2-TCA
Component Type : Single Peak Component
Retention Time : 26.232 min Search Window: 0.30 s, 0.30 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	36795.90	13582.58	0.06920	0.05000	1
1	5.0000	75153.00	28241.45	0.14538	0.10000	1
2	10.0000	156888.09	59482.40	0.26642	0.20000	1
3	50.0000	663903.02	246034.09	1.13179	1.00000	1
4	100.0000	1119107.00	419294.76	1.96301	2.00000	1
5	150.0000	1574973.36	567260.52	2.81815	3.00000	1

Calibration Curve : y = (0.061942) + (0.938637)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.996298

1,2,3-TCP
Component Type : Single Peak Component
Retention Time : 26.389 min Search Window: 0.30 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	28809.10	10291.87	0.05418	0.05000	1
1	5.0000	59497.00	21081.37	0.11509	0.10000	1
2	10.0000	120917.91	44957.12	0.20534	0.20000	1
3	50.0000	520652.48	192773.82	0.88758	1.00000	1
4	100.0000	879197.00	339280.62	1.54219	2.00000	1
5	150.0000	1300181.64	480373.73	2.32646	3.00000	1

Calibration Curve : y = (0.038057) + (0.766052)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997953

BROMOBN
Component Type : Single Peak Component
Retention Time : 26.885 min Search Window: 0.30 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	11088.00	4030.74	0.02085	0.05000	1
1	5.0000	24359.50	8961.25	0.04712	0.10000	1
2	10.0000	62408.00	24320.58	0.10598	0.20000	1
3	50.0000	305149.00	116266.91	0.52020	1.00000	1
4	100.0000	550787.00	200333.60	0.96613	2.00000	1
5	150.0000	749817.00	289713.53	1.34167	3.00000	1

Calibration Curve : y = (0.015193) + (0.456000)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.996329

2-CHLOROTOLUENE
Component Type : Single Peak Component
Retention Time : 27.212 min Search Window: 0.15 s, 0.15 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	22428.03	9000.72	0.04218	0.05000	1
1	5.0000	37203.88	15076.27	0.07197	0.10000	1
2	10.0000	89155.12	36047.53	0.15140	0.20000	1
3	50.0000	393909.69	153919.64	0.67152	1.00000	1
4	100.0000	698543.13	273628.59	1.22530	2.00000	1
5	150.0000	976347.80	373259.18	1.74701	3.00000	1

Calibration Curve : y = (0.027205) + (0.585660)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997641

4-CHLOROTOLUENE
Component Type : Single Peak Component
Retention Time : 27.290 min Search Window: 1.10 s, 0.10 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	24348.97	9975.67	0.04579	0.05000	1
1	5.0000	37552.12	15021.48	0.07264	0.10000	1
2	10.0000	95458.76	37756.59	0.16210	0.20000	1
3	50.0000	404375.48	159747.20	0.68936	1.00000	1
4	100.0000	690918.67	265202.18	1.21193	2.00000	1
5	150.0000	995344.84	381789.02	1.78100	3.00000	1

Calibration Curve : y = (0.029702) + (0.591325)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997691

1,3-DCB
Component Type : Single Peak Component
Retention Time : 28.003 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	42734.00	17204.98	0.08037	0.05000	1
1	5.0000	58490.88	24507.37	0.11315	0.10000	1
2	10.0000	152776.24	57961.40	0.25944	0.20000	1
3	50.0000	661843.00	247938.08	1.12827	1.00000	1
4	100.0000	1049193.17	437099.46	1.84037	2.00000	1
5	150.0000	1625457.48	600503.77	2.90848	3.00000	1

Calibration Curve : y = (0.044495) + (0.947813)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.995683

1,4-DCB
Component Type : Single Peak Component
Retention Time : 28.074 min Search Window: 0.20 s, 0.20 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	45849.00	19096.89	0.08623	0.05000	1
1	5.0000	64265.12	26419.21	0.12431	0.10000	1
2	10.0000	144602.26	61548.86	0.24556	0.20000	1
3	50.0000	594035.00	250887.00	1.01268	1.00000	1
4	100.0000	1103969.33	426502.40	1.93646	2.00000	1
5	150.0000	1432048.52	602497.56	2.56241	3.00000	1

Calibration Curve : y = (0.062102) + (0.871327)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.993453

1,2-DCB
Component Type : Single Peak Component
Retention Time : 28.438 min Search Window: 0.20 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	41192.00	16387.50	0.07747	0.05000	1
1	5.0000	62326.00	25054.23	0.12056	0.10000	1
2	10.0000	145546.00	55357.23	0.24716	0.20000	1
3	50.0000	628006.00	234350.09	1.07059	1.00000	1
4	100.0000	1065272.00	412317.20	1.86858	2.00000	1
5	150.0000	1517449.00	564173.31	2.71522	3.00000	1

Calibration Curve : y = (0.052462) + (0.902731)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997146

1,2-DIBROMO-3-CHLOR
Component Type : Single Peak Component
Retention Time : 29.008 min Search Window: 0.20 s, 0.40 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	5954.00	2054.84	0.01120	0.05000	1
1	5.0000	13834.00	4890.88	0.02676	0.10000	1
2	10.0000	32104.00	11356.39	0.05452	0.20000	1
3	50.0000	167697.00	58982.81	0.28588	1.00000	1
4	100.0000	309948.00	109493.20	0.54368	2.00000	1
5	150.0000	433662.00	154705.42	0.77596	3.00000	1

Calibration Curve : y = (0.004637) + (0.262289)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998429

1,2,4-TCB
Component Type : Single Peak Component
Retention Time : 30.620 min Search Window: 0.30 s, 0.30 %

Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	64374.00	21576.69	0.12107	0.05000	1
1	5.0000	54595.00	18396.26	0.10561	0.10000	1
2	10.0000	159294.00	51043.17	0.27050	0.20000	1
3	50.0000	702164.00	219736.31	1.19701	1.00000	1
4	100.0000	1145168.21	359406.79	2.00872	2.00000	1
5	150.0000	1631442.00	502536.75	2.91919	3.00000	1

Calibration Curve : y = (0.066943) + (0.969056)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.995277

HEXACHLOROBUTADIENE
Component Type : Single Peak Component
Retention Time : 31.058 min Search Window: 0.30 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	98411.56	28419.30	0.18508	0.05000	1
1	5.0000	86602.63	24858.85	0.16752	0.10000	1
2	10.0000	239833.00	69118.27	0.40727	0.20000	1
3	50.0000	1007891.00	283832.62	1.71820	1.00000	1
4	100.0000	1683954.79	470026.78	2.95380	2.00000	1
5	150.0000	2390330.00	660607.13	4.27709	3.00000	1

Calibration Curve : y = (0.100791) + (1.417862)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.996260

1,2,3-TCB
Component Type : Single Peak Component
Retention Time : 31.273 min Search Window: 0.30 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	60732.94	18679.97	0.11422	0.05000	1
1	5.0000	59813.37	18263.69	0.11570	0.10000	1
2	10.0000	157462.50	47753.53	0.26739	0.20000	1
3	50.0000	680470.00	202122.68	1.16003	1.00000	1
4	100.0000	1121778.00	330101.16	1.96769	2.00000	1
5	150.0000	1559554.50	455798.08	2.79056	3.00000	1

Calibration Curve : y = (0.072182) + (0.930760)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.994592

Software Version: 3.3 <4B11>

Sample Name : MP1W 10PPB
Sample Number:
Operator :

Time : 6/5/97 10:08 AM
Study : 601/602-502.2

Instrument : OI-3/GC23A
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1000

Interface Serial # : 4088270921 Data Acquisition Time: 6/4/97 8:21 AM
Delay Time : 0.00 min.
End Time : 32.50 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC23A\R04I003.RAW
Result File : H:\DATA\GC23A\R04I003.RST
Instrument File: H:\DATA\GC23A\GC23A
Process File : H:\DATA\GC23A\PID-23A.prc
Sample File : H:\DATA\GC23A\PC9703A.smp
Sequence File : h:\data\gc23a\r04.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 1000.000000
Dilution Factor : 1.00

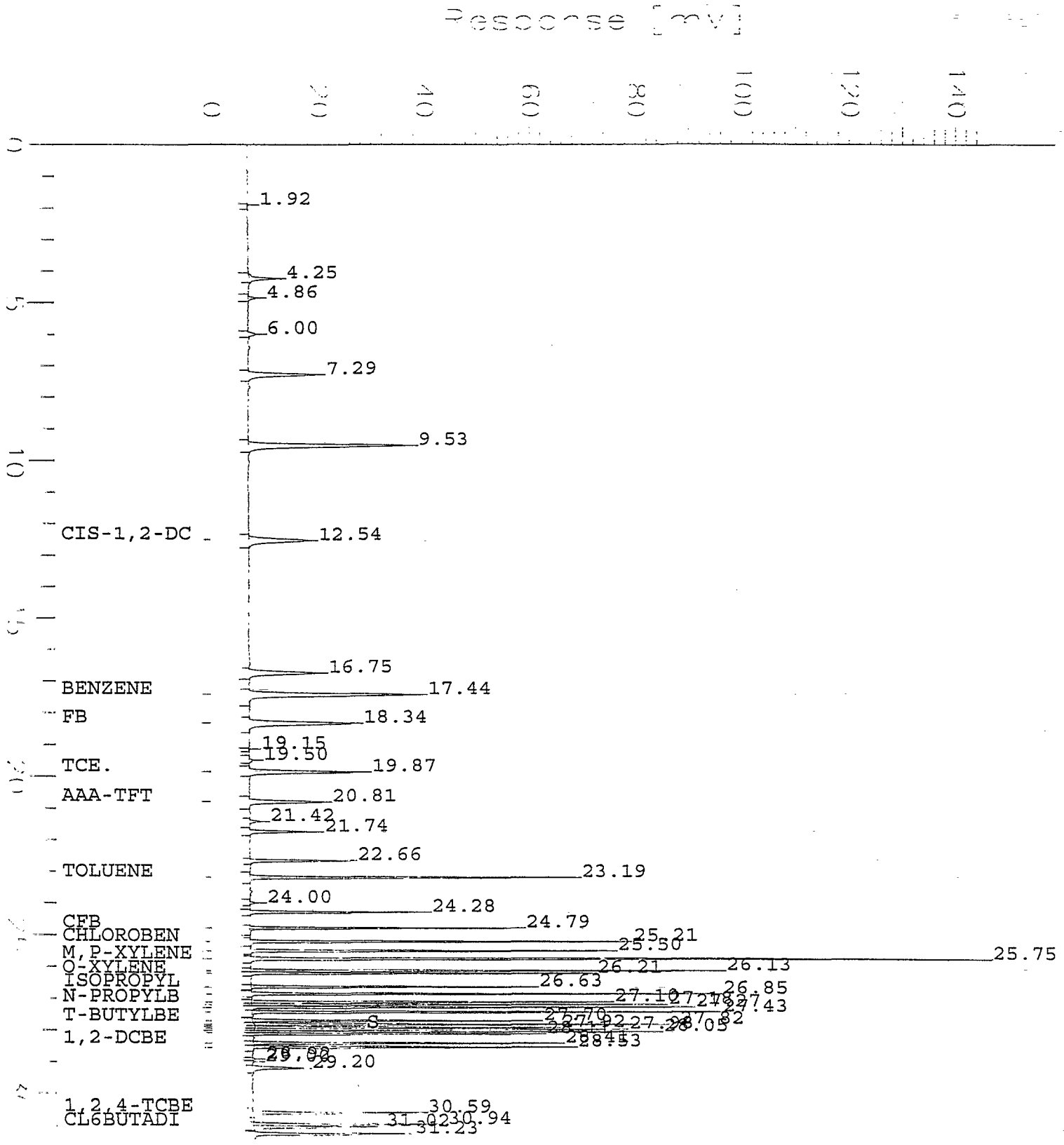
PID-GC#23A

Peak #	Component Name	Time [min]	Area [uV*sec]	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
7	CIS-1,2-DCE	12.540	83741.00	94	47.173	9.435	
9	BENZENE	17.435	199813.00	95	47.614	9.523	
10	FB	18.340	129841.00	0	0.000	0.000	
13	TCE.	19.867	109058.50	93	46.696	9.339	
14	AAA-TFT	20.808	64757.00	100	50.013	10.003	
18	TOLUENE	23.186	185539.00	95	47.308	9.462	
21	CFB	24.786	126259.50	101	50.276	10.055	
22	CHLOROBENZENE	25.209	188757.00	95	47.648	9.530	
23	ETHYLBENZENE	25.503	162692.50	95	47.388	9.478	
24	M,P-XYLENES	25.754	373769.00	190	94.995	18.999	
25	STYRENE	26.129	203150.70	94	47.107	9.421	
26	O-XYLENE	26.207	162810.80	95	47.677	9.535	
27	ISOPROPYLBENZENE	26.626	135447.00	95	47.256	9.451	
28	BROMOBENZENE	26.851	190401.50	95	47.409	9.482	
29	n-PROPYLBENZENE	27.103	160044.58	99	49.542	9.908	
30	2-CL-TOLUENE	27.183	166648.62	96	47.944	9.589	
31	4-CLOROTOLUENE	27.268	171528.80	94	46.920	9.384	
32	1,3,5-TRIMETHYLBE	27.425	221783.00	96	47.985	9.597	
33	t-BUTYLBENZENE	27.698	124073.00	94	47.214	9.443	
34	1,2,4-TRIMETHYLBE	27.817	163842.00	94	47.048	9.410	
35	sec-BUTYLBENZENE	27.919	138724.08	100	49.805	9.961	
36	1,3-DCBE	27.977	155273.74	91	45.391	9.078	
37	1,4-DCBE	28.049	161933.16	96	47.922	9.584	
38	p-ISOPROPYLTOLUEN	28.112	117509.53	89	44.517	8.903	
39	1,2-DCBE	28.413	130708.00	94	47.006	9.401	
40	n-BUTYLBENZENE	28.533	132413.00	91	45.740	9.148	
44	1,2,4-TCBE	30.585	87397.50	89	44.286	8.857	
45	NAPHTHALENE	30.940	111689.41	84	41.772	8.354	
46	CL6BUTADIENE	31.020	70163.59	88	44.086	8.817	
47	1,2,3 TCBE	31.234	86609.00	86	43.170	8.634	

AROMATICS

Sample Name : MP1W 10PPB
FileName : H:\DATA\GC23A\R04I003.raw
Method : GC23A
Start Time : 0.00 min End Time : 32.50 min
Scale Factor: 1.0 Plot Offset: -0 mV

Sample #: Page 1 o
Date : 6/5/97 10:08 AM
Time of Injection: 6/4/97 8:21 AM
Low Point : -0.37 mV High Point : 1
Plot Scale: 144.6 mV



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Software Version: 3.3 <4B11>

Sample Name : MP1W 10PPB Time : 6/5/97 7:03 AM

Sample Number: Study : 601/602-502.2

Operator :

Instrument : OI-3/GC23A Channel : B A/D mV Range : 1000

AutoSampler : NONE

Rack/Vial : 0/0

Interface Serial # : 4088270921 Data Acquisition Time: 6/4/97 8:21 AM

Delay Time : 0.00 min.

