

August 24, 2000

Environmental & Water Resources Engineering Groundwater Consultants

Larry Seto Alameda County Environmental Health Services 1131 Harbor Bay Parkway Alameda, CA 94502-6577

Quarterly Groundwater Monitoring Report
Matheson Trucking
2500 Poplar Street, Oakland, California
Fuel Leak Case No. 1306

Dear Mr. Seto:

The enclosed report documents the following activities at the subject property:

- · Measurement of water levels in four wells,
- Evaluation of the groundwater flow direction and magnitude, and
- Collection and analysis of groundwater samples from four monitoring wells.

Please note that we have changed our name from Hageman-Aguiar to Hydro Analysis. If you have any questions, please call me at 510/620-0891.

CERTIFIED
DROGEOLOGIST

Sincerely,

CC:

Hydro Analysis, Inc.

Kenneth B. Alexander, RG, CH

Principal Hydrogeologist

Brett Davis/Matheson Trucking, Elk Grove, California



Environmental & Water Resources Engineering Groundwater Consultants

QUARTERLY GROUNDWATER MONITORING REPORT

(Sampled August 9, 2000)

MATHESON TRUCKING

2500 Poplar Street Oakland, California

August 24, 2000

Hydro Analysis, Inc. Project No. 0277

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I. INTRODUCTION

The site location is the Matheson Trucking facility located at 2500 Poplar Street in Oakland, California (Figure 1). The site is situated on the southern side of 26th Street between Poplar and Union Streets in Oakland. The current layout of the property, along with the location of the previous tank excavations, is shown in Figure 2. The site has been historically operated as a truck maintenance, fueling, and dispatch facility.

This report describes groundwater monitoring activities completed in August 2000 at 2500 Poplar Street, Oakland, CA.

II. FIELD WORK: GROUNDWATER SAMPLING

Monitoring Well Sampling

On August 9, 2000, Hydro Analysis sampled four onsite groundwater monitoring wells (MW-1, MW-2, MW-3, and MW-4). The locations of the wells are shown in Figure 2. Well construction details are provided in Table 1.

Prior to sampling, several casing volumes of water were removed from each well. Field conductivity, temperature, and pH were monitored during purging. Purging continued until these parameters stabilized. Groundwater samples were subsequently collected using new, disposable sampling bailers. The water samples were placed inside appropriate 40-ml VOA vials free of any headspace. The samples were immediately placed on crushed ice, then transported under chain-of-custody to the laboratory at the end of the workday.

At the time each monitoring well was sampled, the following information was recorded in the field: (1) depth-to-water prior to purging, using an electrical well sounding tape, (2) observation of any floating product, sheen, or odor prior to purging, using a clear Teflon bailer, (3) pH, (4) temperature, and (5) specific conductance. Copies of the well sampling logs are included in Attachment A.

Wastewater Generation

All water and other liquid waste removed from the wells during purging was drummed and stored onsite. The water and liquid waste is periodically picked up by a licensed waste hauler and transported under manifest to an appropriate recycling and disposal facility.

III. RESULTS OF WATER LEVEL MEASUREMENTS

Groundwater Flow Direction and Hydraulic Gradient

On August 23, 2000, Hydro Analysis measured water level in the four monitoring wells (Table 2). Figure 2 presents a contour map for the groundwater beneath the site. As shown in Figure 2, the water level data indicate that groundwater flow in August 2000 was toward the west-northwest direction.

The calculated hydraulic gradient for August 2000 was approximately 0.004 feet/feet (about 22 feet per mile).

Floating Product

Measurements of floating product were performed prior to water level measurements on August 23, 2000. No floating product was observed.

IV. ANALYTICAL RESULTS

Laboratory Analysis

All analyses were performed by Entech Analytical Labs, Inc., of Sunnyvale, California, a California State Department of Health Services-certified laboratory. All samples were analyzed in accordance with U.S. EPA recommended procedures.

All soil and groundwater samples were analyzed for:

- Total Petroleum Hydrocarbons as Gasoline (modified EPA Method 8015)
- Benzene, Toluene, Ethylbenzene, and Total Xylenes (EPA Method 8020)
- Methyl Tertiary Buytl Ether (MTBE) (EPA Method 8260B)
- Total Petroleum Hydrocarbons as Diesel (modified EPA Method 8015)

Analytical Results: Groundwater

Table 3 presents the analytical results for the groundwater samples collected on August 9, 2000. Copies of the laboratory reports and chain-of-custody records are provided in Attachment B.

In general, the groundwater analytical results are unremarkable. As shown in Table 3, petroleum constituents were not detected in any of the groundwater samples, except for diesel (at a maximum concentration of 340 μ g/L in three samples) and gasoline (at a concentration of 110 μ g/L in the sample from well MW-4). Concentrations are similar to the previous quarterly monitoring results.

V. DATA ANALYSIS AND RECOMMENDATIONS

The results of the groundwater sampling revealed relatively low concentrations of diesel in monitoring wells MW-1, MW-2, and MW-4. Gasoline was detected at a relatively low concentration in monitoring well MW-4. Otherwise, gasoline, BTEX, and MTBE were not detected in any of the groundwater samples. No petroleum constituents were detected in downgradient monitoring well MW-3. Groundwater analytical results are shown graphically on Figure 3.

