



January 23, 1996

ENV - STUDIES, SURVEYS & REPORTS
Former Texaco Service Station
2225 Telegraph Avenue, Oakland, CA

Mr. Raymond Maxwell
East Bay Municipal Utility District
Source Control Division, Mail Slot #702
P.O. Box 24055
375 11th Street,
Oakland, California 94623-1055

Dear Mr. Maxwell:

Enclosed is the Semi-Annual Self-Monitoring Report Summary, dated January 31, 1996, for the subject site.

Regarding the above-referenced report,

I certify under penalty of law that, to the best of my knowledge, this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Any questions regarding this report may be directed to me at (510) 236-9139.

Best Regards,

Karen E. Petryna
Project Coordinator
Texaco Environmental Services

KEP:eg
P:\COVERS\KEPCVRS\2225SEMI.CVR

Enclosure

LS 11 5 20 95
11/21/95
11/21/95

Mr. Maxwell
January 23, 1996
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cc: Mr. Thomas Peacock
Alameda County
Hazardous Materials
1131 Harbor Bay Pky
Alameda. CA 94502-6577

Mr. Tim Ross
Kaprealian Engineering Inc.
2401 Stanwell Drive, Suite 400
Concord, CA 94520

Mr. Michael Faber - Exxon

RAOFile-UCPFile (w/enclosure)
RRZielinski (w/o enclosure)

PR RD

**GENERAL NPDES PERMIT NO. CA0024660
SELF MONITORING REPORT SUMMARY
DATE SAMPLED: MONTHLY JULY 05, 1995 THRU DECEMBER 06, 1995**

Reporting Period: 07/05/95 to 12/06/95
 Permittee: Texaco Environmental Services
 Site Name: Former Texaco Service Station
 Site Address: 2225 Telegraph, Oakland, CA

Due Date: 01/31/96
 EBMUD File No: 502-27801

Company Contact: Karen Petryne
 Mailing Address: 108 Cutting Boulevard
Richmond, CA 94804
 Phone Number: (510) 236-9139

Consultant: Groundwater Technology, Inc.
 Address: 1401 Halyard Drive, Suite 140
West Sacramento, CA 95891
 Contact: Brian Garber
 Phone Number: (916) 372-4700

Any violation of waste discharge requirement during this period? Yes _____ No X
 If yes, include attachment describing violation and corrective actions taken.

GROUNDWATER DISCHARGE DATA

Sample Location	Date	Flow Rate (gpm)	Totalizer Readings (gallons)	Cumulative Volume (gallons)
Effluent	07/05/95	0.1546	560520	560520
	08/02/95	0.2653	571215	571215
	09/15/95	0.2637	587920	587920
	10/13/95	0.2458	597830	597830
	11/09/95	0.2969	609372	609372
	12/06/95	0.2734	620001	620001
Discharge Limits		1	N/A	N/A

Combined Average Flow Rate from 07/05/95 to 12/06/95: 0.25

Total Volume of Discharged Groundwater as of 12/06/95: 59481

REVISED SEMI-ANNUAL REPORTING

Sample Location	Date	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	TPH-G (ppb)
Influent	07/05/95	4.1	1.1	0.63	4.4	62
	08/02/95	ND	ND	ND	ND	ND
	09/15/95	11	1.4	ND	6.6	57
	10/13/95	27	3.5	0.86	7.4	100
	11/09/95	20	2.3	0.74	45	97
	12/06/95	11	1.8	0.56	3.8	69
Effluent	07/05/95	ND	ND	ND	ND	ND
	08/02/95	---	---	---	---	---
	09/15/95	ND	ND	ND	ND	ND
	10/13/95	ND	ND	ND	ND	ND
	11/09/95	ND	ND	ND	ND	ND
	12/06/95	ND	ND	ND	ND	ND
BT-2	07/05/95	ND	ND	ND	ND	ND
	08/02/95	1.2	ND	ND	ND	ND
	10/13/95	ND	ND	ND	ND	ND
	12/06/95	ND	ND	ND	ND	ND
BT-1 *	09/15/95	ND	ND	ND	ND	ND
*	11/09/95	ND	ND	ND	ND	ND
Discharge Limits		5	7	5	7	N/A

BT-2 = Sample port between carbon drums.

Explanation:
 TPG-G = Total petroleum hydrocarbons-as-gasoline
 --- = Not Analyzed
 gpm = Gallons per minute
 pgd = Gallons per day
 NM = Not measured
 ppb = Parts per billion
 N/A = Not applicable
 umhos/cm = Micromhos per centimeter
 g/day = Grams per day
 ND = Not detected

Note * July 05, 1995 Installed new totalizer.

Company: Groundwater Technology, Inc.
 Signature: [Signature]
 Brian H. Garber
 Project Manager

Date: 1/16/96

**SITE VISITATION FORM
FOR
WASTEWATER DISCHARGE SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

2225 TELEGRAPH OAKLAND
Site Address

Sampled By: STEVEN STREM

Date: 7-5-95

SYSTEM CHECK / READINGS

If Applicable	Yes	No	N/A
Is System Operational	X		
2nd Contain. Float Switch Working	X		
Adjust Flow Rate		X	
Filter Checked and Cleaned	X		
Strainer Checked and Cleaned	X		
Check/Add Water Conditioner			X
Calibrate LEL			X

	N/A	Field Data
Effluent Totalizer (gal)		0560520
Effluent Flow Rate (gpm)	X	
Aeration Pressure (psi)	X	
Bag Filter INFL Pressure (psi)	X	
Bag Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)	X	
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)		130
Hour Meter (hours)		03299.2

SYSTEM SAMPLING

	Sample Point <u>INF</u>	Sample Point <u>BT-1</u>	Sample Point <u>EFF</u>	Sample Point
Temperature (F)	NOT RECD	NOT RECD	NOT RECD	
pH (units)	↓	↓	↓	
Dissolved O ₂ (ppm)				
Electrical Conductivity				

WELL READINGS

NEW INSTALL

Well # R1 Well # R2 Well # _____ Well # _____

Flow Totalizer (gpm)	0000011	0862301		
Flow Rate (gpm)				
Hour Meter (hours)				

SITE VISITATION FORM
 FOR
WASTEWATER DISCHARGE SAMPLING
SYSTEM OPERATION AND MAINTENANCE
2225 TELEGRAPH, OAKLAND
 Site Address

Sampled By: STEVEN STREM

Date: 7-20-95

SYSTEM CHECK / READINGS

If Applicable	Yes	No	N/A
Is System Operational	X		
2nd Contain. Float Switch Working	Y		
Adjust Flow Rate		X	
Filter Checked and Cleaned	X		
Strainer Checked and Cleaned	Y		
Check/Add Water Conditioner			
Calibrate LEL			

	N/A	Field Data
Effluent Totalizer (gal)		0567,670
Effluent Flow Rate (gpm)	X	
Aeration Pressure (psi)	X	
Bag Filter INFL Pressure (psi)	X	
Bag Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)	X	
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)		125
Hour Meter (hours)		3357.4

SYSTEM SAMPLING

- NONE -

	Sample Point	Sample Point	Sample Point	Sample Point
Temperature (F)				
pH (units)				
Dissolved O ₂ (ppm)				
Electrical Conductivity				

WELL READINGS

FLOW METER RUNNING IN REVERSE. SWITCHED DIRECTION OF FLOW METER.

	Well # <u>R1</u>	Well # <u>R2</u>	Well # _____	Well # _____
Flow Totalizer (gpm)	9833710	0868327		
Flow Rate (gpm)				
Hour Meter (hours)				
DTW from TOC (ft)				

**SITE VISITATION FORM
FOR
WASTEWATER DISCHARGE SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

2225 TELEGRAPH OAKLAND
Site Address

Sampled By: STEVEN STREM

Date: 8-2-95

SYSTEM CHECK / READINGS

If Applicable	Yes	No	N/A
Is System Operational	X		
2nd Contain. Float Switch Working	X		
Adjust Flow Rate		X	
Filter Checked and Cleaned	X		
Strainer Checked and Cleaned	X		
Check/Add Water Conditioner			X
Calibrate LEL			X
ADDED 100ml Compressor Oil	X		

	N/A	Field Data
Effluent Totalizer (gals)		0571215
Effluent Flow Rate (gpm)	X	
Aeration Pressure (psi)	X	
Filter INFL Pressure (psi)	X	
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)	X	
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)		120
Hour Meter (hours)		3394.1

SYSTEM SAMPLING

System sampled Y ~~N~~

Monthly Qtrly Semi-Ann Annual

	Sample Point <u>INF</u>	Sample Point <u>BT-2</u>	Sample Point	Sample Point
Temperature (F)	NOT READ	NOT READ		
pH (units)	↓	↓		
Dissolved O ₂ (ppm)				
Electrical Conductivity				

WELL READINGS

Well # R1 Well # R2 Well # _____ Well # _____

Flow Totalizer (gals)	9934319	0871503		
Flow Rate (gpm)				
Hour Meter (hours)				
DTW from TOC (ft)				

... WATER

**SITE VISITATION FORM
FOR
WASTEWATER DISCHARGE SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

2225 TELEGRAPH OAKLAND
Site Address

Sampled By: STEVEN STREM

Date: 8-18-95

SYSTEM CHECK / READINGS

If Applicable	Yes	No	N/A
Is System Operational	X		
2nd Contain. Float Switch Working	X		
Adjust Flow Rate		X	
Filter Checked and Cleaned	X		
Strainer Checked and Cleaned	X		
Check/Add Water Conditioner			X
Calibrate LEL			X
<u>DRAINED WATER FROM TANK</u>	X		X

	N/A	Field Data
Effluent Totalizer (gals)		0577668
Effluent Flow Rate (gpm)	X	
Aeration Pressure (psi)	X	
Filter INFL Pressure (psi)	X	
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)	X	
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)		135
Hour Meter (hours)		03487.1

SYSTEM SAMPLING

System sampled Y N X
 Monthly Qtrly Semi-Ann Annual

	Sample Point	Sample Point	Sample Point	Sample Point
Temperature (F)				
pH (units)				
Dissolved O ₂ (ppm)				
Electrical Conductivity				