End Time : 32.50 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC23A\R04J003.RAW

Result File : H:\DATA\GC23A\R04J003.RST

Instrument File: H:\DATA\GC23A\GC23A

Process File : H:\DATA\GC23A\ELCD-23A.prc

Sample File : H:\DATA\GC23A\EC9703A.smp

Sequence File : h:\data\gc23a\r04.seq

Inj. Volume : 1 ul Area Reject : 1000.000000

Sample Amount : 1.0000 Dilution Factor : 1.00

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ELCD-GC#23A

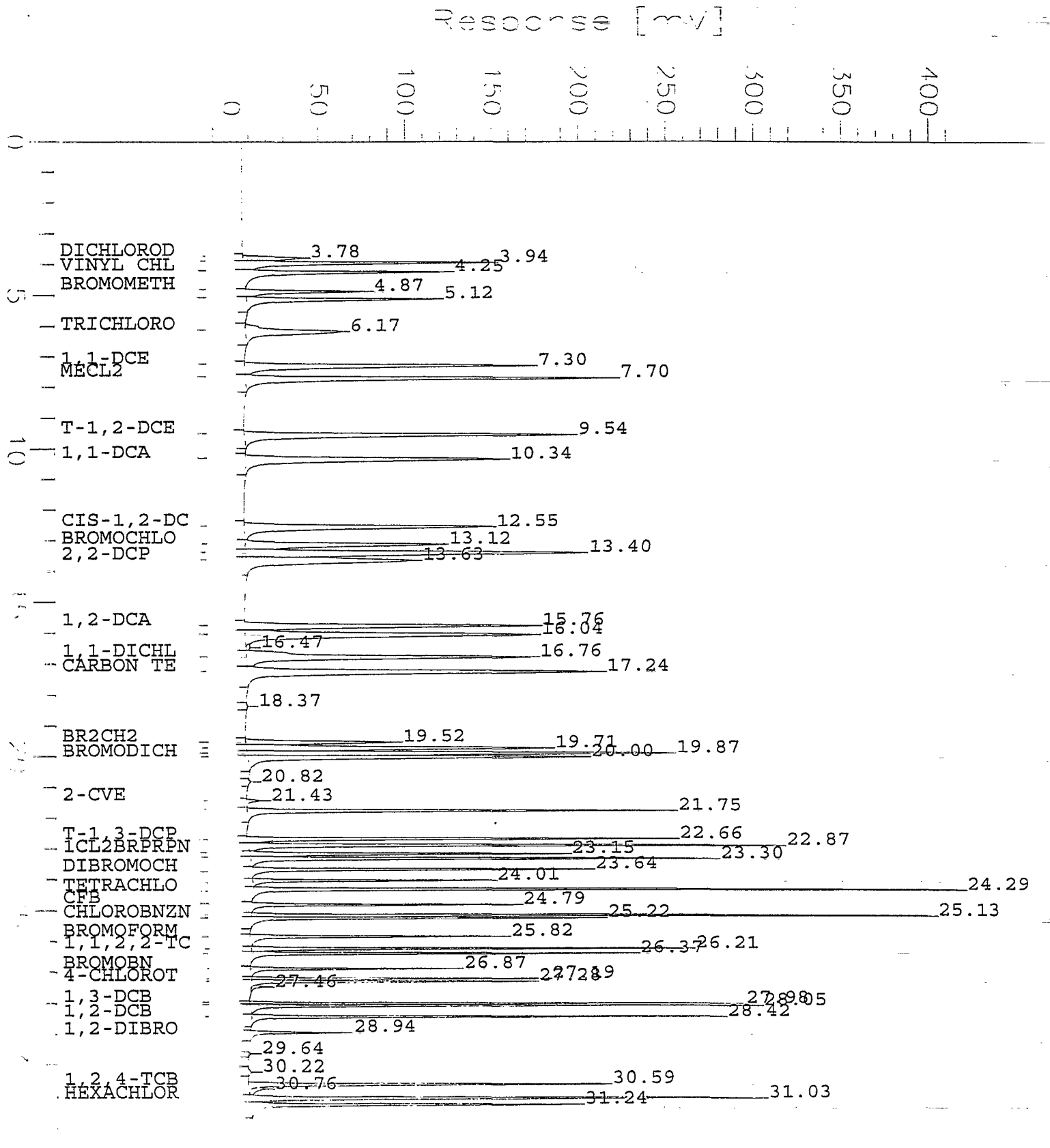
Peak #	Component Name	Time [min]	Area [uV*sec]	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
1	DICHLORODIFLUOROME	3.784	219004.57	62	31.228	6.246	
2	CHLOROMETHANE	3.941	780257.87	89	44.559	8.912	
3	VINYL CHLORIDE	4.250	641488.76	86	43.017	8.603	
4	BROMOMETHANE	4.872	358379.34	86	42.873	8.575	
5	CHLOROETHANE	5.124	636825.47	79	39.646	7.929	
6	TRICHLOROFLUOROMET	6.173	610860.00	78	39.016	7.803	
7	1,1-DCE	7.300	1116505.79	104	51.867	10.373	
8	MECL2	7.696	1430771.21	105	52.293	10.459	
9	T-1,2-DCE	9.542	1348086.00	106	52.919	10.584	
10	1,1-DCA	10.342	1272194.00	106	53.127	10.625	
11	CIS-1,2-DCE	12.550	1190049.20	108	53.897	10.779	
12	BROMOCHLOROMETHAN	13.122	871285.68	103	51.652	10.330	
13	CHLOROFORM	13.397	1593353.91	105	52.553	10.511	
14	2,2-DCP	13.633	1044352.21	112	55.953	11.191	
15	1,2-DCA	15.755	1143965.28	106	52.765	10.553	
16	1,1,1-TCA	16.043	1490085.77	108	54.007	10.801	
18	1,1-DICHLOROPROPEN	16.759	1379246.40	135	67.293	13.459	
19	CARBON TETRACHLORI	17.236	1651337.56	110	55.124	11.025	
21	BR2CH2	19.519	494399.21	88	43.946	8.789	
22	1,2-DCP	19.706	1161898.18	109	54.338	10.868	
23	TCE	19.874	1448674.91	108	53.845	10.769	
24	BROMODICHLOROMETHA	20.001	1120303.70	108	54.120	10.824	
26	2-CVE	21.432	37867.00	10	4.799	0.960	
27	C-1,3-DCP	21.750	1010996.50	109	54.658	10.932	
28	T-1,3-DCP	22.664	887873.71	108	53.857	10.771	
29	1,1,2-TCA	22.870	1152385.20	112	56.196	11.239	
30	1CL2BRPRPN	23.146	723056.49	0	0.000	0.000	
31	1,3-DCP	23.297	965753.59	115	57.337	11.467	
32	DIBROMOCHLOROMETHA	23.643	722860.00	104	52.145	10.429	
33	EDB	24.005	439333.00	98	49.204	9.841	
34	TETRACHLOROETHENE	24.289	1370446.00	112	56.175	11.235	
35	CFB	24.793	494234.00	106	52.975	10.595	
36	1,1,1,2-TCA	25.125	1317251.00	109	54.595	10.919	
37	CHLOROBNZN	25.215	608655.00	117	58.603	11.721	
38	BROMOFORM	25.815	472406.00	101	50.431	10.086	
39	1,1,2,2-TCA	26.209	794032.84	110	55.198	11.040	
40	1,2,3-TCP	26.368	662590.16	115	57.328	11.466	
41	BROMOBN	26.867	346896.00	102	50.940	10.188	
42	2-CHLOROTOLUENE	27.189	461293.45	104	52.144	10.429	

Peak #	Component Name	Time (min)	Area (uV*sec)	RA*2 %R)	Raw Amount	Adjusted Amount	Cal. Range
43	4-CHLOROTOLUENE	27.275	510763.05	114	57.218	11.444	
45	1,3-DCB	27.983	703447.62	98	48.975	9.795	
46	1,4-DCB	28.053	837750.38	126	62.923	12.585	
47	1,2-DCB	28.418	758743.50	110	55.215	11.043	
48	1,2-DIBROMO-3-CHLO	28.935	185003.00	96	47.891	9.578	
51	1,2,4-TCB	30.592	769432.36	103	51.452	10.290	
53	HEXACHLOROBUTADIEN	31.028	1170628.60	107	53.539	10.708	
54	1,2,3-TCB	31.241	798070.04	111	55.415	11.083	

Halogenated Volatile Organics

Sample Name : MP1W 10PPB
FileName : h:\data\gc23a\R04J003.raw
Method : GC23A
Start Time : 0.00 min End Time : 32.50 min
Scale Factor: 1.0 Plot Offset: -14 mV

Sample #: Page 1 o
Date : 6/5/97 7:03 AM
Time of Injection: 6/4/97 8:21 AM
Low Point : -14.16 mV High Point : 4
Plot Scale: 428.3 mV



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Software Version: 3.3 <4B11>

Sample Name : MP1W 10PPB Time : 6/7/97 9:47 AM

Sample Number: Study : 601/602-502.2

Operator :

Instrument : OI-3/GC23A Channel : A A/D mV Range : 1000

AutoSampler : NONE

Rack/Vial : 0/0

Interface Serial # : 4088270921 Data Acquisition Time: 6/6/97 7:31 AM

Delay Time : 0.00 min.

End Time : 32.50 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC23A\R06I001.RAW