The detection of diesel and gasoline is not indicative of a significant tank release, nor do the measured groundwater concentrations represent a significant risk to human health or the environment. We believe that contaminant migration is limited due to the very low permeability of the clay and silt encountered beneath the site. The detected diesel and gasoline will attenuate with time, primarily due to intrinsic biodegradation.

On the basis of the foregoing, we do not believe the detected petroleum hydrocarbons represent a significant risk to human health or the environment and we do not believe that further investigation or remediation is warranted. We recommend that groundwater monitoring be performed quarterly over the next six months. If, at that time, the analytical results do not show evidence of petroleum contamination, we will recommend the site for regulatory closure.

TABLE 1.

Monitoring Well Completion Data

Matheson Trucking, 2500 Poplar Street, Oakland, California

Well Number:	MW-1	MW-2	MW-3	MW-4
Date of Installation	January 29, 1996	January 29, 1996	April 18, 2000	April 18, 2000
Installed By	Hageman- Aguiar, Inc.	Hageman- Aguiar, Inc.	Hageman- Aguiar, Inc.	Hageman- Aguiar, Inc.
Installation Method	HSA	HSA	HSA	HSA
Boring Diameter (inches)	8	8	8	8
Measuring Point Description	Top of PVC casing			
Measuring Point Elev. (feet)	9.19	8.03	8.82	8.80
Approximate Seal Depth (feet)	2.5	2.5	4	4
Total Depth (feet)	15	15	15	15
Casing Diameter (inches)	2	2	2	2
Screened Interval (ft) - depth	3 to 15	3 to 15	5 to 15	5 to 15
elevation	6.2 to -5.8	5.0 to -7.0	3.8 to -6.2	3.8 to -6.2
Sand Pack Interval (ft) - depth	2.5 to 15	2.5 to 15	4 to 15	4 to 15
elevation	6.7 to -5.8	5.5 to -7.0	4.8 to -6.2	4.8 to -6.2
Screen Specifications	SCH 40 PVC, 0.010-in slots			

General Notes

- (a) Elevations referenced to Mean Sea Level.
- (b) Depths measured relative to ground surface.
- (c) HSA = Hollow-stem augers.

TABLE 2.

Groundwater Elevation Measurements Matheson Trucking, 2500 Poplar Street, Oakland, California

	WW	/-1	WW	/-2	WW	/-3	MW-4		
	MP Elev 9.19		MP Elevation = 8.03 feet		MP Elevation = 8.82 feet		MP Elevation = 8.80 feet		
Date	Depth	Elev	Depth	Elev	Depth	Elev	Depth	Elev	
May 1, 2000	6.30	2.89	5.09	2.94	7.25	1.57	7.02	1.78	
August 23, 2000	7.59	1.60	6.14	1.89	8.09	0.73	7.28	1.52	

General Notes

- (a) Depth measurements cited in units of feet below measuring point (MP). MP is top of PVC well casing.
- (b) Elevation measurements cited in units of feet above Mean Sea Level and referenced to top of casing elevation of former Findley Adhesives well MW-2 at 2433 Poplar Street. MW-2 TOC elevation is 8.03 feet above Mean Sea Level.

TABLE 3.

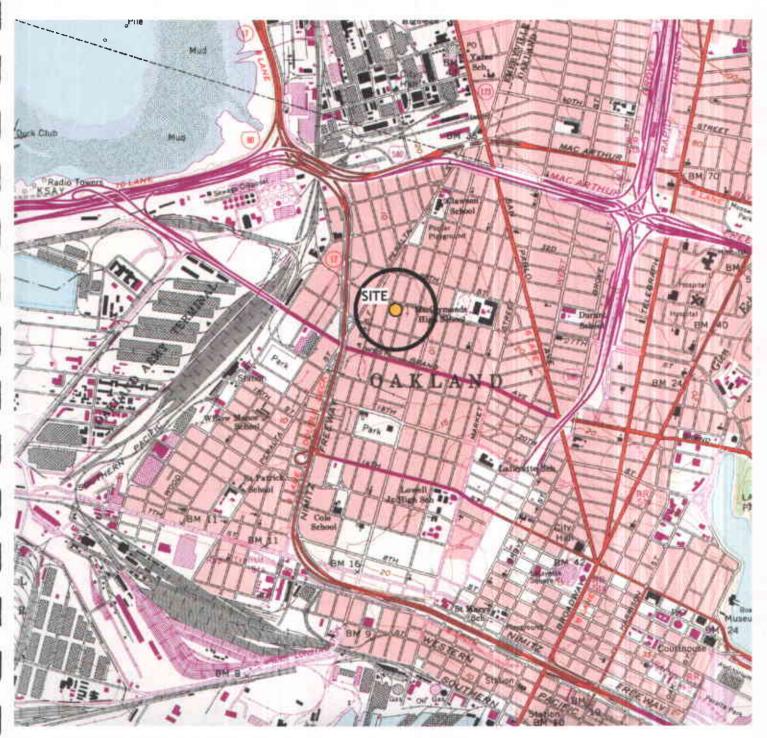
Groundwater Analytical Results Matheson Trucking, 2500 Poplar Street, Oakland, California

Well Number	Date	TPH as Diesel (µg/L)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-1	May 1, 2000	76	<50	<0.5	<0.5	<0.5	<0.5	<5
	Aug 9, 2000	340	<50	<0.5	<0.5	<0.5	<0.5	<5
MW-2	May 1, 2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<5
	Aug 9, 2000	63	<50	<0.5	<0.5	<0.5	<0.5	<5
MW-3	May 1, 2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<5
	Aug 9, 2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<5
MW-4	May 1, 2000	320	<50	<0.5	<0.5	<0.5	<0.5	<5
	Aug 9, 2000	260	110	<0.5	<0.5	<0.5	<0.5	<5

