BASELINE

ENVIRONMENTAL CONSULTING

15 June 1994 S9105-AO

Mr. Francis Collins Banta Collins 6000 Hollis Street Emeryville, CA 94608

Subject: Groundwater Monitoring Report, 6050 Hollis Street, Emeryville, California -

May 1994

Dear Mr. Collins:

This letter documents the recent groundwater sampling event performed by BASELINE at 6050 Hollis Street, Emeryville, California (Figure 1). A 500-gallon underground fuel tank was removed from the site in 1987. In February 1989, monitoring well MW-H1 was installed immediately downgradient of the former tank location. Installation of the well is documented in a BASELINE report titled Documentation for Monitoring Well Installation at 6050 Hollis Street, Emeryville dated 8 March 1989. Two additional monitoring wells, MW-H2 and MW-H3, were installed on the site and sampled in 1991 as documented in a BASELINE report titled Documentation of Well Installation, Soil Sampling, and Groundwater Sampling at 6050 Hollis Street, Emeryville, California dated 28 October 1991.

Groundwater Sampling

Groundwater samples were collected from wells MW-H1, MW-H2, and MW-H3 on 24 May 1994 by a BASELINE geologist (Figure 1). The water levels were measured in each well using a dual interface probe prior to purging; the potential presence of floating product was also checked; no floating product was identified in any of the wells. The probe was decontaminated between wells by washing with a trisodium phosphate solution and rinsing with deionized water. A minimum of three and a half well volumes were slowly removed from each well using a double diaphragm pump and new disposable tubing. The wells were purged until the temperature, pH, and electrical conductivity of the groundwater had stabilized. Water levels were allowed to recharge to approximately 90 percent of the original levels before the samples were collected. The purged water and decontamination water were placed into a 55-gallon

S9105.694-6/13/94

Baselin E

Mr. Francis Collins 15 June 1994 Page 2

sealed and labeled drum on-site for temporary storage. Groundwater sampling forms are included as Attachment A.

New disposable PVC bailers were used to collect groundwater samples from the monitoring wells. The portions of the samples that were to be analyzed for TPH as gasoline and BTEX were decanted into VOA vials from the bottom of the bailers using volatile organic compound (VOC) attachments to minimize turbulence and volatilization. The filled vials were checked to ensure that bubbles were not trapped in the bottles. The portion of the sample that was to be analyzed for TPH as diesel and kerosene was decanted directly into amber glass from the bottom of the bailer without the use of the VOC attachment. The sample bottles were labeled, placed in a cooler with blue ice, and transported for analysis to Curtis & Tompkins, a California certified laboratory.

Findings

The samples collected from wells MW-H1, MW-H2, and MW-H3 had a clear appearance. Groundwater levels in wells MW-H1, MW-H2, and MW-H3 were measured to be 3.98, 6.30, and 3.88 feet below top of casing, respectively (Table 1); the shallowest groundwater levels recorded to date. The groundwater flow direction on 24 May 1994 was determined to be in the N20°W direction at a gradient of 0.037 feet/foot. This is a significant change in direction from previous measurements. The groundwater flow direction and magnitude were calculated using wells MW-H1, MW-H2, and MW-H3. A summary of groundwater flow directions and magnitude during previous and present sampling events are summarized in Table 2.

TPH as gasoline and diesel were identified in the samples from MW-H1 and MW-H3 at concentrations above the reporting limit. Benzene, ethylbenzene, and total xylenes were identified in the sample from MW-H1 above the reporting limit.

BTXE or TPH were not identified in MW-H2.

A summary of analytical results from previous and current sampling events is summarized in Table 3, and the laboratory results are included in Attachment A.

BASELINE

Mr. Francis Collins 15 June 1994 Page 3

Should you have any questions or need additional information, please do not hesitate to contact us at your convenience.