Result File : H:\DATA\GC23A\R06I001.RST

Instrument File: H:\DATA\GC23A\GC23A

Process File : H:\DATA\GC23A\PID-23A.prc

Sample File : H:\DATA\GC23A\PC9703A.smp

Sequence File : h:\data\gc23a\r06.seq

Inj. Volume : 1 ul Area Reject : 1000.000000

Sample Amount : 1.0000 Dilution Factor : 1.00

==========

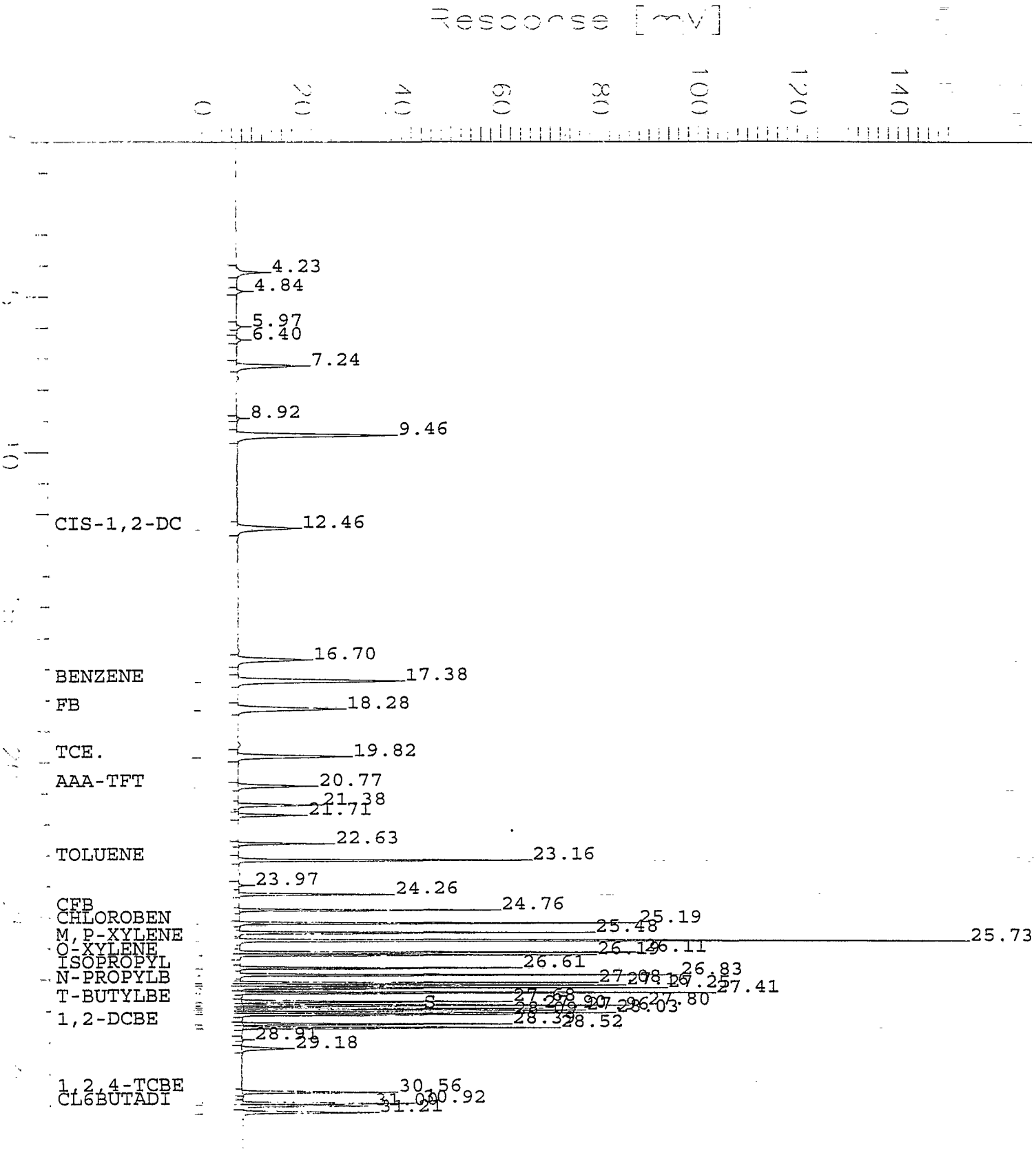
PID-GC#23A

Peak #	Component Name	Time [min]	Area [uV*sec]	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
8	CIS-1,2-DCE	12.461	83931.50	96	47.871	9.574	
10	BENZENE	17.378	197046.00	95	47.531	9.506	
11	FB	18.280	128262.00	0	0.000	0.000	
12	TCE.	19.817	111246.00	96	48.240	9.648	
13	AAA-TFT	20.767	65527.00	102	51.231	10.246	+
17	TOLUENE	23.158	186026.00	96	48.043	9.609	
20	CFB	24.764	126273.00	102	50.900	10.180	+
21	CHLOROBENZENE	25.186	187171.00	96	47.833	9.567	
22	ETHYLBENZENE	25.482	164621.00	97	48.565	9.713	
23	M,P-XYLENES	25.734	378723.00	195	97.499	19.500	
24	STYRENE	26.108	205383.79	96	48.239	9.648	
25	O-XYLENE	26.187	162164.71	96	48.083	9.617	
26	ISOPROPYLBENZENE	26.606	137676.00	97	48.654	9.731	
27	BROMOBENZENE	26.832	189057.50	95	47.659	9.532	
28	n-PROPYLBENZENE	27.084	154520.90	97	48.397	9.679	
29	2-CL-TOLUENE	27.164	170880.38	100	49.816	9.963	
30	4-CLOROTOLUENE	27.250	177947.73	99	49.352	9.870	
31	1,3,5-TRIMETHYLBE	27.406	223709.00	98	49.021	9.804	
32	t-BUTYLBENZENE	27.680	125126.50	96	48.227	9.645	
33	1,2,4-TRIMETHYLBE	27.799	165907.00	97	48.264	9.653	
34	sec-BUTYLBENZENE	27.901	125184.00	91	45.414	9.083	
35	1,3-DCBE	27.957	167071.00	99	49.567	9.913	
36	1,4-DCBE	28.031	156554.00	94	46.873	9.375	
37	p-ISOPROPYLTOLUEN	28.093	132401.00	102	50.994	10.199	
38	1,2-DCBE	28.393	129231.00	94	47.048	9.410	
39	n-BUTYLBENZENE	28.515	139249.00	98	48.790	9.758	
42	1,2,4-TCBE	30.561	86085.00	88	44.152	8.830	
43	NAPHTHALENE	30.916	97589.58	73	36.740	7.348	
44	CL6BUTADIENE	30.996	78991.42	101	50.467	10.093	
45	1,2,3 TCBE	31.209	85262.00	86	43.013	8.603	

AROMATICS

Sample Name : MP1W 10PPB
FileName : h:\data\gc23a\R06I001.raw
Method : GC23A
Start Time : 0.00 min End Time : 32.50 min
Scale Factor: 1.0 Plot Offset: -1 mV

Sample #: Page 1 o
Date : 6/7/97 9:47 AM
Time of Injection: 6/6/97 7:31 AM
Low Point : -0.59 mV High Point : 1
Plot Scale: 151.9 mV



Software Version: 3.3 <4B11>
Sample Name : MP1W 10PPB
Time : 6/7/97 9:47 AM
Sample Number:
Study : 601/602-502.2
Operator :

Instrument : OI-3/GC23A
Channel : B A/D mV Range : 1000
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : 4088270921 Data Acquisition Time: 6/6/97 7:31 AM
Delay Time : 0.00 min.
End Time : 32.50 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC23A\R06J001.RAW
Result File : H:\DATA\GC23A\R06J001.RST
Instrument File: H:\DATA\GC23A\GC23A
Process File : H:\DATA\GC23A\ELCD-23A.prc
Sample File : H:\DATA\GC23A\EC9703A.smp
Sequence File : h:\data\gc23a\r06.seq

Inj. Volume : 1 ul
Area Reject : 1000.000000
Sample Amount : 1.0000
Dilution Factor : 1.00

ELCD-GC#23A

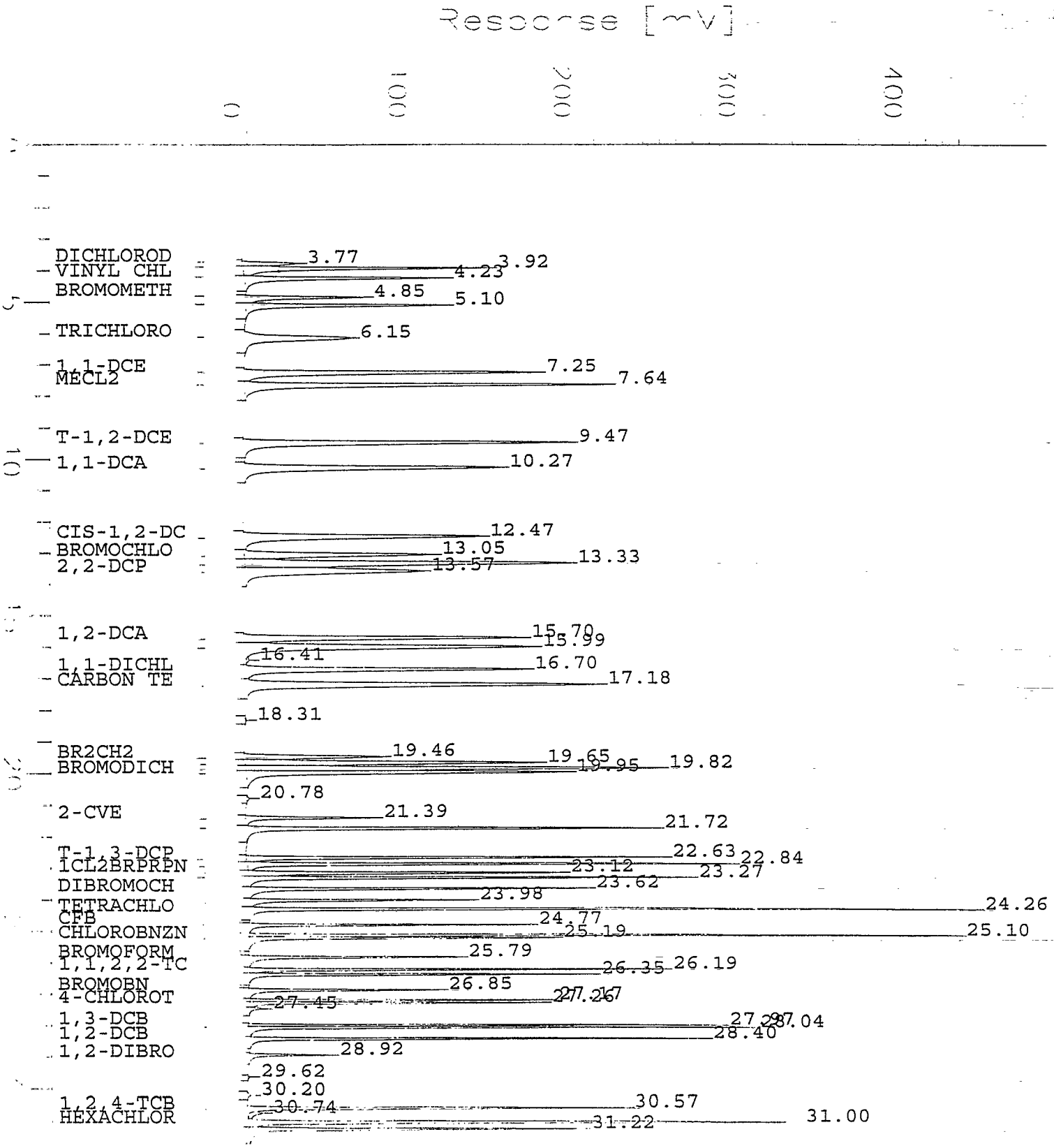
Peak #	Component Name	Time [min]	Area [uV*sec]	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
1	DICHLORODIFLUOROME	3.768	213860.00	58	29.241	5.848	
2	CHLOROMETHANE	3.924	779025.50	85	42.459	8.492	
3	VINYL CHLORIDE	4.232	633064.50	81	40.577	8.115	
4	BROMOMETHANE	4.848	373256.83	85	42.672	8.534	
5	CHLOROETHANE	5.099	671991.17	80	39.969	7.994	
6	TRICHLOROFLUOROMET	6.145	690366.50	84	42.146	8.429	
7	1,1-DCE	7.250	1167876.73	104	51.838	10.368	
8	MECL2	7.641	1479712.27	103	51.620	10.324	
9	T-1,2-DCE	9.472	1385064.00	104	51.927	10.385	
10	1,1-DCA	10.267	1297921.00	104	51.759	10.352	
11	CIS-1,2-DCE	12.470	1218298.34	105	52.700	10.540	
12	BROMOCHLOROMETHAN	13.048	872381.42	99	49.393	9.879	
13	CHLOROFORM	13.325	1662549.63	105	52.390	10.478	
14	2,2-DCP	13.566	1143467.62	117	58.594	11.719	
15	1,2-DCA	15.697	1146505.60	101	50.487	10.097	
16	1,1,1-TCA	15.985	1530356.90	106	52.980	10.596	
18	1,1-DICHLOROPROPEN	16.704	1146499.50	107	53.279	10.656	
19	CARBON TETRACHLORI	17.180	1659348.00	106	52.886	10.577	
21	BR2CH2	19.461	507227.67	86	43.091	8.618	
22	1,2-DCP	19.652	1141073.42	102	50.897	10.179	
23	TCE	19.823	1542529.52	110	54.818	10.964	
24	BROMODICHLOROMETHA	19.952	1121678.39	103	51.734	10.347	
26	2-CVE	21.386	337599.74	89	44.704	8.941	
27	C-1,3-DCP	21.715	1034095.76	107	53.372	10.674	
28	T-1,3-DCP	22.634	894456.87	104	51.760	10.352	
29	1,1,2-TCA	22.839	1121872.60	104	52.104	10.421	
30	1CL2BRPRPN	23.117	756743.20	0	0.000	0.000	
31	1,3-DCP	23.268	928897.33	105	52.422	10.484	
32	DIBROMOCHLOROMETHA	23.616	729054.00	100	50.182	10.036	
33	EDB	23.981	454165.14	97	48.583	9.717	
34	TETRACHLOROETHENE	24.264	1420827.86	111	55.618	11.124	
35	CFB	24.769	507204.00	104	51.946	10.389	
36	1,1,1,2-TCA	25.102	1278870.10	101	50.389	10.078	
37	CHLOROBNZN	25.192	640776.40	118	58.960	11.792	
38	BROMOFORM	25.793	451294.50	92	45.863	9.173	
39	1,1,2,2-TCA	26.188	747237.99	99	49.300	9.860	
40	1,2,3-TCP	26.349	607488.51	100	49.912	9.982	
41	BROMOBN	26.848	353519.00	99	49.558	9.912	
42	2-CHLOROTOLUENE	27.170	477023.91	103	51.494	10.299	

Peak #	Component Name	Time (min)	Area (uV*sec)	RA*2 %R)	Raw Amount	Adjusted Amount	Cal. Range
43	4-CHLOROTOLUENE	27.255	507669.83	108	54.214	10.843	
45	1,3-DCB	27.965	729220.54	97	48.487	9.697	
46	1,4-DCB	28.035	817861.46	117	58.455	11.691	
47	1,2-DCB	28.400	753634.50	105	52.254	10.451	
48	1,2-DIBROMO-3-CHLO	28.917	167849.50	83	41.399	8.280	
51	1,2,4-TCB	30.568	774843.16	99	49.377	9.875	
53	HEXACHLOROBUTADIEN	31.002	1267889.73	111	55.530	11.106	
54	1,2,3-TCB	31.216	787942.11	104	52.057	10.411	

Halogenated Volatile Organics

Sample Name : MP1W 10PPB
FileName : h:\data\gc23a\R06J001.raw
Method : GC23A
Start Time : 0.00 min End Time : 32.50 min
Scale Factor: 1.0 Plot Offset: -16 mV

Sample #:
Date : 6/7/97 9:47 AM
Time of Injection: 6/6/97 7:31 AM
Low Point : -15.69 mV High Point : 4
Plot Scale: 462.1 mV



Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

CRWQCB - L.A. REGION
WELL INVESTIGATION PROGRAM
QA/QC REPORT

PREPARED FOR HSI GEOTRANS
PROJECT: WSCP SAMPLING
SAMPLED: 6/3/97

ATTENTION: ROY MARROQUIN

Celebrating 10 years of service 1987-1997

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 1)

Laboratory Name: Del Mar Analytical

Address: 2852 Alton Avenue

Irvine, CA 92606

Telephone/FAX: (714) 261-1022 / (714) 261-1228

ELAP Certification No.: 1197 Expiration Date: May 31, 1998

Authorized Signature:
Name, Title (print) Debbie Ranck, Quality Assurance Officer

Signature, Date:

Client Name: HSI Geotrans

Project No.: WSCP Sampling

Date(s) Sampled: 6/3/97 To

Date(s) Received: 6/3/97 To

Date(s) Reported: 6/13/97 To

Chain of Custody received: Yes X No

Comments: The methylene chloride reported in the Trip Blank is most likely due to laboratory contamination.

