ENVIRONMENTAL
PROTECTION

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SECOR
International Incorporated

August 14, 1998

Mr. Barney Chan
Hazardous Materials Specialist
Alameda County Department
of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

#4008

SUMMARY REPORT FOR ADDITIONAL SITE CHARACTERIZATION, 580 JULIE ANN WAY, OAKLAND, CALIFORNIA, ST ID #4008, FOR METZ BAKING COMPANY

Dear Mr. Chan:

SECOR International Incorporated (*SECOR*) is pleased to submit this Summary Report presenting the procedures and results of additional Site characterization conducted at 580 Julie Ann Way in Oakland, California (the Site, see Figure 1, Site Location Map). *SECOR* is submitting this document on behalf of the Metz Baking Company (Metz) which operated the Site as a San Francisco French Bread Company (SFFBC) baking and distribution facility. The scope of work performed was in general accordance with *SECOR*'s Work Plan dated October 31, 1997, as conditionally approved by the Alameda County Department of Environmental Health (ACDEH) in a November 7, 1997 letter.

SITE BACKGROUND

The Site is located in a mixed commercial/industrial area and consists of a large warehouse/bakery and an open asphalt parking/work area (Figure 2). The Site is used by the SFFBC to prepare and distribute baked food products. The Site formerly operated one 8,000-gallon capacity gasoline underground storage tank (UST) and one 10,000-gallon capacity diesel UST. Previous subsurface investigations conducted by Groundwater Technology, Inc. (GTI) in June 1991 and *SECOR* in November 1993 indicated the presence of total petroleum hydrocarbons as gasoline (TPHg) and TPH as diesel (TPHd) in soil samples collected in the immediate vicinity of the USTs. At soil boring locations further away from the USTs, low to non-detectable concentrations of TPHg and TPHd were reported; however, elevated concentrations of high-boiling point hydrocarbons (total oil and grease/total recoverable petroleum hydrocarbons) were reported at all boring locations where analyzed.

SECOR supervised the excavation and removal of the two USTs in September 1995. Petroleum hydrocarbon-impacted soil and groundwater were observed during UST removal activities, laboratory analysis of collected soil and groundwater samples revealed the presence of TPHg, TPHd, and high-boiling hydrocarbons. Based on the apparent composition of these high-boiling point hydrocarbons and their pervasive presence in fill soil underlying the Site, it was determined that the source of these hydrocarbons is not related to the USTs. *SECOR* supervised the installation of four groundwater monitoring wells (MW-1 through MW-4) adjacent to the former USTs in February and August 1996, soil and groundwater samples collected and analyzed during these activities revealed the presence of TPHg, TPHd, TPH as motor oil (TPHmo), and benzene, toluene, ethylbenzene, and xylenes (BTEX).

90 New Montgomery Street, Suite 620, San Francisco, CA 94105-4503 (415) 882-1548 (415) 882-4406 FAX www.secor.com

PRELIMINARY FIELD ACTIVITIES

Prior to initiation of field activities, *SECOR* obtained a well construction permit from Alameda County Public Works Agency and encroachment permits from the City of Oakland for work in the public right-of-way. The proposed well locations were cleared with respect to underground utilities and other obstructions by California Utility Surveys (CUS) and Underground Service Alert (USA) was notified 48-hours in advance of field activities. *SECOR* also updated the existing Site-specific Health and Safety Plan (HASP) to address the proposed scope of work.

FIELD ACTIVITIES

Drilling and Soil Sampling

Three boreholes (MW-5, MW-6, and MW-7) were advanced on May 20, 1998 by Gregg Drilling & Testing, Inc. of Martinez, California under the direction of a *SECOR* geologist utilizing a truck-mounted drill rig equipped with 8-inch diameter hollow-stem augers (Figure 2). Three boreholes (MW-5, MW-6, and MW-7) were advanced to a total depth of 16 feet below ground surface (bgs). Relatively undisturbed soil samples were collected for lithologic description and possible chemical analysis at 5- to 5.5-foot intervals using a California-modified split-spoon sampler lined with three 6-inch long brass tubes. Soil cuttings generated during field activities were placed in 55-gallon drums and stored on-site pending appropriate disposal.

A *SECOR* geologist described the soil encountered according to the Unified Soil Classification System (USCS) and maintained boring logs of these descriptions that are included as an attachment. A representative soil sample from each sample interval was screened in the field for the presence of volatile organic compounds (VOCs) using an organic vapor meter 580B Photoionization Detector (PID). Screening results are documented on the boring logs. *SECOR* selected one to three soil samples for chemical analysis from the MW-5, MW-6, and MW-7 borehole locations.