Drinking Water Criteria	100	5	1	150	700	1,750	13
	(T&O)	(T&O)	(MCL)	(MCL)	(MCL)	(MCL)	(MCL)
EPA Method No.	Modified 8015	Modified 8015	8020	8020	8020	8020	8260B

General Notes

- (a) "<" = parameter below laboratory method reporting limit.
- (b) Drinking water criteria is for comparison purposes only. Source: Jon B. Marshack, A Compilation of Water Quality Goals, Central Valley Regional Water Quality Control Board, Sacramento, CA, March 1998. T&O = Taste and Odor Threshold. MCL = California Primary Maximum Contaminant Level.
- (c) Concentrations exceeding the drinking water criteria in bold italic.



Basemap: USGS 7.5-minute topographic quadrangle, Oakland West, Calif., Photorevised 1980.

1,000 0 1,000 2,000 3,000 4,000 feet

FIGURE 1.

Location Map

Matheson Trucking 2500 Poplar Street Oakland, California

Hydro Analysis, Inc.

50

Feet

Note: Groundwater elevations are in units of feet above Mean Sea Level.

POPLAR STREET

Former Findley MW-2

(abandoned)

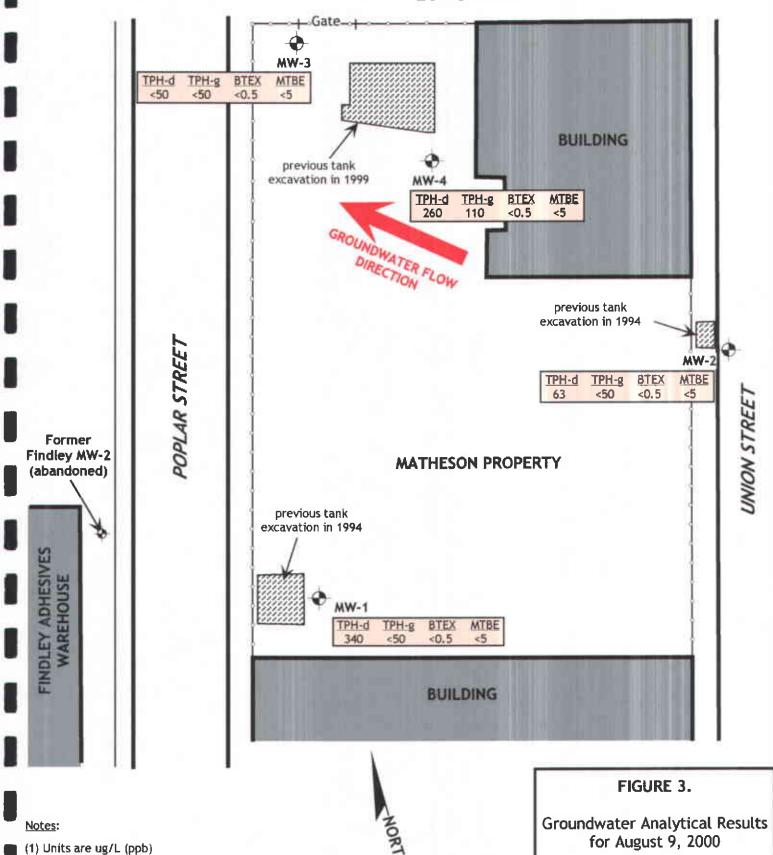
FINDLEY ADHESIVES WAREHOUSE

Hydro Analysis, Inc.

Matheson Trucking 2500 Poplar Street

Oakland, California

26th STREET



50

Feet

(2) TPH-d = Diesel (3) TPH-g = Gasoline

Total Xylenes

(5) MTBE = MTBE by EPA Method 8260B

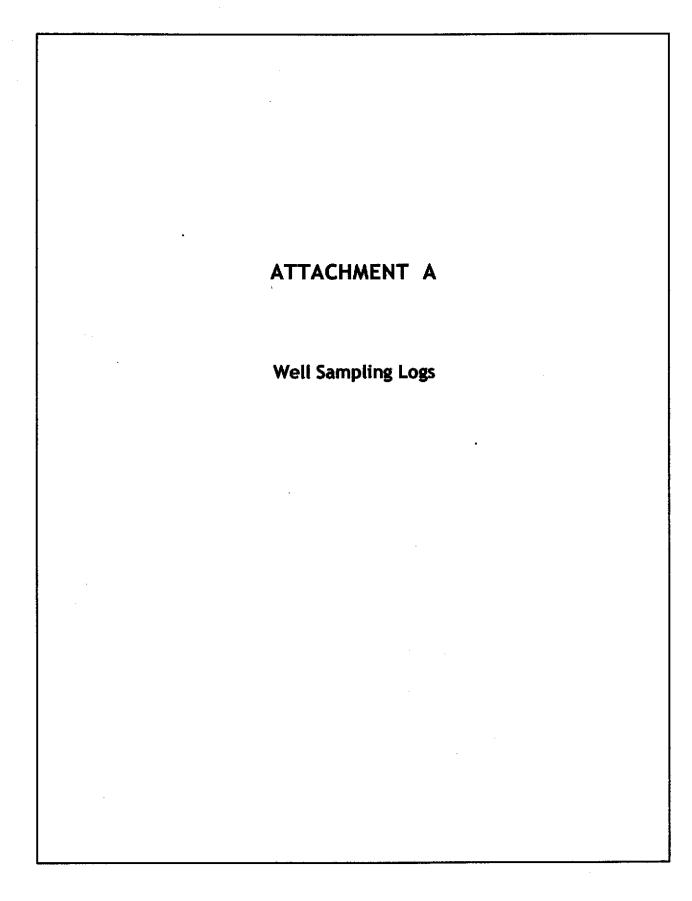
(4) BTEX = Benzene, Toluene, Ethylbenzene, and

Hydro Analysis, Inc.