(RWQCB LabForm; Ver 12/94)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

Organic Analyses	# of Samples	# of Samples Subcontracted
EPA 502.2	3	0

Sample Condition: Acceptable

Inorganic Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Microbiological Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Other Types of Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

PROJECT NO: WSCP Sampling (RWQCB LabForm 10A; Ver12/94)

ANALYTICAL RESULT FOR ORGANICS

METHOD: **EPA 502.2** **REPORTING UNIT:** **µg/L**

	DATE ANALYZED	6/6/97	6/6/97	6/6/97	6/6/97
	DATE EXTRACTED	6/6/97	6/6/97	6/6/97	6/6/97
	LAB SAMPLE ID	Method Blank	GF00184	GF00185	GF00186
	CLIENT SAMPLE ID	n/a	SCEOX-6-3-97	MUN-506-6-3-97	Trip Blank-6-3-97
	EXTRACTION SOLVENT	n/a	n/a	n/a	n/a
	EXTRACTION METHOD	502.2	502.2	502.2	502.2
	DILUTION FACTOR	1	1	1	1
COMPOUND	**CRDL**				
Benzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromochloromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromoform	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromomethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
n-Butylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
sec-Butylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
tert-Butylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbon tetrachloride	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroform	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorotoluene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorotoluene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibromochloromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dibromo-3-chloropropane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dibromoethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibromomethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorodifluoromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethane (1,1-DCA)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane (1,2-DCA)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethene (1,1-DCE)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	0.50	< 0.50	< 0.50	< 0.50	< 0.50

PROJECT NO: WSCP Sampling

ANALYTICAL RESULT FOR ORGANICS (cont'd)

METHOD: **EPA 502.2** **REPORTING UNIT:** **µg/L**

	LAB SAMPLE ID	Method Blank	GF00184	GF00185	GF00186
	CLIENT SAMPLE ID	n/a	SCEOX-6-3-97	MUN-506-6-3-97	Trip Blank-6-3-97
COMPOUND	**CRDL**				
1,3-Dichloropropane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,2-Dichloropropane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloropropene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Ethylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isopropylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
p-Isopropyltoluene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methylene chloride	1.0	< 1.0	< 1.0	< 1.0	**1.9**
Naphthalene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
n-Propylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Styrene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,1,2-Tetrachloroethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-Tetrachloroethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethene (PCE)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,1-Trichloroethane (1,1,1-TCA)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane (1,1,2-TCA)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene (TCE)	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichloropropane	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trimethylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	0.50	< 0.50	< 0.50	< 0.50	< 0.50
o-Xylene	0.50	< 0.50	< 0.50	< 0.50	< 0.50
m,p-Xylenes	0.50	< 0.50	< 0.50	< 0.50	< 0.50

SURROGATE	**SPIKE CONC**	**ACCEPT LIMITS %**	**% RECOVERY**	**% RECOVERY**	**% RECOVERY**	**% RECOVERY**
1-Chloro-3-fluorobenzene	10	80-120	105	103	102	102
a,a,a-Trifluorotoluene	10	80-120	97	100	96	100

Project Number: WSCP Sampling (RWQCB LabForm 10A; Ver12/94)

QA/QC REPORT

II. MATRIX SPIKE (MS) MATRIX SPIKE DUPLICATE (MSD)

Date Performed: 06/06/97
Batch Number: GF06VO1W
Lab Sample I.D.: GF00544

Analytical Method: EPA 502.2
Reporting Unit: µg/L

Analyte	Sample Result	Spike Conc	MS	% MS	Spike Conc (Dup)	MSD	% MSD	RPD	MS/MSD % Limit	RPD Limit
Benzene	0	20	20	98	20	20	98	0.55	80-120	≤ 20
Chloroform	0	20	23	116	20	23	113	2.7	80-120	≤ 20
1,1-Dichloroethane	0	20	23	116	20	22	111	4.8	80-120	≤ 20
1,2-Dichloroethane	0	20	21	105	20	22	108	2.7	80-120	≤ 20
1,1-Dichloroethene	0	20	23	113	20	22	109	4.1	80-120	≤ 20
Tetrachloroethene	0	20	23	116	20	22	110	5.9	80-120	≤ 20
Toluene	0	20	19	97	20	20	99	1.6	80-120	≤ 20
Trichloroethene	0	20	22	109	20	21	105	3.6	80-120	≤ 20

III. LABORATORY QUALITY CONTROL CHECK SAMPLE (LCS)

Date Performed: 06/06/97
Supply Source: AccuStandard
Lot Number: DK-03047
Date of Source: 3/6/97

Analytical Method: EPA 502.2
Reporting Unit: µg/L
Lab LCS I.D.: LCS

Analyte	Spike Concentration	Result	% Recovery	Acceptance % Recovery Limit
Benzene	10	11	110	80-120
Chloroform	10	12	120	80-120
1,1-Dichloroethane	10	12	120	80-120
1,2-Dichloroethane	10	11	110	80-120
1,1-Dichloroethene	10	11	110	80-120
Tetrachloroethene	10	12	120	80-120
Toluene	10	10	100	80-120
Trichloroethene	10	11	110	80-120

Sample File : H:\DATA\GC23A\PC9703.SMP
Created by : on : 1/25/95 12:46 PM
Edited by : on : 3/31/97 09:22 AM
Number Of Times Edited : 137

Sample Description :

Default Injection Volume : 1.0000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct Amounts During Calibration : YES
Reject Outliers During Calibration : NO
An Internal Standard Calibration Will Be Used
Unknown Peaks Will Be Quantitated Using A Response Factor of 1000000.000000

Component Information :

CIS-1,2-DCE

Component Type : Single Peak Component
Retention Time : 12.522 min Search Window: 1.40 s, 1.40 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	12140.00	1613.54	0.07500	0.10000	1
2	10.0000	25380.00	3355.84	0.14227	0.20000	1
3	50.0000	119231.00	15730.76	0.68412	1.00000	1
4	100.0000	233572.50	30839.05	1.38415	2.00000	1
5	150.0000	352316.00	46015.24	2.01571	3.00000	1

Calibration Curve : y = (0.008046) + (0.675076)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999691

BENZENE

Component Type : Single Peak Component
Retention Time : 17.435 min Search Window: 1.00 s, 1.00 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	30255.00	4666.56	0.18692	0.10000	1
2	10.0000	62808.00	9703.70	0.35208	0.20000	1
3	50.0000	281337.50	44708.34	1.61424	1.00000	1
4	100.0000	554106.00	88212.69	3.28363	2.00000	1
5	150.0000	825915.00	132093.64	4.72532	3.00000	1

Calibration Curve : y = (0.030608) + (1.583896)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999385

FB

Component Type : Single Peak Component
Retention Time : 18.337 min Search Window: 1.00 s, 1.00 %
Reference Component:
Find Largest Peak in Window

Internal Standard :
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	50.0000	161858.50	24535.50	1.00000	1.00000	1
2	50.0000	178390.00	27054.12	1.00000	1.00000	1
3	50.0000	174285.00	26506.14	1.00000	1.00000	1
4	50.0000	168748.00	25884.98	1.00000	1.00000	1
5	50.0000	174785.00	26477.79	1.00000	1.00000	1

Calibration Curve : y = (0.000000) + (1.000000)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.000000

TCE.
Component Type : Single Peak Component
Retention Time : 19.869 min Search Window: 0.90 s, 0.90 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	15510.00	2955.07	0.09582	0.10000	1
2	10.0000	33857.00	6238.71	0.18979	0.20000	1
3	50.0000	156885.00	29463.90	0.90016	1.00000	1
4	100.0000	308353.00	58427.79	1.82730	2.00000	1
5	150.0000	462201.00	87985.71	2.64440	3.00000	1

Calibration Curve : y = (0.011520) + (0.887040)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999540

AAA-TFT
Component Type : Single Peak Component
Retention Time : 20.810 min Search Window: 0.90 s, 0.90 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	50.0000	77057.00	16609.35	0.47608	1.00000	1
2	50.0000	89538.00	19111.89	0.50192	1.00000	1
3	50.0000	87125.00	18568.28	0.49990	1.00000	1
4	50.0000	85669.00	18284.56	0.50767	1.00000	1
5	50.0000	88701.00	18315.23	0.50749	1.00000	1

Calibration Curve : y = (0.000000) + (0.498612)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.996722

TOLUENE
Component Type : Single Peak Component
Retention Time : 23.186 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit

Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	32340.50	8883.99	0.19981	0.10000	1
2	10.0000	62731.00	18751.57	0.35165	0.20000	1
3	50.0000	265308.00	87184.58	1.52227	1.00000	1
4	100.0000	515264.85	167577.16	3.05346	2.00000	1
5	150.0000	760981.00	253346.64	4.35381	3.00000	1

Calibration Curve : y = (0.051291) + (1.456071)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999026

CFB
Component Type : Single Peak Component
Retention Time : 24.789 min Search Window: 0.80 s, 0.50 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	50.0000	151608.00	61087.80	0.93667	1.00000	1
2	50.0000	174644.00	70081.51	0.97900	1.00000	1
3	50.0000	170214.00	68994.30	0.97664	1.00000	1
4	50.0000	165478.00	64838.78	0.98062	1.00000	1
5	50.0000	168221.00	66692.00	0.96245	1.00000	1

Calibration Curve : y = (0.000000) + (0.967076)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998254

CHLOROBENZENE
Component Type : Single Peak Component
Retention Time : 25.215 min Search Window: 0.30 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	26853.50	10548.19	0.16591	0.10000	1
2	10.0000	58271.00	23448.14	0.32665	0.20000	1
3	50.0000	269021.00	109346.64	1.54357	1.00000	1
4	100.0000	523474.00	220104.59	3.10210	2.00000	1
5	150.0000	778703.00	323623.81	4.45520	3.00000	1

Calibration Curve : y = (0.028184) + (1.495926)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999295

ETHYLBENZENE
Component Type : Single Peak Component
Retention Time : 25.513 min Search Window: 0.30 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression

Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	23653.00	9320.10	0.14613	0.10000	1
2	10.0000	50980.00	20159.51	0.28578	0.20000	1
3	50.0000	232877.50	94161.75	1.33619	1.00000	1
4	100.0000	453812.00	191000.64	2.68929	2.00000	1
5	150.0000	673725.50	283857.89	3.85460	3.00000	1

Calibration Curve : y = (0.026370) + (1.294248)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999234

M,P-XYLENES
Component Type : Single Peak Component
Retention Time : 25.764 min Search Window: 0.20 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	53139.00	19032.31	0.32831	0.20000	1
2	20.0000	117998.00	42705.93	0.66146	0.40000	1
3	100.0000	539546.00	197938.05	3.09577	2.00000	1
4	200.0000	1039539.00	393700.80	6.16030	4.00000	1
5	300.0000	1538340.50	576019.55	8.80133	6.00000	1

Calibration Curve : y = (0.069584) + (1.478545)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999053

STYRENE
Component Type : Single Peak Component
Retention Time : 26.138 min Search Window: 0.20 s, 0.17 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	31190.92	13128.62	0.19270	0.10000	1
2	10.0000	63513.37	28698.24	0.35604	0.20000	1
3	50.0000	293621.62	134656.92	1.68472	1.00000	1
4	100.0000	570847.11	242866.00	3.38284	2.00000	1
5	150.0000	842388.75	371635.03	4.81957	3.00000	1

Calibration Curve : y = (0.038704) + (1.619626)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999007

O-XYLENE
Component Type : Single Peak Component
Retention Time : 26.218 min Search Window: 0.70 s, 0.15 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	22986.08	9954.65	0.14201	0.10000	1
2	10.0000	51812.63	21769.21	0.29045	0.20000	1
3	50.0000	235058.88	101325.22	1.34870	1.00000	1
4	100.0000	449557.89	191480.79	2.66408	2.00000	1
5	150.0000	667711.25	277052.31	3.82019	3.00000	1

Calibration Curve : y = (0.031564) + (1.281911)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999138

ISOPROPYLBENZENE
Component Type : Single Peak Component
Retention Time : 26.638 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	19451.00	8023.05	0.12017	0.10000	1
2	10.0000	42259.00	17978.40	0.23689	0.20000	1
3	50.0000	194959.50	83817.81	1.11862	1.00000	1
4	100.0000	379096.00	154388.64	2.24652	2.00000	1
5	150.0000	562278.50	235294.80	3.21697	3.00000	1

Calibration Curve : y = (0.021678) + (1.080812)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999190

BROMOBENZENE
Component Type : Single Peak Component
Retention Time : 26.865 min Search Window: 0.30 s, 0.25 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	27508.00	11893.45	0.16995	0.10000	1
2	10.0000	59498.00	25126.34	0.33353	0.20000	1
3	50.0000	275857.00	119842.66	1.58279	1.00000	1
4	100.0000	529005.00	242511.21	3.13488	2.00000	1
5	150.0000	786552.00	353678.81	4.50011	3.00000	1

Calibration Curve : y = (0.034370) + (1.510325)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999204

n-PROPYLBENZENE
Component Type : Single Peak Component
Retention Time : 27.118 min Search Window: 0.20 s, 0.22 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	20311.67	8925.58	0.12549	0.10000	1