The ends of the brass tubes containing the soil samples were covered with teflon sheeting, fitted with plastic end caps, labeled, and stored in an ice-filled cooler. The samples selected for chemical analysis were transported to Chromalab Environmental Services (Chromalab) in Pleasanton, California, a state-certified laboratory with a completed chain-of-custody record. The soil samples collected during the investigation were analyzed for TPHg, TPHd, and TPHmo by EPA Method 8015, modified and BTEX and methyl tertiary butyl ether (MTBE) by EPA Method 8020. Three soil samples collected from MW-7 were also analyzed for total organic carbon (TOC) by EPA Method 9060. Additionally, analysis of polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8270A was performed for the soil samples collected from wells MW-5 through MW-7 as requested by the ACDEH to evaluate the presence of heavy oil constituent.

Monitoring Well Installation

Three boreholes were converted to groundwater monitoring wells MW-5, MW-6, and MW-7 and completed at a total depth of 15 feet bgs after backfilling the borehole with filter sand from 16 feet bgs (Figure 2). Each well was completed with 11 feet of capped, flush-threaded, 2-inch diameter Schedule 40 PVC 0.020-inch machine slotted well screen from 15 feet bgs and completed with blank casing to ground

surface. Filter sand was placed in the annular space between the wall of the borehole and casing to a height of one foot above the screened interval. One foot of bentonite pellets was placed above the sand and hydrated. A cement-grout mixture (5% bentonite) was then placed into the remaining annular space to ground surface. A flush-mounted, protective water-tight monument cover was then grouted slightly above ground surface to complete the well installation. Each well was also fitted with a locking water-tight well cap. Well construction details are provided on Table 1 and are displayed graphically on the attached boring logs.

Well Development and Sampling

Newly-installed groundwater monitoring wells were developed on June 4, 1998 by alternately surging with a surge block and bailing with a PVC bailer. Well development continued until the groundwater was reasonably free of sediment. During well development, measurements and observations of pH, electrical conductivity, temperature, color, and turbidity were recorded on the attached Water Sample Field Data Sheets. Ten casing volumes of groundwater were removed from wells MW-5 through MW-7 during development. Three casing volumes of groundwater were removed from wells MW-1 through MW-4, which had been previously developed and sampled. All water generated during well development and sampling was stored in 55-gallon drums at an on-site location pending appropriate disposal.

Following well development, *SECOR* collected groundwater samples from each well for chemical analysis on June 4, 1998. The groundwater samples were collected using a disposable PVC bailer and decanted directly into laboratory-supplied sample containers. Each of the sample containers was labeled, sealed in plastic bags, and placed in an ice-filled cooler. The samples were submitted to Chromalab along with a completed chain-of-custody record. The groundwater samples collected were analyzed for TPHg, TPHd, and TPHmo by EPA Method 8015, modified, for BTEX and MTBE by EPA Method 8020. Additionally, all groundwater collected from wells MW-1 through MW-7 were analyzed for total dissolved solids (TDS) by EPA Method 160.1.

WELL SURVEY AND WATER LEVEL MEASUREMENTS

The newly-installed wells and existing Site wells were surveyed for the top of PVC casing elevation by Ron Archer, Civil Engineer, Inc. of Pleasanton, California, a California-licensed land surveyor. Table 1 summarizes well construction details and wellhead elevations. Wellhead elevations were surveyed with respect to mean sea level (msl) using the brass disc benchmark, set in a standard monument casing at the intersection of Coliseum Way and Kevin Court. The elevation of this benchmark was taken at 7.69 feet above msl. Depth-to-groundwater measurements for all Site wells were recorded on June 4, 1998 using an electronic water-level indicator which are included the attached Field Report. These measurements along with calculated groundwater elevations are presented on Table 1.

SUBSURFACE CONDITIONS

Soil beneath the Site consists of fill material extending to approximately 7 to 9.5 feet bgs overlying Bay Mud that is present to the total depth explored of 16 feet bgs. Fill material consists of light olive brown to very dark gray sandy clay and gravelly sand and is identified as fill material based on the presence of

brick and concrete fragments and pieces of wood and tires. This interpretation of fill soil is consistent with observations made during UST removal and previous Site investigation activities. Consistency of this material ranged from stiff to hard and all fill soil was observed to be moist. Underlying the fill material is Bay Mud which consists of very dark gray organic clay, dark greenish gray clay, and lesser amounts of sandy clay. Bay Mud deposits were observed to be soft to very stiff and contained root material. This soil interval ranged in plasticity from low to high, density of this interval was low, with weak platy or subangular blocky soil structures. These deposits were typically moist, however, groundwater was observed where pore space was present. The subsurface conditions beneath the Site are displayed on generalized geologic cross section A-A' (Figure 3).

Results of field screening with the PID indicated the presence of organic vapors at the borehole MW-5 through MW-7 locations ranging from 1 to 85 parts per million (ppm). A chemical odor was also noted in the samples of fill material collected at approximately 4 feet bgs in these three wells. The field screening results and field observations are included on the attached boring logs.