WELL READINGS

Well # R1 Well # R2 Well # _____ Well # _____

Flow Totalizer (gals)	0015788	0077575		
Flow Rate (gpm)				
Hour Meter (hours)				
DTW from TOC (ft)				

SYSTEM OPERATING

**SITE VISITATION FORM
FOR
WASTEWATER DISCHARGE SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

2225 TELEGRAPH OAKLAND
Site Address

Date: 9-15-95

Sampled By: STEVEN STREM

SYSTEM CHECK / READINGS

If Applicable	Yes	No	N/A		N/A	Field Data
Is System Operational	X					
2nd Contain. Float Switch Working	Y					
Adjust Flow Rate		X				
Filter Checked and Cleaned	X					
Strainer Checked and Cleaned	Y					
Check/Add Water Conditioner				X		
Calibrate LEL				X		
ADDED 40ml OF COMPRESSOR OIL	X					
Effluent Totalizer (gals)						0587920
Effluent Flow Rate (gpm)					X	
Aeration Pressure (psi)					X	
Filter INFL Pressure (psi)					X	
Filter EFFL Pressure (psi)					X	
Carbon Vessel #1 Pressure (psi)					X	
Carbon Vessel #2 Pressure (psi)					Y	
Air Compressor Pressure (psi)						120
Hour Meter (hours)						03641.2

SYSTEM SAMPLING

System sampled Y ~~X~~ ~~N~~

Monthly Qtrly Semi-Ann Annual

	Sample Point	Sample Point	Sample Point	Sample Point
Temperature (F)				
pH (units)				
Dissolved O ₂ (ppm)				
Electrical Conductivity				

WELL READINGS

Well # R1 Well # R2 Well # _____ Well # _____

Flow Totalizer (gals)	0081174	0887371		
Flow Rate (gpm)	CYCLED OFF	CYCLED OFF		
Hour Meter (hours)				

**SITE VISITATION FORM
FOR
WASTEWATER DISCHARGE SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

2225 TELEGRAPH OAKLAND
Site Address

Date: 9-28-95

Sampled By: STEVEN STREM

SYSTEM CHECK / READINGS

If Applicable	Yes	No	N/A
Is System Operational	X		
2nd Contain. Float Switch Working	X		
Adjust Flow Rate		X	
Filter Checked and Cleaned	X		
Strainer Checked and Cleaned	X		
Check/Add Water Conditioner			X
Calibrate LEL			X
<u>ADDED ~80ml of COMPRESSOR OIL</u>	X		

	N/A	Field Data
Effluent Totalizer (gals)		0591180
Effluent Flow Rate (gpm)	X →	1.8 gpm
Aeration Pressure (psi)	X	
Filter INFL Pressure (psi)	X	
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)	X	
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)		115
Hour Meter (hours)		03677.4

SYSTEM SAMPLING

System sampled Y N X
 Monthly Qtrly Semi-Ann Annual

	Sample Point	Sample Point	Sample Point	Sample Point
Temperature (F)				
pH (units)				
Dissovled O ₂ (ppm)				
Electrical Conductivity				

WELL READINGS

Well # R1

Well # R2

Well # _____

Well # _____

**SITE VISITATION FORM
FOR
WASTEWATER DISCHARGE SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

2225 TELEGRAPH OAKLAND
Site Address

Sampled By: STEVEN STREM

Date: 10/13/95

SYSTEM CHECK / READINGS

If Applicable	Yes	No	N/A
Is System Operational	X		
2nd Contain. Float Switch Working	X	X	
Adjust Flow Rate			
Filter Checked and Cleaned	X		
Strainer Checked and Cleaned	X		
Check/Add Water Conditioner			X
Calibrate LEL			X

	N/A	Field Data
Effluent Totalizer (gals)		0597830
Effluent Flow Rate (gpm)		1.7 gpm
Aeration Pressure (psi)	X	
Filter INFL Pressure (psi)	X	
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)	X	
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)		105
Hour Meter (hours)		0.37

SYSTEM SAMPLING

System sampled Y ~~X~~ N

Monthly Qtrly Semi-Ann Annual

	Sample Point	Sample Point	Sample Point	Sample Point
Temperature (F)				
pH (units)				
Dissolved O ₂ (ppm)				
Electrical Conductivity				

WELL READINGS

Well # R1 Well # R2 Well # _____ Well # _____

Flow Totalizer (gals)	0164817	0895420		
Flow Rate (gpm)	NOT ON CYCLE	NOT ON CYCLE		
Hour Meter (hours)				
DTW from TOC (ft)				

**SITE VISITATION FORM
FOR
WASTEWATER DISCHARGE SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

2225 TELEGRAPH CANYON
Site Address

Sampled By: STEVEN STROM

Date: 10-25-95

SYSTEM CHECK / READINGS

If Applicable	Yes	No	N/A
Is System Operational	X		
2nd Contain. Float Switch Working	X		
Adjust Flow Rate		X	
Filter Checked and Cleaned	X		
Strainer Checked and Cleaned	X		
Check/Add Water Conditioner			X
Calibrate LEL			X

	N/A	Field Data
Effluent Totalizer (gals)		0603020
Effluent Flow Rate (gpm)		1.8 gpm
Aeration Pressure (psi)	X	
Filter INFL Pressure (psi)	X	
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)	X	
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)		135
Hour Meter (hours)		037516

SYSTEM SAMPLING

System sampled Y ___ N X

Monthly Qtrly Semi-Ann Annual

	Sample Point	Sample Point	Sample Point	Sample Point
Temperature (F)				
pH (units)				
Dissovied O ₂ (ppm)				
Electrical Conductivity				

WELL READINGS

Well # R1 Well # R2 Well # _____ Well # _____

Flow Totalizer (gals)	0111243	0899109		
Flow Rate (gpm)				
Hour Meter (hours)				
DTW from TOC (ft)				

**SITE VISITATION FORM
FOR
WASTEWATER DISCHARGE SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

2225 TELEGRAPH OAKLAND
Site Address

Sampled By: STEVEN STROM

Date: 11-9-95

SYSTEM CHECK / READINGS

If Applicable	Yes	No	N/A
Is System Operational	X		
2nd Contain. Float Switch Working	X		
Adjust Flow Rate		X	
Filter Checked and Cleaned	X		
Strainer Checked and Cleaned	X		
Check/Add Water Conditioner			X
Calibrate LEL			X
ADDED ABOUT 80 ml OF OIL	X		
CHECK OIL IN COMPRESSOR	X		

	N/A	Field Data
Effluent Totalizer (gals)		0609372
Effluent Flow Rate (gpm)		
Aeration Pressure (psi)	X	
Filter INFL Pressure (psi)	X	
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)	X	
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)		110
Hour Meter (hours)		03790.0

SYSTEM SAMPLING

System sampled. Y X N

Monthly Qtrly Semi-Ann Annual

	Sample Point	Sample Point	Sample Point	Sample Point
Temperature (F)				
pH (units)				
Dissovled O ₂ (ppm)				
Electrical Conductivity				

WELL READINGS

Well # R1 Well # R2 Well # _____ Well # _____

Flow Totalizer (gals)	0117 251	0904 110		
Flow Rate (gpm)				
Hour Meter (hours)				
DTW from TOC (ft)				

**SITE VISITATION FORM
FOR
WASTEWATER DISCHARGE SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

2225 TELEGRAPH OAKLAND

Site Address

Sampled By: HECTOR MERINO

Date: 11/21/05

SYSTEM CHECK / READINGS

If Applicable	Yes	No	N/A
Is System Operational	X		
2nd Contain. Float Switch Working	X		
Adjust Flow Rate		X	
Filter Checked and Cleaned	X		
Strainer Checked and Cleaned	X		
Check/Add Water Conditioner			N/A
Calibrate LEL			N/A
<u>CHECK OIL</u>	X		

	N/A	Field Data
Effluent Totalizer (gals)		0614 083
Effluent Flow Rate (gpm)		0.96 gpm
Aeration Pressure (psi)	NA	
Filter INFL Pressure (psi)	NA	
Filter EFFL Pressure (psi)	NA	
Carbon Vessel #1 Pressure (psi)	NA	
Carbon Vessel #2 Pressure (psi)	NA	
Air Compressor Pressure (psi)		110 PSI
Hour Meter (hours)		03820

SYSTEM SAMPLING

System sampled Y___NX

Monthly Qtrly Semi-Ann Annual

	Sample Point	Sample Point	Sample Point	Sample Point
Temperature (F)				
pH (units)				
Dissolved O ₂ (ppm)				
Electrical Conductivity				

WELL READINGS

Well # R1 Well # R2 Well # _____ Well # 00

Flow Totalizer (gals)	0120 985	096 4060		51 22 mm
Flow Rate (gpm)				
Hour Meter (hours)				
DTW from TOC (ft)				

**SITE VISITATION FORM
FOR
WASTEWATER DISCHARGE SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

2225 TELEGRAPH OAKLAND
Site Address

Date: 12-6-95

Sampled By: STEVEN STREM

SYSTEM CHECK / READINGS

If Applicable	Yes	No	N/A
Is System Operational	X		
2nd Contain. Float Switch Working	X		
Adjust Flow Rate		X	
Filter Checked and Cleaned	X		
Strainer Checked and Cleaned	X		
Check/Add Water Conditioner			X
Calibrate LEL			X
<u>DRAIN COMPRESSOR (AIR)</u>	X		
<u>CHECK OIL ON COMPRESSOR</u>	X		

	N/A	Field Data
Effluent Totalizer (gals)		0620 001
Effluent Flow Rate (gpm)		0.9 gpm
Aeration Pressure (psi)	V	
Filter INFL Pressure (psi)	X	
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)	X	
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)		140
Hour Meter (hours)		3851.8

SYSTEM SAMPLING

System sampled Y ~~X~~ N
 Monthly Qtrly Semi-Ann Annual

	Sample Point	Sample Point	Sample Point	Sample Point
Temperature (F)				
pH (units)				
Dissovlved O ₂ (ppm)				
Electrical Conductivity				