2	10.0000	48659.26	20206.82	0.27277	0.20000	1
3	50.0000	220509.47	92801.40	1.26522	1.00000	1
4	100.0000	430551.95	183329.02	2.55145	2.00000	1
5	150.0000	631518.82	263613.23	3.61312	3.00000	1

Calibration Curve : y = (0.025874) + (1.217905)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998722

2-CL-TOLUENE
Component Type : Single Peak Component
Retention Time : 27.198 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	23346.90	9933.37	0.14424	0.10000	1
2	10.0000	52877.10	22740.41	0.29641	0.20000	1
3	50.0000	240540.87	105541.18	1.38016	1.00000	1
4	100.0000	456640.25	209864.30	2.70605	2.00000	1
5	150.0000	679326.38	306086.41	3.88664	3.00000	1

Calibration Curve : y = (0.033550) + (1.303524)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999133

4-CLOROTOLUENE
Component Type : Single Peak Component
Retention Time : 27.284 min Search Window: 0.15 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	24592.43	10778.32	0.15194	0.10000	1
2	10.0000	57519.14	23960.47	0.32243	0.20000	1
3	50.0000	254763.16	110187.55	1.46176	1.00000	1
4	100.0000	478194.80	222437.98	2.83378	2.00000	1
5	150.0000	711242.80	318682.61	4.06924	3.00000	1

Calibration Curve : y = (0.041801) + (1.363230)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998996

1,3,5-TRIMETHYLBENZE
Component Type : Single Peak Component
Retention Time : 27.440 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	29020.50	13036.33	0.17930	0.10000	1
2	10.0000	69392.00	31824.60	0.38899	0.20000	1
3	50.0000	319180.00	146837.21	1.83137	1.00000	1
4	100.0000	610769.00	270454.46	3.61941	2.00000	1

5	150.0000	903969.00	410835.51	5.17189	3.00000	1

Calibration Curve : y = (0.038980) + (1.739219)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998975

t-BUTYLBENZENE

Component Type : Single Peak Component
Retention Time : 27.715 min Search Window: 0.15 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	18223.22	7138.19	0.11259	0.10000	1
2	10.0000	39759.11	16123.89	0.22288	0.20000	1
3	50.0000	179533.00	75082.56	1.03011	1.00000	1
4	100.0000	347185.50	148594.04	2.05742	2.00000	1
5	150.0000	513168.50	216421.27	2.93600	3.00000	1

Calibration Curve : y = (0.024402) + (0.986125)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999037

1,2,4-TRIMETHYLBENZE

Component Type : Single Peak Component
Retention Time : 27.834 min Search Window: 0.20 s, 0.15 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	22929.90	10535.55	0.14167	0.10000	1
2	10.0000	53277.05	22832.76	0.29865	0.20000	1
3	50.0000	242784.81	106237.67	1.39303	1.00000	1
4	100.0000	458880.46	209595.78	2.71932	2.00000	1
5	150.0000	676328.67	298233.04	3.86949	3.00000	1

Calibration Curve : y = (0.037950) + (1.300709)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998693

sec-BUTYLBENZENE

Component Type : Single Peak Component
Retention Time : 27.936 min Search Window: 0.20 s, 0.15 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	16955.22	7675.90	0.10475	0.10000	1
2	10.0000	41119.26	16942.39	0.23050	0.20000	1
3	50.0000	189176.67	78028.60	1.08544	1.00000	1
4	100.0000	374614.36	151067.77	2.21996	2.00000	1
5	150.0000	543616.85	221051.02	3.11020	3.00000	1

Calibration Curve : y = (0.020188) + (1.052340)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998238

1,3-DCBE
Component Type : Single Peak Component
Retention Time : 27.995 min Search Window: 0.20 s, 0.15 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	23105.65	9229.73	0.14275	0.10000	1
2	10.0000	51614.32	24386.11	0.28933	0.20000	1
3	50.0000	239528.85	114529.08	1.37435	1.00000	1
4	100.0000	446592.54	215124.69	2.64651	2.00000	1
5	150.0000	666298.15	319032.32	3.81210	3.00000	1

Calibration Curve : y = (0.036231) + (1.277406)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999036

1,4-DCBE
Component Type : Single Peak Component
Retention Time : 28.066 min Search Window: 0.15 s, 0.15 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	19786.12	9780.44	0.12224	0.10000	1
2	10.0000	50720.37	22625.68	0.28432	0.20000	1
3	50.0000	237095.04	107265.52	1.36039	1.00000	1
4	100.0000	448073.17	209169.52	2.65528	2.00000	1
5	150.0000	656670.96	297850.04	3.75702	3.00000	1

Calibration Curve : y = (0.032472) + (1.267368)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998340

p-ISOPROPYLTOLUENE
Component Type : Single Peak Component
Retention Time : 28.130 min Search Window: 0.20 s, 0.15 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	18810.88	7280.76	0.11622	0.10000	1
2	10.0000	40479.89	18206.89	0.22692	0.20000	1
3	50.0000	183831.63	84098.41	1.05478	1.00000	1
4	100.0000	343923.50	160188.53	2.03809	2.00000	1
5	150.0000	513028.37	235004.73	2.93520	3.00000	1

Calibration Curve : y = (0.030396) + (0.982353)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999098

1,2-DCBE

Component Type : Single Peak Component
Retention Time : 28.431 min Search Window: 0.40 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	18971.50	8063.53	0.11721	0.10000	1
2	10.0000	42543.11	18808.46	0.23848	0.20000	1
3	50.0000	194010.00	87274.68	1.11318	1.00000	1
4	100.0000	365730.00	167475.49	2.16731	2.00000	1
5	150.0000	539654.00	243199.50	3.08753	3.00000	1

Calibration Curve : y = (0.031795) + (1.036976)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998732

n-BUTYLBENZENE

Component Type : Single Peak Component
Retention Time : 28.552 min Search Window: 0.60 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	17576.00	7498.30	0.10859	0.10000	1
2	10.0000	45103.89	18286.61	0.25284	0.20000	1
3	50.0000	203311.00	83821.17	1.16654	1.00000	1
4	100.0000	380812.00	160960.99	2.25669	2.00000	1
5	150.0000	561045.00	233238.19	3.20992	3.00000	1

Calibration Curve : y = (0.032188) + (1.079595)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998497

1,2,4-TCBE

Component Type : Single Peak Component
Retention Time : 30.616 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	11506.79	3920.40	0.07109	0.10000	1
2	10.0000	30908.00	11058.74	0.17326	0.20000	1
3	50.0000	144191.00	51623.64	0.82733	1.00000	1
4	100.0000	257718.00	92661.29	1.52724	2.00000	1
5	150.0000	376714.00	134992.84	2.15530	3.00000	1

Calibration Curve : y = (0.030109) + (0.725963)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.996996

NAPHTHALENE

Component Type : Single Peak Component

Retention Time : 30.973 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	19608.87	6502.50	0.12115	0.10000	1
2	10.0000	40167.00	13572.90	0.22516	0.20000	1
3	50.0000	187582.97	64581.03	1.07630	1.00000	1
4	100.0000	349195.21	119682.18	2.06933	2.00000	1
5	150.0000	513846.79	176368.50	2.93988	3.00000	1

Calibration Curve : y = (0.035622) + (0.986998)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998460

CL6BUTADIENE
Component Type : Single Peak Component
Retention Time : 31.054 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	8673.63	2850.03	0.05359	0.10000	1
2	10.0000	24400.00	7667.89	0.13678	0.20000	1
3	50.0000	114858.53	35999.87	0.65903	1.00000	1
4	100.0000	208114.29	65315.21	1.23328	2.00000	1
5	150.0000	307059.71	96598.76	1.75679	3.00000	1

Calibration Curve : y = (0.018916) + (0.591423)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997834

1,2,3 TCBE
Component Type : Single Peak Component
Retention Time : 31.268 min Search Window: 0.60 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : FB
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	13095.00	3976.34	0.08090	0.10000	1
2	10.0000	31214.00	10256.61	0.17498	0.20000	1
3	50.0000	147233.50	47670.88	0.84479	1.00000	1
4	100.0000	262182.00	85039.59	1.55369	2.00000	1
5	150.0000	378548.00	122633.88	2.16579	3.00000	1

Calibration Curve : y = (0.036304) + (0.730528)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.996162

Sample File : H:\DATA\GC23A\EC9703.SMP
Created by : on : 1/23/91 08:42 AM
Edited by : on : 3/28/97 05:57 PM
Number Of Times Edited : 836

Sample Description :

Default Injection Volume : 1.0000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct Amounts During Calibration : YES
Reject Outliers During Calibration : YES
Allowed Replicate Deviation : 20.00 %

An Internal Standard Calibration Will Be Used
Unknown Peaks Will Be Quantitated Using A Response Factor of 1000000.000000

Component Information :

DICHLORODIFLUOROMETH

Component Type : Single Peak Component
Retention Time : 3.729 min Search Window: 2.40 s, 2.40 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	4716.35	916.47	0.00887	0.05000	1
1	5.0000	16437.67	2900.12	0.03180	0.10000	1
2	10.0000	47826.22	8078.61	0.08122	0.20000	1
3	50.0000	285384.64	45437.84	0.48651	1.00000	1
4	100.0000	569305.24	90775.32	0.99861	2.00000	1
5	150.0000	851236.22	132708.91	1.52314	3.00000	1

Calibration Curve : y = (-0.015976) + (0.510548)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999790

CHLOROMETHANE

Component Type : Single Peak Component
Retention Time : 3.894 min Search Window: 2.50 s, 1.40 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	27332.65	6802.26	0.05140	0.05000	1
1	5.0000	75056.00	17545.40	0.14519	0.10000	1
2	10.0000	158549.24	34848.77	0.26924	0.20000	1
3	50.0000	733998.90	163040.20	1.25128	1.00000	1
4	100.0000	1396675.52	309489.33	2.44989	2.00000	1
5	150.0000	1966652.97	437540.99	3.51899	3.00000	1

Calibration Curve : y = (0.025169) + (1.182647)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999128

VINYL CHLORIDE

Component Type : Single Peak Component

Retention Time : 4.208 min Search Window: 2.00 s, 1.40 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	20869.00	5015.48	0.03925	0.05000	1
1	5.0000	51552.33	12214.84	0.09972	0.10000	1
2	10.0000	121727.53	26800.90	0.20671	0.20000	1
3	50.0000	598121.46	118289.98	1.01964	1.00000	1
4	100.0000	1187840.38	213903.39	2.08357	2.00000	1
5	150.0000	1733189.30	280185.64	3.10125	3.00000	1

Calibration Curve : y = (-0.005294) + (1.037355)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999945

BROMOMETHANE
Component Type : Single Peak Component
Retention Time : 4.819 min Search Window: 1.20 s, 2.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	6523.00	1464.24	0.01227	0.05000	1
1	5.0000	20880.12	4636.30	0.04039	0.10000	1
2	10.0000	56305.06	12532.19	0.09561	0.20000	1
3	50.0000	328576.21	72542.87	0.56014	1.00000	1
4	100.0000	680528.35	145624.18	1.19370	2.00000	1
5	150.0000	992294.03	209298.22	1.77554	3.00000	1

Calibration Curve : y = (-0.017430) + (0.598372)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999665

TRICHLOROFLUOROMETH
Component Type : Single Peak Component
Retention Time : 5.073 min Search Window: 2.00 s, 2.00 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	24460.50	5101.27	0.04600	0.05000	1
1	5.0000	60043.88	11987.58	0.11615	0.10000	1
2	10.0000	130548.94	25697.53	0.22169	0.20000	1
3	50.0000	637018.79	118542.60	1.08595	1.00000	1
4	100.0000	1241812.50	225738.84	2.17824	2.00000	1
5	150.0000	1800930.01	318473.41	3.22246	3.00000	1

Calibration Curve : y = (0.003970) + (1.077593)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999920

CHLOROETHANE
Component Type : Single Peak Component

Retention Time : 6.116 min Search Window: 1.20 s, 1.60 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	15134.50	1875.83	0.02846	0.05000	1
1	5.0000	45571.00	5088.82	0.08815	0.10000	1
2	10.0000	114018.00	12932.29	0.19362	0.20000	1
3	50.0000	653959.00	65667.99	1.11483	1.00000	1
4	100.0000	1341825.00	126149.62	2.35367	2.00000	1
5	150.0000	1835844.88	170793.38	3.28493	3.00000	1

Calibration Curve : y = (-0.010293) + (1.123737)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998057

1,1-DCE
Component Type : Single Peak Component
Retention Time : 7.247 min Search Window: 1.40 s, 2.00 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	36329.50	6443.91	0.06832	0.05000	1
1	5.0000	89797.00	15196.28	0.17370	0.10000	1
2	10.0000	198742.00	34171.19	0.33749	0.20000	1
3	50.0000	933912.00	155125.59	1.59208	1.00000	1
4	100.0000	1680488.50	274592.61	2.94772	2.00000	1
5	150.0000	2438696.00	385109.15	4.36363	3.00000	1

Calibration Curve : y = (0.034898) + (1.454909)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999163

MECL2
Component Type : Single Peak Component
Retention Time : 7.646 min Search Window: 2.00 s, 1.90 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	5.0000	183218.00	31505.52	0.35442	0.10000	1
2	10.0000	321728.00	54949.62	0.54634	0.20000	1
3	50.0000	1212986.00	204988.31	2.06783	1.00000	1
4	100.0000	2056064.00	349183.48	3.60651	2.00000	1
5	150.0000	2984854.00	480395.68	5.34089	3.00000	1

Calibration Curve : y = (0.159063) + (1.739939)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997417