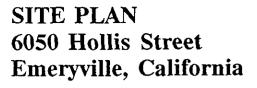
Sincerely,

Yane Nordhav R.G. No. 4009

YN/LH/tt Attachments Bill Scott Geologist

Sell Scotter

Figure 1



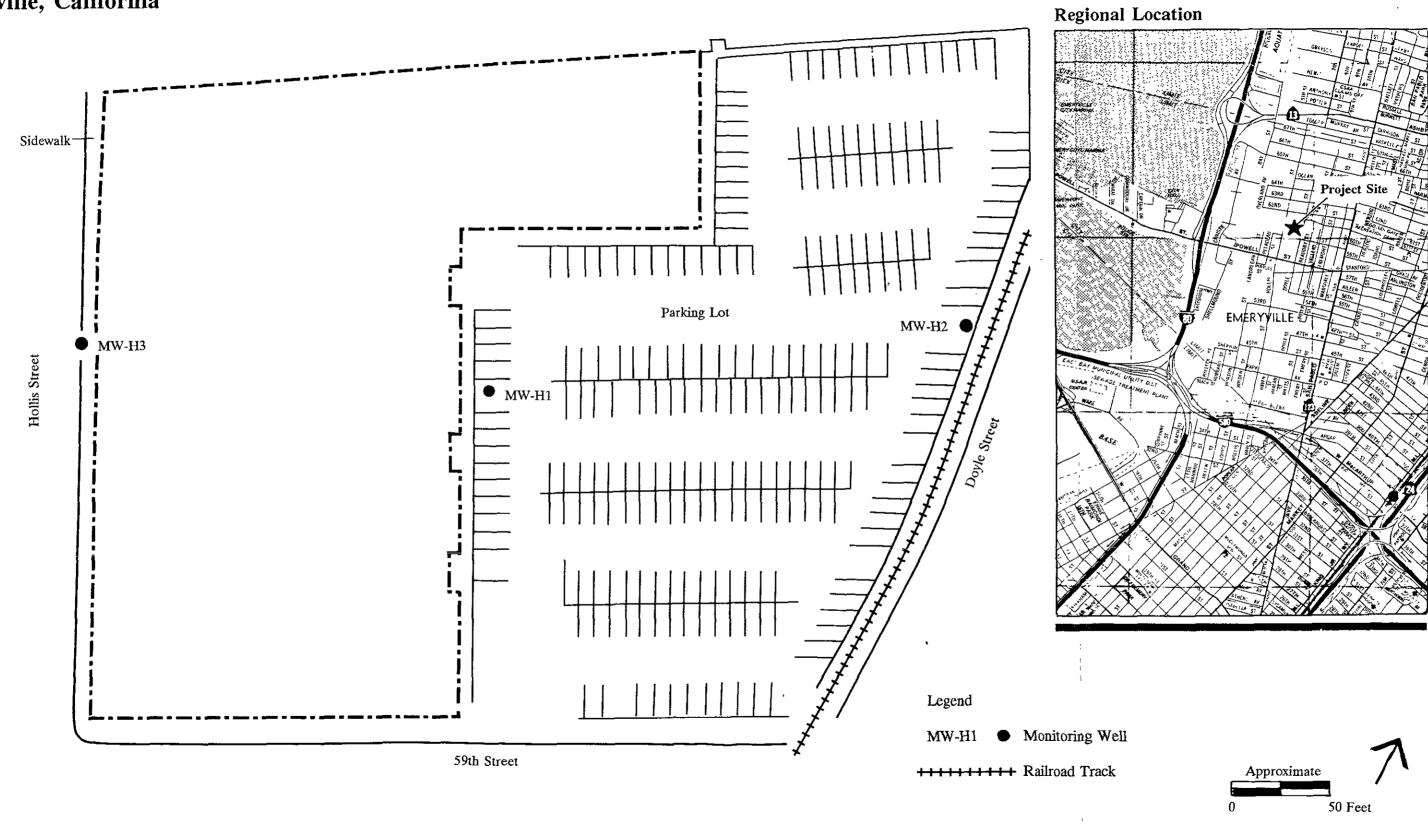


TABLE 1

GROUNDWATER LEVEL MEASUREMENTS
6050 Hollis Street, Emeryville

Well	Date	Depth to Water from TOC (feet)	Elevation of TOC (feet msl)	Groundwater Elevation (feet msl)
MW-H1	02/08/89	4.85	18.90	14.05
	05/01/89	5.10		13.80
	09/13/89	5.80		13.10
	12/04/89	5.34		13.56
	03/26/90	6.42		12.48
	07/24/90	5.93		12.97
	11/16/90	5.80		13.10
	03/15/91	4.30		14.60
	09/11/91	5.71		13.19
	09/24/91	5.80		13.10
	05/24/94	3.98		14.92
MW-H2	09/11/91	6.84	21.48	14.64
	09/24/91	6.86		14.62
	05/24/94	6.30		15.18
MW-H3	09/11/91	4.84	16.95	12.11
	09/24/91	4.81		12.14
	05/24/94	3.88		13.07

Notes:

msl = mean sea level.

Well locations and groundwater flow directions are shown in Figure 1.

TABLE 2

GROUNDWATER FLOW DIRECTIONS AND MAGNITUDE 6050 Hollis Street, Emeryville

Date	Groundwater Flow Direction	Magnitude (feet/feet)
9/11/91	S30W	0.0068
9/24/91	\$13W	0.0099
5/24/94	N20W	0.037

Notes: Groundwater flow direction and magnitude were determined graphically for by three-point method using wells MW-H1, MW-H2 and MW-H3.

TABLE 3

SUMMARY OF ANALYTICAL RESULTS, GROUNDWATER 6050 Hollis Street, Emeryville (mg/L)

Well	Date	TPH as Gasoline ¹	TPH as Diesel ²	TPH as Kerosene ²	Benzene ³	Toluene ³	Ethylbenzene ³	Xylenes ³
MW-H1	02/10/89	<0.05	<0.5	<0.5	< 0.001	< 0.001	< 0.001	<0.001
	05/01/89	< 0.05	<0.5	< 0.5	< 0.001	< 0.001	< 0.001	< 0.001
	09/13/89	1.3	<0.5	< 0.5	0.061	< 0.0005	0.005	0.002
	12/04/89	0.41/0.37	<0.5/<0.5	<0.5/<0.5	0.0072/0.011	0.0032/0.0024	0.0028/0.0014	0.0032/0.0013
	03/26/90	0.7	<0.5	<0.5	0.093	0.001	0.0017	< 0.001
	06/14/904	0.344	0.082^{4}	< 0.054	0.0164	< 0.0014	< 0.0014	< 0.0014
	07/24/90	0.14	< 0.5	< 0.5	0.006	< 0.0005	< 0.0005	0.0009
	11/16/90	1.1	0.55	< 0.05	0.016	0.0009	0,0018	0.0015
	03/15/91	0.98/1.0	<0.05/<0.05	<0.05/<0.05	0.02/0.017	0.0006/<0.0005	0,0022/0,0019	0.0025/0.0022
	09/11/91	1.0	0.39	< 0.05	0.015	0.0056	0.0027	0.0029
	05/24/94	3.4	0.28	6	0.021	<0.0005	0.010	0.0067
MW-112	09/11/91	<0.05	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
	05/24/94	<0.05	<0.05	< 0.05	<0.0005	< 0.0005	<0.0005	<0.0005
MW-H3	09/11/91	<0.05/<0.05	0.12/0.22	<0.05/<0.05	<0.0005/<0.0005	<0.0005/<0.0005	<0.0005/<0 0005	<0.0005/<0.0005
	05/24/94	0.1105	0.110	6	< 0.0005	< 0.0005	< 0.0005	< 0.0005
 Field	06/14/90 ⁴	<0.05	0.0624	< 0.05	<0.001	<0.001	<0.00	<0.001
Blanks	07/24/90	<0.05	<0.5	<0.5	< 0.0005	<0.0005	<0.0005	<0.005
	11/16/90	<0.05	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.005

Analyzed by EPA Methods 5030/8015 Modified (some of the laboratory reports cite the California DHS Luft Manual).