WELL READINGS

Well # R1 Well # R2 Well # _____ Well # _____

Flow Totalizer (gals)	0125 809	0912 601		
Flow Rate (gpm)	NOT ON CYCLE	NOT ON CYCLE		
Hour Meter (hours)				
TOC (#)				

801 Western Avenue
Glendale, CA 91201
818/247-5737
fax: 818/247-9797

LOG NO: C95-07-004
Received: 06 JUL 95
Mailed: JUL 17 1995

Mr. Brian Garber
Groundwater Technology, Inc.
1401 Halyard Drive, Suite 140
West Sacramento, California 95691

Purchase Order: 94-1446346+4370
Requisition: 624880195
Project: FKEP1015L

REPORT OF ANALYTICAL RESULTS

Page 1

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADMS/8020)	Date Analyzed Date	Dilution Factor Times	TPH-g	Benzene	Toluene	Ethyl-Benzene	Methyl-tert-butylether	Total Xylenes Isomers	Carbon Range
					ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
RO1				1	50	0.5	0.5	0.5	10	0.5	
1*Eff	07/05/95	07/10/95		1	<50	<0.5	<0.5	<0.5	13	<0.5	C6-C12
2*BT-2	07/05/95	07/11/95		1	<50	<0.5	<0.5	<0.5	19	<0.5	C6-C12
3*Inf	07/05/95	07/11/95		1	62	4.1	1.1	0.63	34	4.4	C6-C12

Karen Petryna
2225 Telegraph Ave., Oakland
Alameda County

Marja Adriance for
Marja Adriance, Project Manager



SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP. BATCH..	ID.NO
9507004*1	Eff	GAS.BTX.TESNC	07.10.95	8015M.TX	516-24	957224 8658
9507004*2	BT-2	GAS.BTX.TESNC	07.11.95	8015M.TX	516-20	958139 8658
9507004*3	Inf	GAS.BTX.TESNC	07.11.95	8015M.TX	516-20	958139 8658

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.

ID.NO = BC Analytical employee identification number of analyst.

BC ANALYTICAL

ORDER QC REPORT FOR C9507004

DATE REPORTED : 07/17/95

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. TPH	C507016*1					
Date Analyzed	07.12.95	957224	07/12/95	07/12/95	Date	N/A
Benzene	07.12.95	957224	19.5	20.0	ug/L	98
Toluene	07.12.95	957224	21.0	20.0	ug/L	105
Ethylbenzene	07.12.95	957224	21.1	20.0	ug/L	106
Methyl-tert-butylether	07.12.95	957224	22.2	20.0	ug/L	111
Total Xylene Isomers	07.12.95	957224	65.2	60.0	ug/L	109
TPH (Gasoline Range)	07.12.95	957224	940	1000	ug/L	94
2. TPH	C507017*1					
Date Analyzed	07.13.95	957224	07/13/95	07/13/95	Date	N/A
Benzene	07.13.95	957224	19.3	20.0	ug/L	97
Toluene	07.13.95	957224	21.0	20.0	ug/L	105
Ethylbenzene	07.13.95	957224	21.6	20.0	ug/L	108
Methyl-tert-butylether	07.13.95	957224	22.8	20.0	ug/L	114
Total Xylene Isomers	07.13.95	957224	65.1	60.0	ug/L	109
TPH (Gasoline Range)	07.13.95	957224	1150	1000	ug/L	115
3. TPH	C507018*1					
Date Analyzed	07.10.95	957224	07/10/95	07/10/95	Date	N/A
Benzene	07.10.95	957224	17.1	20.0	ug/L	86
Toluene	07.10.95	957224	18.4	20.0	ug/L	92
Ethylbenzene	07.10.95	957224	19.6	20.0	ug/L	98
Methyl-tert-butylether	07.10.95	957224	22.0	20.0	ug/L	110
Total Xylene Isomers	07.10.95	957224	59.1	60.0	ug/L	99
TPH (Gasoline Range)	07.10.95	957224	960	1000	ug/L	96
4. TPH	C507013*1					
Date Analyzed	07.12.95	958139	07/12/95	07/12/95	Date	N/A
Benzene	07.12.95	958139	18.7	20.0	ug/L	94
Toluene	07.12.95	958139	18.9	20.0	ug/L	95
Ethylbenzene	07.12.95	958139	20.0	20.0	ug/L	100
Methyl-tert-butylether	07.12.95	958139	17.8	20.0	ug/L	89
Total Xylene Isomers	07.12.95	958139	60.0	60.0	ug/L	100
TPH (Gasoline Range)	07.12.95	958139	1150	1000	ug/L	115
5. TPH	C507014*1					
Date Analyzed	07.11.95	958139	07/11/95	07/11/95	Date	N/A
Benzene	07.11.95	958139	17.0	20.0	ug/L	85
Toluene	07.11.95	958139	17.1	20.0	ug/L	86
Ethylbenzene	07.11.95	958139	18.2	20.0	ug/L	91
Methyl-tert-butylether	07.11.95	958139	16.6	20.0	ug/L	83
Total Xylene Isomers	07.11.95	958139	54.8	60.0	ug/L	91
TPH (Gasoline Range)	07.11.95	958139	1040	1000	ug/L	104
6. TPH	C507015*1					
Date Analyzed	07.10.95	958139	07/10/95	07/10/95	Date	N/A
Benzene	07.10.95	958139	17.8	20.0	ug/L	89
Toluene	07.10.95	958139	17.7	20.0	ug/L	89
Ethylbenzene	07.10.95	958139	18.7	20.0	ug/L	94

BC ANALYTICAL

ORDER QC REPORT FOR C9507004

DATE REPORTED : 07/17/95

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
Methyl-tert-butylether	07.10.95	958139	17.4	20.0	ug/L	87
Total Xylene Isomers	07.10.95	958139	56.4	60.0	ug/L	94
TPH (Gasoline Range)	07.10.95	958139	1100	1000	ug/L	110

BC ANALYTICAL

ORDER QC REPORT FOR C9507004

Page 1

DATE REPORTED : 07/17/95

ADDITIONAL LCS PRECISION (DUPLICATES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	LC1 RESULT	LC2 RESULT	UNIT	RELATIVE % DIFF
1. TPH							
Date Analyzed		07.12.95	957224	07/12/95	07/13/95	Date	N/A
Benzene		07.12.95	957224	19.5	19.3	ug/L	1
Toluene		07.12.95	957224	21.0	21.0	ug/L	0
Ethylbenzene		07.12.95	957224	21.1	21.6	ug/L	2
Methyl-tert-butylether		07.12.95	957224	22.2	22.8	ug/L	3
Total Xylene Isomers		07.12.95	957224	65.2	65.1	ug/L	0
TPH (Gasoline Range)		07.12.95	957224	940	1150	ug/L	20
2. TPH							
Date Analyzed		07.12.95	958139	07/12/95	07/11/95	Date	N/A
Benzene		07.12.95	958139	18.7	17.0	ug/L	10
Toluene		07.12.95	958139	18.9	17.1	ug/L	10
Ethylbenzene		07.12.95	958139	20.0	18.2	ug/L	9
Methyl-tert-butylether		07.12.95	958139	17.8	16.6	ug/L	7
Total Xylene Isomers		07.12.95	958139	60.0	54.8	ug/L	9
TPH (Gasoline Range)		07.12.95	958139	1150	1040	ug/L	10

BC ANALYTICAL

ORDER QC REPORT FOR C9507004

Page 1

DATE REPORTED : 07/17/95

MATRIX QC ACCURACY (SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
1. TPH	9507002*4						
Benzene		07.12.95	957224	98	100	20.0	ug/L
Toluene		07.12.95	957224	102	105	20.0	ug/L
Ethylbenzene		07.12.95	957224	107	110	20.0	ug/L
Methyl-tert-butylether		07.12.95	957224	114	146	20.0	ug/L
Total Xylene Isomers		07.12.95	957224	107	108	61.6	ug/L
TPH (Gasoline Range)		07.12.95	957224	120	121	1000	ug/L
2. TPH	9507007*2						
Benzene		07.10.95	958139	89	88	20.0	ug/L
Toluene		07.10.95	958139	87	87	20.0	ug/L
Ethylbenzene		07.10.95	958139	85	93	20.0	ug/L
Methyl-tert-butylether		07.10.95	958139	94	93	20.0	ug/L
Total Xylene Isomers		07.10.95	958139	85	93	60.0	ug/L
TPH (Gasoline Range)		07.10.95	958139	95	103	1000	ug/L

BC ANALYTICAL

ORDER QC REPORT FOR C9507004

DATE REPORTED : 07/17/95

MATRIX QC PRECISION (DUPLICATE SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
1. TPH	9507002*4						
Date Analyzed		07.12.95	957224	07/12/95	07/12/95	Date	N/A
Benzene		07.12.95	957224	19.6	20.0	ug/L	2
Toluene		07.12.95	957224	20.3	20.9	ug/L	3
Ethylbenzene		07.12.95	957224	21.3	21.9	ug/L	3
Methyl-tert-butylether		07.12.95	957224	22.7	29.2	ug/L	25
Total Xylene Isomers		07.12.95	957224	65.7	66.5	ug/L	1
TPH (Gasoline Range)		07.12.95	957224	1200	1210	ug/L	1
2. TPH	9507007*2						
Date Analyzed		07.11.95	958139	07/11/95	07/11/95	Date	N/A
Benzene		07.11.95	958139	17.7	17.5	ug/L	1
Toluene		07.11.95	958139	17.3	17.4	ug/L	1
Ethylbenzene		07.11.95	958139	17.0	18.5	ug/L	8
Methyl-tert-butylether		07.11.95	958139	18.8	18.6	ug/L	1
Total Xylene Isomers		07.11.95	958139	51.1	55.9	ug/L	9
TPH (Gasoline Range)		07.11.95	958139	945	1030	ug/L	9

