### BASELINE

#### ENVIRONMENTAL CONSULTING

10 October 1996 93333-B0

Mr. George Muehleck Woodward-Clyde Consultant 500 12th Street, Suite 100 Oakland, CA 94607-4014

Subject: Groundwater Monitoring Event at the City of Oakland, Municipal Service Center, 7101 Edgewater Drive - August 1996

Dear Mr. Muehleck:

This letter documents the groundwater monitoring activities performed by BASELINE at the Municipal Service Center (MSC) in August 1996 (Figure 1). All field work was performed by BASELINE staff. Sampling procedures and analytical results are summarized below.

#### GROUNDWATER SAMPLING AND ANALYSES

#### **Groundwater Sampling**

Groundwater samples were collected from groundwater monitoring wells MW-1, MW-2, MW-5, MW-6, and MW-7 (Figure 2) on 27 August 1996. Sample bottles were provided by the analytical laboratory. Groundwater sampling forms are provided in Attachment A. Sampling procedures were performed as follows:

- Monitored vapor in well casing using an HNu instrument upon opening well cap.
- Measured product/water level and total depth of well from top of casing using dualinterface probe; decontaminated probe by washing in TSP solution and rinsing with DI water.
- Purged monitoring wells using double diaphragm pump and new disposable hose; the purge water was discharged into a 55-gallon drum.
- Measured temperature, pH, and conductivity of the purged water.
- Purged a minimum of 3.5 well volumes until parameters had stabilized.
- Collected groundwater samples using new disposable polyethylene bailers after the water level had recovered to at least 98 percent of original level, except at monitoring well MW-1. Monitoring well MW-1 pumped dry during purging. The water level had recovered to approximately 73% of the original water level prior to sample collection.
- Filled sample bottles for volatile organic analyses using volatile organic compound attachments to minimize turbulence and to prevent air bubbles; filled other sample bottles directly from bottom of bailer.
- Collected duplicate sample from MW-5 (labeled sample MW-5A).
- Stored labeled sample bottles in plastic cooler with blue ice; samples were picked up by MOLLECTION Chromalab laboratory using chain-of-custody procedures. EINALDOMARRIANT



Mr. George Muehleck 10 October 1996 Page 2

Labeled and secured 55-gallon drums containing purge and decontamination water.

Petroleum odor was noted during purging of monitoring well MW-6. A coating of product was observed on the tubing and bailer used for MW-6 and a slight sheen was identified on the groundwater sample collected from that well.

#### **Analytical Results**

The analyses performed on each sample are summarized in Table 1. The samples were analyzed by Chromalab, Inc., a State-certified laboratory located in Pleasanton, California. A silica-gel cleanup on samples analyzed for petroleum hydrocarbons (MW-5, MW-5A, and MW-6) was performed. Analytical results for groundwater monitoring events performed from April 1995 to August 1996 are included in Tables 2 and 3. The laboratory report for this groundwater monitoring event is provided in Attachment B.

#### **Groundwater Level Measurements**

Groundwater level measurements were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, and MW-7 during groundwater sampling activities on 27 August 1996; measurements were collected within one-half hour during intermediate rising tide. The groundwater gradient was calculated to be 0.014 ft/ft at the northern portion of the site (MW-1 through MW-4), with a flow direction toward the northwest at approximately N12W. The groundwater flow gradient was calculated to be 0.004 ft/ft at the southern portion of the site (MW-5 through MW-7), with a flow direction toward the southwest at approximately S27W. The groundwater elevation data collected during the last four quarterly groundwater monitoring events (December 1995 to August 1996) are shown on Table 4. Groundwater contours for the 27 August 1996 event are shown on Figure 2.

Please contact us at your convenience if you have any questions regarding these groundwater monitoring activities or need additional information.

Sincerely,

Mark Filippin

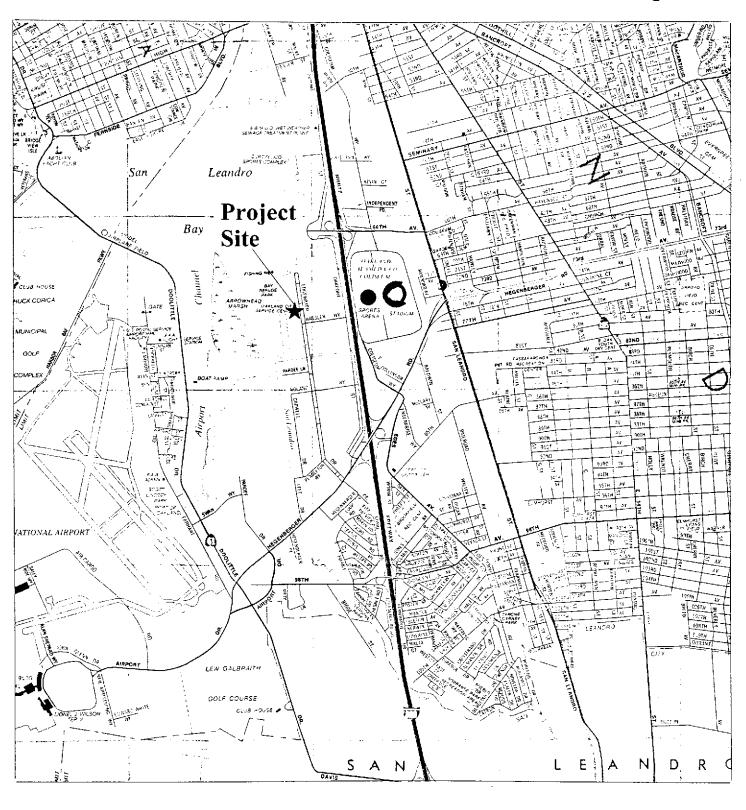
Senior Engineering Geologist Cert. Eng. Geologist No. 1312

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Civil Engineer

### **REGIONAL LOCATION**

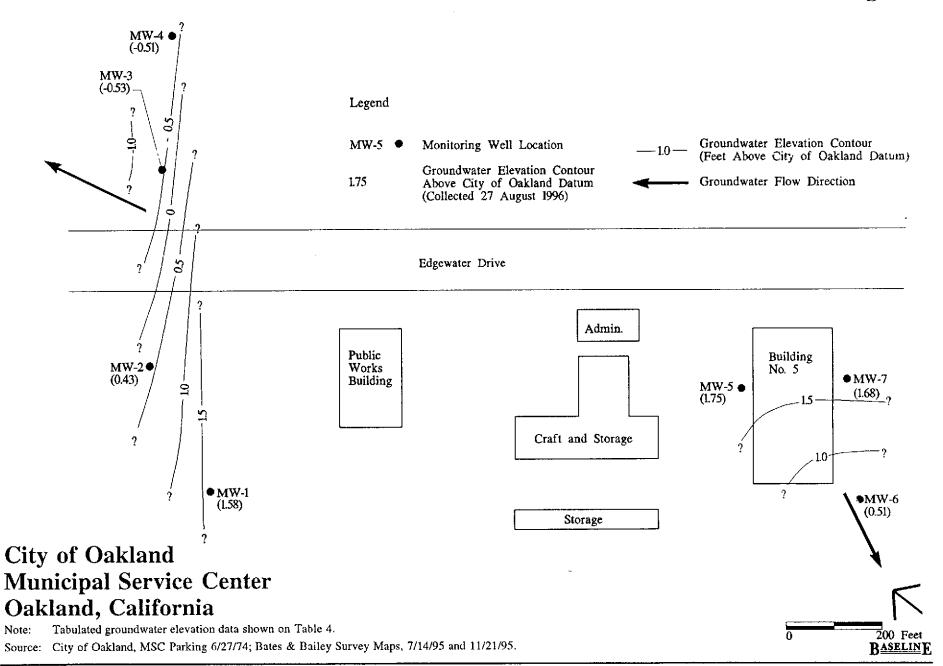
Figure 1



City of Oakland Municipal Service Center Oakland, California



BASELINE



#### TABLE 1 LABORATORY ANALYSES PERFORMED ON GROUNDWATER SAMPLES Oakland Municipal Service Center August 1996

	TOTAL	PETROLEU	M HYDROCA	RBONS				METALS <sup>3</sup>		
Location	Gasoline	Diesel¹ 🕷	Kerosene <sup>1</sup> (3510/8015)	Motor Oil <sup>1</sup>	BTEX <sup>2</sup> (8020)	Cadmium (6010)	Chromium (6010)	Lead (6010)	Nickel (6010)	Zinc (6010)
MW-1	<b>\</b>				/					
MW-2					1			1		
MW-5	1	✓	✓	✓	1					✓
MW-5A <sup>4</sup>	1	1	1	✓	/			+-		/
MW-6	✓	1			✓	1	/	1	/	✓
MW-7					1	✓	/		/	✓
Trip Blank <sup>5</sup>	/				/					

-- = Not analyzed. Notes:

Number shown in parenthesis indicates the EPA method used for analysis.