Matheson Trucking

2500 Poplar Street

Oakland, California



Hageman-Aguiar, Inc.

11100 San Pablo Ave. Suite 200A El Cerrito, CA 94530 (510) 620-0891 Fax (510) 620-0894

Project: Matheson - Oakland

Date: 08/23/2000

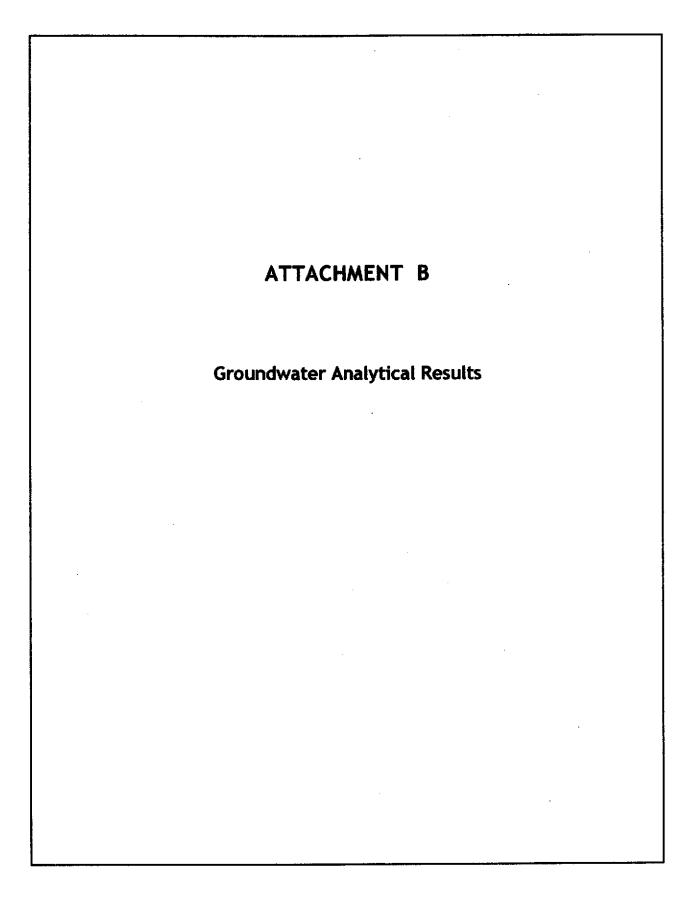
WELL#	DEPTH TO WATER	PRODUCT	WELL DEPTH	PRODUCT REMOVED	WATER REMOVED	COMMENTS
MW-L	7,59'	· · · · · · · · · · · · · · · · · · ·				
MW-2	6.14'					
Mw-3	8.09'					
MW-4	7.28'					
	!					
		****		-1		
·· ····						
				•		
	ļ					
		7				
	+					
-						
						,
			*			

Site Locati	ion Mathes	on - Oakland		Page	f <u>4</u>
Well Num				Date <u>08/09</u> /	12000
Weather	Overcast	, 55°-65°		Time Began	9;27
Sampling I		wilson		Completed O	9:35
		EVAC	JATION DATA		
Descriptio	n of Measuring Point	(MP): T.O.C.			
Total Sour of Well Be	nded Depth slow MP	13.92' + 0.27'		Sample	Collected
- Depth t	o Water Below MP	6.00	Volati	le Organics (VOA's)	6
= Water	Column in Well	8.19'		r Amber Glass	2
x Casing	Diameter Multiplier	0.169	⊋" Polye	thylene (plastic)	
= Gallons	s in Casing	1,38	Other		
Gallons Pumped	Prior to Sampling	6	Samp	oles Filtered	<u> </u>
Evacuatio	n Method: PVC Bailer _	×	Sample i	Method: Evacuation Bailer	X
	Acrillyc Bailer _			Disposable Bailer	
	Pump _			Pump	
	Other				
		SAMPLING DATA	A/FIELD PAR	AMETERS	
nspection for Free F (thickness to 0.01 fo		clear	<u> </u>		
•	09:29	09:31	09:33	09:35	
Gals Removed	1.5	3	4.5	6	
Temperature	21.8	21,6	21.7_	21.7	
Conductivity	941	<u> 988</u> .	997_	980	<u></u>
рН	7.20	6,99	6.92	6.93	
Color / Odor	med	high	high_	<u>high</u>	
Turbidity					
Other					
Comments:					