Notes: Number(s) shown in bold are concentrations identified above detection limit(s).

Well locations are shown in Figure 2.

Groundwater sampling forms and analytical results for the most recent sampling are in Attachment A. xx/xx indicates duplicate samples.

² Analyzed by EPA Methods 3510 or 3550/8015 Modified (some of the laboratory reports cite the California DHS Luft Manual).

Analyzed by EPA Methods 5030/8020.

The field blank for 6/14/90 sampling contained diesel at 0.062 mg/L, therefore all analytical results for MW-III for that date may be enoneous.

Laboratory report indicates that the chromatogram does not resemble gasoline standard.

⁶ Quantitated as diesel due to overlap of hydrocarbon ranges.

ATTACHMENT A

GROUNDWATER SAMPLING FORMS AND LABORATORY REPORT

GROUNDWATER SAMPLING

Project no.:		S9150-A0	Well no.:	MW-H1		
Project name	e:	Banta Collins		ell from TOC (feet	. 20	Date: <u>5/24/94</u>
Location:		6050 Hollis Street	Well diame			
	_	Emeryville, CA		•	2	
Recorded by	 ":	WKS		terval from TOC (f		
Weather:		Overcast	TOC elevati	*	18.90	
Precip in pas		- Volcast		from TOC (feet):	3.98	Time <u>8:50</u>
5 days (inch)		None		el from TOC (feet):	None	Time <u>8:50</u>
) · (mon)		None	Water level		14.92	
				measurement devid	ce: Dual interfa	ce probe
VOLUME O	F WATER	TO BE REMOVED BE	FORE SAMPLIN	G·		
	[(20 ft)	$-(3.98 \text{ ft})] \times (0.083)$	$f(t)^2 \times 3.14 \times 7$.48 =	2.6 golloma in .	
	Well dept	h Water level Well i	adius		2.6 gallons in or 13 gallons in 5	
					10 total gallons	
CALIBRATI	ON:				wax ganons	Temoved
			Temp		T 0	
Coliberai		<u>Time</u>	(<u>C</u>)	<u>Н</u> д	EC (umho/cm)	
	on Standard ore Purging:	0.00	20.1	7.00-10.01	1,000	
	ote Furging: fter Purging:		20.1	7.00-10.01	900	
		40,50	19.5	6.99-	900	
IELD MEAS	SUREMENT	rs:				
	Temp			Cumulative		
<u>Time</u>	(° C)	<u>рН</u>	EC	Gallons		
		<u>p.r.</u>	(µmho/cm)	Removed	<u>Appearance</u>	
9:18	17.3	6.83	800	1	Vomaliabata	. 1/1
9:28	17.3	6.86	800	3	Clear	turbid, petroleum odo
9:32 9:48	17.1	7.03	800	4	Clear	
9: 4 8 9:58	17.4	6.86	800	7	Clear	
10:08	17.5 17.5	6.89	800	8	Clear	
10.00	17.5	6.89	800	10	Clear	
iter level afte	er purging pr	ior to sampling (feet):	4.44			TD1
pearance of a	sample: (Clear				Time 12:16
uncare/biank	_	V.A.				Time 12:20 Time
an mail . 3		Double diaphragm pump				- THIIC
ge method:	ment: T	Disposable PVC bailer		OC attachment:	N.A.	
ge method: npling equip	_	A 1110 ·				
ge method: npling equipanple containe	ers: 4	0-ml VOAs and 0.5-liter	amber glass	·		
rge method: npling equipant nple containe nple analyses	ers: 4	O-ml VOAs and 0.5-liter EH-d, TEH-k, TVH-g, B SP and water, DI water r	amber glass TEX L	aboratory:	Curtis & Tomp	kins, Ltd.

(S9150GW.XLW-6/14/94)

GROUNDWATER SAMPLING

Project no.:		S9150-A0	Well no.:	MW-	H2	Date: 5/24/94
Project name:_	····	Banta Collins	Depth of wel	l from TOC (feet):	20	
Location:		6050 Hollis Street	_ Well diamete	er (inch):	2	
		Emeryville, CA	Screened into	erval from TOC (fee	t): 4.5-20	
Recorded by:_		WKS	TOC elevation	on (feet):	21.48	
Weather:		Overcast	Water level f	rom TOC (feet):	6.30	Time 8:07
Precip in past			Product level	from TOC (feet):	None	Time 8:07
5 days (inch):_		None	Water level (feet msl):	15.18	<u> </u>
_			Water level r	neasurement device:		probe
VOLUME OF	WATER 1	TO BE REMOVED BEFO	RE SAMPLING	3:		
		$-(6.30 \text{ ft})] \times (0.083)$			2.2 gallons in one	well volume
	Well depth	Water level Well rad	ius		2 gallons in 5 w	
					9 total gallons re	emoved
CALIBRATIO	N:					
			Temp		EC	
		<u>Time</u>	<u>(° C</u>)	<u>pH</u>	(umho/cm)	
	n Standard:		20.1	7.00-10.01	1,000	
	re Purging:		20.1	7.00-10.01	900	
Alt	er Purging:	10:50	19.5	6.99-	900	
FIELD MEAS	UREMEN	TS:				
	_			Cumulative		
Т:	Temp		EC	Gallons		
<u>Time</u>	(<u>°C</u>)	<u>pH</u>	(µmho/cm)	Removed	<u>Appearance</u>	
8:30	16.5	7.06	230	2	Clear with ora	nge precipitate and
					rootlets in wel	
8:35	16.4	6.59	220	3	Clear	
8:40	16.5	6.65	220	4	Clear	
8:55	16.4	6.73	220	7	Clear	
9:00	16.6	6.69	220	8	Clear	
9:05	16.6		220	9	Clear	
		prior to sampling (feet):		6.35		Time 12:00
Appearance of s Duplicate/blank		Clear		·		Time 12:05
	. number:	N.A.		<u></u>	<u>-</u>	
Purge method:		Double diaphragm pump				·
Sampling equip		Disposable PVC bailer	- , 	VOC attachment:	N.A.	
Sample containe		40-ml VOAs and 0.5-liter a				
Sample analyses		TEH-d, TEH-k, TVH-g, B		Laboratory.	Curtis & Tomp	
onammatio	u memod:	TSP and water, DI water ri	nse	Rinsate disposal:	Drum MW-HV	V4