- A silica gel cleanup (EPA Method 3630) was conducted prior to analysis. BTEX = Benzene, toluene, ethylbenzene, and xylenes.

  All samples for metals analyses were filtered in the laboratory.

- Duplicate sample of MW-5.
  Labeled MW-500 on chain-of-custody form.

# TABLE 2 METAL CONCENTRATIONS, GROUNDWATER Oakland Municipal Service Center

(mg/L)

	Mag.		rangan a sa s			
Sample	Date	Cadmium	Chromium	Lead	Nickel	Zinc
MW-1	4/19/95			< 0.01		
	7/27/95			< 0.01		
	11/20/95			< 0.01		
	2/21/96			<0.01		
MW-2	4/19/95	••	'	0.10		
	7/27/95			0.07		
<u> </u>	11/20/95			< 0.01		
	2/21/96			< 0.01		
	5/13/96			< 0.005		
	8/27/96			0.471		
MW-5	4/19/95	<0.005	<0.01	<0.01	< 0.01	0.02
	7/27/95	< 0.005	< 0.01	< 0.01	< 0.01	₹ <0.01
	11/20/95	< 0.005	< 0.01	< 0.01	<0.01	< 0.01
	2/21/96	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
	5/13/96					< 0.01
	8/27/96					<0.01
MW-5A	5/13/96					<0.01
	8/27/96					0.01
MW-6	4/19/95			0.41		
	7/27/95			< 0.01		
	11/20/95	< 0.005	< 0.01	< 0.01	0.01	0.01
1	2/21/96		< 0.01	< 0.01	0.02	< 0.01
	5/13/96		< 0.005	< 0.005	0.016	<0.01
	8/27/96	< 0.002	<0.005	<0.005	0.017	0.015
MW-6A	4/19/95			0.39		
	7/27/95			< 0.01		
	11/20/95	< 0.005	< 0.01	< 0.01	0.02	<0.01
	2/21/96	< 0.005	<0.01	<0.01	0.02	<0.01
MW-7	4/19/95	0.069	0.071	<0.01	0.08	0.04
	7/27/95	< 0.005	< 0.01	<0.01	0.08	0.11
	11/20/95	< 0.005	<0.01	<0.01	0.14	0.02
	2/21/96	<0.005	<0.01	<0.01	0.24	0.06
	5/13/96	<0.002	<0.005		0.12	0.015
	8/27/96	<0.002	<0.005		0.092	0.030

Notes: Groundwater samples were filtered by the laboratory prior to preservation and analysis, where indicated. Analyzed by EPA method 6010.

< x.x = Metal not identified at or above the laboratory reporting limit of x.x.

x.x =Concentrations detected above laboratory reporting limit.

-- = No analyses performed.

MW-5A = Duplicate sample of MW-5.

MW-6A = Duplicate sample of MW-6.

Laboratory report is provided in Attachment B for the most recent sampling event.

Sampling locations are shown on Figure 2.

Sample was erroneously filtered after preservation.

TABLE 3

PETROLEUM AND VOLATILE ORGANIC COMPOUND CONCENTRATIONS, GROUNDWATER

Oakland Municipal Service Center

(mg/L)

Sample	Date	TPH as Gasoline <sup>1</sup>	TPH as Kerosene <sup>2</sup>	TPH as Diesel <sup>2</sup>	TPH as Motor Oil <sup>1</sup>	TRPH <sup>3</sup>	Benzene*	Toluene <sup>4</sup>	Ethyl- benzene	Xylenes <sup>4</sup>
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, , , , , , , , , , , , , , , , , , ,		2120104 071	AU 0 1 18 11 11 11 11			0.023	0.021
MW-1	04/19/95	3.2					0.88	0.015 0.0036	0.023	0.021
	07/27/95	0.98					0.13	0.0038	0.0014	0.0036
	11/20/95	0.40					0.099	0.0028	0.0011	0.0040
	02/21/96	1.7		<del></del>			0.34 2.0	0.0084	0.0033	0.018
	05/13/965	7.3		<del></del>			2.0 0.061	0.0024	<0.0005	0.038
	08/27/96	0.38								
MW-2	04/19/95	<0.05					0.0018	< 0.0005	<0.0005	<0.0005
	07/27/95	<0.05					0.0023	< 0.0005	< 0.0005	<0.0005
	11/20/95	<0.05					0.0022	< 0.0005	< 0.0005	<0.0005
	02/21/96	<0.05					0.0017	< 0.0005	<0.0005	<0.0005
	05/13/96						0.002	<0.0005	< 0.0005	<0.0005
	08/27/96						0.0024	<0.0005	<0.0005	<0.0005
MW-5	04/19/95	14		0.886		4.7	0.49	0.051	0.61	1.2
IVI VV -J	07/27/95	22		0.597		5.0	1.38	0.054 <sup>8</sup>	1.58	2.48
	11/20/95	8.9	1.99	<0.05	<0.5		0.43	0.031	0.61	0.88
	02/21/96	10	<0.05	0.48 <sup>10</sup>	<0.5		0.54	0.065	0.7	0.97
	05/13/965,11	5.9	<0.05	<0.05	<0.5		0.43	0.026	0.58	0.76
	08/27/9611	6.6	<0.051	2.015	<0.51		0.43	0.027	0.6	0.65
		1					]			
MW-5A	05/13/96 <sup>5,11</sup>	7.3	< 0.05	<0.05	<0.5		0.36	0.022	0.49	0.64
	08/27/9611	6.3	<0.051	0.6615	<0.51		0.41	0.025	0.58	0.62
MW-6	04/19/95	5.7		6.76			0.04	<0.0008	0.0039	0.029
	07/27/95	6.1		3.9			0.43	0.015	0.2	0.6
	11/20/95	6.8		0.8512			0.16	0.0046	0.008	0.24
	02/21/96	2.8		1.710	l <u></u>		0.23	0.0028	0.0038	0.044
	05/13/965,11	3.1	< 0.05	0.413	<0.5		0.43	0.012	0.0052	0.067
	08/27/96	4.2		3.115			0.3	0.0093	0.110	0.110
MW-6A	04/19/95	3.0	·	3.76			0.31	0.0031	0.0027	0.1
MW-6A	04/19/93	6.3		2.6			0.42	0.0051	0.2	0.6
	11/20/95	3.6		0.8312			0.13	0.011	0.0044	0.2
	02/21/96	2.2		2.510		<del></del>	0.28	0.003	0.004	0.046
		1		1						
MW-7	04/19/95	<0.05		<0.05		<1.0	<0.002	<0.002	<0.002	<0.002
	07/27/95	<0.05		<0.05		<1.0	<0.00214	<0.00214	<0.00214	<0.00211
	11/20/95	<0.05		<0.05			<0.0005	<0.0005	<0.0005	0.0015
	02/21/96	<0.05		<0.05	<u></u>	w-	<0.0005	<0.0005	<0.0005	<0.0005
	05/13/96						<0.0005	<0.0005	<0.0005	<0.0005
	08/27/96						<0.0005	<0.0005	<0.0005	<0.0005
MW-500	04/19/95	<0.05					<0.0005	<0.0005	<0.0005	<0.0005
	07/27/95	<0.05					<0.0005	< 0.0005	< 0.0005	<0.0005
	11/20/95	<0.05					<0.0005	<0.0005	0.0005	<0.0005
	02/21/96	<0.05					<0.0005	<0.0005	< 0.0005	<0.0005
	05/13/965	<0.05					<0.0005	<0.0005	< 0.0005	<0.0005
1	08/27/96	<0.05					<0.0005	<0.0005	< 0.0005	<0.0005

Notes:

TPH = Total Petroleum Hydrocarbons.

TRPH = Total Recoverable Petroleum Hydrocarbons.

-- = Compound not analyzed.

< x.x = Compound not identified at or above the laboratory reporting limit of x.x

 $\mathbf{x}.\mathbf{x}$  = Concentrations detected at or above laboratory reporting limit.

Laboratory report is provided in Attachment B for the most recent sampling event.

Sampling locations are shown on Figure 2.

MW-5A = Duplicate sample of MW-5.

MW-6A = Duplicate sample of MW-6.

MW-500 = Trip blank sample.