BC ANALYTICAL

ORDER QC REPORT FOR C9507004

DATE REPORTED : 07/17/95

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
1. TPH	B507008*1					
Date Analyzed	07.10.95	957224	07/10/95	NA	Date	8015M.TX
Benzene	07.10.95	957224	0.20	0.5	ug/L	8015M.TX
Toluene	07.10.95	957224	0.22	0.5	ug/L	8015M.TX
Ethylbenzene	07.10.95	957224	0.059	0.5	ug/L	8015M.TX
Methyl-tert-butylether	07.10.95	957224	4.1	NA	ug/L	8015M.TX
Total Xylene Isomers	07.10.95	957224	0.38	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	07.10.95	957224	4.9	50	ug/L	8015M.TX
2. TPH	B507009*1					
Date Analyzed	07.12.95	957224	07/12/95	NA	Date	8015M.TX
Benzene	07.12.95	957224	0.26	0.5	ug/L	8015M.TX
Toluene	07.12.95	957224	0.21	0.5	ug/L	8015M.TX
Ethylbenzene	07.12.95	957224	0	0.5	ug/L	8015M.TX
Methyl-tert-butylether	07.12.95	957224	0	NA	ug/L	8015M.TX
Total Xylene Isomers	07.12.95	957224	0.39	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	07.12.95	957224	7.1	50	ug/L	8015M.TX
3. TPH	B507006*1					
Date Analyzed	07.10.95	958139	07/10/95	NA	Date	8015M.TX
Benzene	07.10.95	958139	0.10	0.5	ug/L	8015M.TX
Toluene	07.10.95	958139	0.21	0.5	ug/L	8015M.TX
Ethylbenzene	07.10.95	958139	0	0.5	ug/L	8015M.TX
Methyl-tert-butylether	07.10.95	958139	2.3	NA	ug/L	8015M.TX
Total Xylene Isomers	07.10.95	958139	0.098	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	07.10.95	958139	7.1	50	ug/L	8015M.TX
4. TPH	B507007*1					
Date Analyzed	07.11.95	958139	07/11/95	NA	Date	8015M.TX
Benzene	07.11.95	958139	0.077	0.5	ug/L	8015M.TX
Toluene	07.11.95	958139	0.34	0.5	ug/L	8015M.TX
Ethylbenzene	07.11.95	958139	0	0.5	ug/L	8015M.TX
Methyl-tert-butylether	07.11.95	958139	1.5	NA	ug/L	8015M.TX
Total Xylene Isomers	07.11.95	958139	0.13	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	07.11.95	958139	8.7	50	ug/L	8015M.TX

: SURROGATE RECOVERIES :
: BC ANALYTICAL : CORD LAB : 09:33:59 17 JUL 1995 - P. 1 :
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METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE %REC	FLAG
9507004*1						
8015M.TXa	a,a,a-Trifluorotoluene	957224	07/10/95	47.1	50.0	94
9507004*2						
8015M.TXa	a,a,a-Trifluorotoluene	958139	07/11/95	49.2	50.0	98
9507004*3						
8015M.TXa	a,a,a-Trifluorotoluene	958139	07/11/95	50.1	50.0	100

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
B507006*1*MB							
8015M.TXa	a,a,a-Trifluorotoluene	958139	07/10/95	49.0	50.0	98	
B507007*1*MB							
8015M.TXa	a,a,a-Trifluorotoluene	958139	07/11/95	50.0	50.0	100	
B507008*1*MB							
8015M.TXa	a,a,a-Trifluorotoluene	957224	07/10/95	46.8	50.0	94	
B507009*1*MB							
8015M.TXa	a,a,a-Trifluorotoluene	957224	07/12/95	49.2	50.0	98	
C507013*1*LC							
8015M.TXa	a,a,a-Trifluorotoluene	958139	07/12/95	51.8	50.0	104	
C507013*1*LT							
8015M.TXa	a,a,a-Trifluorotoluene	958139	07/12/95	50.0	50.0	100	
C507014*1*LC							
8015M.TXa	a,a,a-Trifluorotoluene	958139	07/11/95	49.5	50.0	99	
C507014*1*LT							
8015M.TXa	a,a,a-Trifluorotoluene	958139	07/11/95	50.0	50.0	100	
C507015*1*LC							
8015M.TXa	a,a,a-Trifluorotoluene	958139	07/10/95	49.2	50.0	98	
C507015*1*LT							
8015M.TXa	a,a,a-Trifluorotoluene	958139	07/10/95	50.0	50.0	100	
C507016*1*LC							
8015M.TXa	a,a,a-Trifluorotoluene	957224	07/12/95	46.7	50.0	93	
C507016*1*LT							
8015M.TXa	a,a,a-Trifluorotoluene	957224	07/12/95	50.0	50.0	100	
C507017*1*LC							
8015M.TXa	a,a,a-Trifluorotoluene	957224	07/13/95	46.3	50.0	93	
C507017*1*LT							
8015M.TXa	a,a,a-Trifluorotoluene	957224	07/13/95	50.0	50.0	100	

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
C507018*1*LC							
8015M.TXa,a,a-Trifluorotoluene		957224	07/10/95	47.3	50.0	95	
C507018*1*LT							
8015M.TXa,a,a-Trifluorotoluene		957224	07/10/95	50.0	50.0	100	

BC Analytical

801 Western Avenue
Glendale, CA 91201
818/247-5737
fax: 818/247-9797

ANALYTICAL REPORT

LOG NO: C95-08-007

Received: 02 AUG 95

Mailed: AUG 11 1995

Mr. Brian Garber
Groundwater Technology, Inc.
1401 Halyard Drive, Suite 140
West Sacramento, California 95691

Purchase Order: 94-1446346+4370

Requisition: 624880195
Project: FKEP1015L

CC: Mr. Timothy R. Ross

Page 1

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)	AQUEOUS								
			Date Analyzed	Dilution Factor Times	TPH-g ug/L	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Methyl-tert-butylether ug/L	Total Xylenes Isomers ug/L	Carbon Range
				1	50	0.5	0.5	0.5	10	0.5	
RDL					<50	1.2	<0.5	<0.5	17	<0.5	C6-C12
1*BT-2	08/02/95	08/08/95		1	<50	<0.5	<0.5	<0.5	25	<0.5	C6-C12
2*Inf	08/02/95	08/08/95		1	<50	<0.5	<0.5	<0.5			

Karen Petryna
2225 Telegraph Ave., Oakland
Alameda County

Maria Adriance
Maria Adriance, Project Manager

The analytical results within this report relate only to the specific compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

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: ORDER PLACED FOR CLIENT: Groundwater Technology, Inc. 9508007 :
 : BC ANALYTICAL : COND LAB : 14:16:38 10 AUG 1995 - P. 1 :
 =====

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP. BATCH..	ID.NO
9508007*1	BT-2	GAS.BTX.TESNC	08.08.95	8015M.TX	516-20	958151 8658
9508007*2	Inf	GAS.BTX.TESNC	08.08.95	8015M.TX	516-20	958151 8658

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.
 ID.NO = BC Analytical employee identification number of analyst.

BC ANALYTICAL

ORDER QC REPORT FOR C9508007

DATE REPORTED : 08/10/95

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. TPH						
	C508021*1					
Date Analyzed	08.07.95	958151	08/07/95	08/07/95	Date	N/A
Benzene	08.07.95	958151	17.4	20.0	ug/L	87
Toluene	08.07.95	958151	18.6	20.0	ug/L	93
Ethylbenzene	08.07.95	958151	19.3	20.0	ug/L	97
Methyl-tert-butylether	08.07.95	958151	17.9	20.0	ug/L	90
Total Xylene Isomers	08.07.95	958151	60.0	60.0	ug/L	100
TPH (Gasoline Range)	08.07.95	958151	1090	1000	ug/L	109
2. TPd						
	C508022*1					
Date Analyzed	08.08.95	958151	08/08/95	08/08/95	Date	N/A
Benzene	08.08.95	958151	17.1	20.0	ug/L	86
Toluene	08.08.95	958151	18.7	20.0	ug/L	94
Ethylbenzene	08.08.95	958151	18.5	20.0	ug/L	93
Methyl-tert-butylether	08.08.95	958151	17.1	20.0	ug/L	86
Total Xylene Isomers	08.08.95	958151	57.8	60.0	ug/L	96
TPH (Gasoline Range)	08.08.95	958151	909	1000	ug/L	91

BC ANALYTICAL

ORDER QC REPORT FOR C9508007

DATE REPORTED : 08/10/95

ADDITIONAL LCS PRECISION (DUPLICATES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	LC1 RESULT	LC2 RESULT	UNIT	RELATIVE % DIFF
1. TPH							
Date Analyzed		08.07.95	958151	08/07/95	08/08/95	Date	N/A
Benzene		08.07.95	958151	17.4	17.1	ug/L	2
Toluene		08.07.95	958151	18.6	18.7	ug/L	1
Ethylbenzene		08.07.95	958151	19.3	18.5	ug/L	4
Methyl-tert-butylether		08.07.95	958151	17.9	17.1	ug/L	5
Total Xylene Isomers		08.07.95	958151	60.0	57.8	ug/L	4
TPH (Gasoline Range)		08.07.95	958151	1090	909	ug/L	18

BC ANALYTICAL

ORDER QC REPORT FOR C9508007

DATE REPORTED : 08/10/95

MATRIX QC PRECISION (DUPLICATE SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
1. TPH	9508015*1						
Date Analyzed		08.08.95	958151	08/08/95	08/08/95	Date	N/A
Benzene		08.08.95	958151	16.9	16.5	ug/L	2
Toluene		08.08.95	958151	18.2	18.1	ug/L	1
Ethylbenzene		08.08.95	958151	19.0	18.5	ug/L	3
Methyl-tert-butylether		08.08.95	958151	15.5	18.4	ug/L	17
Total Xylene Isomers		08.08.95	958151	59.6	58.0	ug/L	3
TPH (Gasoline Range)		08.08.95	958151	1060	995	ug/L	6