(S9150GW.XLW-6/14/94)

GROUNDWATER SAMPLING

Project no.:		S9150-A0	_ Well no.:	MW	-H3	Date. 5/24/94		
Project name:		Banta Collins	15					
Location:		6050 Hollis Street	Well diamete	er (inch):	2			
<u></u>		Emeryville, CA	_ Screened inte	erval from TOC (fee	et): 3-15			
Recorded by:		WKS	TOC elevation		16.95			
Weather:		Overcast	Water level f	rom TOC (feet):	3.88	Time 8:52		
Precip in past			Product level	from TOC (feet):	None	Time 8:52		
5 days (inch):_		None	Water level (feet msl):	13.07			
			Water level n	neasurement device	: Dual interfac	e probe		
VOLUME OF	WATER 1	O BE REMOVED BEFO	RE SAMPLING	3:				
[$(3.88 \text{ ft})] \times (0.083)$		48 =	1.8 gallons in one	e well volume		
	Well depth	Water level Well rad	ius		9.0 gallons in 5 v	vell volumes		
				•	9.0 total gallons i	removed		
CALIBRATIO	N:							
			Temp		EC			
Calibratia	n Standard:	<u>Time</u>	(<u>° C)</u>	<u>pH</u>	(umho/cm)			
	ore Purging:	8:00 8:10	20.1 20.1	7.00-10.01 7.00-10.01	1,000 900			
	ter Purging:		19.5	6.99-	900			
			•					
FIELD MEAS	UREMENT	rs:						
	Т		20	Cumulative				
Time	Temp <u>(° C)</u>	<u>pH</u>	EC (umho/cm)	Gallons <u>Removed</u>	Annagranca			
Timv		<u>p11</u>	финолену	Kemoved	<u>Appearance</u>			
10:18	17.3	6.93	480	1.5	Clear			
10:27	17.5	6.86	600	3.0	Clear			
10:33	17.3	6.89	650	5.0	Clear			
10:37	17.4	6.96	700	6.0	Clear			
10:40	17.3	6.91	750	7.0	Clear			
10:43	17.3	6.91	800	8.0	Clear			
10:46	17.4		750	9.0	Clear			
Water level afte	er purging r	prior to sampling (feet):		3.90		Time 12:40		
Appearance of	sample:	Clear				Time 12:40		
Duplicate/blanl	k number:	N.A.				Time		
Purge method:		Double diaphragm pump						
Sampling equip		Disposable PVC bailer		VOC attachment:	N.A.			
Sample containers: 40-ml VOAs and 0.5-liter			amber glass					
-					Curtis & Tompkins, Ltd.			
Sample analyse	es:	TEH-d, TEH-k, TVH-g, B'TSP and water, DI water ri	TEX	Laboratory: Rinsate disposal:	Curtis & Tom	pkins, Ltd.		

(S9150GW.XLW-6/14/94)



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Baseline Environmental 5900 Hollis Street Suite D Emeryville, CA 94608

Date: 01-JUN-94
Lab Job Number: 115737
Project ID: S9105-A0

Location: B. Collins 6050 Hollis St.

Reviewed by:

Reviewed by:

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LABORATORY NUMBER: 115737

CLIENT: BASELINE ENVIRONMENTAL

PROJECT ID: S9105-A0

LOCATION: B.COLLINS, 6050 HOLLIS ST.

DATE SAMPLED: 05/24/94

DATE RECEIVED: 05/24/94 DATE ANALYZED: 05/26/94

DATE REPORTED: 06/01/94

Total Volatile Hydrocarbons with BTXE in Aqueous Solutions TVH by California DOHS Method/LUFT Manual October 1989 BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (ug/L)	BENZENE (ug/L)	TOLUENE	ETHYL BENZENE (ug/L)	TOTAL XYLENES (ug/L)
115737-001	MW-H1	3,400	21	ND(0.5)	10	6.7
115737-002	MW-H2	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
115737-003	MW-H3	110+	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY

=======================================	
RPD, %	3
RECOVERY, %	105

⁺ Sample chromatogram does not resemble the gasoline standard; single peaks contributing to the quantitation of the gasoline range.