Groundwater was first encountered at approximately 10 feet bgs during borehole advancement only at the MW-7 location. On June 4, 1998, stabilized groundwater measurement in wells MW-1, MW-2, MW-3, MW-4, and MW-7 ranged from 2.72 to 5.60 feet below the top of the PVC casing translating to groundwater elevations between 4.10 and 7.40 feet above msl. No groundwater was encountered during borehole advancement at the MW-5 and MW-6 locations. However, *SECOR* constructed a monitoring well at the MW-5 and MW-6 borehole locations based on the presence of groundwater at the other nearby wells and borehole locations. On June 4, 1998, stabilized groundwater in wells MW-5 and MW-6 were measured at depths of 5.44 and 7.92 feet below top of PVC casing, respectively. Groundwater elevations calculated from the June 4, 1998 depth-to-groundwater measurements were contoured and displayed as Figure 4. This map indicates a generalized groundwater flow direction towards the north under an average hydraulic gradient of 0.036 feet per foot (ft/ft). Depth-to-groundwater measurements and groundwater elevations are summarized on Table 1.

SOIL AND GROUNDWATER ANALYTICAL RESULTS

Soil and groundwater analytical results are summarized on Tables 2 and 3 and laboratory analytical reports and chain-of-custody records are attached. Soil samples collected from the MW-5, MW-6, and MW-7 boreholes at depths ranging from 4 to 15 feet bgs were submitted for chemical analysis. Soil sample MW-5-4 was reported to contain benzene and xylenes at respective concentrations of 2.1 milligrams per kilogram (mg/kg) and 1.2 mg/kg. Soil sample MW-6-4 was reported to contain TPHd and TPHmo at respective concentrations of 12 mg/kg and 110 mg/kg. Soil sample MW-7-4 was reported to contain TPHd at a concentration of 3.3 mg/kg. Chromalab indicated that these TPHd results do not match the pattern of the fresh diesel standard. TPHg and PAHs were not detected above the laboratory reporting limit in any of the soil samples analyzed. Three soil samples collected from the MW-7 borehole location at depths of 4, 10, 15 feet bgs were reported to contain TOC concentrations at 0.622%, 0.731%, and 0.078%, respectively.

The groundwater sample collected from well MW-1 was reported to contain TPHg at a concentration of 1,800 micrograms per liter ($\mu g/\ell$). The maximum BTEX concentrations were reported in the samples collected from wells MW-1 and MW-2 at 160 $\mu g/\ell$, 2.6 $\mu g/\ell$, 300 $\mu g/\ell$, and 3.5 $\mu g/\ell$, respectively. TPHd

was reported in each of the seven collected samples at concentrations ranging from 120 µg/ℓ to 4,100 µg/ℓ. TPHmo was reported in samples collected from wells MW-1, MW-4, and MW-7 at respective concentrations of 640 µg/ℓ, 710 µg/ℓ, and 540 µg/ℓ. However, Chromalab indicated that these TPHd and TPHmo results do not match the patterns of the laboratory standards. MTBE was not detected in any of these samples above the laboratory reporting limit of 5.0 µg/ℓ. TDS was reported in all seven of the collected groundwater samples at concentrations ranging from 580 milligrams per liter (mg/ℓ) to 43,000 mg/ℓ. Groundwater analytical results are displayed graphically on Figure 5.

SUMMARY AND CONCLUSIONS

Based on the results of the additional Site characterization work described herein and previous investigation findings, the following conclusions can be made.

- Two primary soil intervals are present within the upper 16 feet bgs: fill material extends from the ground surface to approximate depths of 7 to 9.5 feet bgs and is underlain by Bay Mud deposits which extend to the total depth explored (16 feet bgs).

- First encountered groundwater occurs at approximately 3 to 8 feet bgs and flows in a general northerly direction. Based on lithologic differences, the fill soils underlying the Site are expected to be more permeable and transmissive than the underlying Bay Mud deposits, which are composed predominantly of clay-rich soils. Accordingly, the majority of groundwater storage and transport in the shallow subsurface is expected to occur within the fill material.

- Analytical results for groundwater samples collected from newly-installed monitoring wells MW-5 and MW-6 (located downgradient from the former USTs and dispensers) indicate that significant off-Site migration of gasoline-range hydrocarbons (TPHg) and BTEX originating at the former gasoline UST and dispensers has not occurred.

- Low concentrations of diesel-range hydrocarbons (TPHd) were present in soil samples from borings MW-6 and MW-7 and groundwater samples collected from each of the newly-installed wells (MW-5 through MW-7). Diesel-range hydrocarbons present in soil and groundwater samples from these wells do not match the laboratory diesel standard and were reported by the laboratory as in the late diesel range. It is believed that the source of these diesel-range hydrocarbons is likely related to the occurrence of higher-boiling point hydrocarbons observed to be present in fill soils throughout the area, and not related to the former USTs.

- Groundwater beneath the subject Site is not used for drinking purposes due to the high TDS concentrations (greater than 3,000 mg/ℓ).