BC ANALYTICAL

ORDER QC REPORT FOR C9508007

DATE REPORTED : 08/10/95

MATRIX QC ACCURACY (SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
1. TPH	9508015*1						
Benzene		08.08.95	958151	85	83	20.0	ug/L
Toluene		08.08.95	958151	91	91	20.0	ug/L
Ethylbenzene		08.08.95	958151	95	93	20.0	ug/L
Methyl-tert-butylether		08.08.95	958151	78	92	20.0	ug/L
Total Xylene Isomers		08.08.95	958151	99	97	60.0	ug/L
TPH (Gasoline Range)		08.08.95	958151	106	100	1000	ug/L

BC ANALYTICAL

ORDER QC REPORT FOR C9508007

DATE REPORTED : 08/10/95

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
1. TPH						
	B508014*1					
Date Analyzed	08.07.95	958151	08/07/95	NA	Date	8015M.TX
Benzene	08.07.95	958151	0.053	0.5	ug/L	8015M.TX
Toluene	08.07.95	958151	0.16	0.5	ug/L	8015M.TX
Ethylbenzene	08.07.95	958151	0	0.5	ug/L	8015M.TX
Methyl-tert-butylether	08.07.95	958151	0	NA	ug/L	8015M.TX
Total Xylene Isomers	08.07.95	958151	0.056	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	08.07.95	958151	0	50	ug/L	8015M.TX
2. TPH						
	B508017*1					
Date Analyzed	08.08.95	958151	08/08/95	NA	Date	8015M.TX
Benzene	08.08.95	958151	0.12	0.5	ug/L	8015M.TX
Toluene	08.08.95	958151	0.39	0.5	ug/L	8015M.TX
Ethylbenzene	08.08.95	958151	0.067	0.5	ug/L	8015M.TX
Methyl-tert-butylether	08.08.95	958151	0	NA	ug/L	8015M.TX
Total Xylene Isomers	08.08.95	958151	0.30	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	08.08.95	958151	7.6	50	ug/L	8015M.TX

: SURROGATE RECOVERIES :
: BC ANALYTICAL : CORD LAB : 14:16:17 10 AUG 1995 - P. 1 :
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METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE %	REC	FLAG
9508007*1							
8015M.TXa	,a,a-Trifluorotoluene	958151	08/08/95	50.5	50.0	101	
9508007*2							
8015M.TXa	,a,a-Trifluorotoluene	958151	08/08/95	51.2	50.0	102	

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9508015*1*R1							
8015M.TXa,a,a-	Trifluorotoluene	958151	08/08/95	52.6	50.0	105	
9508015*1*S1							
8015M.TXa,a,a-	Trifluorotoluene	958151	08/08/95	50.5	50.0	101	
9508015*1*S2							
8015M.TXa,a,a-	Trifluorotoluene	958151	08/08/95	49.9	50.0	100	
9508015*1*T							
8015M.TXa,a,a-	Trifluorotoluene	958151	08/08/95	50.0	50.0	100	
B508014*1*MB							
8015M.TXa,a,a-	Trifluorotoluene	958151	08/07/95	50.8	50.0	102	
B508017*1*MB							
8015M.TXa,a,a-	Trifluorotoluene	958151	08/08/95	51.7	50.0	103	
C508021*1*LC							
8015M.TXa,a,a-	Trifluorotoluene	958151	08/07/95	49.1	50.0	98	
C508021*1*LT							
8015M.TXa,a,a-	Trifluorotoluene	958151	08/07/95	50.0	50.0	100	
C508022*1*LC							
8015M.TXa,a,a-	Trifluorotoluene	958151	08/08/95	49.8	50.0	100	
C508022*1*LT							
8015M.TXa,a,a-	Trifluorotoluene	958151	08/08/95	50.0	50.0	100	

801 Western Avenue
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Fax: 818/247-9797

LOG NO: G95-09-277

Received: 15 SEP 95

Mailed: 9-25-95

Mr. Brian Garber
Groundwater Technology, Inc.
1401 Halyard Drive, Suite 140
West Sacramento, California 95691

Purchase Order: 94-1446346+4370

Remission: 624880195
Project: FKEP1015L

CC: Mr. Timothy Ross

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REPORT OF ANALYTICAL RESULTS

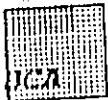
SAMPLE DESCRIPTION	DATE SAMPLED	AQUEOUS		Dilution Factor Times	TPH-g ug/L	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Methyl-tert-butylether ug/L	Total Xylenes Isomers ug/L	Carbon Range
		TPH/BTEX (CADHS/8020)	Date Analyzed Date								
RDL			1	50	0.5	0.5	0.5	10	0.5		
1*Eff	09/15/95	09/19/95	1	<50	<0.5	<0.5	<0.5	28	<0.5	<0.5	C6-C12
2*BT-1	09/15/95	09/19/95	1	<50	<0.5	<0.5	<0.5	30	<0.5	<0.5	C6-C12
3*Inf	09/15/95	09/19/95	1	57	11	1.4	<0.5	50	6.6	6.6	C6-C12

Karen Petryna
2225 Telegraph Ave., Oakland
Alameda County

Jane Freeman
Jane Freeman, Program Manager

The analytical results within this report relate only to the specific compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

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BC ANALYTICAL

ORDER QC REPORT FOR G9509277

DATE REPORTED : 09/25/95

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. TPH	C5091942*1					
Date Analyzed	09.19.95	95814	09/19/95	09/19/95	Date	N/A
Benzene	09.19.95	95814	18.4	15.2	ug/L	121
Toluene	09.19.95	95814	89.8	97.4	ug/L	92
Ethylbenzene	09.19.95	95814	25.5	20.4	ug/L	125
Total Xylene Isomers	09.19.95	95814	119	119	ug/L	100
TPH (Gasoline Range)	09.19.95	95814	1200	1100	ug/L	109
a,a,a-Trifluorotoluene Rep.	09.19.95	95814	55.8	50.0	ug/L	112
a,a,a-Trifluorotoluene Th.	09.19.95	95814	50.0	50.0	ug/L	100

BC ANALYTICAL

ORDER QC REPORT FOR G9509277

DATE REPORTED : 09/25/95

MATRIX QC PRECISION (DUPLICATE SPIKES)
 BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
1. TPH	9509299*1						
Date Analyzed		09.19.95	95814	09/19/95	09/19/95	Date	N/A
Benzene		09.19.95	95814	17.4	17.2	ug/L	1
Toluene		09.19.95	95814	88.2	88.1	ug/L	0
Ethylbenzene		09.19.95	95814	18.7	18.6	ug/L	1
Total Xylene Isomers		09.19.95	95814	111	112	ug/L	1
TPH (Gasoline Range)		09.19.95	95814	1110	1070	ug/L	4
a,a,a-Trifluorotoluene Rep.		09.19.95	95814	39.1	40.3	ug/L	3
a,a,a-Trifluorotoluene Th.		09.19.95	95814	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9509277

Page 1

DATE REPORTED : 09/25/95

MATRIX QC ACCURACY (SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
1. TPH	9509299*1						
Benzene		09.19.95	95814	114	113	15.2	ug/L
Toluene		09.19.95	95814	91	90	97.4	ug/L
Ethylbenzene		09.19.95	95814	92	91	20.4	ug/L
Total Xylene Isomers		09.19.95	95814	93	94	119	ug/L
TPH (Gasoline Range)		09.19.95	95814	101	97	1100	ug/L
a,a,a-Trifluorotoluene Rep.		09.19.95	95814	78	81	50.0	ug/L
a,a,a-Trifluorotoluene Th.		09.19.95	95814	100	100	50.0	ug/L

BC ANALYTICAL

ORDER QC REPORT FOR G9509277

Page 1

DATE REPORTED : 09/25/95

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
1. TPH	B5091071*1					
Date Analyzed	09.19.95	95814	09/19/95	NA	Date	8015M.TX
Benzene	09.19.95	95814	0	0.5	ug/L	8015M.TX
Toluene	09.19.95	95814	0	0.5	ug/L	8015M.TX
Ethylbenzene	09.19.95	95814	0	0.5	ug/L	8015M.TX
Methyl-tert-butylether	09.19.95	95814	0	NA	ug/L	8015M.TX
Total Xylene Isomers	09.19.95	95814	0	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	09.19.95	95814	0	50	ug/L	8015M.TX
a,a,a-Trifluorotoluene Rep.	09.19.95	95814	56.4	NA	ug/L	8015M.TX
a,a,a-Trifluorotoluene Th.	09.19.95	95814	50.0	NA	ug/L	8015M.TX

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 10:13:57 25 SEP 1995 - P. 1 :
=====

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9509277*1							
8015M.TXa	,a,a-Trifluorotoluene	Re95814	09/19/95	49.7	50.0	99	
9509277*2							
8015M.TXa	,a,a-Trifluorotoluene	Re95814	09/19/95	49.4	50.0	99	
9509277*3							
8015M.TXa	,a,a-Trifluorotoluene	Re95814	09/19/95	48.9	50.0	98	

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 10:13:58 25 SEP 1995 - P. 1 :
=====

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9509299*1*R1							
8015M.TXa,a,a-	Trifluorotoluene	Re95814	09/19/95	47.0	50.0	94	
9509299*1*S1							
8015M.TXa,a,a-	Trifluorotoluene	Re95814	09/19/95	39.1	50.0	78	
9509299*1*S2							
8015M.TXa,a,a-	Trifluorotoluene	Re95814	09/19/95	40.3	50.0	81	
9509299*1*T							
8015M.TXa,a,a-	Trifluorotoluene	Re95814	09/19/95	50.0	50.0	100	
B5091071*1*MB							
8015M.TXa,a,a-	Trifluorotoluene	Re95814	09/19/95	56.4	50.0	113	
C5091942*1*LC							
8015M.TXa,a,a-	Trifluorotoluene	Re95814	09/19/95	55.8	50.0	112	
C5091942*1*LT							
8015M.TXa,a,a-	Trifluorotoluene	Re95814	09/19/95	50.0	50.0	100	

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
1509277*1	Eff	GAS.BTX.TESNC	09.19.95	8015M.TX	536-32	95814	8501
1509277*2	BT-1	GAS.BTX.TESNC	09.19.95	8015M.TX	536-32	95814	8501
1509277*3	Inf	GAS.BTX.TESNC	09.19.95	8015M.TX	536-32	95814	8501

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.
ID.NO = BC Analytical employee identification number of analyst.