- <sup>1</sup> Analyzed by EPA Method 5030/8015M.
- Analyzed by EPA Method 3510/8015M.
- 3 Analyzed by EPA Method 418.1.
- Analyzed by EPA Method 8020.
- <sup>5</sup> Head space was found in the VOA samples. Head space may be due to a chemical reaction between the HCl preservative and dissolved solids in water samples. However, the samples were analyzed within three days of sample collection.
- <sup>6</sup> Laboratory report indicated sample chromatogram did not resemble chromatogram of any of the petroleum standards. Quantification listed in the table was based on the laboratory's diesel standard.
- Ouantification listed in the table represents unknown hydrocarbon identified in the diesel range.
- <sup>8</sup> This sample was also analyzed for volatile organic compounds using EPA Method 8240. Only BTEX was identified above the reporting limits.
- 9 Quantification listed in the table represents unknown hydrocarbon identified in the kerosene range.
- Unknown hydrocarbons in the diesel range did not match any of the laboratory petroleum hydrocarbon standard profiles. Quantification in the table represents unknown hydrocarbons compared with the laboratory diesel standard. The unknown hydrocarbons may represent a combination of gasoline and weathered diesel or biogenic material.
- Samples were subjected to a silica gel cleanup prior to kerosene, diesel, and motor oil analyses by EPA Method 8015M.
- Unknown hydrocarbon in the kerosene range was identified by the laboratory. According to the laboratory, the quantified diesel value includes the unknown hydrocarbon identified in the kerosene range.
- Laboratory report indicated sample chromatogram did not resemble chromatogram of diesel standard. Quantification listed in table was based on laboratory's diesel standard.
- This sample was analyzed for volatile organic compounds using EPA Method 8240. No compounds were identified above the laboratory reporting limits.
- Laboratory report indicated hydrocarbon reported did not match laboratory standard for diesel pattern. Concentration was estimated due to overlapping fuel patterns and was reported as a diesel concentration. Quantification may include hydrocarbons in the gasoline range.

TABLE 4
GROUNDWATER ELEVATIONS
Oakland Municipal Service Center

Location	Date	Time	Tide	Depth to Water (feet bgs)	Top of Casing Elevation (feet above COD)	Water Surface Elevation (feet above COD)
MW-1	12/21/95 12/21/95 2/21/96 5/13/96 8/27/96	10:25 17:21 8:45 8:15 9:46	Low IRT IRT	6.29 6.30 4.62 4.33 5.25	6.83	0.54 0.53 2.21 2.50 1.58
MW-2	12/21/95 12/21/95 2/21/96 5/13/96 8/27/96	10:50 17:20 8:10 7:57 9:32	Low IRT IRT	7.51 7.48 6.68 6.32 6.84	7.27	-0.24 -0.21 0.59 0.95 0.43
MW-3	12/21/95 12/21/95 2/21/96 <sup>1</sup> 5/13/96 8/27/96	10:40 17:38  8:05 9:37	Low  IRT	4.48 4.62  2.98 4.47	3.94	-0.54 -0.68  0.96 -0.53
MW-4	12/21/95 12/21/95 2/21/96 5/13/96 8/27/96	10:32 17:32 8:08 8:07 9:40	Low IRT IRT	4.26 4.21 0.31 <sup>2</sup> 3.87 5.15	4.64	0.38 0.43 4.33 0.77 -0.51
MW-5	12/21/95 12/21/95 2/21/96 5/13/96 8/27/96	10:35 17:26 8:31 8:24 9:53	Low IRT IRT	6.53 6.53 5.97 6.25 6.40	8.15	1.62 1.62 2.18 1.90 1.75
MW-6	12/21/95 12/21/95 2/21/96 5/13/96 8/27/96	10:40 17:36 13:30 8:27 9:56	Low IRT IRT	7.88 7.84 7.40 <sup>3</sup> 7.10 7.42	7.93	0.05 0.09 0.53 0.83 0.51
MW-7	12/21/95 12/21/95 2/21/96 5/13/96 8/27/96	10:50 17:33 8:29	Low IRT IRT	6.94 6.90 6.29 6.95 6.80	8.48	1.54 1.58 2.19 1.53 1.68

Notes: bgs = below ground surface

COD = City of Oakland Datum.

IRT = Intermediate Rising Tide.

Monitoring wells were surveyed by Bates & Bailey.

Unable to collect water level reading because well box cover and vicinity were inundated with approximately four inches of surface water.

Monitoring well cap was loose.

Water level reflects second water level reading. The water level was steadily rising during the collection of the initial water level reading at 8:50 a.m. A water level depth of 7.62 feet bgs was measured at 8:50.