RECOMMENDATIONS

Based on the results of this investigation and previous Site activities, the extent of petroleum hydrocarbons, related to the former USTs, in groundwater beneath the Site has been defined. Groundwater chemical results demonstrate that the concentrations of petroleum hydrocarbons are low and the impacted area of

the contaminants is limited. Therefore, *SECOR* proposes to perform the Tier II Risk-Based Corrective Action (RBCA) Risk Assessment for the Site closure. *SECOR* will also conduct quarterly groundwater monitoring for the Site for three more quarters to obtain additional hydrologic and chemical data in groundwater.

If you have any questions or comments, please do not hesitate to contact us at (415) 882-1548.

Sincerely,

SECOR International Incorporated

Liping Zhang
Project Manager

Bruce E. Scarbrough, R.G.
Principal Geologist

cc: Mr. Christopher Rants, Metz Baking Company

Attachments:

Table 1 - Well Construction Details and Groundwater Elevations
Table 2 - Soil Analytical Results
Table 3 - Groundwater Analytical Results

Figure 1 - Site Location Map
Figure 2 - Site Plan with Cross Section Location
Figure 3 - Generalized Geologic Cross Section A-A'
Figure 4 - Groundwater Elevation Contour Map, June 4, 1998
Figure 5 - Groundwater Chemical Results, June 4, 1998

Appendix A - Boring Logs
Appendix B - Field Report and Water Sample Field Data Sheets
Appendix C - Laboratory Analytical Results and Chain-of-Custody Records

TABLE 1
WELL CONSTRUCTION DETAILS AND GROUNDWATER ELEVATIONS
580 Julie Ann Way
Oakland, California

WELL NUMBER	TOTAL DEPTH[a]	SCREENED INTERVAL[a]	CASING DIAMETER[b]	TOP OF CASING ELEVATION[c]	DATE	DEPTH TO GROUNDWATER[d]	GROUNDWATER ELEVATION[c]
MW-1	14.5	4.5-14.5	2	10.06	08/16/96 08/22/96 06/04/98	4.41 4.45 3.66	5.65 5.61 6.40
MW-2	15	5-15	2	10.17	08/16/96 08/22/96 06/04/98	4.52 4.54 3.83	5.65 5.63 6.34
MW-3	15	5-15	2	10.12	08/16/96 08/22/96 06/04/98	12.66 7.99 2.72	-2.54 2.13 7.40
MW-4	15	5-15	2	9.70	08/16/96 08/22/96 06/04/98	5.72 5.72 5.60	3.98 3.98 4.10
MW-5	15	4-15	2	9.42	06/04/98	5.44	3.98
MW-6	15	4-15	2	9.88	06/04/98	7.92	1.96
MW-7	15	4-15	2	9.91	06/04/98	3.58	6.33

NOTES:
(a) Measured in feet below ground surface.
(b) Measured in inches.
(c) Measured in feet above mean sea level.
(d) Measured in feet below top of PVC casing.

TABLE 2
SOIL ANALYTICAL RESULTS
580 Julie Ann Way
Oakland, California

SAMPLE NUMBER	SAMPLE DEPTH(a)	TPHg(b) (mg/kg)(c)	TPHd(d) (mg/kg)	TPHmo(e) (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE(f) (mg/kg)	TOC(g) (mg/kg)	PAH(h) (mg/kg)
MW-5-4	4.0-4.5	ND(i)<10	ND<1	ND<50	2.1	ND<0.62	ND<0.62	1.2	ND<0.62	NA(j)	ND(k)
MW-6-4	4.0-4.5	ND<1.0	12(l)	110	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NA	ND(k)
MW-7-4	4.0-4.5	ND<1.0	3.3(l)	ND<50	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	6,220	ND(k)
MW-7-10	10.0-10.5	NA	NA	NA	NA	NA	NA	NA	NA	7,310	NA
MW-7-15	15.0-15.5	NA	NA	NA	NA	NA	NA	NA	NA	778	NA

NOTES:

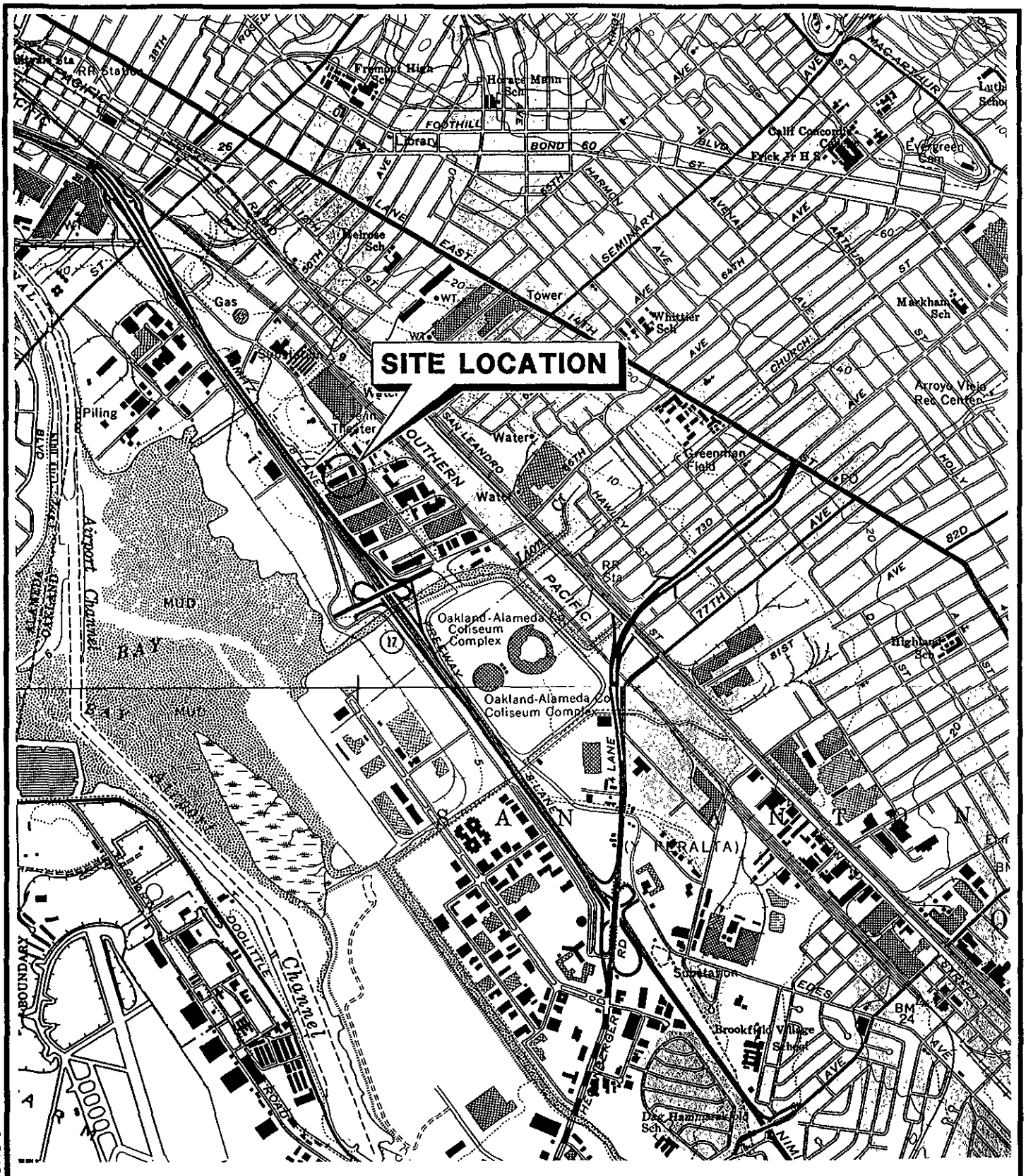
(a) Measured in feet below ground surface.
(b) Total petroleum hydrocarbons as gasoline.
(c) Milligrams per kilogram.
(d) Total petroleum hydrocarbons as diesel.
(e) Total petroleum hydrocarbons as motor oil.
(f) Methyl tertiary butyl ether.
(g) Total organic carbon.
(h) Polynuclear aromatic hydrocarbons.
(i) ND: Not detected at specified laboratory reporting limit.
(j) NA: Not analyzed.
(k) Laboratory reporting limit for polynuclear aromatic hydrocarbons ranging from 0.05 mg/kg to 0.2 mg/kg.
(l) Hydrocarbon reported is in the late diesel range and does not match the laboratory diesel standard, see attached certified laboratory analytical report.

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
580 Julie Ann Way
Oakland, California

SAMPLE NUMBER	DATE	TPHg[a] (µg/ℓ)[b]	TPHd[c] (µg/ℓ)	TPHmo[d] (µg/ℓ)	Benzene (µg/ℓ)	Toluene (µg/ℓ)	Ethylbenzene (µg/ℓ)	Xylenes (µg/ℓ)	MTBE[e] (µg/ℓ)	Lead (mg/ℓ)[f]	TDS[g] (mg/ℓ)
MW-1	02/28/96	5,900	ND[h] < 10	1,700	540	9.0	950	110	NA[i]	NA	NA
	08/16/96	5,600	5,400[j]	4,000	540	7.3	950	110	NA	ND < 0.05	NA
	06/04/98	1,800	1,600[k]	640[l]	160	2.6	300	1.6	ND < 5.0	NA	580
MW-2	08/16/96	2,700	3,000[j]	1,800	63	36	65	100	NA	ND < 0.05	NA
	06/04/98	ND < 50	4,100[k]	ND < 500	10	0.72	2.3	3.5	ND < 5.0	NA	2,900
MW-3	08/16/96	ND < 50	730[j]	640	3.1	ND < 0.5	ND < 0.5	ND < 0.5	NA	ND < 0.05	NA
	06/04/98	ND < 50	860[k]	ND < 500	3.9	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	NA	5,100
MW-4	08/16/96	460	2,800[j]	3,000	17	1.0	9.1	1.4	NA	ND < 0.05	NA
	06/04/98	ND < 50	1,400[k]	710[l]	18	1.6	2.5	1.9	ND < 5.0	NA	2,000
MW-5	06/04/98	ND < 50	970[k]	ND < 500	7.2	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	NA	9,900
MW-6	06/04/98	ND < 50	120[k]	ND < 500	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	NA	43,000
MW-7	06/04/98	ND < 50	900[k]	540[l]	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	NA	6,100