Site Locat	ion <u>Mathe</u>	son - Oakl	and	Page	of <u>4</u>
Well Num	ber <u>MW-3</u>			Date <u>08/0</u>	7/2000
Weather	<u>Overcast</u>	, 55°-65°		Time Began	10:04
Sampling	Personnel <u>R</u>	Wilson		Completed	10:19
			-		
		EVAC	UATION DA	ATA	
Descriptio	n of Measuring Point ((MP): <u>T.O.C.</u>	-		
Total Soul of Well Be	nded Depth elow MP	14.81'+0.27	,	Sample	Collected
- Depth t	o Water Below MP	7,99'	,	Volatile Organics (VOA's)	6
= Water	Column in Well	7.09'		1 Liter Amber Glass	7_
x Casing	Diameter Multiplier	0,169	2"	Polyethylene (plastic)	
= Gallons	s in Casing ,	1,20		Other _	
Gallons Pumped	Prior to Sampling	2		Samples Filtered	<u>no</u>
Evacuatio	n Method: PVC Bailer _	<u> </u>	Sa	ample Method: Evacuation Bailer	×
	Acrillyc Bailer _			Disposable Bailer	
	Pump _			Pump	
	Other			Direct	
	•				
		SAMPLING DAT	TA / FIELD F	PARAMETERS	
Inspection for Free F	Smoduals A				
(thickness to 0.01 fo		cleur_	sumple		
Time	10:06	10:08	10:19		
Gals Removed			2		
Temperature	21.1	21.2	2/./		
Conductivity	1091	1094	1112		<u></u>
рH	7.01	7.08	7,13		
Color / Odor	Tun	Tan	Tan		
Turbidity	<u>high</u>	<u>high</u>	med		
Other		<u>dewatele</u> d			
Comments:					

Site Locati	ion <u>Mathe</u>	son-Oakla	nd	Page . <u>3</u>	of <u>4</u>
Weil Num	ber <u>Mw-4</u>	. 		Date <u>08/0</u>	09/2000
Weather	Sunny,	60°-70°		Time Began	10:49
Sampling	Personnel	Wilson		Completed	11:04
		EVAC	UATION DATA		
Descriptio	n of Measuring Point	(MP): T.O.C.			
Total Sour	nded Depth slow MP	14.97'+0.27	. •	Sam	ple Collected
- Depth t	o Water Below MP	7.07'	Volatile C	rganics (VOA's)	6
= Water	Column in Well	8.17'	1 Liter Ar	mber Glass	2
x Casing	Diameter Multiplier	0.169_	ス" Polyethyli	ene (plastic)	
= Gallons	s in Casing	1,38	Other	•	
Gallons Pumped	Prior to Sampling		Samples	Filtered	no
Evacuatio	n Method: PVC Bailer _	X	Sample Met	hod: Evacuation Baile	rX
	Acrillyc Bailer _			Disposable Bailer	
	Pump _			Pump	
	Other _			Direct	
Inspection for Free F (thickness to 0.01 fo		SAMPLING DATE	TA/FIELD PARAM		
Time	10:51	10:53	sample 11:04		
Gals Removed					
Temperature	20,3	20.3	20.2		
Conductivity	1492	1553	1604		
рН	6.84	6.85	6.82		
Color / Odor	Tan	Tan	Tan _		
Turbidity	high	<u>high</u>	high _		
Other		dewatered			
Comments:					

Site Locat	ion <u>Mathe</u>	son-Oakla	nd_	Page <u>4</u>	of <u>4</u>
Well Num	ober <u>Mw-l</u>		····	Date <u>08/0</u>	2/2000
Weather	Sunny,	60°-70°		Time Began	11:26
Sampling	Personnel R	Wilson	<u>.</u>	Completed/	1:45
		EVAC	CUATION DATA		•
Descriptio	on of Measuring Point	(MP): <u>T.O.C.</u>			<u>.</u>
Total Sour of Well Be	nded Depth elow MP	15.72'+0.27	.,	Sampl	e Collected
- Depth t	to Water Below MP	7,71'	Volatik	e Organics (VOA's)	6
= Water	Column in Well	8.28	1 Liter	Amber Glass	
x Casing	Diameter Multiplier	0,169	ユ" Polyeti	hylene (plastic)	
= Gallon	s in Casing	1.40	Other		
Gallons Pumped	Prior to Sampling	<u> </u>	Sampl	es Filtered	no
Evacuatio	n Method: PVC Bailer	×	Sample N	flethod: Evacuation Bailer	
	Acrillyc Bailer			Disposable Bailer	
	Pump			Pump	
	Other	···		Direct	
			•		
		SAMPLING DA	TA/FIELD PARA	METERS	
		Critical Entire Driv	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Inspection for Free F (thickness to 0.01 fo		cleur			
Time		11:32	11:34	sample 11:45	•
		3	4		
Gals Removed	1.5				······································
Temperature		19.6	19.6	19.6	
Conductivity	1505		<u>1575</u>	1598	
pH	6.87	6,83	6.85	6.85	
Color / Odor	Tan	<u>Tau</u>	<u>Tan</u>	Tan	
Turbidity	med	med	high.	med	
Other			dewatered		
Comments:			<u> </u>		



525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

August 15, 2000

Randal Wilson

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530

Order: 21738

Date Collected: 8/9/00

Project Name: Matheson-Oakland

Date Received: 8/9/00

Project Number:

P.O. Number:

Project Notes:

On August 09, 2000, samples were received under documentented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>

<u>Test</u>

Method

Liquid

EPA 8015 MOD. (Purgeable)

Gas/BTEX

EPA 8020

MTBE by EPA 8260B

EPA 8260B

TPH as Diesel

EPA 8015 MOD. (Extractable)