### ATTACHMENT A

GROUNDWATER SAMPLING FORMS

Project name   WWC-Oakland MSC   Depth of well from TOC (feet):   15.8	Project no.:		93333-BO	Well no.:	MW-1		Date: 8/27/96
Cakland, CA   Screened interval from TOC (feet):   6-15.8	Project name:		WWC-Oakland MSG	Depth of wel	l from TOC (feet):	15.8	
Recorded by:   TT/BB	Location:		7101 Edgewater	Well diamete	er (inch):	2	
Weather:         Sunny         Water level from TOC (feet):         5.25         Time:         9:4           Precip in past         Product level from TOC (feet):         None         Time:         9:4           5 days (inch):         0         Water level measurement:         Dual-interface probe           VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING:         1.7         pallons in one well volumes           [(15.8 ft) - (5.25 ft)] × (0.083 ft)² × 3.14 × 7.48 =         1.7         gallons in one well volumes           Well depth         Water level         Well radius         8.5         gallons in 5 well volumes           Well depth         Water level measurement:         EC         (umho/cm)         EC           Calibration Standard:         7.00/10.01         1.000         1.000           Before Purging:         10:15         21.2         7.00/10.01         950         1.000           After Purging:         13:10         23.4         6.97/9.19         950         1.000           FIELD MEASUREMENTS:           Cumulative Gallons         Cumulative Gallons         Appearance           10:57         24.4         6.58         10,000         1.0 <t< td=""><td></td><td>1</td><td>Oakland, CA</td><td>Screened inte</td><td>erval from TOC (feet</td><td>): <u>6-15.8</u></td><td></td></t<>		1	Oakland, CA	Screened inte	erval from TOC (feet	): <u>6-15.8</u>	
Weather:         Sunny         Water level from TOC (feet):         5.25         Time:         9:4-           Precip in past         Product level from TOC (feet):         None         Time:         9:4-           5 days (inch):         0         Water level measurement:         Dual-interface probe           VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING:         1.7         gallons in one well volumes           Well depth         Water level         Well radius         1.7         gallons in one well volumes           Well depth         Water level         Well radius         8.5         gallons in 5 well volumes           CALIBRATION:         Temp         EC           Calibration Standard:         Time         7.00/10.01         1,000           Before Purging:         10:15         21.2         7.00/10.01         950           After Purging:         13:10         23.4         6.97/9.19         950    FIELD MEASUREMENTS:  Temp  Temp  Temp  Temp  Temp  Quantomic factories and factories and factories are factories and fa	Recorded by:		TT/BB	TOC elevation	on (feet):	6.83 (City of	Oakland Datum)
Precip in past				Water level f	rom TOC (feet):	5.25	Time: 9:46
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING:    [( 15.8 ft) - ( 5.25 ft)] × ( 0.083 ft)² × 3.14 × 7.48 =   1.7 gallons in one well volumes   Well depth   Water level   Well radius   8.5 gallons in 5 well volumes   6.5 total gallons removed				•		None	<del></del>
[( 15.8 ft) - ( 5.25 ft)] × ( 0.083 ft)² × 3.14 × 7.48 =			0			Dual-interfac	
[( 15.8 ft) - ( 5.25 ft)] × ( 0.083 ft)² × 3.14 × 7.48 =		ATER TO	BE REMOVED B	EFORE SAM	PLING: qul/C+>		
Well depth   Water level   Well radius   R.5 gallons in 5 well volumes   6.5 total gallons removed							e well volume
CALIBRATION:  Temp	-,	-	•			.5 gallons in 5 v	well volumes
CALIBRATION:         Temp         EC           Calibration Standard:         7.00/10.01         1,000           Before Purging:         10:15         21.2         7.00/10.01         950         4           After Purging:         13:10         23.4         6.97/9.19         950         4           FIELD MEASUREMENTS:           Cumulative Gallons           Time         (° C)         pH         (umho/cm)         Removed         Appearance           10:57         24.4         6.58         10,000         1.0         Clear           11:03         23.8         6.64         7,000         3.0         Clear           11:08         23.8         6.66         8,000         5.0         Clear           11:14         23.9         6.65         8,000         6.5         Clear		•		02 1	6	.5 total gallons	removed
Time (° C) pH (umho/cm)  Calibration Standard: Before Purging: 10:15 21.2 7.00/10.01 1,000 After Purging: 13:10 23.4 6.97/9.19 950  FIELD MEASUREMENTS:  Cumulative Gallons Time (° C) pH (umho/cm) Ti				K			
Calibration Standard:	CALIBRATION:			Temn		FC	
Calibration Standard:  Before Purging: 10:15 21.2 7.00/10.01 1,000 After Purging: 13:10 23.4 6.97/9.19 950  FIELD MEASUREMENTS:  Temp  Time (°C)  10:57 24.4 6.58 10,000 1.0  11:03 23.8 6.64 7,000 3.0  11:08 23.8 6.66 8,000 5.0  11:14 23.9 6.65 8,000 6.5 Clear			Time	-	<u>р</u> Н		1
Before Purging: 10:15	Calibration S	Standard:	******	<u> </u>			-
FIELD MEASUREMENTS:  Temp  Time  (° C)  10:57  24.4  11:03  23.8  11:08  23.8  6.64  11:08  23.8  6.66  10:0000  10:000  10:000  10:000  10:000  10:000  10:000  10:000  10:0000  10:000  10:000  10:000  10:000  10:000  10:000  10:000  10:00000  10:0000  10:0000  10:0000  10:0000  10:0000  10:0000  10:00000  10:0000  10:0000  10:0000  10:0000  10:0000  10:0000  10:00000  10:0000  10:0000  10:0000  10:0000  10:0000  10:0000  10:00000  10:0000  10:0000  10:0000  10:0000  10:0000  10:0000  10:00000  10:0000  10:0000  10:0000  10:0000  10:0000  10:0000  10:00000  10:0000  10:0000  10:0000  10:0000  10:0000  10:0000  10:00000  10:0000  10:0000  10:0000  10:0000  10:0000  10:0000  10:00000  10:0000  10:0000  10:0000  10:0000  10:0000  10:0000  10:00000  10:0000  10:0000  10:0000  10:0000  10:0000  10:0000  10:00000  10:0000  10:0000  10:0000  10:0000  10:0000  10:0000  10:00000  10:00000  10:0000  10:00000  10:0000  10:0000  10:00000  10:0000  10:00000	Before	Purging:	10:15				1 .
Time         (° C)         pH         (μmho/cm)         Removed         Appearance           10:57         24.4         6.58         10,000         1.0         Clear           11:03         23.8         6.64         7,000         3.0         Clear           11:08         23.8         6.66         8,000         5.0         Clear           11:14         23.9         6.65         8,000         6.5         Clear	After	Purging:	13:10	23.4	6.97/9.19	950	
Time         (° C)         pH         (μmho/cm)         Removed         Appearance           10:57         24.4         6.58         10,000         1.0         Clear           11:03         23.8         6.64         7,000         3.0         Clear           11:08         23.8         6.66         8,000         5.0         Clear           11:14         23.9         6.65         8,000         6.5         Clear		*					٠
Time         (° C)         pH         (μmho/cm)         Removed         Appearance           10:57         24.4         6.58         10,000         1.0         Clear           11:03         23.8         6.64         7,000         3.0         Clear           11:08         23.8         6.66         8,000         5.0         Clear           11:14         23.9         6.65         8,000         6.5         Clear	FIELD MEASUR	EMENT	S:				
Time         (° C)         pH         (μmho/cm)         Removed         Appearance           10:57         24.4         6.58         10,000         1.0         Clear           11:03         23.8         6.64         7,000         3.0         Clear           11:08         23.8         6.66         8,000         5.0         Clear           11:14         23.9         6.65         8,000         6.5         Clear	,	T		EC	\		
10:57 24.4 6.58 10,000 1.0 Clear 11:03 23.8 6.64 7,000 3.0 Clear 11:08 23.8 6.66 8,000 5.0 Clear 11:14 23.9 6.65 8,000 6.5 Clear		-	<b>T</b> I		\		Annagrance
11:03 23.8 6.64 7,000 3.0 Clear 11:08 23.8 6.66 8,000 5.0 Clear 11:14 23.9 6.65 8,000 6.5 Clear	<u>11me</u>	<u>(* C)</u>	<u>pri</u>	(Lumno/Cm)	Removed	4	Appearance
11:03 23.8 6.64 7,000 3.0 Clear 11:08 23.8 6.66 8,000 5.0 Clear 11:14 23.9 6.65 8,000 6.5 Clear	10.57	24.4	6.58	10 000	1.0		Clear
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				1	i i		-
11:14 23.9 6.65 \ 8,000 \ \ 6.5 Clear				1 '	1		Clear
				1 '	,		Clear
\ /			DRY				
	Pumping rate:		0.38 gpm		HNu re	ading in wellhea	
		ourging p		): 7.10	6		Time: 14:00
Water level after purging prior to sampling (feet): 7.16 Time: 14:	Appearance of sar	nple:	Clear				Time: 14:02
Water level after purging prior to sampling (feet): 7.16 Time: 14: Appearance of sample: Clear Time: 14:					·		Time:
Water level after purging prior to sampling (feet): 7.16  Appearance of sample: Clear  Duplicate/blank number:  Time: 14:  Time: 14:  Time: 14:	Purge method:		Double diaphragm p	ump with new	disposable hose		
Water level after purging prior to sampling (feet): 7.16  Appearance of sample: Clear  Duplicate/blank number: Time:  Purge method: Double diaphragm pump with new disposable hose	Sampling equipme	ent:		ethylene bailer	VOC attachment:	Used for VO	As
Water level after purging prior to sampling (feet): 7.16  Appearance of sample: Clear  Duplicate/blank number: Time:  Purge method: Double diaphragm pump with new disposable hose	-	3:	2 40-ml VOAs				<del> </del>
Water level after purging prior to sampling (feet): 7.16 Time: 14:  Appearance of sample: Clear Time: 14:  Duplicate/blank number: - Time:  Purge method: Double diaphragm pump with new disposable hose  Sampling equipment: New disposable polyethylene bailer VOC attachment: Used for VOAs  Sample containers: 2 40-ml VOAs	Sample analyses:				_Laboratory:		
Water level after purging prior to sampling (feet): 7.16 Time: 14:  Appearance of sample: Clear Time: 14:  Duplicate/blank number: - Time:  Purge method: Double diaphragm pump with new disposable hose  Sampling equipment: New disposable polyethylene bailer VOC attachment: Used for VOAs  Sample containers: 2 40-ml VOAs  Sample analyses: TPH as gasoline, BTEX Laboratory: Chromalab	Decontamination:	method:	TSP and water, DI v	vater rinse	Rinsate disposal:	Marked drun	ns on-site

GROUND	WAIER	SAMPLING				
Project no.:		93333-ВО	, ,	MW-2		Date: 8/27/96
Project name:		WWC-Oakland MSC	Depth of well	from TOC (fee	t): <u>15.7</u>	
Location:		7101 Edgewater	Well diameter	(inch):	2	·
		Oakland, CA	Screened inter	val from TOC	(feet): <u>6-15.7</u>	
Recorded by:		TT/BB	TOC elevation	ı (feet):	7.27 (City of 0	Dakland Datum)
Weather:		Sunny	Water level from	om TOC (feet):	6.84	_Time: 9:32
Precip in past			Product level:	from TOC (feet	i): None	Time: 9:32
5 days (inch):_		0	Water level m	easurement:	Dual-interface	probe
VOLUME OF	WATER TO	BE REMOVED BE	FORE SAMP	LING:		
-		$(6.84 \text{ ft}) \times (0.00)$		4 × 7,48 =	1.4 gallons in one	
,	Well depth	Water level Well	radius		7.2 gallons in 5 w	
					7.5 total gallons re	emoved
CALIBRATIO	N:					
			Temp		EC	
nuth it	. د دینهای	<u>Time</u>	( <u>° C)</u>	<u>pH</u> 7.00/10.01	( <u>µmho/cm)</u>	
	on Standard: ore Purging:	10:15	21.2	7.00/10.01 7.00/10.01	1,000 950	į.
	ter Purging:		23.4	6.97/9.19	950	
	,					
FIELD MEAS	UREMENT	S:				
	<b></b>		200	Cumulativ		
Time	Temp (° C)	<u>pH</u>	EC ( <del>umho</del> /cm)	Gallons <u>Remove</u>		ppearance
<u>Time</u>	<u>1. C)</u>	<u>pr1</u>	(tariffectiff)	Remove	<u> 17</u>	ppouturou
10:10	22.5	6.27	13,000	1.0	Slig	ghtly turbid
10:21	22.2	6.37	14,000	5.0	Very	slightly turbid
10:25	21.9	6.33	14,000	6.0		Clear
10:28	21.5	6.36	14,000	7.5		Clear
Pumping rate:		0.42 gpm			lu reading in wellhead	
		ior to sampling (feet)	6.89			Time: 13:40
Appearance of	-	Clear				Time: 13:42 Time:
Duplicate/blank	c number:	Daukla diantara		lianogobla basa		_ 1 mie. <u></u>
Purge method:		Double diaphragm pu		VOC attachme		18
Sampling equip Sample contain		New disposable polyer 2 40-ml VOAs; 1 250		,	oseu for y OA	No.
Sample contain		BTEX, lead	J-IIII PIASUL UUI	Laboratory:	Chromalab	
CHAILING CHICK VOL	41.74					