NOTES:

(a) Total petroleum hydrocarbons as gasoline.
(b) Micrograms per liter.
(c) Total petroleum hydrocarbons as diesel.
(d) Total petroleum hydrocarbons as motor oil.
(e) Methyl tertiary butyl ether.
(f) Milligrams per liter.
(g) Total dissolved solids.
(h) ND: Not detected at specified laboratory reporting limit.
(i) NA: Not Analyzed.
(j) Lighter and heavier hydrocarbons were found in the range of diesel, but do not resemble a diesel fingerprint. Possible gasoline and motor oil, see attached certified laboratory analytical report.
(k) Hydrocarbon reported does not match the pattern of the laboratory diesel standard, see attached certified laboratory analytical report.
(l) Hydrocarbon reported does not match the pattern of the laboratory motor oil standard, see attached certified laboratory analytical report.



SOURCE: BASE MAP FROM U.S.G.S. OAKLAND EAST AND SAN LEANDRO CA QUADRANGLES. 7.5 MINUTE SERIES TOPOGRAPHIC MAP, PHOTOREVISED 1980.

SECOR
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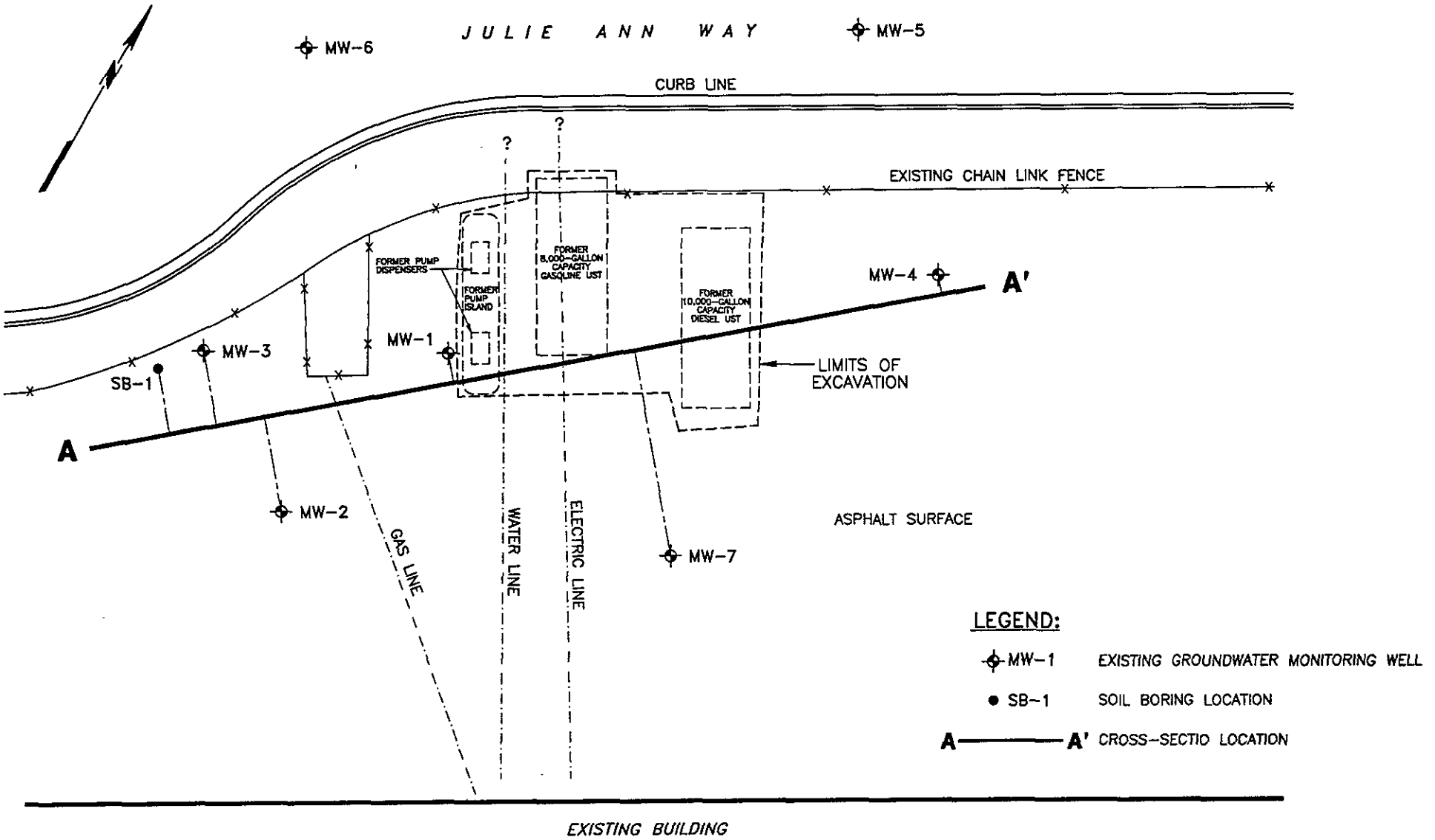
DATE	12OCT95
JOB NO.	70007-001-01