FileName : G:\GCO7\145F031.raw Start_Time : 0.00 min En

Scale Factor: -1

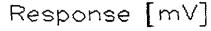
End Time : 24.33 min Plot Offset: -1 mV

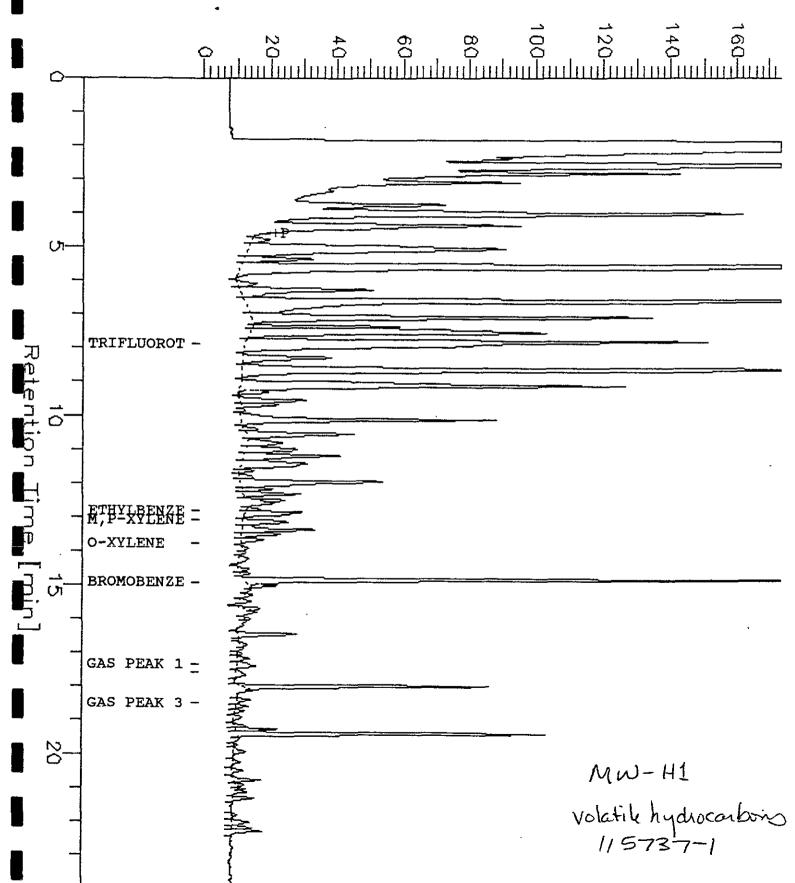
Date: 5/26/94 11:17 AM Low Point : -1.11 mV

Plot Scale: 175 mV

Page 1 of 1

High Point: 173.89 mV





: G:\GCO7\145F017.raw

Start Time : 0.00 min End Time : 24.33 min

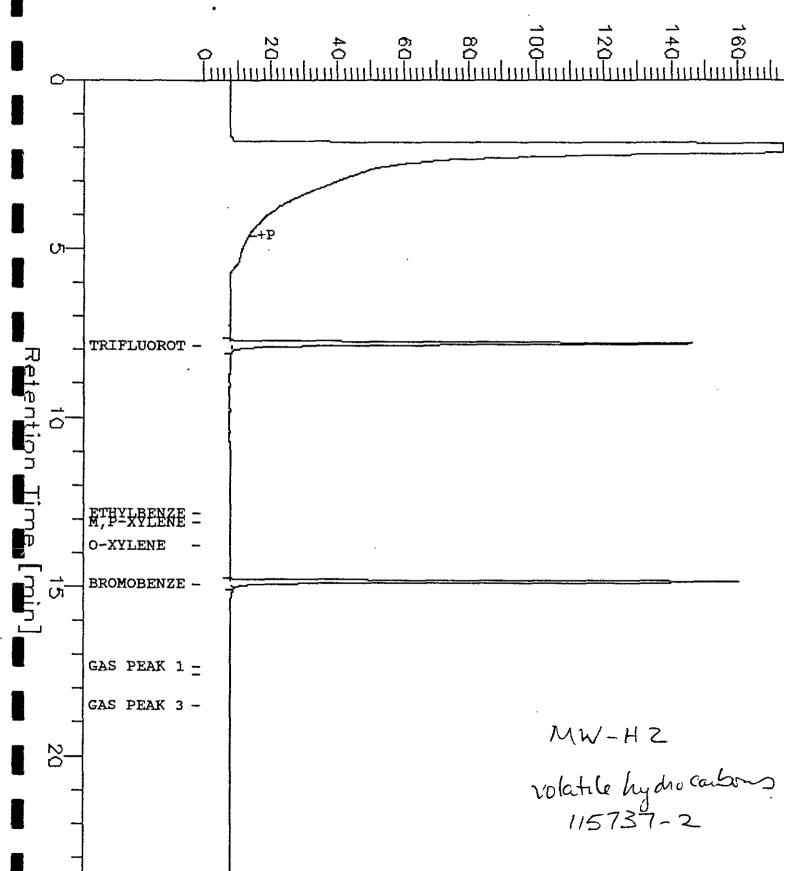
Plot Offset: -1 mV Scale Factor: -1

Date: 5/26/94 2:40 AM Low Point : -1.13 mV

Page 1 of 1 High Point : 173-87 mV

Plot Scale: 175 mV

Response [mV]