Project no.:	93333-BO	Well no.:	MW-5	Date: 8/2	27/96
Project name:	WWC-Oakland M	ISC Depth of well	from TOC (feet):	14.30 (measured)	
Location:	7101 Edgewater	Well diameter	(inch):	2	
	Oakland, CA	Screened inter	val from TOC (feet	): <u>4-14.30</u>	
Recorded by:	TT/BB	TOC elevation	n (feet):	8.15 (City of Oakland Da	itum)
Weather:	Sunny	Water level fr	om TOC (feet):	6.40 Time: 9:	53
Precip in past		Product level:	from TOC (feet):	None Time: 9:	53
5 days (inch):	0	Water level m	easurement:	Dual-interface probe	
	R TO BE REMOVED				
	ft) - $(6.40 \text{ ft})$ ] × $($			3 gallons in one well volun	
Well de	epth Water level W	ell radius		<ul><li>5.4 gallons in 5 well volumes</li><li>5.5 total gallons removed</li></ul>	S
				.5 total gamons removed	
CALIBRATION:		_		P.C	
	<u>Time</u>	Temp <u>(° C)</u>	<u>H</u> q	EC (umho/cm)	
Calibration Stand	<del></del>	<u>, C)</u>	7.00/10.01	1,000	
Before Pur		21.2	7.00/10.01	950	
After Pur	<i>-</i>	23.4	6.97/9.19	950	
FIELD MEASUREM	ENTS:				
ATP.		EC	Cumulative Gallons		
Tem <u>Time</u> <u>(° C</u>	•	(umho/cm)	Removed	Appearance	
<u>Inne C</u>	<u>, 511</u>	<u>(minio/cinj</u>	<u>IXOMO V OLI</u>	<u> </u>	
11:21 24.7		13,000	1.0	Clear	
11:25 24.1		7,000	3.0	Clear	
11:32 24.2		7,000	5.0	Clear Clear	
11:36 24.2	2 6.45	7,000	6.5	Cicai	
Pumping rate:	0.43 gpm		HNu re	ading in wellhead (ppm): 6	
	ng prior to sampling (fe	eet): 6.40		Time: 14	
Appearance of sample				Time: 14	
Duplicate/blank numb	er: MW-5A (Duplica	te)		Time: <u>1</u> 4	:23
Purge method:	Double diaphragn	n pump with new o	lisposable hose		
Sampling equipment:	New disposable po		VOC attachment:	Used for VOAs	
Sample containers:			s bottles; 2 250-ml p		
Sample analyses:	TPH-g, -d, -mo, -l	k: RTFX: zinc	Laboratory:	Chromalab	

Project no.: _		93333-BO	Well no.:	MW-6	<del></del>	Date: 8/27/96
Project name:		WWC-Oakland MSC	Depth of well	from TOC (feet):	14.27	
Location:		7101 Edgewater	Well diameter	(inch):	2	
		Oakland, CA	Screened inter	rval from TOC (feet)	): <u>4-14.27</u>	
Recorded by:		TT/BB	TOC elevation	n (feet):	7.93 (City of	Oakland Datum)
Weather:		Sunny	Water level fr	om TOC (feet):	7.42	Time: 9:56
Precip in past			Product level	from TOC (feet):	None*	Time: 9:56
5 days (inch):_		0	Water level m	leasurement:	Dual-interfac	e probe
VOLUME OF	WATER TO	BE REMOVED BE	FORE SAMP	PLING:	-	
		$-(7.42 \text{ ft})] \times (0.01)$			.1 gallons in one	
	Well depth	Water level Well	radius		.5 gallons in 5 v	
				5	.0 total gallons	removed
CALIBRATIO	N:					
			Temp	_	EC	
ء بديس	a	<u>Time</u>	<u>(° C)</u>	<u>pH</u>	( <u>umho/cm)</u>	
	on Standard:		21.0	7.00/10.01 7.00/10.01	1,000 950	į
	fore Purging: fter Purging:		21.2 23.4	7.00/10.01 6.97/9.19	950 950	•
71		13.10	251	0.5 11.51.25	• • •	
FIELD MEAS	UREMENT	S:				
			_	Cumulative		
	Temp		EC	Gallons	,	\
<u>Time</u>	( <u>° C)</u>	<u>pH</u>	(µmho/cm)	Removed	<u> </u>	Appearance
12:52	22,3	7.34	4,000	1.0	Clear,	petroleum odor
1:00	21.3	7.31	3,100	3.0		petroleum odor
1:06	20.7	7.30	3,000	5.0	Clear,	petroleum odor
+ Nister Dund		erved on disposable tul	hing and hailer	Dual interface pro	he did not indice	ate measurable
	cness of prod		omg and batter	. Duar-interface pro	oc dia not indict	ato mousurdoro
	•					
Pumping rate:		0.36 gpm		HNu rea	ading in wellhea	d (ppm): 1
	ter purging p	rior to sampling (feet)	7.58	•		Time: 14:45
Appearance of	-	Clear with slight shee				Time: 14:50
Duplicate/blan	k number:				·	Time:_ <del></del>
Purge method:		Double diaphragm pu	imp with new o			
Sampling equi	pment:	New disposable polye		VOC attachment:	Used for VO	As
Sample contain		2 40-ml VOAs; 1 1-li				<del></del>
Sample analys		TPH-gas & -diesel, F			Chromalab	
Decontaminati	on method:	TSP and water, DI w	ater rinse	Rinsate disposal:	Marked drun	is on-site

Project no.:		93333-BO	Well no.:	MW-7		_Date: <u>8/27/96</u>
Project name:		WWC-Oakland MSC	Depth of well	from TOC (feet):	14.3 (measure	d)
Location:		7101 Edgewater	Well diameter	(inch):	2	
_		Oakland, CA	Screened inter	rval from TOC (feet):	4-14.3	
Recorded by:		TT/BB	TOC elevation	n (feet):	8.48 (City of 0	Dakland Datum)
Weather:		Sunny	Water level fr	om TOC (feet):	6.80	Time: 9:50
Precip in past				from TOC (feet):	None	Time: 9:50
5 days (inch):		0	Water level m	easurement:	Dual-interface	probe
VOLUME OF	WATER TO	BE REMOVED BE	FORE SAMP		· <del></del>	
[	-, ,	$-(6.80 \text{ ft}) \times (0.0)$	·		gallons in one	
	Well depth	Water level Well	radius		l gallons in 5 w	
					O total gallons r	emoved
CALIBRATIC	DN:		_		5.0	
		<u>Time</u>	Temp <u>(° C)</u>	<u>pH</u>	EC (umho/cm)	
Calibrati	on Standard:		124	7.00/10.01	1,000	
	fore Purging:		21.2	7.00/10.01	950	<b>?</b>
А	fter Purging:	13:10	23.4	6.97/9.19	950	
	,	_				•
FIELD MEAS	SUREMENT	S:		Cumulative		
	Temp		EC	Gallons		
<u>Time</u>	(° C)	рH	(umho/cm)	Removed	A	ppearance
12:14	26.8	6.15	16,000	1.0	Verv	slightly turbid
12:19	24.7	6.22	8,500	3.0	,	Clear
12:30	23.9	6.16	8,000	5.0		Clear
Pumping rate:		0.31 gpm		HNu rea	ding in wellhead	1 (ppm): 3
		rior to sampling (feet):	6.85	•		Time: 14:32
Appearance of		Clear				Time: 14:35
Duplicate/blar						Time:
Purge method:	•	Double diaphragm pu	ımp with new o			
Sampling equi	_	New disposable polyet		VOC attachment:	Used for VOA	As
	ners:	2 VOAs; 1 250-ml pl	astic bottle			
Sample contain Sample analysis		BTEX, metals		Laboratory:	Chromalab	

ATTACHMENT B

LABORATORY REPORTS

Environmental Services (SDB)

August 29, 1996

Submission #: 9608361

BASELINE ENVIRONMENTAL/EMRYVL

Atten: Rhodora Del Rosario

Project: MSC,7101 EDGEWATER DR,OAK

Project#: 93333-BO

Received: August 27, 1996

re: 1 sample for Lead analysis.