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,

Michelle L. Anderson

Lab Director

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530

Attn: Randal Wilson

Date: 8/15/00

Date Received: 8/9/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

				Cerune	u Al	iaiyuca	ı veho	11 (
Order ID:	21738		Lab Sa	mple ID:	2173	38-001		Client Sam	ple ID: MW	7-1	
Sample Time:	11:45 AM	[Sam	ple Date:	8/9/	8/9/00		I			
Parameter		Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel		340	x	1	50	50	μ g /L	8/11/00	8/14/00	DW000805	EPA 8015 MOD. (Extractable)
						Surroga	ate	Surr	ogate Recovery	Cont	rol Limits (%)
						Hexacos	ane		105		65 - 135
Order ID:	21738		Lab Sa	mple ID:	2173	38-002		Client Sam	ple ID: MW	7-2	<u> </u>
Sample Time:	9:35 AM		Sam	ple Date:	8/9/0	00	Matrix: Liquid				
Parameter		Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel		63	х	1	50	50	μ g /L	8/11/00	8/14/00	DW000805	EPA 8015 MOD. (Extractable)
						Surroga	ate	Surr	ogate Recovery	Cont	rol Limits (%)
						Hexacos	ane		90	•	65 - 135
Order ID:	21738		Lab Sa	mple ID:	2173	38-003		Client Sam	ple ID: MW	7-3	·
Sample Time:	10:19 AM	[Sam	ple Date:	8/9/0	00		1	Matrix: Liqu	uid	
Parameter		Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel		ND		1	50	50	μg/L	8/11/00	8/14/00	DW000805	EPA 8015 MOD. (Extractable)
						Surroga	ate	Surr	ogate Recovery	Cont	rol Limits (%)
						Hexacos	ane		101		65 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530

Attn: Randal Wilson

Date: 8/15/00

Date Received: 8/9/00

Project Name: Matheson-Oakland

Project Number:

P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID:	21738	Lab Sa	mple II): 2 173	8-004		Client Sam	ple ID: MW	7-4	
Sample Time:	Sample Date: 8/9/00			Matrix: Liquid						
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	260		1	50	50	μg/L	8/11/00	8/14/00	DW000805	EPA 8015 MOD. (Extractable)
					Surroga Hexacos		Surr	ogate Recovery 108	Cont	rol Limits (%) 65 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 8/15/00 Date Received: 8/9/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 217	38	Lab Sa	mple II	D: 2173	8-001		Client Sam	ple ID: MW	7-1			
Sample Time: 11:4	45 AM	Sam	ple Dat	e: 8/9/0	0		Matrix: Liquid					
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
Benzene	ND		1	0.5	0.5	μ g /L	N/A	8/10/00	WGC4000809	EPA 8020		
Toluene	ND		1	0.5	0.5	μg/L	N/A	8/10/00	WGC4000809	EPA 8020		
Ethyl Benzene	ND		1	0.5	0.5	μg/L	N/A	8/10/00	WGC4000809	EPA 8020		
Xylenes, Total	ND		1	0.5	0.5	μg/L	N/A	8/10/00	WGC4000809	EPA 8020		
Aylelies, Total					Surroga	te Surrogate Recovery			Conti	ol Limits (%)		
				aaa	a-Trifluoro	toluene		105		65 - 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
TPH as Gasoline	ND		1	50	50	μg/L	N/A	8/10/00	WGC4000809	EPA 8015 MOD. (Purgeable)		
					Surroga	ite	Surre	ogate Recovery	Conti	ol Limits (%)		
				aaa-Trifluorotoluene				115	65 - 135			

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 8/15/00 Date Received: 8/9/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 21738		Lab Sa	mple II): 2173	8-002		Client Sam	ple ID: MV	7-2			
Sample Time: 9:35 AM	1	Sam	ple Dat	e: 8/9/0	0	Matrix: Liquid						
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
Веплепе	ND		1	0.5	0.5	μg/L	N/A	8/10/00	WGC4000809	EPA 8020		
Toluene	ND		1	0.5	0.5	μg/L	N/A	8/10/00	WGC4000809	EPA 8020		
Ethyl Benzene	ND		1	0.5	0.5	μg/L	N/A	8/10/00	WGC4000809	EPA 8020		
Xylenes, Total	ND		1	0.5	0.5	μg/L	N/A	8/10/00	WGC4000809	EPA 8020		
tylenes, Tolai					Surroga	ate	Surr	ogate Recovery	Conti	rol Limits (%)		
				aa	a-Trifluoro	toluene		103		65 - 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
TPH as Gasoline	ND		1	50	50	μg/L	N/A	8/10/00	WGC4000809	EPA 8015 MOD (Purgeable)		
					Surroga	gate Surrogate Recovery			y Control Limits (%)			
				aa	a-Trifluoro	toluene		111		65 - 135		

DF = Dilution Factor

ND = Not Detected

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PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