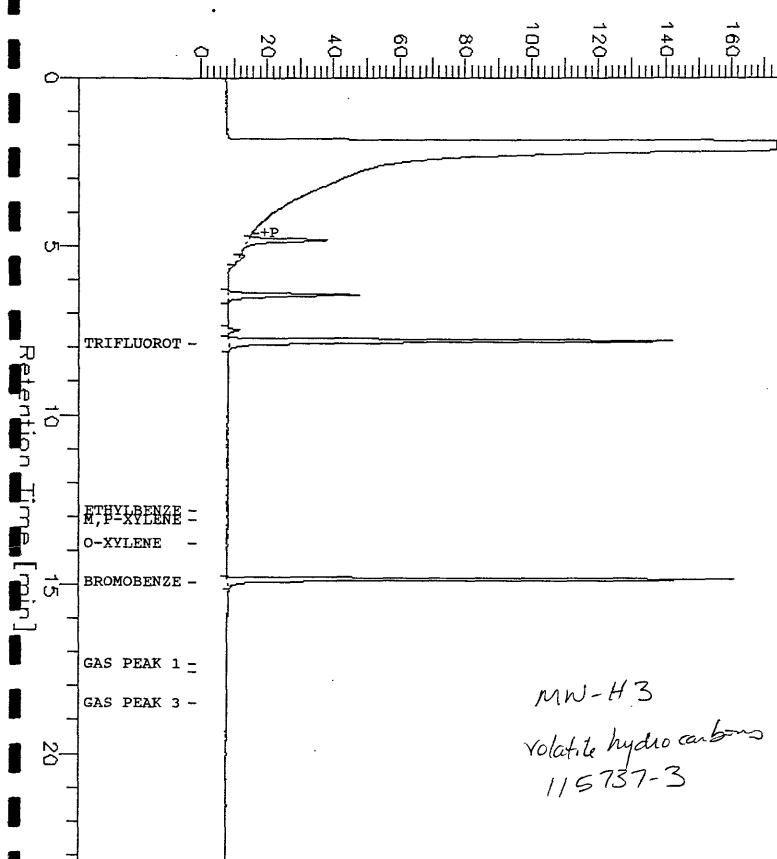
: G:\GC07\145F018.raw FileName Start Time : 0.00 min End Time : 24.33 min Scale Factor: -1 Plot Offset: -1 mV

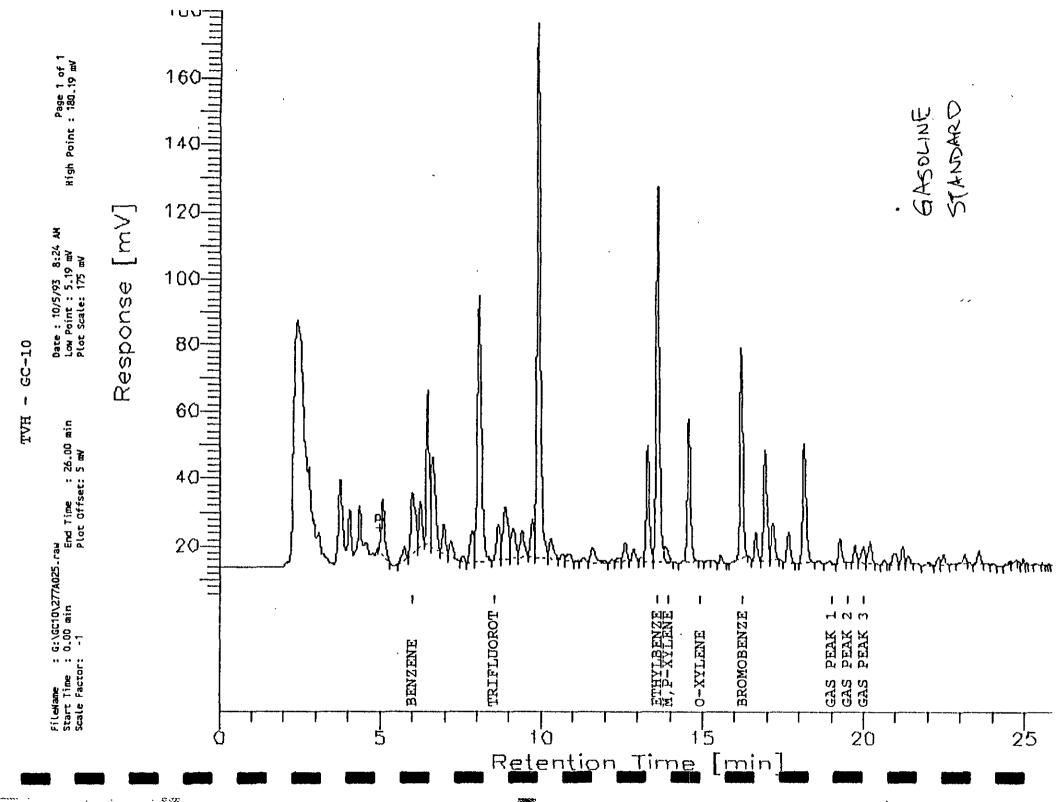
Date: 5/26/94 3:14 AM Low Point : -1.21 mV

Plot Scale: 175 mV

Page 1 of 1 High Point: 173.80 mV

Response [mV]







LABORATORY NUMBER: 115737

CLIENT: BASELINE ENVIRONMENTAL

PROJECT ID: S9105-A0

LOCATION: B.COLLINS, 6050 HOLLIS ST.

DATE SAMPLED: 05/24/94

DATE RECEIVED: 05/24/94

DATE EXTRACTED: 05/25/94 DATE ANALYZED: 05/27/94

DATE REPORTED: 06/01/94

Extractable Petroleum Hydrocarbons in Aqueous Solutions California DOHS Method LUFT Manual October 1989

LAB ID	CLIENT ID	KEROSENE RANGE (ug/L)	DIESEL RANGE (ug/L)	REPORTING LIMIT (ug/L)
115737-001	MW-H1	**	280	50
115737-002	MW-H2	ND	ND	50
115737-003	MW-H3	**	110	50

QA/QC SUMMARY:

RPD, %	14
RECOVERY, %	111

Sample Name : 115737-001 500:2.5 FileName

: g:\gc11\chb\147B012.raw

: GC11 B.ins

art Time : 0.00 min ale Factor: -1

End Time : 31.92 min

Plot Offset: 29 mV

Sample #: 14337

Date : 5/27/94 05:59 PM

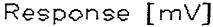
Time of Injection: 5/27/94 05:26 PM

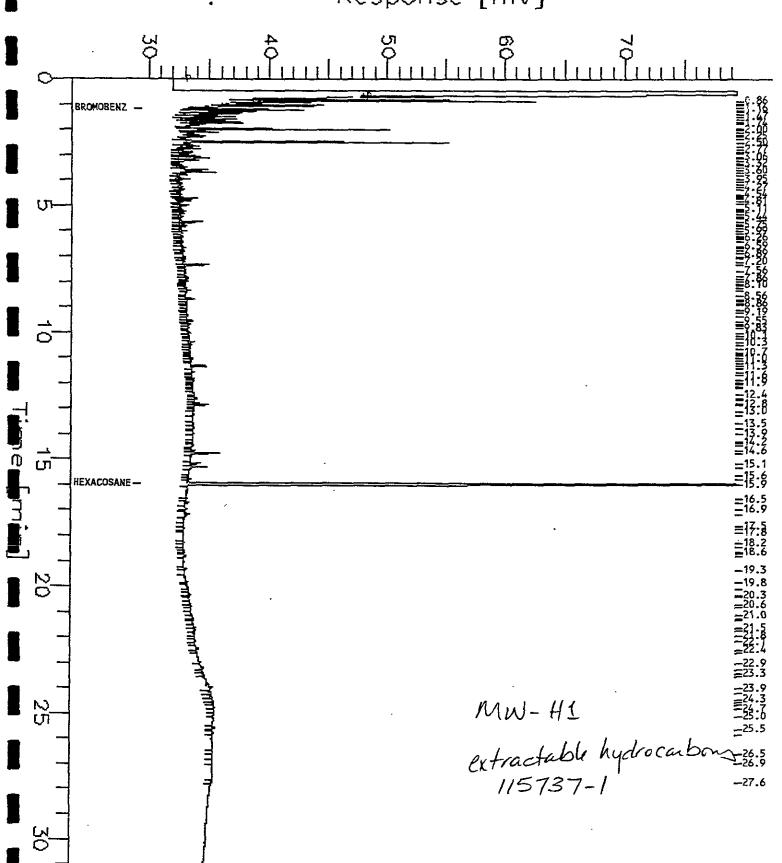
Low Point: 29.42 mV

High Point : 79.42 mV

Page 1 of 1

Plot Scale: 50 mV





TEH Chromatogram GC11 CH B

sample Name : 115737-002 500:2.5 FileName

: g:\gc11\chb\147B013.raw

: GC11_B.ins thod art Time : 0.00 min

ale Factor: -1

End Time : 31.92 min

Plot Offset: 29 mV

Sample #: 14337

Date: 5/27/94 06:42 PM

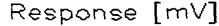
Time of Injection: 5/27/94 D6:09 PM

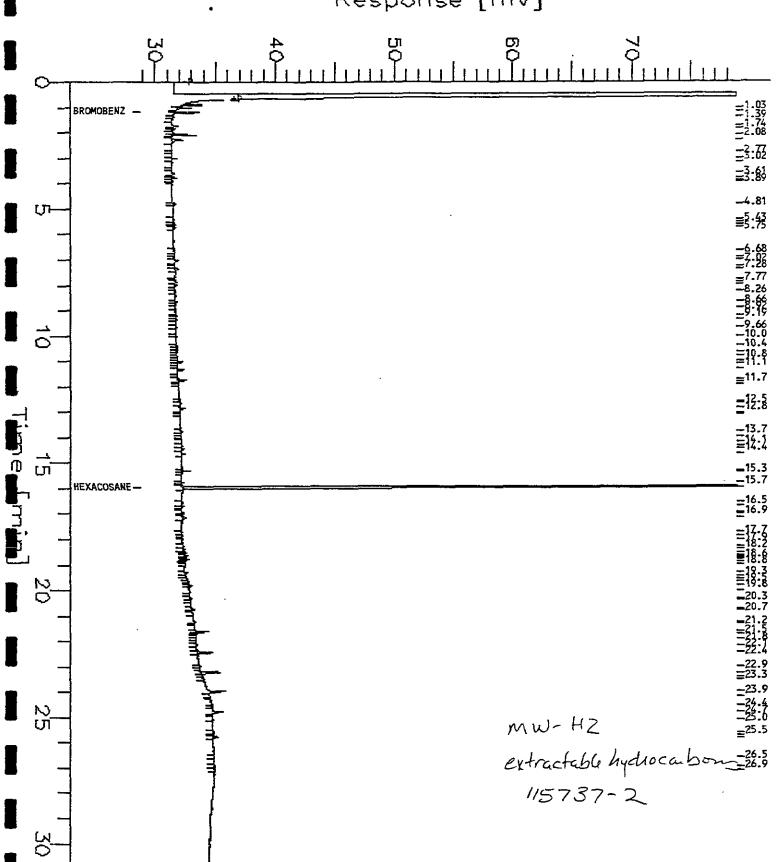
Low Point : 28.82 mV

High Point : 78.82 mV

Page 1 of 1

Plot Scale: 50 mV





TEH Chromato ample Name: 115737-003 500:2.5 Sample #: 14337 FileName : g:\gc11\chb\147B0!4.raw Date : 5/27/94 07:26 PM : GC11_B.ins ethod Time of Injection: 5/27/94 06:53 tart Time : 0.00 min End Time : 31.92 min Low Point : 28.87 mV High Point ale Factor: -1 Plot Offset: 29 mV Plot Scale: 50 mV Response [mV] =0.90 BROMOBENZ -15 Time Imini HEXACOSANE --MW-H3 cxtractable hydrocalor 115737-3