T-1,2-DCE
Component Type : Single Peak Component
Retention Time : 9.504 min Search Window: 2.00 s, 1.60 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	49067.00	8157.23	0.09228	0.05000	1
1	5.0000	110377.00	17827.72	0.21351	0.10000	1
2	10.0000	248414.00	39134.12	0.42184	0.20000	1
3	50.0000	1088983.00	164476.47	1.85644	1.00000	1
4	100.0000	1962444.00	288200.15	3.44229	2.00000	1
5	150.0000	2907485.00	423597.47	5.20245	3.00000	1

Calibration Curve : y = (0.042728) + (1.721217)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999399

1,1-DCA
Component Type : Single Peak Component
Retention Time : 10.311 min Search Window: 1.60 s, 1.60 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	42989.00	5922.84	0.08085	0.05000	1
1	5.0000	102152.00	13520.22	0.19760	0.10000	1
2	10.0000	233555.50	29984.39	0.39661	0.20000	1
3	50.0000	1023014.00	126766.15	1.74398	1.00000	1
4	100.0000	1846159.50	224180.47	3.23832	2.00000	1
5	150.0000	2736251.50	328950.34	4.89606	3.00000	1

Calibration Curve : y = (0.037492) + (1.620626)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999400

CIS-1,2-DCE
Component Type : Single Peak Component
Retention Time : 12.528 min Search Window: 1.00 s, 1.60 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	40957.00	5680.21	0.07703	0.05000	1
1	5.0000	95002.00	12671.71	0.18377	0.10000	1
2	10.0000	207566.50	27010.78	0.35248	0.20000	1
3	50.0000	936846.00	117074.07	1.59708	1.00000	1
4	100.0000	1689047.00	207089.60	2.96273	2.00000	1
5	150.0000	2544388.00	308914.78	4.55275	3.00000	1

Calibration Curve : y = (0.027315) + (1.501518)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999374

BROMOCHLOROMETHAN
Component Type : Single Peak Component
Retention Time : 13.103 min Search Window: 1.00 s, 1.20 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	27946.58	4077.48	0.05256	0.05000	1
1	5.0000	71189.02	10143.20	0.13771	0.10000	1
2	10.0000	154146.21	21459.14	0.26176	0.20000	1
3	50.0000	716710.06	97447.95	1.22181	1.00000	1
4	100.0000	1259973.33	170898.06	2.21010	2.00000	1
5	150.0000	1974410.53	262529.70	3.53287	3.00000	1

Calibration Curve : y = (0.011373) + (1.155464)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998238

CHLOROFORM
Component Type : Single Peak Component
Retention Time : 13.384 min Search Window: 1.00 s, 1.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	65580.00	8465.25	0.12333	0.05000	1
1	5.0000	145514.35	18368.61	0.28148	0.10000	1
2	10.0000	296430.55	37528.82	0.50338	0.20000	1
3	50.0000	1299075.80	159353.23	2.21459	1.00000	1
4	100.0000	2295076.00	277462.83	4.02576	2.00000	1
5	150.0000	3475975.41	414721.61	6.21967	3.00000	1

Calibration Curve : y = (0.057287) + (2.042081)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999007

2,2-DCP
Component Type : Single Peak Component
Retention Time : 13.614 min Search Window: 0.70 s, 1.30 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	32151.42	3600.26	0.06047	0.05000	1
1	5.0000	72334.64	7876.43	0.13992	0.10000	1
2	10.0000	185814.24	19360.46	0.31554	0.20000	1
3	50.0000	825569.14	84035.05	1.40738	1.00000	1
4	100.0000	1417512.67	143165.24	2.48644	2.00000	1
5	150.0000	2139106.07	215771.11	3.82757	3.00000	1

Calibration Curve : y = (0.031292) + (1.262721)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998391

1,2-DCA
Component Type : Single Peak Component
Retention Time : 15.756 min Search Window: 0.80 s, 1.10 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	43163.95	6890.86	0.08118	0.05000	1
1	5.0000	101332.30	15893.36	0.19602	0.10000	1
2	10.0000	202428.96	31549.95	0.34375	0.20000	1
3	50.0000	895951.17	135872.39	1.52737	1.00000	1
4	100.0000	1680127.90	249829.46	2.94709	2.00000	1
5	150.0000	2488290.83	366896.23	4.45238	3.00000	1

Calibration Curve : y = (0.028233) + (1.472464)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999804

1,1,1-TCA
Component Type : Single Peak Component
Retention Time : 16.036 min Search Window: 0.80 s, 1.00 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	54677.05	7181.05	0.10283	0.05000	1
1	5.0000	124915.70	15766.13	0.24164	0.10000	1
2	10.0000	258397.04	32299.94	0.43880	0.20000	1
3	50.0000	1140719.33	136266.15	1.94464	1.00000	1
4	100.0000	2155811.10	254690.85	3.78148	2.00000	1
5	150.0000	3155944.09	369390.39	5.64703	3.00000	1

Calibration Curve : y = (0.036789) + (1.873839)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999847

1,1-DICHLOROPROPENE
Component Type : Single Peak Component
Retention Time : 16.760 min Search Window: 0.70 s, 1.10 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	40022.50	6533.59	0.07527	0.05000	1
1	5.0000	89052.00	14165.61	0.17226	0.10000	1
2	10.0000	190230.00	29685.98	0.32304	0.20000	1
3	50.0000	845374.00	127594.97	1.44115	1.00000	1
4	100.0000	1610753.00	240834.50	2.82540	2.00000	1
5	150.0000	2355729.00	349326.56	4.21518	3.00000	1

Calibration Curve : y = (0.022927) + (1.400284)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999894

CARBON TETRACHLORIDE
Component Type : Single Peak Component
Retention Time : 17.232 min Search Window: 0.70 s, 1.00 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	61469.00	8858.75	0.11560	0.05000	1
1	5.0000	136613.50	19028.90	0.26427	0.10000	1
2	10.0000	283211.00	38778.73	0.48093	0.20000	1
3	50.0000	1234679.50	163591.15	2.10481	1.00000	1
4	100.0000	2336356.50	302913.47	4.09817	2.00000	1
5	150.0000	3431795.00	444188.48	6.14062	3.00000	1

Calibration Curve : y = (0.040460) + (2.034832)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999857

BR2CH2
Component Type : Single Peak Component
Retention Time : 19.519 min Search Window: 0.50 s, 0.55 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	12954.70	2374.55	0.02436	0.05000	1
1	5.0000	38654.00	6907.26	0.07477	0.10000	1
2	10.0000	86797.54	15432.58	0.14739	0.20000	1
3	50.0000	446874.65	76630.21	0.76181	1.00000	1
4	100.0000	903049.52	151931.86	1.58403	2.00000	1
5	150.0000	1313115.50	218445.89	2.34960	3.00000	1

Calibration Curve : y = (-0.008785) + (0.787946)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999853

1,2-DCP
Component Type : Single Peak Component
Retention Time : 19.711 min Search Window: 0.30 s, 0.55 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	42338.09	6951.40	0.07962	0.05000	1
1	5.0000	96306.01	15669.06	0.18630	0.10000	1
2	10.0000	195927.50	31739.53	0.33271	0.20000	1
3	50.0000	914036.18	140891.31	1.55820	1.00000	1
4	100.0000	1707993.77	260477.33	2.99597	2.00000	1
5	150.0000	2395287.17	375691.48	4.28596	3.00000	1

Calibration Curve : y = (0.042745) + (1.439298)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998837

TCE
Component Type : Single Peak Component
Retention Time : 19.880 min Search Window: 0.60 s, 0.50 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	63090.73	11411.66	0.11865	0.05000	1
1	5.0000	127896.17	22856.45	0.24740	0.10000	1
2	10.0000	275398.08	46777.44	0.46767	0.20000	1
3	50.0000	1150761.47	200972.24	1.96175	1.00000	1
4	100.0000	2139634.44	367745.17	3.75310	2.00000	1
5	150.0000	2989201.50	521124.20	5.34867	3.00000	1

Calibration Curve : y = (0.075522) + (1.790330)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998601

BROMODICHLOROMETHAN
Component Type : Single Peak Component
Retention Time : 20.007 min Search Window: 0.50 s, 0.50 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	41725.49	7979.01	0.07847	0.05000	1
1	5.0000	93315.32	17616.79	0.18051	0.10000	1
2	10.0000	184810.88	35743.74	0.31384	0.20000	1
3	50.0000	873346.71	159955.68	1.48883	1.00000	1
4	100.0000	1598775.27	297657.63	2.80439	2.00000	1
5	150.0000	2377037.83	420146.29	4.25331	3.00000	1

Calibration Curve : y = (0.026121) + (1.407323)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999656

2-CVE
Component Type : Single Peak Component
Retention Time : 21.432 min Search Window: 0.30 s, 0.60 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	10227.00	2577.78	0.01923	0.05000	1
1	5.0000	24935.00	6411.10	0.04823	0.10000	1
2	10.0000	59223.50	15014.48	0.10057	0.20000	1
3	50.0000	307409.50	76435.45	0.52405	1.00000	1
4	100.0000	577364.00	144039.06	1.01275	2.00000	1
5	150.0000	817703.00	202447.64	1.46314	3.00000	1

Calibration Curve : y = (0.005015) + (0.493366)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999127

C-1,3-DCP
Component Type : Single Peak Component
Retention Time : 21.890 min Search Window: 0.80 s, 0.60 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	37303.50	10180.62	0.07016	0.05000	1
1	5.0000	82124.00	22263.31	0.15886	0.10000	1
2	10.0000	179025.50	47429.05	0.30401	0.20000	1
3	50.0000	815552.00	211691.46	1.39031	1.00000	1
4	100.0000	1477296.50	385983.68	2.59130	2.00000	1
5	150.0000	2049053.50	520978.97	3.66644	3.00000	1

Calibration Curve : y = (0.049474) + (1.233820)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997749

T-1,3-DCP
Component Type : Single Peak Component
Retention Time : 22.700 min Search Window: 0.50 s, 0.50 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	34532.66	10417.37	0.06494	0.05000	1
1	5.0000	72515.07	21988.18	0.14027	0.10000	1
2	10.0000	162902.57	49376.03	0.27663	0.20000	1
3	50.0000	735182.07	221077.98	1.25330	1.00000	1
4	100.0000	1307409.71	390847.21	2.29331	2.00000	1
5	150.0000	1823603.53	528846.63	3.26303	3.00000	1

Calibration Curve : y = (0.047522) + (1.095879)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997572

1,1,2-TCA
Component Type : Single Peak Component
Retention Time : 22.930 min Search Window: 0.50 s, 0.50 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	47354.34	13725.59	0.08906	0.05000	1
1	5.0000	102321.93	29685.91	0.19793	0.10000	1
2	10.0000	205978.43	60012.37	0.34978	0.20000	1
3	50.0000	909834.31	260652.81	1.55104	1.00000	1
4	100.0000	1618122.79	467133.87	2.83832	2.00000	1
5	150.0000	2272967.65	643666.28	4.06709	3.00000	1

Calibration Curve : y = (0.065646) + (1.359638)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997974

1CL2BRPRPN
Component Type : Single Peak Component
Retention Time : 23.190 min Search Window: 0.40 s, 0.40 %

Reference Component:
Find Largest Peak in Window
Internal Standard :
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	50.0000	531724.64	145331.07	1.00000	1.00000	1
1	50.0000	516954.17	140684.34	1.00000	1.00000	1
2	50.0000	588878.33	159624.20	1.00000	1.00000	1
3	50.0000	586598.07	159619.22	1.00000	1.00000	1
4	50.0000	570097.83	153376.14	1.00000	1.00000	1
5	50.0000	558868.03	151379.96	1.00000	1.00000	1

Calibration Curve : y = (0.000000) + (1.000000)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.000000

1,3-DCP
Component Type : Single Peak Component
Retention Time : 23.392 min Search Window: 0.60 s, 0.40 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	50891.86	14083.48	0.09571	0.05000	1
1	5.0000	92856.83	27157.76	0.17962	0.10000	1
2	10.0000	184261.67	54596.23	0.31290	0.20000	1
3	50.0000	755014.56	226189.11	1.28711	1.00000	1
4	100.0000	1327132.67	403880.73	2.32790	2.00000	1
5	150.0000	1844782.28	554406.87	3.30093	3.00000	1

Calibration Curve : y = (0.073915) + (1.100278)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997219

DIBROMOCHLOROMETHAN
Component Type : Single Peak Component
Retention Time : 23.736 min Search Window: 0.50 s, 0.50 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	27348.00	8664.53	0.05143	0.05000	1
1	5.0000	58653.00	18899.35	0.11346	0.10000	1
2	10.0000	135074.00	42278.25	0.22938	0.20000	1
3	50.0000	601235.00	190274.98	1.02495	1.00000	1
4	100.0000	1120919.00	342988.87	1.96619	2.00000	1
5	150.0000	1527889.50	481347.06	2.73390	3.00000	1

Calibration Curve : y = (0.035353) + (0.924699)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997328

EDB
Component Type : Single Peak Component
Retention Time : 24.095 min Search Window: 0.50 s, 0.50 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	15043.50	4949.67	0.02829	0.05000	1
1	5.0000	35155.00	11536.96	0.06800	0.10000	1
2	10.0000	84778.00	28054.08	0.14397	0.20000	1
3	50.0000	380522.00	130185.91	0.64869	1.00000	1
4	100.0000	724802.00	243480.92	1.27136	2.00000	1
5	150.0000	989166.50	342065.76	1.76995	3.00000	1

Calibration Curve : y = (0.017435) + (0.599719)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997678