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Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 8/15/00 Date Received: 8/9/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 217	738	Lab Sa	mple II): 2173	8-003		Client Sam	ple ID: M	W-3			
Sample Time: 10:	19 AM	Sam	ple Dat	e: 8/9/0	0	Matrix: Liquid						
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
Benzene	ND		1	0.5	0.5	μ g/ L	N/A	8/10/00	WGC4000809	EPA 8020		
Toluene	ND		1	0.5	0.5	μg/L	N/A	8/10/00	WGC4000809	EPA 8020		
Ethyl Benzene	ND		1	0.5	0.5	μ g/L	N/A	8/10/00	WGC4000809	EPA 8020		
Xylenes, Total	ND		1	0.5	0.5	μ g/L	N/A	8/10/00	WGC4000809	EPA 8020		
					Surroga	ate	Surre	ogate Recovei	y Conti	rol Limits (%)		
				223	a-Trifluoro	toluene		103		65 - 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
TPH as Gasoline	ND		1	50	50	μ g /L	N/A	8/10/00	WGC4000809	EPA 8015 MOD (Purgeable)		
					Surroga	ogate Surrogate Recovery			y Conti	rol Limits (%)		
				aaa	a-Trifluoro	toluene		114		65 - 135		

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 8/15/00 Date Received: 8/9/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 217	738	Lab Sa	mple II	D: 2173	8-004		Client Sam	ple ID: M	W-4			
Sample Time: 11:	04 AM	Sam	ple Dat	e: 8/9/0	0	Matrix: Liquid						
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
Benzene	ND		1	0.5	0.5	μg/L	N/A	8/10/00	WGC4000809	EPA 8020		
Toluene	ND		1	0.5	0.5	$\mu g/L$	N/A	8/10/00	WGC4000809	EPA 8020		
Ethyl Benzene	ND		1	0.5	0.5	μg/L	N/A	8/10/00	WGC4000809	EPA 8020		
Kylenes, Total	ND		1	0.5	0.5	μg/L	N/A	8/10/00	WGC4000809	EPA 8020		
					Surroga	ıte	Surre	ogate Recover	y Conti	rol Limits (%)		
				aa	a-Trifluoro	toluene		101.		65 - 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
TPH as Gasoline	110	x	1	50	50	μg/L	N/A	8/10/00	WGC4000809	EPA 8015 MOD (Purgeable)		
					Surroga	ite	Surre	ry Control Limits (%)				
				aas	a-Trifluoro	toluene		110	65 - 135			

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 8/15/00 Date Received: 8/9/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID:	Order ID: 21738			ole ID:	21738-0	01	Clie	MW-1		
Sample Time:	11:45 AM		Sample	Date:	8/9/00					
Parameter Methyl-t-butyl Ether]	Result ND	Flag	DF l	PQL 5	DLR 5	Units μg/L	Analysis Date 8/12/00	QC Batch ID WMS2000812	Method EPA 8260B
	;	Surrogat	te		Surrogat	e Recovery	ÿ	Control Limits	(%)	
		4-Bromo	fluorobenzene			99		65 - 135		
		Dibromo	fluoromethane	:	1	.05		65 - 135		
	,	Toluene-	đ8			95		65 - 135		

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director Environmental Analysis Since 1983

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson

Date: 8/15/00 Date Received: 8/9/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 21738		Lab Sam	ple ID:	21738-0	02	Clie	Client Sample ID: MW-2				
Sample Time: 9:35 AM		Sampl	e Date:	8/9/00			Matrix: Liquid				
Parameter Methyl-t-butyl Ether	Result ND	Flag	DF	PQL 5	DLR 5	Units µg/L	Analysis Date 8/12/00	QC Batch ID WMS2000812	Method EPA 8260B		
Methyl-t-batyl Ether	Surrogat	e		-	te Recover		Control Limits				
	4-Bromof	luorobenzen	e	_	97		65 - 135				
	Dibromof	luoromethan	e		103		65 - 135				
	Toluene-c	18			99		65 - 135				

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Page 2 of 4

CA ELAP# 2346

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Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530

Attn: Randal Wilson

Date: 8/15/00

Date Received: 8/9/00

Project Name: Matheson-Oakland

Project Number:

P.O. Number: Sampled By: Randal Wilson

Certified Analytical Report

Order ID:	21738		Lab Sam	ple ID:	21738-0	03	Clie	Client Sample ID: MW-3				
Sample Time:	10:19 AM		Sample	e Date:	Date: 8/9/00			Matrix: Liquid				
Parameter		Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method		
Methyl-t-butyl Ether		ND		1	5	5	μg/L	8/12/00	WMS2000812	EPA 8260B		
		Surroga	te		Surrogat	e Recovery	r	Control Limits	(%)			
		4-Bromo	fluorobenzene	e		97		65 - 135				
		Dibromo	fluoromethan	e		105		65 - 135				
		Toluene-	-d8			99		65 - 135				

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Page 3 of 4

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson

Date: 8/15/00 Date Received: 8/9/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 21738

Lab Sample ID: 21738-004

Client Sample ID: MW-4

11:04 AM	Sample	e Date:	8/9/00		Matrix: Liquid						
Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method			
ND		1	5	5	μg/L	8/12/00	WMS2000812	EPA 8260B			
Surrogate	Surroga			te Recover	y	Control Limits	•				
4-Bromoflu	orobenzene	:		97							
Dibromoflu	oromethan	e		104		65 - 135					
Toluene-d8				99		65 - 135					
	Result ND Surrogate 4-Broπoflu Dibromoflu	Result Flag ND Surrogate 4-Bromofluorobenzene	Result Flag DF ND 1 Surrogate 4-Bromofluorobenzene Dibromofluoromethanc	Result Flag DF PQL ND 1 5 Surrogate Surrogat 4-Bromofluorobenzene Dibromofluoromethane	Result Flag DF PQL DLR ND 1 5 5 Surrogate Surrogate Recovery 4-Bromofluorobenzene 97 Dibromofluoromethane 104	Result Flag DF PQL DLR Units ND 1 5 5 μg/L Surrogate Surrogate Recovery 4-Bromofluorobenzene 97 Dibromofluoromethane 104	Result Flag DF PQL DLR Units Analysis Date ND 1 5 5 μg/L 8/12/00 Surrogate Surrogate Recovery Control Limits 4-Bromofluorobenzene 97 65 - 135 Dibromofluoromethane 104 65 - 135	Result Flag DF PQL DLR Units Analysis Date QC Batch ID ND 1 5 5 μg/L 8/12/00 WMS2000812 Surrogate Surrogate Recovery Control Limits (%) 4-Bromofluorobenzene 97 65 - 135 Dibromofluoromethane 104 65 - 135			