BC Analytical

801 Western Avenue
Glendale, CA 91201
818/247-5737
Fax: 818/247-9797

ANALYTICAL REPORT

LOG NO: G95-10-287

Received: 16 OCT 95

Mailed: OCT 26 1995

Mr. Brian Garber
Groundwater Technology, Inc.
1401 Halyard Drive, Suite 140
West Sacramento, California 95691

Purchase Order: 94-1446346+4370

Requisition: 624880195
Project: FKEP1015L

CC: Mr. Timothy Ross

Page 1

REPORT OF ANALYTICAL RESULTS

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CAOHS/BO20)	Date Analyzed	Dilution Factor Times	TPH-g	Benzene	Toluene	Ethyl-Benzene	Methyl-tert-butylether	Total Xylenes Isomers	Carbon Range
					ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
RDI				1	50	0.5	0.5	0.5	10	0.5	
1*Eff	10/13/95	10/17/95		1	<50	<0.5	<0.5	<0.5	20	<0.5	C6-C12
2*BI-2	10/13/95	10/17/95		1	<50	<0.5	<0.5	<0.5	18	<0.5	C6-C12
3*Inf	10/13/95	10/17/95		1	100	27	3.5	0.86	40	7.4	C6-C12

Karen Petryna
2225 Telegraph Ave., Oakland
Alameda County

Jahe Freemyer
Jahe Freemyer, Program Manager

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SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
9510287*1	Eff	GAS.BTX.TESNC	10.17.95	8015M.TX	536-21	95288	8501
9510287*2	BT-2	GAS.BTX.TESNC	10.17.95	8015M.TX	536-21	95288	8501
9510287*3	Inf	GAS.BTX.TESNC	10.17.95	8015M.TX	536-21	95288	8501

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.
 ID.NO = BC Analytical employee identification number of analyst.

BC ANALYTICAL

ORDER QC REPORT FOR G9510287

Page 1

DATE REPORTED : 10/26/95

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. TPH	C5102246*1					
Date Analyzed	10.17.95	95288	10/17/95	10/17/95	Date	N/A
Benzene	10.17.95	95288	18.5	15.2	ug/L	122
Toluene	10.17.95	95288	106	97.4	ug/L	109
Ethylbenzene	10.17.95	95288	20.1	20.4	ug/L	99
Total Xylene Isomers	10.17.95	95288	115	119	ug/L	97
TPH (Gasoline Range)	10.17.95	95288	1090	1100	ug/L	99
a,a,a-Trifluorotoluene Rep.	10.17.95	95288	64.0	50.0	ug/L	128
a,a,a-Trifluorotoluene Th.	10.17.95	95288	50.0	50.0	ug/L	100

BC ANALYTICAL

ORDER QC REPORT FOR G9510287

DATE REPORTED : 10/26/95

MATRIX QC ACCURACY (SPIKES)
 BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
1. TPH	9510287*1	10.17.95	95288	120	117	15.2	ug/L
Benzene		10.17.95	95288	110	103	97.4	ug/L
Toluene		10.17.95	95288	97	93	20.4	ug/L
Ethylbenzene		10.17.95	95288	97	93	119	ug/L
Total Xylene Isomers		10.17.95	95288	100	100	1100	ug/L
TPH (Gasoline Range)		10.17.95	95288	130	98	50.0	ug/L
a,a,a-Trifluorotoluene Rep.		10.17.95	95288	100	100	50.0	ug/L
a,a,a-Trifluorotoluene Th.		10.17.95	95288				

BC ANALYTICAL

ORDER QC REPORT FOR G9510287

DATE REPORTED : 10/26/95

MATRIX QC PRECISION (DUPLICATE SPIKES)
 BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
1. TPH	9510287*1					Date	N/A
Date Analyzed		10.17.95	95288	10/17/95	10/17/95	ug/L	3
Benzene		10.17.95	95288	18.3	17.8	ug/L	7
Toluene		10.17.95	95288	107	100	ug/L	4
Ethylbenzene		10.17.95	95288	19.8	19	ug/L	4
Total Xylene Isomers		10.17.95	95288	115	111	ug/L	0
TPH (Gasoline Range)		10.17.95	95288	1100	1099	ug/L	28
a,a,a-Trifluorotoluene Rep.		10.17.95	95288	65.1	48.9	ug/L	0
a,a,a-Trifluorotoluene Th.		10.17.95	95288	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9510287

DATE REPORTED : 10/26/95

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
1. TPH	B5101248*1					
Date Analyzed	10.17.95	95288	10/17/95	NA	Date	8015M.TX
Benzene	10.17.95	95288	0	0.5	ug/L	8015M.TX
Toluene	10.17.95	95288	0.13	0.5	ug/L	8015M.TX
Ethylbenzene	10.17.95	95288	0.07	0.5	ug/L	8015M.TX
Methyl-tert-butylether	10.17.95	95288	0	NA	ug/L	8015M.TX
Total Xylene Isomers	10.17.95	95288	0.13	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	10.17.95	95288	0	50	ug/L	8015M.TX
a,a,a-Trifluorotoluene Rep.	10.17.95	95288	53.6	NA	ug/L	8015M.TX
a,a,a-Trifluorotoluene Th.	10.17.95	95288	50.0	NA	ug/L	8015M.TX

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 08:58:11 26 OCT 1995 - P. 1 :
=====

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE %REC	FLAG
9510287*1						
8015M.TXa	a,a,a-Trifluorotoluene	Re95288	10/17/95	55.1	50.0	110
9510287*2						
8015M.TXa	a,a,a-Trifluorotoluene	Re95288	10/17/95	54.1	50.0	108
9510287*3						
8015M.TXa	a,a,a-Trifluorotoluene	Re95288	10/17/95	54.5	50.0	109

Table with columns: METHOD ANALYTE, BATCH, ANALYZED, REPORTED, TRUE %REC, FLAG. Rows include samples like 9510287*1*R1, 3015M.TXa,a,a-Trifluorotoluene Re95288, etc.

CHAIN OF CUSTODY RECORD

BCA Log Number 174210401

BILL TEXACO DIRECTLY

Client name: GROUNDWATER TECHNOLOGY
 Project or PO#: TES/TELEGRAPH OAKLAND
 Phone #: (916)372-4700
 Address: 101 HARVARD DR #140
 State, Zip: WEST SACRAMENTO CA, 95691
 Report attention: BRIAN GARBER

Analyses required										Hazardous sample Special handling required	Remarks	
BTEX	TPH-G											
X	X										-1	Oakland
X	X										-2	
X	X										-3	
												62488 0195
												Alameda
												KEP
												FKEP 10154
												cc: Tim Ross

Date sampled	Time sampled	Type* See key below	Sampled by	Sample description	PRESERVED		Number of containers
					ICE	HCL	
			<u>STEVEN STREM</u>				
<u>10/13/95</u>	<u>1250</u>	<u>GW</u>		<u>EFF</u>	<u>X</u>	<u>X</u>	<u>2</u>
<u>10/13/95</u>	<u>1253</u>	<u>GW</u>		<u>BT-2</u>	<u>X</u>	<u>X</u>	<u>2</u>
<u>10/13/95</u>	<u>1256</u>	<u>GW</u>		<u>INF</u>	<u>X</u>	<u>X</u>	<u>2</u>

Signature	Print Name	Company	Date	Time
<u>[Signature]</u>	<u>STEVEN STREM</u>	<u>GROUNDWATER TECHNOLOGY</u>	<u>10/16/95</u>	<u>1321</u>
<u>[Signature]</u>	<u>Maria Adniance</u>	<u>BC Analytical</u>	<u>10/16/95</u>	<u>1321</u>
<u>[Signature]</u>	<u>Maria Adniance</u>	<u>BC Analytical</u>	<u>10/16/95</u>	<u>1700</u>

BC ANALYTICAL
 1000 University Circle, Concord, CA 94518 (510) 825-3894
 1515 Western Avenue, Glendale, CA 91201 (818) 247-5737

Note: Samples are discarded 30 days after results are reported unless other arrangements are made
 Hazardous samples will be returned to client or disposed of at client's expense
 Disposal arrangements: _____

*KEY: AG: Aqueous NA: Nonaqueous Sl: Sludge
 GW: Groundwater SO: Soil PE: Petroleum

801 Western Avenue
Glendale, CA 91201
818/247-5131
Fax: 818/247-9797

LOG NO: G95-11-198

Received: 09 NOV 95

Mailed: **NOV 15 1995**

Mr. Brian Garber
Groundwater Technology, Inc.
1401 Halyard Drive, Suite 140
West Sacramento, California 95601

Purchase Order: 94-1446346+4370

Requisition: 624880195
Project: FKEP1015L

CC: Mr. Timothy Ross

Page 1

REPORT OF ANALYTICAL RESULTS

AQUEOUS

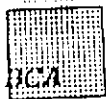
SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CAOHS/8020)	Date Analyzed Date	Dilution Factor Times	TPH-g	Benzene	Toluene	Ethyl-Benzene	Methyl-tert-butylether	Total Xylenes isomers	Carbon Range
					ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
ROI				1	50	0.5	0.5	0.5	10	0.5	
1*Lf	11/09/95	11/10/95	11/10/95	1	<50	<0.5	<0.5	<0.5	19	<0.5	C6-C12
2*BT-1	11/09/95	11/13/95	11/13/95	1	<50	<0.5	<0.5	<0.5	18	<0.5	C6-C12
3*Lf	11/09/95	11/13/95	11/13/95	1	97	20	2.3	0.74	45	8.5	C6-C12

Karen Petryna
2225 Telegraph Ave., Oakland
Alameda County

Jane Freemyer
Jane Freemyer, Laboratory Director

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: ORDER PLACED FOR CLIENT: Groundwater Technology, Inc. 9511198 :
 : BC ANALYTICAL : GLEN LAB : 12:52:01 15 NOV 1995 - P. 1 :
 =====

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
9511198*1	Eff	GAS.BTX.TESNC	11.10.95	8015M.TX	536-21	952106	6843
9511198*2	BT-1	GAS.BTX.TESNC	11.13.95	8015M.TX	536-23	955153	6843
9511198*3	Inf	GAS.BTX.TESNC	11.13.95	8015M.TX	536-23	955153	6843

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.