TETRACHLOROETHENE
Component Type : Single Peak Component
Retention Time : 24.370 min Search Window: 0.50 s, 0.50 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	70283.50	23672.38	0.13218	0.05000	1
1	5.0000	117777.00	39307.66	0.22783	0.10000	1
2	10.0000	269015.00	90968.22	0.45683	0.20000	1
3	50.0000	1101706.50	363551.51	1.87813	1.00000	1
4	100.0000	1921840.00	616097.29	3.37107	2.00000	1
5	150.0000	2672525.00	855118.60	4.78203	3.00000	1

Calibration Curve : y = (0.100598) + (1.597461)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.996924

CFB
Component Type : Single Peak Component
Retention Time : 24.870 min Search Window: 0.30 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	50.0000	341404.00	121572.53	0.64207	1.00000	1
1	50.0000	329504.00	116688.24	0.63739	1.00000	1
2	50.0000	389593.00	136413.88	0.66158	1.00000	1
3	50.0000	391929.00	135662.28	0.66814	1.00000	1
4	50.0000	365008.00	132190.54	0.64026	1.00000	1
5	50.0000	347289.00	130133.00	0.62142	1.00000	1

Calibration Curve : y = (0.000000) + (0.645143)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.995937

1,1,1,2-TCA
Component Type : Single Peak Component
Retention Time : 25.134 min Search Window: 0.50 s, 0.20 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	60910.00	20537.98	0.11455	0.05000	1
1	5.0000	124583.36	41713.92	0.24099	0.10000	1
2	10.0000	266009.00	89407.27	0.45172	0.20000	1
3	50.0000	1118404.78	360278.38	1.90659	1.00000	1
4	100.0000	1902612.29	645974.56	3.33734	2.00000	1
5	150.0000	2612410.67	878632.51	4.67447	3.00000	1

Calibration Curve : y = (0.110599) + (1.567163)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.995159

CHLOROBNZN
Component Type : Single Peak Component
Retention Time : 25.223 min Search Window: 0.30 s, 0.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	23079.00	8964.63	0.04340	0.05000	1
1	5.0000	47803.64	17451.72	0.09247	0.10000	1
2	10.0000	100908.00	39778.36	0.17136	0.20000	1
3	50.0000	458727.22	170568.19	0.78201	1.00000	1
4	100.0000	798344.71	293938.27	1.40036	2.00000	1
5	150.0000	1178791.33	405359.97	2.10925	3.00000	1

Calibration Curve : y = (0.024184) + (0.697570)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998777

BROMOFORM
Component Type : Single Peak Component
Retention Time : 25.836 min Search Window: 0.30 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	14581.00	5295.27	0.02742	0.05000	1
1	5.0000	36078.00	13159.13	0.06979	0.10000	1
2	10.0000	84433.00	30398.09	0.14338	0.20000	1
3	50.0000	417362.00	143402.96	0.71150	1.00000	1
4	100.0000	777853.00	268621.69	1.36442	2.00000	1
5	150.0000	1013711.00	374469.97	1.81386	3.00000	1

Calibration Curve : y = (0.024234) + (0.623737)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.993541

1,1,2,2-TCA
Component Type : Single Peak Component
Retention Time : 26.232 min Search Window: 0.30 s, 0.30 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	36795.90	13582.58	0.06920	0.05000	1
1	5.0000	75153.00	28241.45	0.14538	0.10000	1
2	10.0000	156888.09	59482.40	0.26642	0.20000	1
3	50.0000	663903.02	246034.09	1.13179	1.00000	1
4	100.0000	1119107.00	419294.76	1.96301	2.00000	1
5	150.0000	1574973.36	567260.52	2.81815	3.00000	1

Calibration Curve : y = (0.061942) + (0.938637)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.996298

1,2,3-TCP
Component Type : Single Peak Component
Retention Time : 26.389 min Search Window: 0.30 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	28809.10	10291.87	0.05418	0.05000	1
1	5.0000	59497.00	21081.37	0.11509	0.10000	1
2	10.0000	120917.91	44957.12	0.20534	0.20000	1
3	50.0000	520652.48	192773.82	0.88758	1.00000	1
4	100.0000	879197.00	339280.62	1.54219	2.00000	1
5	150.0000	1300181.64	480373.73	2.32646	3.00000	1

Calibration Curve : y = (0.038057) + (0.766052)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997953

BROMOBN
Component Type : Single Peak Component
Retention Time : 26.885 min Search Window: 0.30 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	11088.00	4030.74	0.02085	0.05000	1
1	5.0000	24359.50	8961.25	0.04712	0.10000	1
2	10.0000	62408.00	24320.58	0.10598	0.20000	1
3	50.0000	305149.00	116266.91	0.52020	1.00000	1
4	100.0000	550787.00	200333.60	0.96613	2.00000	1
5	150.0000	749817.00	289713.53	1.34167	3.00000	1

Calibration Curve : y = (0.015193) + (0.456000)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.996329

2-CHLOROTOLUENE
Component Type : Single Peak Component
Retention Time : 27.212 min Search Window: 0.15 s, 0.15 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	22428.03	9000.72	0.04218	0.05000	1
1	5.0000	37203.88	15076.27	0.07197	0.10000	1
2	10.0000	89155.12	36047.53	0.15140	0.20000	1
3	50.0000	393909.69	153919.64	0.67152	1.00000	1
4	100.0000	698543.13	273628.59	1.22530	2.00000	1
5	150.0000	976347.80	373259.18	1.74701	3.00000	1

Calibration Curve : y = (0.027205) + (0.585660)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997641

4-CHLOROTOLUENE
Component Type : Single Peak Component
Retention Time : 27.290 min Search Window: 1.10 s, 0.10 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	24348.97	9975.67	0.04579	0.05000	1
1	5.0000	37552.12	15021.48	0.07264	0.10000	1
2	10.0000	95458.76	37756.59	0.16210	0.20000	1
3	50.0000	404375.48	159747.20	0.68936	1.00000	1
4	100.0000	690918.67	265202.18	1.21193	2.00000	1
5	150.0000	995344.84	381789.02	1.78100	3.00000	1

Calibration Curve : y = (0.029702) + (0.591325)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997691

1,3-DCB
Component Type : Single Peak Component
Retention Time : 28.003 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	42734.00	17204.98	0.08037	0.05000	1
1	5.0000	58490.88	24507.37	0.11315	0.10000	1
2	10.0000	152776.24	57961.40	0.25944	0.20000	1
3	50.0000	661843.00	247938.08	1.12827	1.00000	1
4	100.0000	1049193.17	437099.46	1.84037	2.00000	1
5	150.0000	1625457.48	600503.77	2.90848	3.00000	1

Calibration Curve : y = (0.044495) + (0.947813)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.995683

1,4-DCB
Component Type : Single Peak Component
Retention Time : 28.074 min Search Window: 0.20 s, 0.20 %

Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	45849.00	19096.89	0.08623	0.05000	1
1	5.0000	64265.12	26419.21	0.12431	0.10000	1
2	10.0000	144602.26	61548.86	0.24556	0.20000	1
3	50.0000	594035.00	250887.00	1.01268	1.00000	1
4	100.0000	1103969.33	426502.40	1.93646	2.00000	1
5	150.0000	1432048.52	602497.56	2.56241	3.00000	1

Calibration Curve : y = (0.062102) + (0.871327)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.993453

1,2-DCB
Component Type : Single Peak Component
Retention Time : 28.438 min Search Window: 0.20 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	41192.00	16387.50	0.07747	0.05000	1
1	5.0000	62326.00	25054.23	0.12056	0.10000	1
2	10.0000	145546.00	55357.23	0.24716	0.20000	1
3	50.0000	628006.00	234350.09	1.07059	1.00000	1
4	100.0000	1065272.00	412317.20	1.86858	2.00000	1
5	150.0000	1517449.00	564173.31	2.71522	3.00000	1

Calibration Curve : y = (0.052462) + (0.902731)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997146

1,2-DIBROMO-3-CHLOR
Component Type : Single Peak Component
Retention Time : 29.008 min Search Window: 0.20 s, 0.40 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	5954.00	2054.84	0.01120	0.05000	1
1	5.0000	13834.00	4890.88	0.02676	0.10000	1
2	10.0000	32104.00	11356.39	0.05452	0.20000	1
3	50.0000	167697.00	58982.81	0.28588	1.00000	1
4	100.0000	309948.00	109493.20	0.54368	2.00000	1
5	150.0000	433662.00	154705.42	0.77596	3.00000	1

Calibration Curve : y = (0.004637) + (0.262289)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998429

1,2,4-TCB
Component Type : Single Peak Component
Retention Time : 30.620 min Search Window: 0.30 s, 0.30 %

Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	64374.00	21576.69	0.12107	0.05000	1
1	5.0000	54595.00	18396.26	0.10561	0.10000	1
2	10.0000	159294.00	51043.17	0.27050	0.20000	1
3	50.0000	702164.00	219736.31	1.19701	1.00000	1
4	100.0000	1145168.21	359406.79	2.00872	2.00000	1
5	150.0000	1631442.00	502536.75	2.91919	3.00000	1

Calibration Curve : y = (0.066943) + (0.969056)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.995277

HEXACHLOROBUTADIENE
Component Type : Single Peak Component
Retention Time : 31.058 min Search Window: 0.30 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	98411.56	28419.30	0.18508	0.05000	1
1	5.0000	86602.63	24858.85	0.16752	0.10000	1
2	10.0000	239833.00	69118.27	0.40727	0.20000	1
3	50.0000	1007891.00	283832.62	1.71820	1.00000	1
4	100.0000	1683954.79	470026.78	2.95380	2.00000	1
5	150.0000	2390330.00	660607.13	4.27709	3.00000	1

Calibration Curve : y = (0.100791) + (1.417862)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.996260

1,2,3-TCB
Component Type : Single Peak Component
Retention Time : 31.273 min Search Window: 0.30 s, 0.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 1CL2BRPRPN
Calibrating Area Ratio versus Amount Ratio Using a 1st Order Fit
Curve Will Include The Origin
Amounts Will Not Be Scaled Prior To The Regression
Weighting Factor For the Regression: 1
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
0	2.5000	60732.94	18679.97	0.11422	0.05000	1
1	5.0000	59813.37	18263.69	0.11570	0.10000	1
2	10.0000	157462.50	47753.53	0.26739	0.20000	1
3	50.0000	680470.00	202122.68	1.16003	1.00000	1
4	100.0000	1121778.00	330101.16	1.96769	2.00000	1
5	150.0000	1559554.50	455798.08	2.79056	3.00000	1

Calibration Curve : y = (0.072182) + (0.930760)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.994592

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Software Version: 3.3 <4B11>

Sample Name : MP1W 10PPB Time : 6/7/97 9:47 AM

Sample Number: Study : 601/602-502.2

Operator :

Instrument : OI-3/GC23A Channel : A A/D mV Range : 1000

AutoSampler : NONE

Rack/Vial : 0/0

Interface Serial # : 4088270921 Data Acquisition Time: 6/6/97 7:31 AM

Delay Time : 0.00 min.

End Time : 32.50 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC23A\R06I001.RAW

Result File : H:\DATA\GC23A\R06I001.RST

Instrument File: H:\DATA\GC23A\GC23A

Process File : H:\DATA\GC23A\PID-23A.prc

Sample File : H:\DATA\GC23A\PC9703A.smp

Sequence File : h:\data\gc23a\r06.seq

Inj. Volume : 1 ul Area Reject : 1000.000000

Sample Amount : 1.0000 Dilution Factor : 1.00

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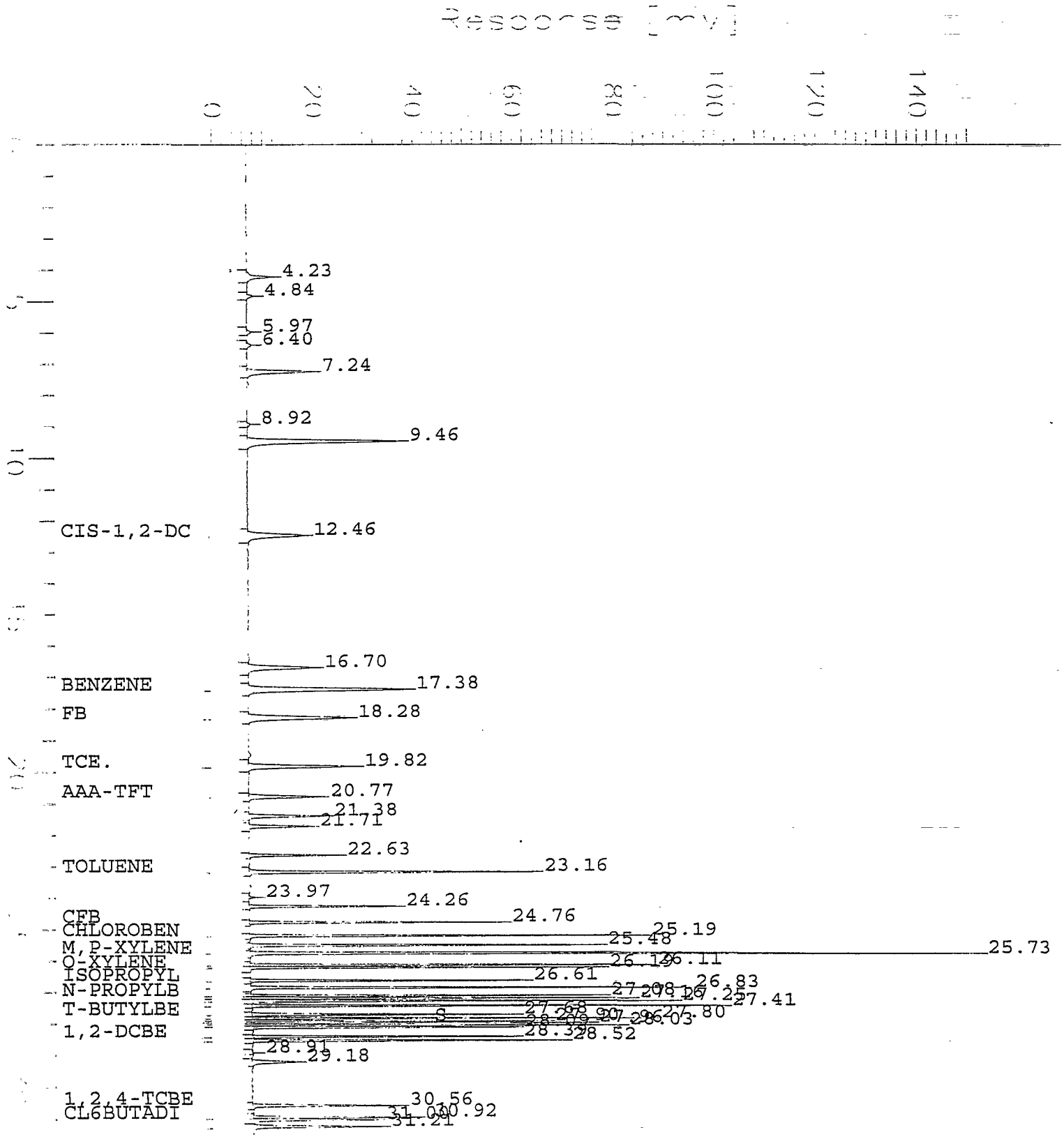
PID-GC#23A