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director Environmental Analysis Since 1983

Page 4 of 4

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STANDARD LAB QUALIFIERS (FLAGS)

All Entech lab reports now reference standard lab qualifiers. These qualifiers are noted in the adjacent column to the analytical result and are adapted from the U.S. EPA CLP program. The current qualifier list is as follows:

Qualifier	Description
(Flag)	
U	Compound was analyzed for but not detected
J	Estimated value for tentatively identified compounds or if result is below PQL but above MDL
N	Presumptive evidence of a compound (for Tentatively Identified Compounds)
В	Analyte is found in the associated Method Blank
E	Compounds whose concentrations exceed the upper level of the calibration range
D	Multiple dilutions reported for analysis; discrepancies between analytes may be due to dilution
X	Results within quantitation range; chromatographic pattern not typical of fuel

525 Del Rey Avenue, Suite E Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography Laboratory Control Spikes

QC Batch #: DW000805

Date analyzed:

08/13/00

Matrix: Liquid

Date extracted:

08/11/00

Units: µg/L

Quality Control Sample:

Blank Spike

PARAMETER	Method #	MB μg/L	SA μg/L	SR µg/L	SP μg/L	SP %R	SPD μg/L	SPD %R	RPD	RPD :	C LIMITS %R
Diesel	8015M	<50.0	1000	ND		115	1160	116	1.2	25	62-120

Hexocosane(S.S.)

114% 109%

110%

65-135

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank

SA: Spike Added

SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R) Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R) Spike Duplicate % Recovery

NC: Not Calculated

QUALITY CONTROL RESULTS SUMMARY

Volatile Organic Compounds Laboratory Control Sample

QC Batch #: WMS2000812

Matrix: Liquid Units: μg/L Date analyzed: 08/12/00 Spiked Sample: Blank Spike

Oms. F5										
PARAMETER	Method #	SA μg/L	SR µg/L	SP μg/L	SP %R	SPD μg/L	SPD %R	RPD	RPD	C LIMITS %R
1,1- Dichloroethene	8240/8260	40	ND	41.6	104	41.6	104	0.0	25	50-150
Methyl-tert-butyl ether	8240/8260	40	ND	42.1	105	44.8	112	6.2	25	50-150
Benzene	8240/8260	40	ND	41.7	104	47.6	119	13.2	25	50-150
Trichloroethene	8240/8260	40	ND	41.4	104	42.7	107	3.1	25	50-150
Toluene	8240/8260	40	ND	36.8	92	45.7	114	21.6	25	50-150
Chlorobenzene	8240/8260	40	ND	38.3	96	41.8	105	8.7	25	50-150
Surrogates		1 1						ł		
MTBE-d3	8240/8260	1	87%	91%		87%				65-135
Dibromofluoromethane	8240/8260		104%	107%		109%				65-135
Toluene-d8	8240/8260		93%	90%		96%				65-135
4-Bromofluorobenzene	8240/8260	į	99%	102%		100%		Ī	1	65-135

Definition of Terms:

na: Not Analyzed in QC batch

SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result

SPD (%R): Spike Duplicate % Recovery

525 Del Rey Avenue, Suite E Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography Laboratory Control Sample

QC Batch #: WGC4000809

Matrix: Liquid Units: μg/Liter Date Analyzed: 08/09/00 Quality Control Sample: Blank Spike

PARAMETER	Method #	MB μg/Liter	SA μg/Liter	SR µg/Liter	SP μg/Liter	SP % R	SPD µg/Liter	SPD %R	% RPD	QC RPD	LIMITS %R
Benzene	8020	< 0.50	5.2	ND	5.2	101	5.3	102	1.6	25	70-130
Toluene	8020	< 0.50	29	ND	30	103	31	106	2.5	25	70-130
Ethyl Benzene	8020	< 0.50	5.6	ND	5.6	100	5.8	103	3.2	25	70-130
Xylenes	8020	< 0.50	32	ND	30	93	31	94	1.8	25	70-130
Gasoline	8015	<50.0	469	ND	492	105	453	97	8.1	25	70-130
aaa-TFT(S.S.)-FID	8020			114%	107%		105%	•			65-135
aaa-TFT(S.S.)-PID	8015			103%	101%		102%				65-135

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike % Recovery

nc: Not Calculated



Environmental & Water Resources Engineering Groundwater Consultants

Fax Cover Sheet

	08/10/2000		10:18						
TO:	Lori	PHONE:	1400						
	Enrech	FAX:	1408	735	1554				
FROM:	Randal Wilson	PHONE:	(510) 6	320-08	91				
	Hageman-Aguiar	FAX:	(510) 6	320-08	194				
RE:									
CC:			•						
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CHAIN OF CUSTODY RECORD

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