ID.NO = BC Analytical employee identification number of analyst.

BC ANALYTICAL

ORDER QC REPORT FOR G9511198

DATE REPORTED : 11/15/95

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. GRO	C5111234*1					
Date Analyzed	11.10.95	952106	11/10/95	11/10/95	Date	N/A
Benzene	11.10.95	952106	18.9	15.2	ug/L	124
Toluene	11.10.95	952106	107	97.4	ug/L	110
Ethylbenzene	11.10.95	952106	19.9	20.4	ug/L	98
Total Xylene Isomers	11.10.95	952106	116	119	ug/L	97
TPH (Gasoline Range)	11.10.95	952106	1170	1100	ug/L	106
a,a,a-Trifluorotoluene Rep.	11.10.95	952106	64.3	50.0	ug/L	129
a,a,a-Trifluorotoluene Th.	11.10.95	952106	50.0	50.0	ug/L	100
2. GRO	C5111287*1					
Date Analyzed	11.13.95	955153	11/13/95	11/13/95	Date	N/A
Benzene	11.13.95	955153	16.5	15.2	ug/L	109
Toluene	11.13.95	955153	87.5	97.4	ug/L	90
Ethylbenzene	11.13.95	955153	18.5	20.4	ug/L	91
Total Xylene Isomers	11.13.95	955153	105	119	ug/L	88
TPH (Gasoline Range)	11.13.95	955153	988	1100	ug/L	90
a,a,a-Trifluorotoluene Rep.	11.13.95	955153	54.5	50.0	ug/L	109
a,a,a-Trifluorotoluene Th.	11.13.95	955153	50.0	50.0	ug/L	100

BC ANALYTICAL

ORDER QC REPORT FOR G9511198

DATE REPORTED : 11/15/95

MATRIX QC ACCURACY (SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
1. GRO	9511198*1						
Benzene		11.10.95	952106	115	120	15.2	ug/L
Toluene		11.10.95	952106	99	105	97.4	ug/L
Ethylbenzene		11.10.95	952106	89	94	20.4	ug/L
Total Xylene Isomers		11.10.95	952106	88	92	119	ug/L
TPH (Gasoline Range)		11.10.95	952106	104	105	1100	ug/L
a,a,a-Trifluorotoluene Rep.		11.10.95	952106	93	97	50.0	ug/L
a,a,a-Trifluorotoluene Th.		11.10.95	952106	100	100	50.0	ug/L
2. GRO	9510998*1						
Benzene		11.13.95	955153	89	92	15.2	ug/L
Toluene		11.13.95	955153	89	91	97.4	ug/L
Ethylbenzene		11.13.95	955153	94	95	20.4	ug/L
Total Xylene Isomers		11.13.95	955153	90	92	119	ug/L
TPH (Gasoline Range)		11.13.95	955153	92	99	1100	ug/L
a,a,a-Trifluorotoluene Rep.		11.13.95	955153	102	103	50.0	ug/L
a,a,a-Trifluorotoluene Th.		11.13.95	955153	100	100	50.0	ug/L

BC ANALYTICAL

ORDER QC REPORT FOR G9511198

DATE REPORTED : 11/15/95

MATRIX QC PRECISION (DUPLICATE SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
1. GRO	9511198*1						
Date Analyzed		11.10.95	952106	11/10/95	11/10/95	Date	N/A
Benzene		11.10.95	952106	17.5	18.2	ug/L	4
Toluene		11.10.95	952106	96.9	102	ug/L	5
Ethylbenzene		11.10.95	952106	18.1	19.1	ug/L	5
Total Xylene Isomers		11.10.95	952106	105	110	ug/L	5
TPH (Gasoline Range)		11.10.95	952106	1140	1160	ug/L	2
a,a,a-Trifluorotoluene Rep.		11.10.95	952106	46.3	48.4	ug/L	4
a,a,a-Trifluorotoluene Th.		11.10.95	952106	50.0	50.0	ug/L	0
2. GRO	9510998*1						
Date Analyzed		11.13.95	955153	11/13/95	11/13/95	Date	N/A
Benzene		11.13.95	955153	13.6	14.0	ug/L	3
Toluene		11.13.95	955153	87.0	89.0	ug/L	2
Ethylbenzene		11.13.95	955153	19.1	19.4	ug/L	2
Total Xylene Isomers		11.13.95	955153	107	109	ug/L	2
TPH (Gasoline Range)		11.13.95	955153	1010	1090	ug/L	8
a,a,a-Trifluorotoluene Rep.		11.13.95	955153	51.0	51.7	ug/L	1
a,a,a-Trifluorotoluene Th.		11.13.95	955153	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9511198

DATE REPORTED : 11/15/95

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
1. GRO	B511683*1					
Date Analyzed	11.10.95	952106	11/10/95	NA	Date	8015M.TX
Benzene	11.10.95	952106	0	0.5	ug/L	8015M.TX
Toluene	11.10.95	952106	0.22	0.5	ug/L	8015M.TX
Ethylbenzene	11.10.95	952106	0	0.5	ug/L	8015M.TX
Methyl-tert-butylether	11.10.95	952106	0	NA	ug/L	8015M.TX
Total Xylene Isomers	11.10.95	952106	0.24	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	11.10.95	952106	0	50	ug/L	8015M.TX
a,a,a-Trifluorotoluene Rep.	11.10.95	952106	51.1	NA	ug/L	8015M.TX
a,a,a-Trifluorotoluene Th.	11.10.95	952106	50.0	NA	ug/L	8015M.TX
2. GRO	B511725*1					
Date Analyzed	11.13.95	955153	11/13/95	NA	Date	8015M.TX
Benzene	11.13.95	955153	0	0.5	ug/L	8015M.TX
Toluene	11.13.95	955153	0	0.5	ug/L	8015M.TX
Ethylbenzene	11.13.95	955153	0	0.5	ug/L	8015M.TX
Methyl-tert-butylether	11.13.95	955153	0	NA	ug/L	8015M.TX
Total Xylene Isomers	11.13.95	955153	0	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	11.13.95	955153	0	50	ug/L	8015M.TX
a,a,a-Trifluorotoluene Rep.	11.13.95	955153	49.6	NA	ug/L	8015M.TX
a,a,a-Trifluorotoluene Th.	11.13.95	955153	50.0	NA	ug/L	8015M.TX

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9511198*1							
8015M.TXa	,a,a-Trifluorotoluene	Re952106	11/10/95	54.6	50.0	109	
9511198*2							
8015M.TXa	,a,a-Trifluorotoluene	Re955153	11/13/95	48.0	50.0	96	
9511198*3							
8015M.TXa	,a,a-Trifluorotoluene	Re955153	11/13/95	49.4	50.0	99	

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9510998*1*R1							
8015M.TXa	a,a,a-Trifluorotoluene	Re955153	11/13/95	51.9	50.0	104	
9510998*1*S1							
8015M.TXa	a,a,a-Trifluorotoluene	Re955153	11/13/95	51.0	50.0	102	
9510998*1*S2							
8015M.TXa	a,a,a-Trifluorotoluene	Re955153	11/13/95	51.7	50.0	103	
9510998*1*T							
8015M.TXa	a,a,a-Trifluorotoluene	Re955153	11/13/95	50.0	50.0	100	
9511198*1*R1							
8015M.TXa	a,a,a-Trifluorotoluene	Re952106	11/10/95	54.6	50.0	109	
9511198*1*S1							
8015M.TXa	a,a,a-Trifluorotoluene	Re952106	11/10/95	46.3	50.0	93	
9511198*1*S2							
8015M.TXa	a,a,a-Trifluorotoluene	Re952106	11/10/95	48.4	50.0	97	
9511198*1*T							
8015M.TXa	a,a,a-Trifluorotoluene	Re952106	11/10/95	50.0	50.0	100	
B511683*1*MB							
8015M.TXa	a,a,a-Trifluorotoluene	Re952106	11/10/95	51.1	50.0	102	
B511725*1*MB							
8015M.TXa	a,a,a-Trifluorotoluene	Re955153	11/13/95	49.6	50.0	99	
C5111234*1*LC							
8015M.TXa	a,a,a-Trifluorotoluene	Re952106	11/10/95	64.3	50.0	129	
C5111234*1*LT							
8015M.TXa	a,a,a-Trifluorotoluene	Re952106	11/10/95	50.0	50.0	100	
C5111287*1*LC							
8015M.TXa	a,a,a-Trifluorotoluene	Re955153	11/13/95	54.5	50.0	109	
C5111287*1*LT							
8015M.TXa	a,a,a-Trifluorotoluene	Re955153	11/13/95	50.0	50.0	100	

CHAIN OF CUSTODY RECORD

Company: GROUNDWATER TECHNOLOGY
 Address: 1401 HALYARD DR #140
 City/State/Zip: WEST SACRAMENTO CA 95691

Project or PO# 02070008
TES/TELEGRAPH/OKLAND
 Phone # (916)372-4700

Report attention: BRIAN GARBER

Date sampled	Time sampled	Type See key below	Sampled by <u>STEVEN STREM</u>	Sample description	PERCENTAGE		Number of containers	Analyses required	Hazardous sample Special handling required	Remarks
					ICE	HCL				
11-9-95	1143			EFF	X	X	2			-1 Sample condition
11-9-95	1145			BTI	X	X	2			-2 Good
11-9-95	1147			INF	X	X	2			-3 Samples received on ICE

BTX
 TPH-G

2225 Telegraph Ave
 624880195
 Alameda
 KEP
 FKEPI015L
 CC: Tim Ross

Signature	Print Name	Company	Date	Time
	STEVEN STREM	GROUNDWATER TECHNOLOGY	11-9-95	1309
	Jan Winter	BCA	11/9/95	1309
	Jan Winter	BCA	11/9/95	1309

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

*KEY: AQ—Aqueous NA—Nonaqueous SL—Sludge
 GW—Groundwater SO—Soil PE—Petroleum
 WW—Wastewater

301 Western Avenue
Glendale, CA 91201
818/247-5737
Fax: 818/247-9797

LOG NO: G95-12-104
Received: 06 DEC 95
Mailed: DEC 15 1995

Mr. Brian Garber
Groundwater Technology, Inc.
1401 Halyard Drive, Suite 140
West Sacramento, California 95691

Purchase Order: 94-1446346+4370
Requisition: 624880195
Project: FKEP1015L

REPORT OF ANALYTICAL RESULTS

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)	Date Analyzed Date	Dilution Factor Times	TPH-g	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	Carbon Range
					ug/L	ug/L	ug/L	ug/L	ug/L	
				1	50	0.5	0.5	0.5	0.5	
RDI					<50	<0.5	<0.5	<0.5	<0.5	C6-C12
1-III	12/06/95	12/08/95		1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
2-III-2	12/06/95	12/08/95		1	69	11	1.8	0.56	3.6	C6-C12
3-III	12/06/95	12/08/95		1						

Karen Petryna
2225 Telegraph, Oakland
ALAMEDA COUNTY.