Peak	Component Name	Time [min]	Area [uV*sec]	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
8	CIS-1,2-DCE	12.461	83931.50	96	47.871	9.574	
10	BENZENE	17.378	197046.00	95	47.531	9.506	
11	FB	18.280	128262.00	0	0.000	0.000	
12	TCE.	19.817	111246.00	96	48.240	9.648	
13	AAA-TFT	20.767	65527.00	102	51.231	10.246	+
17	TOLUENE	23.158	186026.00	96	48.043	9.609	
20	CFB	24.764	126273.00	102	50.900	10.180	+
21	CHLOROBENZENE	25.186	187171.00	96	47.833	9.567	
22	ETHYLBENZENE	25.482	164621.00	97	48.565	9.713	
23	M,P-XYLENES	25.734	378723.00	195	97.499	19.500	
24	STYRENE	26.108	205383.79	96	48.239	9.648	
25	O-XYLENE	26.187	162164.71	96	48.083	9.617	
26	ISOPROPYLBENZENE	26.606	137676.00	97	48.654	9.731	
27	BROMOBENZENE	26.832	189057.50	95	47.659	9.532	
28	n-PROPYLBENZENE	27.084	154520.90	97	48.397	9.679	
29	2-CL-TOLUENE	27.164	170880.38	100	49.816	9.963	
30	4-CLOROTOLUENE	27.250	177947.73	99	49.352	9.870	
31	1,3,5-TRIMETHYLBE	27.406	223709.00	98	49.021	9.804	
32	t-BUTYLBENZENE	27.680	125126.50	96	48.227	9.645	
33	1,2,4-TRIMETHYLBE	27.799	165907.00	97	48.264	9.653	
34	sec-BUTYLBENZENE	27.901	125184.00	91	45.414	9.083	
35	1,3-DCBE	27.957	167071.00	99	49.567	9.913	
36	1,4-DCBE	28.031	156554.00	94	46.873	9.375	
37	p-ISOPROPYLTOLUEN	28.093	132401.00	102	50.994	10.199	
38	1,2-DCBE	28.393	129231.00	94	47.048	9.410	
39	n-BUTYLBENZENE	28.515	139249.00	98	48.790	9.758	
42	1,2,4-TCBE	30.561	86085.00	88	44.152	8.830	
43	NAPHTHALENE	30.916	97589.58	73	36.740	7.348	
44	CL6BUTADIENE	30.996	78991.42	101	50.467	10.093	
45	1.2,3 TCBE	31.209	85262.00	86	43.013	8.603	

AROMATICS

Sample Name : MP1W 10PPB
FileName : h:\data\gc23a\R06I001.raw
Method : GC23A
Start Time : 0.00 min End Time : 32.50 min
Scale Factor: 1.0 Plot Offset: -1 mV

Sample #: Page 1 o
Date : 6/7/97 9:47 AM
Time of Injection: 6/6/97 7:31 AM
Low Point : -0.59 mV High Point : 1
Plot Scale: 151.9 mV



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Software Version: 3.3 <4B11>

Sample Name : MP1W 10PPB Time : 6/7/97 9:47 AM

Sample Number: Study : 601/602-502.2

Operator :

Instrument : OI-3/GC23A Channel : B A/D mV Range : 1000

AutoSampler : NONE

Rack/Vial : 0/0

Interface Serial # : 4088270921 Data Acquisition Time: 6/6/97 7:31 AM

Delay Time : 0.00 min.

End Time : 32.50 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC23A\R06J001.RAW

Result File : H:\DATA\GC23A\R06J001.RST

Instrument File: H:\DATA\GC23A\GC23A

Process File : H:\DATA\GC23A\ELCD-23A.prc

Sample File : H:\DATA\GC23A\EC9703A.smp

Sequence File : h:\data\gc23a\r06.seq

Inj. Volume : 1 ul Area Reject : 1000.000000

Sample Amount : 1.0000 Dilution Factor : 1.00

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ELCD-GC#23A

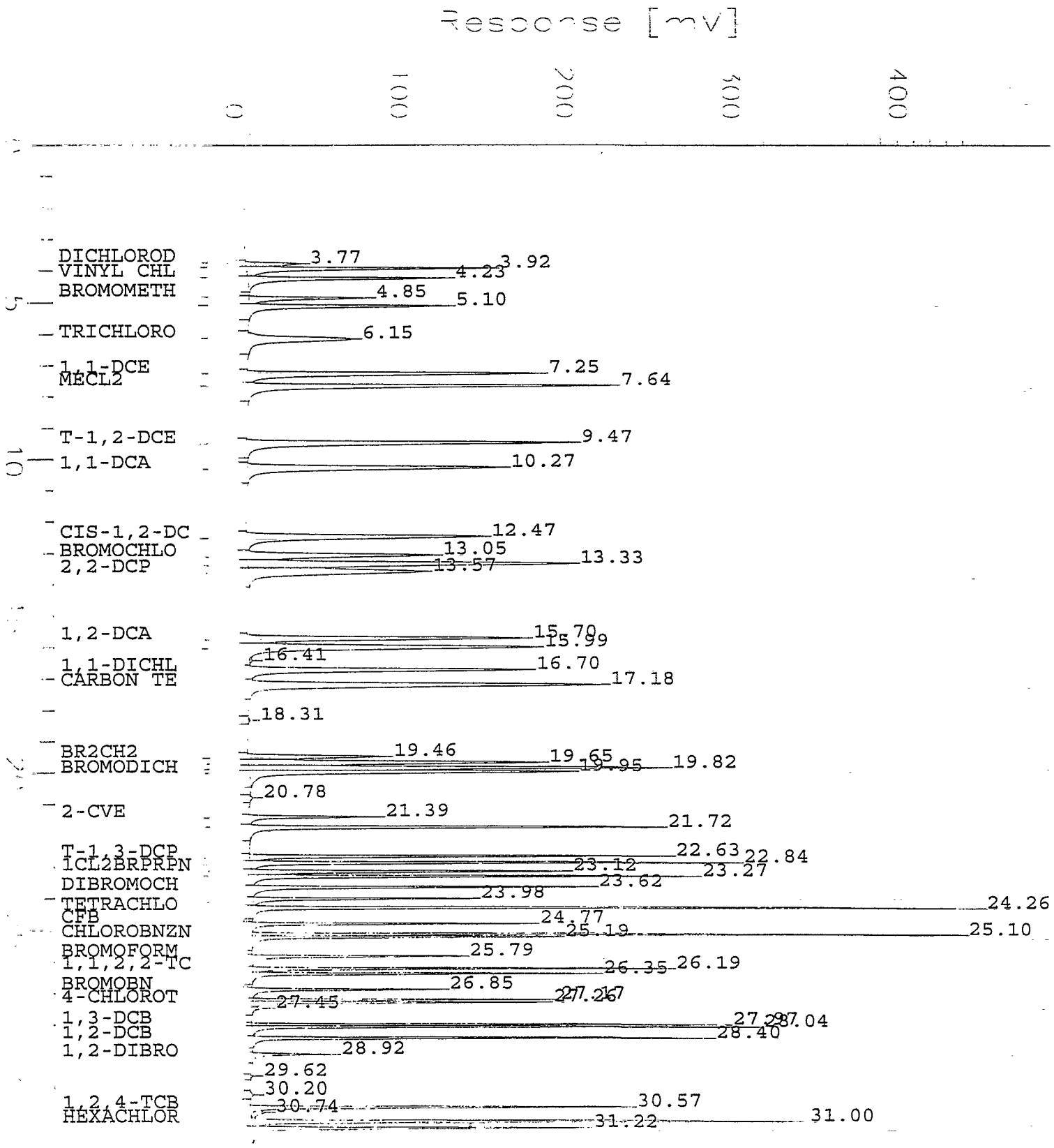
Peak	Component Name	Time [min]	Area [uV*sec]	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
1	DICHLORODIFLUOROME	3.768	213860.00	58	29.241	5.848	
2	CHLOROMETHANE	3.924	779025.50	85	42.459	8.492	
3	VINYL CHLORIDE	4.232	633064.50	81	40.577	8.115	
4	BROMOMETHANE	4.848	373256.83	85	42.672	8.534	
5	CHLOROETHANE	5.099	671991.17	80	39.969	7.994	
6	TRICHLOROFLUOROMET	6.145	690366.50	84	42.146	8.429	
7	1,1-DCE	7.250	1167876.73	104	51.838	10.368	
8	MECL2	7.641	1479712.27	103	51.620	10.324	
9	T-1,2-DCE	9.472	1385064.00	104	51.927	10.385	
10	1,1-DCA	10.267	1297921.00	104	51.759	10.352	
11	CIS-1,2-DCE	12.470	1218298.34	105	52.700	10.540	
12	BROMOCHLOROMETHAN	13.048	872381.42	99	49.393	9.879	
13	CHLOROFORM	13.325	1662549.63	105	52.390	10.478	
14	2,2-DCP	13.566	1143467.62	117	58.594	11.719	
15	1,2-DCA	15.697	1146505.60	101	50.487	10.097	
16	1,1,1-TCA	15.985	1530356.90	106	52.980	10.596	
18	1,1-DICHLOROPROPEN	16.704	1146499.50	107	53.279	10.656	
19	CARBON TETRACHLORI	17.180	1659348.00	106	52.886	10.577	
21	BR2CH2	19.461	507227.67	86	43.091	8.618	
22	1,2-DCP	19.652	1141073.42	102	50.897	10.179	
23	TCE	19.823	1542529.52	110	54.818	10.964	
24	BROMODICHLOROMETHA	19.952	1121678.39	103	51.734	10.347	
26	2-CVE	21.386	337599.74	89	44.704	8.941	
27	C-1,3-DCP	21.715	1034095.76	107	53.372	10.674	
28	T-1,3-DCP	22.634	894456.87	104	51.760	10.352	
29	1,1,2-TCA	22.839	1121872.60	104	52.104	10.421	
30	1CL2BRPRPN	23.117	756743.20	0	0.000	0.000	
31	1,3-DCP	23.268	928897.33	105	52.422	10.484	
32	DIBROMOCHLOROMETHA	23.616	729054.00	100	50.182	10.036	
33	EDB	23.981	454165.14	97	48.583	9.717	
34	TETRACHLOROETHENE	24.264	1420827.86	111	55.618	11.124	
35	CFB	24.769	507204.00	104	51.946	10.389	+
36	1,1,1,2-TCA	25.102	1278870.10	101	50.389	10.078	
37	CHLOROBNZN	25.192	640776.40	118	58.960	11.792	
38	BROMOFORM	25.793	451294.50	92	45.863	9.173	
39	1,1,2,2-TCA	26.188	747237.99	99	49.300	9.860	
40	1,2,3-TCP	26.349	607488.51	100	49.912	9.982	
41	BROMOBN	26.848	353519.00	99	49.558	9.912	
42	2-CHLOROTOLUENE	27.170	477023.91	103	51.494	10.299	

Peak #	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
3	4-CHLOROTOLUENE	27.255	507669.83	108	54.214	10.843	
5	1,3-DCB	27.965	729220.54	97	48.487	9.697	
6	1,4-DCB	28.035	817861.46	117	58.455	11.691	
47	1,2-DCB	28.400	753634.50	105	52.254	10.451	
48	1,2-DIBROMO-3-CHLO	28.917	167849.50	83	41.399	8.280	
1	1,2,4-TCB	30.568	774843.16	99	49.377	9.875	
3	HEXACHLOROBUTADIEN	31.002	1267889.73	111	55.530	11.106	
4	1,2,3-TCB	31.216	787942.11	104	52.057	10.411	

Halogenated Volatile Organics

Sample Name : MP1W 10PPB
FileName : h:\data\gc23a\R06J001.raw
Method : GC23A
Start Time : 0.00 min End Time : 32.50 min
Scale Factor: 1.0 Plot Offset: -16 mV

Sample #: Page 1 o
Date : 6/7/97 9:47 AM
Time of Injection: 6/6/97 7:31 AM
Low Point : -15.69 mV High Point : 4
Plot Scale: 462.1 mV



ATTACHMENT C

LEVEL III
QUALITY ASSURANCE/QUALITY CONTROL DOCUMENTATION

ATTACHMENT C

LEVEL III
QUALITY ASSURANCE/QUALITY CONTROL DOCUMENTATION

(Will be available upon request)