Method: EPA 3010A/6010

Matrix: WATER

Extracted: August 29, 1996

Sampled: August 27, 1996 Run#: 2895 Analyzed: August 29, 1996

LEAD

REPORTING LIMIT

BLANK RESULT

BLANK DILUTION SPIKE FACTOR

CLIENT SPL ID

(mq/L)

(mq/L)

(mg/L)

0.47

0.0050

97748 MW-2

103

Charles Woolley

Chemist

ohn S.

Inorganic Supervisor

Environmental Services (SDB)

September 4, 1996

Submission #: 9608361

BASELINE ENVIRONMENTAL/EMRYVL

Atten: Rhodora Del Rosario

Project: MSC,7101 EDGEWATER DR,OAK

*Project#:* 93333-B0

Received: August 27, 1996

re: 2 samples for BTEX compounds analysis.

Method: EPA 8020

Matrix: WATER

Sampled: August 27, 1996

Run#: 2924

Analyzed: August 31, 1996

						Ethyl	Total	
				Benzene	Toluene	Benzene	Xylenes	
Spl#	CLIENT	SPL	ID	(ug/L)	(uq/L)	(ug/L)	(ug/L)	
97752	MW-7			N.D.	N.D.	N.D.	N.D.	

Matrix: WATER

Sampled: August 27, 1996

Run#: 2924

Analyzed: September 4, 1996

Spl# CLIENT SPL ID	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)	
97748 MW-2	2.4	N.D.	N.D.	N.D.	
Reporting Limits Blank Result Blank Spike Result (%)	0.50 N.D. 88.1	0.50 N.D. 85.8	0.50 N.D. 86.4	0.50 N.D. 87.6	

Marianne Alexander Gas/BTEX Supervisor Chip Poalinelli Operations Manager

Environmental Services (SDB)

September 4, 1996

Submission #: 9608361

BASELINE ENVIRONMENTAL/EMRYVL

Atten: Rhodora Del Rosario

Project: MSC,7101 EDGEWATER DR,OAK

Project#: 93333-BO

Received: August 27, 1996

re: 5 samples for Gasoline and BTEX compounds analysis.

Method: EPA 5030/8015M/8020

Matrix: WATER

Sampled: August 27, 1996 Run#: 2882

Analyzed: August 29, 1996

							Ethyl	Total	
				Gasoline	Benzene	Toluene	Benzene	Xylenes	
Spl#	CLIENT	SPL :	ID	(ug/L)	(ug/L)	(ug/L)	(uq/L)	(ug/L)	
97747	MW-1			380	61	2.4	N.D.	4.2	

Matrix: WATER

Sampled: August 27, 1996

Run#: 2916

Analyzed: August 30, 1996

Spl#	CLIENT	SPL ID	Gasoline (ug/L)	Benzene (ug/L)	Toluene	Ethyl Benzene (ug/L)	Total Xylenes (ug/ <u>L)</u>	
97749	MW-5		6600	430	27	600	650	
97750	MW-5A		6300	410	25	580	620	
97751	MW - 6		4200	300	9.3	110	110	

Matrix: WATER

Sampled: August 27, 1996 Ru

Run#: 2916

Analyzed: September 4, 1996

Spl# CLIENT SPL ID	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (uq/L)
97753 MW-500	N.D.	N.D.	N.D.	N.D.	N.D.
Reporting Limits Blank Result Blank Spike Result (%	50 N.D. ) 86.8	0.50 N.D. 103	0.50 N.D. 101	0.50 N.D. 104	0.50 N.D. 100

Marianne Alexander

Gas/BTEX Supervisor

Chip Poalinelli

Operations Manager

**Environmental Services (SDB)** 

September 4, 1996

Submission #: 9608361

BASELINE ENVIRONMENTAL/EMRYVL

Atten: Rhodora Del Rosario

Project: MSC,7101 EDGEWATER DR,OAK

Project#: 93333-BO

Received: August 27, 1996

re: 1 sample for TPH - Diesel analysis.

Method: EPA 3510/8015M

Matrix: WATER

Extracted: September 3, 1996

Sampled: August 27, 1996 Run#: 2956

Analyzed: September 4, 1996

BLANK DILUTION REPORTING BLANK SPIKE FACTOR RESULT DIESEL LIMIT (ug/L) (왕) CLIENT SPL ID <u>(uq/L)</u> (ug/L) 83.5 3100 97751 MW-6 51

Hydrocarbon reported does not match the pattern of our Diesel standard. Note: Estimated concentration due to overlapping fuel patterns. Silica gel cleanup.

Bruce Havlik

Chemist

Semivolatiles Supervisor

Environmental Services (SDB)

September 4, 1996

Submission #: 9608361

BASELINE ENVIRONMENTAL/EMRYVL

Atten: Rhodora Del Rosario

Project: MSC,7101 EDGEWATER DR,OAK

Project#:

93333-BO

Received: August 27, 1996

re: 2 samples for TEPH analysis.

Method: EPA 3550/8015M

Matrix: WATER

Extracted: September 3, 1996

Sampled: August 27, 1996

Run#: 2956

Analyzed: September 4, 1996

Spl# CLIENT SPL ID (ug/L)

ig/L) (ug/L)

Motor Oil (ug/L)

97749 MW-5

N.D.

2000 N.D.

Note: Hydrocarbon reported does not match the pattern of our Diesel standard.

Estimated concentration due to overlapping fuel patterns. Silica gel

cleanup.

97750 MW-5A

N.D.

660

Diesel

N.D.

Note: Hydrocarbon reported does not match the pattern of our Diesel standard. Estimated concentration due to overlapping fuel patterns. Silica gel

cleanup.

Reporting Limits

Blank Result

Blank Spike Result (%)

51

N.D.

51

510

N.D.

83.5

N.D.

Bruce Havlik

Chemist

Alex Tam

Semivolatiles Supervisor

Environmental Services (SDB)

September 5, 1996

Submission #: 9608361

BASELINE ENVIRONMENTAL/EMRYVL

Atten: Rhodora Del Rosario

Project: MSC,7101 EDGEWATER DR,OAK

Project#: 93333-BO

Received: August 27, 1996

re: One sample for Soluble Miscellaneous Metals analysis.

Method: EPA 3005A/6010A

Client Sample ID: MW-5

Spl#: 97749 Sampled: August 27, 1996 Matrix: WATER

Extracted: September 3, 1996

Run#: 2944

Analyzed: September 4, 1996

RESULT

REPORTING LIMIT (mg/L)

BLANK RESULT BLANK DILUTION SPIKE FACTOR

(mg/L)

Inorganic Supervisor

(%)

(mq/L)N.D.

0.010

Charles Woolley

dulh Lolly

Chemist

Environmental Services (SDB)

September 5, 1996

Submission #: 9608361

BASELINE ENVIRONMENTAL/EMRYVL

Atten: Rhodora Del Rosario

Project: MSC,7101 EDGEWATER DR,OAK

Project#: 93333-BO

Received: August 27, 1996

re: One sample for Soluble Miscellaneous Metals analysis.

Method: EPA 3005A/6010A

Client Sample ID: MW-5A

Spl#: 97750

Matrix: WATER

Extracted: September 3, 1996

Sampled: August 27, 1996

Run#: 2944

Analyzed: September 4, 1996

RESULT

REPORTING LIMIT

BLANK RESULT BLANK DILUTION

(mg/L)

**FACTOR** SPIKE

(mq/L)

(mg/L)0.010

N.D.

Chemist

norganic Supervisor

Environmental Services (SDB)

September 5, 1996

Submission #: 9608361

BASELINE ENVIRONMENTAL/EMRYVL

Atten: Rhodora Del Rosario

Project: MSC,7101 EDGEWATER DR,OAK

Project#: 93333-B0

Received: August 27, 1996

re: One sample for Soluble Miscellaneous Metals analysis.

Method: EPA 3005A/6010A

Client Sample ID: MW-6

Spl#: 97751 Sampled: August 27, 1996 Matrix: WATER Run#: 2944

Extracted: September 3, 1996
Analyzed: September 4, 1996

BLANK DILUTION REPORTING BLANK RESULT SPIKE FACTOR RESULT LIMIT (mg/L)(%) (mg/L)ANALYTE (mg/L)0.0020 105 CADMIUM N.D. N.D. 0.0050 N.D. 1 CHROMIUM N.D. 103 N.D. 0.0050 N.D. 105 LEAD 0.017 104 NICKEL 0.0050 N.D 0.010 105 ZINC 0.015 N.D

Charles Woolley

Chemist

John S. Labash

norganic Supervisor

Environmental Services (SDB)

September 5, 1996

Submission #: 9608361

BASELINE ENVIRONMENTAL/EMRYVL

Atten: Rhodora Del Rosario

Project: MSC,7101 EDGEWATER DR,OAK

Project#: 93333-B0

Received: August 27, 1996

re: One sample for Soluble Miscellaneous Metals analysis.