Jane Freeman
Jane Freeman, Laboratory Director

The analytical results within this report relate only to the specific compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

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COPY



SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP. BATCH..	ID.NO
9512104*1	EFF	GAS.BTX.TESNC	12.08.95	8015M.TX	536-21	952129 8501
9512104*2	BT-2	GAS.BTX.TESNC	12.08.95	8015M.TX	536-23	955178 8171
9512104*3	INF	GAS.BTX.TESNC	12.08.95	8015M.TX	536-21	952129 8501

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.
 ID.NO = BC Analytical employee identification number of analyst.

BC ANALYTICAL

ORDER QC REPORT FOR G9512104

DATE REPORTED : 12/15/95

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. GRO	C512849*1					
Date Analyzed	12.08.95	952129	12/08/95	12/08/95	Date	N/A
Benzene	12.08.95	952129	19.6	15.2	ug/L	129
Toluene	12.08.95	952129	108	97.4	ug/L	111
Ethylbenzene	12.08.95	952129	20.6	20.4	ug/L	101
Total Xylene Isomers	12.08.95	952129	108	119	ug/L	91
TPH (Gasoline Range)	12.08.95	952129	1130	1100	ug/L	103
a,a,a-Trifluorotoluene Rep.	12.08.95	952129	43.6	50.0	ug/L	87
a,a,a-Trifluorotoluene Th.	12.08.95	952129	50.0	50.0	ug/L	100
2. GRO	C512829*1					
Date Analyzed	12.08.95	955178	12/08/95	12/08/95	Date	N/A
Benzene	12.08.95	955178	14.9	15.2	ug/L	98
Toluene	12.08.95	955178	91.5	97.4	ug/L	94
Ethylbenzene	12.08.95	955178	18.9	20.4	ug/L	93
Total Xylene Isomers	12.08.95	955178	113	119	ug/L	95
TPH (Gasoline Range)	12.08.95	955178	1050	1100	ug/L	95
a,a,a-Trifluorotoluene Rep.	12.08.95	955178	57.8	50.0	ug/L	116
a,a,a-Trifluorotoluene Th.	12.08.95	955178	50.0	50.0	ug/L	100

BC ANALYTICAL

ORDER QC REPORT FOR G9512104

Page 1

DATE REPORTED : 12/15/95

MATRIX QC ACCURACY (SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
1. GRO	9512104*1						
Benzene		12.08.95	952129	120	122	15.2	ug/L
Toluene		12.08.95	952129	102	103	97.4	ug/L
Ethylbenzene		12.08.95	952129	93	92	20.4	ug/L
Total Xylene Isomers		12.08.95	952129	84	84	119	ug/L
TPH (Gasoline Range)		12.08.95	952129	105	108	1100	ug/L
a,a,a-Trifluorotoluene Rep.		12.08.95	952129	117	113	50.0	ug/L
a,a,a-Trifluorotoluene Th.		12.08.95	952129	100	100	50.0	ug/L
2. GRO	9512104*2						
Benzene		12.08.95	955178	96	92	15.2	ug/L
Toluene		12.08.95	955178	91	88	97.4	ug/L
Ethylbenzene		12.08.95	955178	89	86	20.4	ug/L
Total Xylene Isomers		12.08.95	955178	92	88	119	ug/L
TPH (Gasoline Range)		12.08.95	955178	103	100	1100	ug/L
a,a,a-Trifluorotoluene Rep.		12.08.95	955178	109	108	50.0	ug/L
a,a,a-Trifluorotoluene Th.		12.08.95	955178	100	100	50.0	ug/L

BC ANALYTICAL

ORDER QC REPORT FOR G9512104

DATE REPORTED : 12/15/95

MATRIX QC PRECISION (DUPLICATE SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
1. GRO	9512104*1						
Date Analyzed		12.08.95	952129	12/08/95	12/08/95	Date	N/A
Benzene		12.08.95	952129	18.3	18.6	ug/L	2
Toluene		12.08.95	952129	99.0	100	ug/L	1
Ethylbenzene		12.08.95	952129	18.9	18.7	ug/L	1
Total Xylene Isomers		12.08.95	952129	99.6	100	ug/L	0
TPH (Gasoline Range)		12.08.95	952129	1160	1190	ug/L	3
a,a,a-Trifluorotoluene Rep.		12.08.95	952129	58.4	56.5	ug/L	3
a,a,a-Trifluorotoluene Th.		12.08.95	952129	50.0	50.0	ug/L	0
2. GRO	9512104*2						
Date Analyzed		12.08.95	955178	12/08/95	12/08/95	Date	N/A
Benzene		12.08.95	955178	14.6	14.0	ug/L	4
Toluene		12.08.95	955178	88.9	85.4	ug/L	4
Ethylbenzene		12.08.95	955178	18.2	17.5	ug/L	4
Total Xylene Isomers		12.08.95	955178	109	105	ug/L	4
TPH (Gasoline Range)		12.08.95	955178	1130	1100	ug/L	3
a,a,a-Trifluorotoluene Rep.		12.08.95	955178	54.5	54.2	ug/L	1
a,a,a-Trifluorotoluene Th.		12.08.95	955178	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9512104

DATE REPORTED : 12/15/95

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
1. GRO	B512447*1					
Date Analyzed	12.08.95	952129	12/08/95	NA	Date	8015M.TX
Benzene	12.08.95	952129	0	0.5	ug/L	8015M.TX
Toluene	12.08.95	952129	0.28	0.5	ug/L	8015M.TX
Ethylbenzene	12.08.95	952129	0	0.5	ug/L	8015M.TX
Total Xylene Isomers	12.08.95	952129	0.14	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	12.08.95	952129	0	50	ug/L	8015M.TX
a,a,a-Trifluorotoluene Rep.	12.08.95	952129	47.4	NA	ug/L	8015M.TX
a,a,a-Trifluorotoluene Th.	12.08.95	952129	50.0	NA	ug/L	8015M.TX
2. GRO	B512434*1					
Date Analyzed	12.08.95	955178	12/08/95	NA	Date	8015M.TX
Benzene	12.08.95	955178	0	0.5	ug/L	8015M.TX
Toluene	12.08.95	955178	0	0.5	ug/L	8015M.TX
Ethylbenzene	12.08.95	955178	0	0.5	ug/L	8015M.TX
Total Xylene Isomers	12.08.95	955178	0	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	12.08.95	955178	0	50	ug/L	8015M.TX
a,a,a-Trifluorotoluene Rep.	12.08.95	955178	48.1	NA	ug/L	8015M.TX
a,a,a-Trifluorotoluene Th.	12.08.95	955178	50.0	NA	ug/L	8015M.TX

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 15:17:29 15 DEC 1995 - P. 1 :
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METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9512104*1							
8015M.TXa	a,a-Trifluorotoluene	Re952129	12/08/95	50.2	50.0	100	
9512104*2							
8015M.TXa	a,a-Trifluorotoluene	Re955178	12/08/95	54.2	50.0	108	
9512104*3							
8015M.TXa	a,a-Trifluorotoluene	Re952129	12/08/95	47.9	50.0	96	

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9512104*1*R1							
8015M.TXa,a,a-	Trifluorotoluene	Re952129	12/08/95	50.2	50.0	100	
9512104*1*S1							
8015M.TXa,a,a-	Trifluorotoluene	Re952129	12/08/95	58.4	50.0	117	
9512104*1*S2							
8015M.TXa,a,a-	Trifluorotoluene	Re952129	12/08/95	56.5	50.0	113	
9512104*1*T							
8015M.TXa,a,a-	Trifluorotoluene	Re952129	12/08/95	50.0	50.0	100	
9512104*2*R1							
8015M.TXa,a,a-	Trifluorotoluene	Re955178	12/08/95	54.2	50.0	108	
9512104*2*S1							
8015M.TXa,a,a-	Trifluorotoluene	Re955178	12/08/95	54.5	50.0	109	
9512104*2*S2							
8015M.TXa,a,a-	Trifluorotoluene	Re955178	12/08/95	54.2	50.0	108	
9512104*2*T							
8015M.TXa,a,a-	Trifluorotoluene	Re955178	12/08/95	50.0	50.0	100	
B512434*1*MB							
8015M.TXa,a,a-	Trifluorotoluene	Re955178	12/08/95	48.1	50.0	96	
B512447*1*MB							
8015M.TXa,a,a-	Trifluorotoluene	Re952129	12/08/95	47.4	50.0	95	
C512829*1*LC							
8015M.TXa,a,a-	Trifluorotoluene	Re955178	12/08/95	57.8	50.0	116	
C512829*1*IT							
8015M.TXa,a,a-	Trifluorotoluene	Re955178	12/08/95	50.0	50.0	100	
C512849*1*LC							
8015M.TXa,a,a-	Trifluorotoluene	Re952129	12/08/95	43.6	50.0	87	
C512849*1*IT							
8015M.TXa,a,a-	Trifluorotoluene	Re952129	12/08/95	50.0	50.0	100	