TEH Chromatogram GC11 CH B

ample Name : kerosene 235 mg/L

: g:\gc11\chb\277b052.raw FileName

: GC11CHB.ins Method tart Time : 0.00 min

End Time : 31.92 min cale Factor: -1 Plot Offset: 34 mV

Sample #: 93ws5584

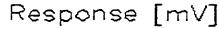
Date: 10/6/93 4:23 AM

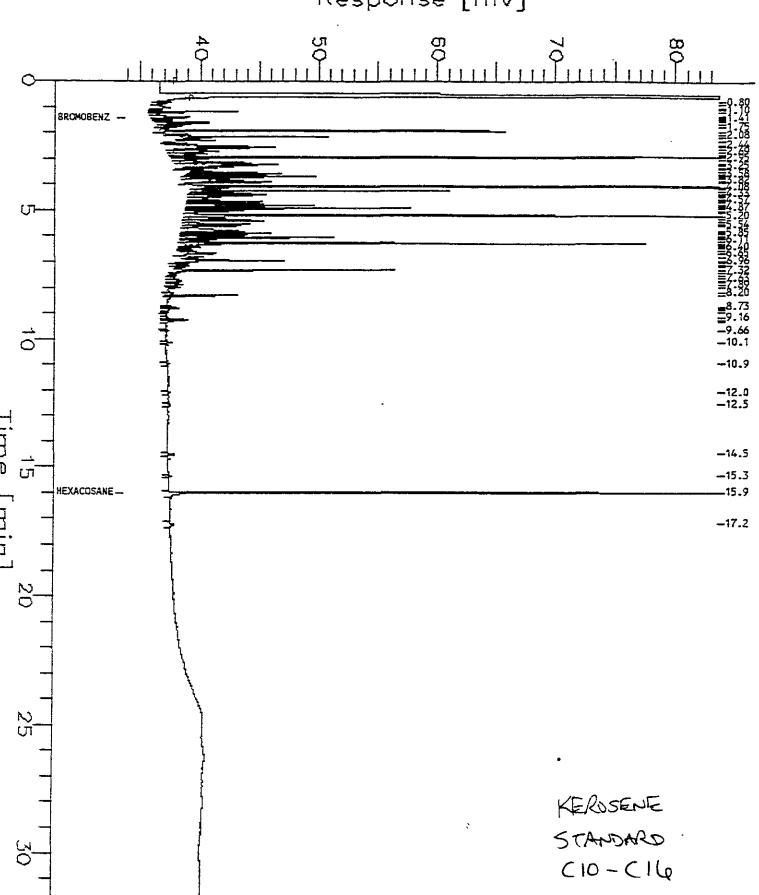
Time of Injection: 10/6/93 3:50 AM Low Point : 33.64 mV

High Point : 83.64 mV

Page 1 of 1

Plot Scale: 50 mV





TEH Chromatogram GC11 CH B

le Name : diesel 513 mg/L

: g:\gc11\chb\277b053.raw

: GC11CHB.ins

rt Time : 0.00 min le Factor: -1

End Time : 31.92 min

Plot Offset: 34 mV

Sample #: 93ws5585

Date: 10/6/93 5:08 AM

Time of Injection: 10/6/93 4:34 AM

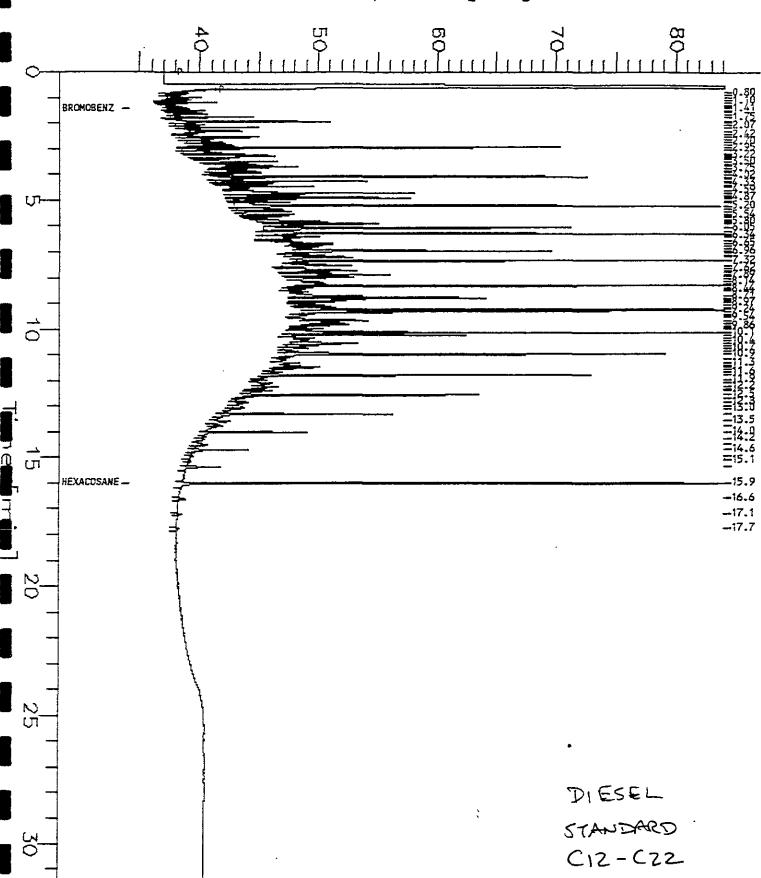
Low Point : 34.13 mV

High Point: 84.13 mV

Page 1 of 1

Plot Scale: 50 mV





BASELINE
5900 Hollis Street, Suite D
Emeryville, CA 94608
(510) 420-8686

CHAIN OF CUSTODY RECORD

Turn-around Time
Lab
BASELINE Contact Person

Normal Curts & Tomptons Bill Scott

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