Method: EPA 3005A/6010A

Client Sample ID: MW-7

Sp1#: 97752

Matrix: WATER

Extracted: September 3, 1996

Sampled: August 27, 1996

Run#: 2944

Analyzed: September 4, 1996

ANALYTE	RESULT (mg/L)	REPORTING LIMIT (mg/L)	BLANK RESULT (mg/L)	BLANK SPIKE (%)	DILUTION FACTOR
CADMIUM	N.D.	0.0020	N.D.	105	1
CHROMIUM	N.D.	0.0050	N.D.	103	1
NICKEL	0.092	0.0050	N.D.	104	1
ZINC	0.030	0.010	$M \cdot D \cdot U$	105	1

Charles Woolley

Chemist

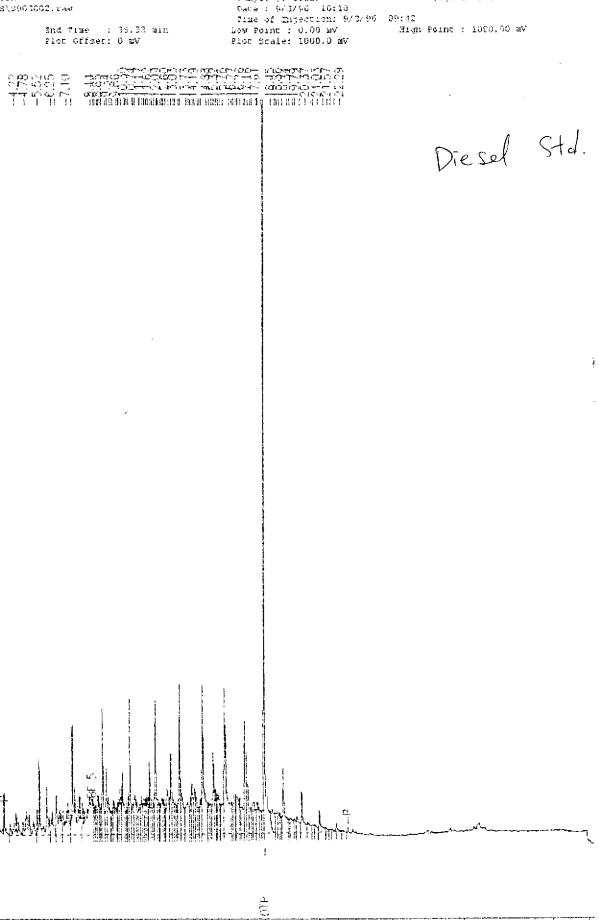
John S. Labash

İnorganic Supervisor

MISSEL ISOPPM p: (600001ES\2907001.vam D39-04

Sample #: 601297

Page 1 of 1



| | | 15

20

Time (min]

25

35

10

#### MOTOR OIL AMALYSIS

ESOPEM 0: 0000DIZS\3903003.140 18024-36

o uin

Sample #: #C1292 Date : 9/3/96 11:03 Time of Enjection: 9/3/96 10:27 Dow Point : 0.00 aV High P Plot Scale: 1000.0 mV

Page 1 of 1

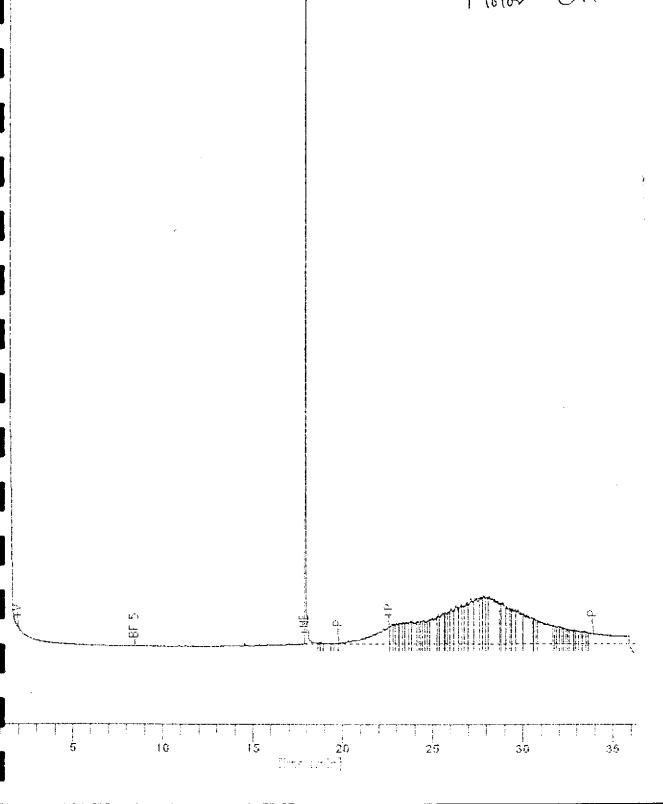
End Time : 36.33 min

Flot Offret: 0 mV

High Point : 1000.00 mV



Motor Oil Std.



#### diesel analysis

sple Name : 8361/MNS W/

: D:\6000AIBS\8953019.KAW

Sample #: 97749 Date : 9/4/96 01:46

Page 1 of 1

: SDIE9-01

Time of Injection: 9/4/95 01:09

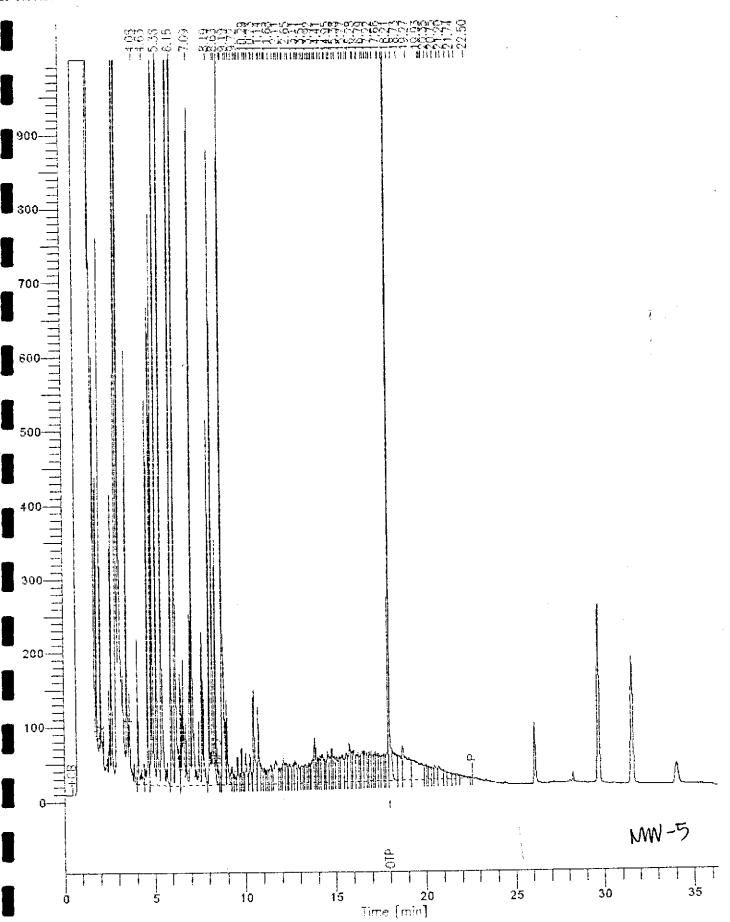
fime : 0.00 min factor: 0.0

and fime : 36.33 min Plot Offset: 0 mV

Low Point : 0.00 MV

High Point : 1000.00 mV

Plot Scale: 1000.0 mV



uple Name : 9361/MWSA @/

; D:\6000DIES\3903020.raw ledame

Page 1 of 1

i : SFIS9-24 Time : 0.00 min Factor: 0.0

Sample #: 97750

Date : 9/4/96 02:30

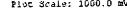
Time of Enjection: 9/4/96 01:54

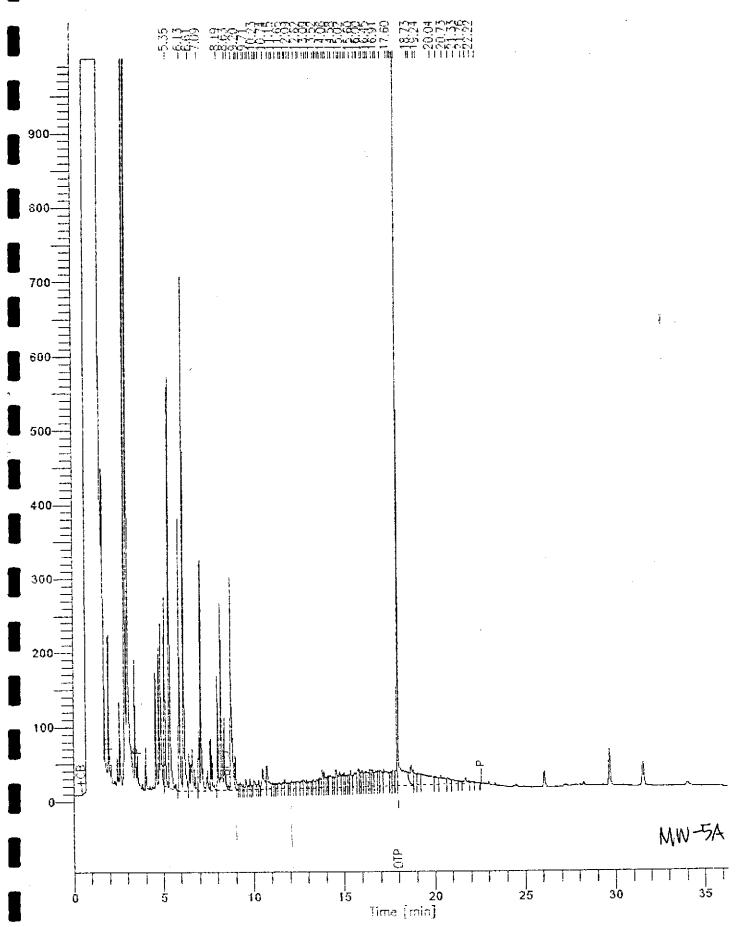
Low Point : 0.00 mV High

Plot Scale: 1000.0 mV

End Time : 36.33 min Plot Offset: 0 mV

High Point : 1000.00 mV





#### diesel analysis

:ample Name : 8361/MW6 CLEAMUP 'ileName

ed.

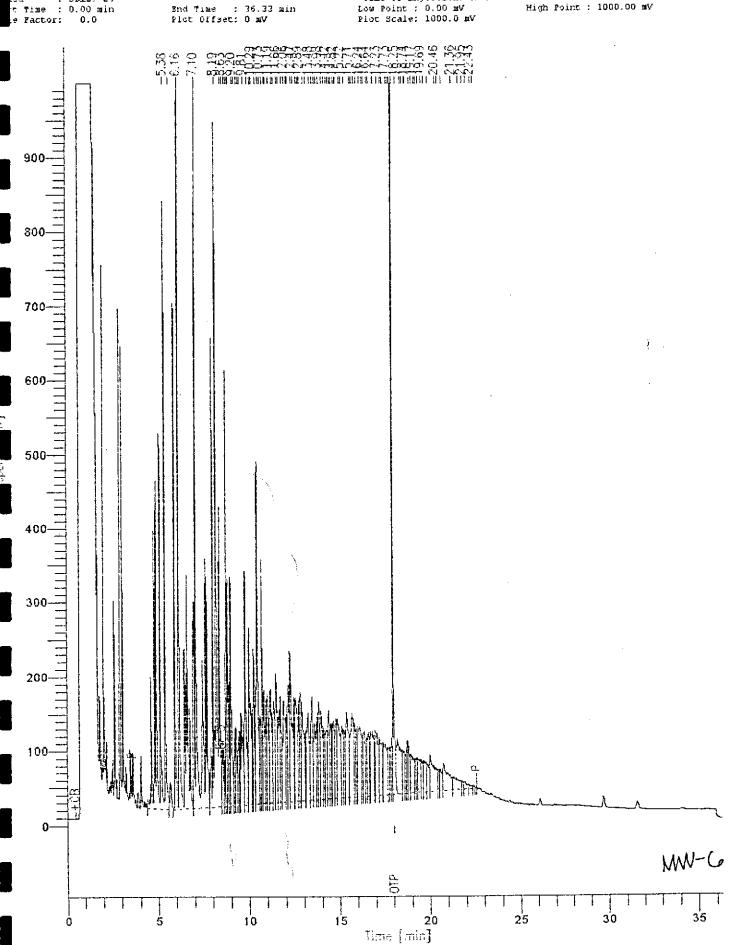
: D:\6000DIES\S904004.raw : SDTE9-24

End Time : 36.33 min

Sample #: 97751
Date : 9/4/96 12:48
Time of Injection: 9/4/96 12:11
Low Point : 0.00 mV High

High Point : 1000.00 mV

Page 1 of 1



### **CHROMALAB**

Change request received by: Mike V.

Date Requested: 8 128 194

SAMPLE STATUS CHANGE FORM					
Submission#	Client Samp.ID	Old Status Description	Description of Changes	(Client's name)  BASELINE	
9608361	MW-2 MW-5 MW-5A MW-6 MW-7	MISC METALS All waters have been lab filtered	Run MW-2: Total Misc Metals All others: Soluble Misc Metals		
hanges were	e done in lims by	(login): Mimie	On: 8 128 1 96		
	Pirector Dep	t.manager × Analyst	Proj.Manager		

## CHROMALAB, INC. SAMPLE RECEIPT CHECKLIST

Client Name BASEZINE	Date/Time Receive	3 8/2	7/96	1535
Project MSC, 7101 EDGEWATER DR. Cakland	Received by Jeff	Lindber	e /	Time
Reference/Subm # 29427 / 9608361	Carrier name			
Checklist completed 8/28/96 by: Signature / Date	Logged in by Matrix Water	MP Initials	8/27 / D	/96_ ate
Shipping container in good condition?		NA	Yes	Ио
Custody seals present on shipping contain	er? Intact Bro	oken	Yes	No
Custody seals on sample bottles?	Intact Bro	oken	Yes	No
Chain of custody present?			Yes/_	No
Chain of custody signed when relinquished	and received?		Yes/	No
Chain of custody agrees with sample label	s?		Yes	No
Samples in proper container/bottle?			Yes_/	No
Samples intact?			Yes	No
Sufficient sample volume for indicated te	st?		Yes	No
VOA vials have zero headspace?		NA	Yes	No
Trip Blank received?		NA	Yes	ио
All samples received within holding time?			Yes	No
Container temperature? 8.2				
pH upon receipt 2-7 pH adjusted Yes	Check perfor	med by:	1P	NA
Any $\underline{NQ}$ response must be detailed in the applicable, they should be marked NA.	comments section	pelow. I	f items	are not
Client contacted? Yes	Date contacted	12 8/27	4 8/21	196
Person contacted? Rhedora Del Rosar	The contacted has	M. Pak	+ Mik	e Verona
Regarding? Metals samples to be				
Comments: Unpreserved samples wer				
Comments: who estate and the in	wore Allened	A C	, wearing	<u></u>
Samples for metals analysis	Samples Perc	Diego	1 -1004	4
were adjusted to pH 2 and VO	A all wall be all	realized	la anal	ug-t-
	A PII WILL BE CI	neses	<del></del>	7-1
Corrective Action:			· •-	<del></del>
·				
			SM	IPLRECD.CK

BASELINE 361/97747-97753

5900 Hollis Street, Suite D

Emeryville, CA 94608

CHAIN OF CUSTODY RECORD

Turn-around Time
Lab
BASELINE Contact Person

Standard 5day Chromalah Rhodera Rel Fosario

(510) 420-8686 Cadmium, Cr, Ni (Gold) Project Name and Location Analysis Project No. 93333- BO MSC, 7101 Edgewater Drive, Oakland 2mc (6010) Lead (6010) Gas/BIEX Samplers: (Signature)

Bellin Bl. 70061 756 BPEX Detec-No. of Date Time Media Depth Sample ID Remarks/ tion Contain-No. Station BB 2:02 PM Composite Limits ers 7:42 pm MW-1 8/27/96 WATER MW-2 1:42 PM 8/27/96 WATER X MW-5 8/27/96 2:23pm MW-5A 8/27/96 2:23 PM MW-6 2:50 PM X MW-7 2:357M 3 MW-500 8/27/96 X 8:30AM SUBM #: -9608361 REP: MV CLIENT: BASE DUE: 09/04/96 REF #:29427 Date / Time Conditions of Samples Upon Arrival at Received by (Signature) Date / Time Relinquished by: (Signature) Laboratory: 8-27-96 1535 8/27/96 3:35 PM Remarks: Notes Date / Time Date / Time Received by: (Signature) Relinquished by: (Signature) Operform silicacyclelamy onsompres obeconcurred for diesel, motoroil and knosene. 8/27/94 Frime & 1705 Date / Time Relinquished by: (Signature) Date / Time Received by: (Signature) (2) Filter samples to be analytyer for metals