FIGURE 1
SAN FRANCISCO FRENCH BREAD
580 JULIE ANN WAY
OAKLAND, CALIFORNIA

SITE LOCATION MAP

199510.171511 X:\SF-BREAD\JULIE\SITEPLAN

199709.172338 X:\SF-BREAD\JULIE\JULIE00



REFERENCE: RON ARCHER CIVIL ENGINEER INC., DATED AUGUST 15, 1996.

0 20 40
SCALE FEET

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INTERNATIONAL INCORPORATED

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DATE	09JUL98
JOB NO.	50090-009-04

FIGURE 2
SAN FRANCISCO FRENCH BREAD
580 JULIE ANN WAY
OAKLAND, CALIFORNIA

SITE PLAN WITH CROSS-SECTION LOCATION

199805.241616 X:\SF-BREAD\JULIE\JULIE09

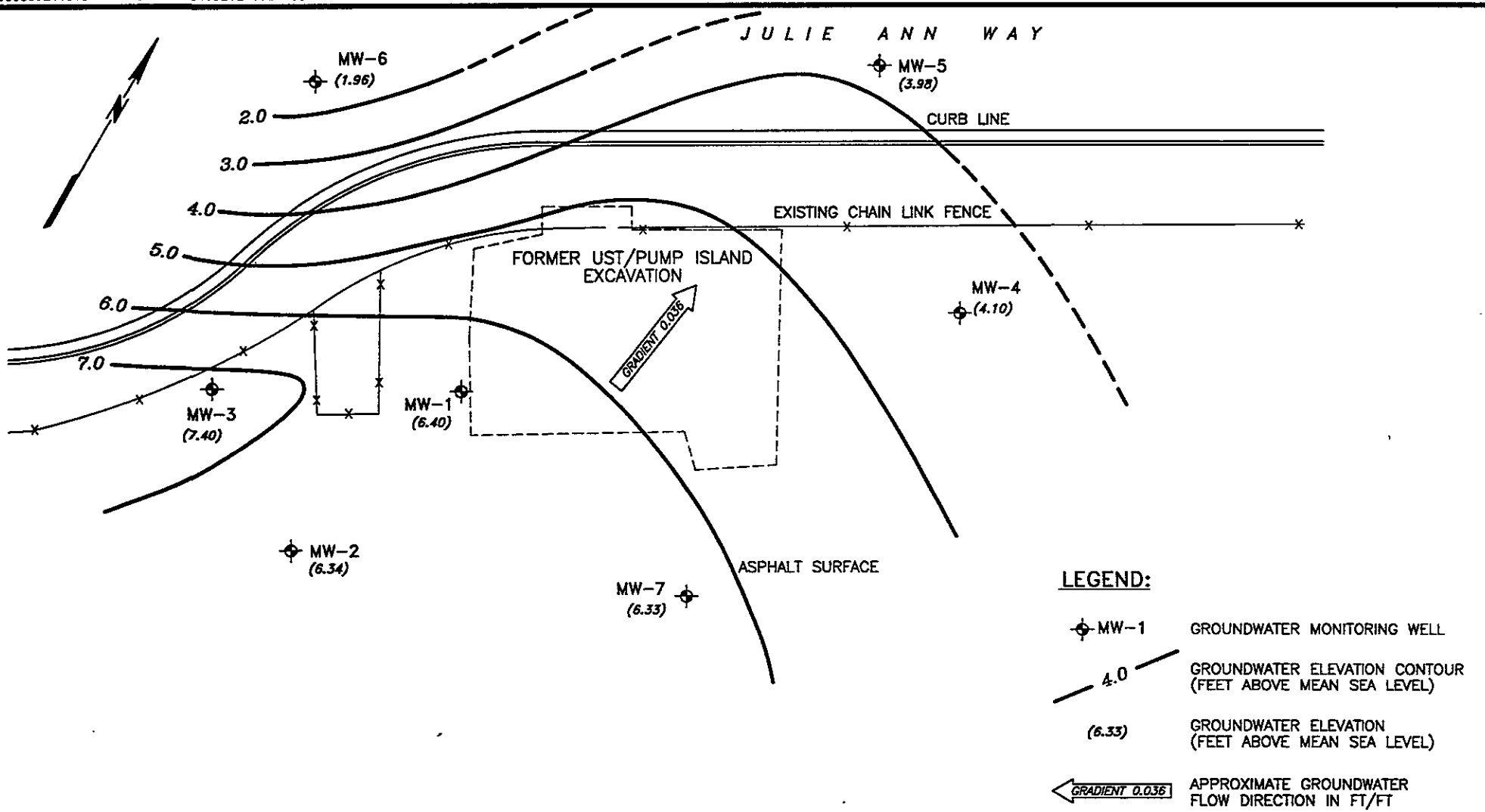

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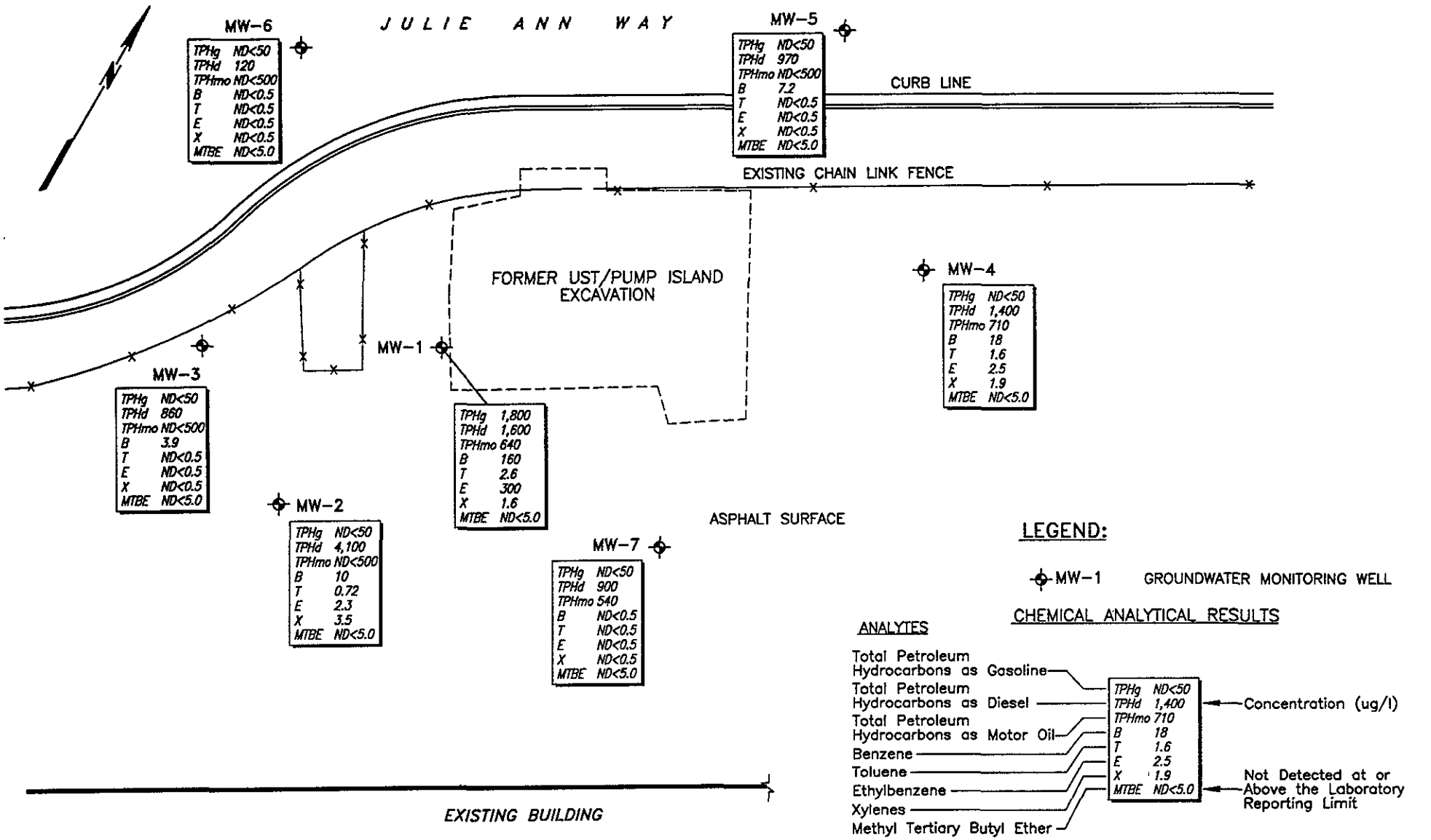
FIGURE 4
SAN FRANCISCO FRENCH BREAD
580 JULIE ANN WAY
OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP - JUNE 4, 1998

199807.081037 X:\SF-BREAD\JULIE\JULIE10



LEGEND:

MW-1 GROUNDWATER MONITORING WELL

CHEMICAL ANALYTICAL RESULTS

ANALYTES

Total Petroleum Hydrocarbons as Gasoline
Total Petroleum Hydrocarbons as Diesel
Total Petroleum Hydrocarbons as Motor Oil
Benzene
Toluene
Ethylbenzene
Xylenes
Methyl Tertiary Butyl Ether

TPHg ND<50
TPHd 1,400
TPHmo 710
B 18
T 1.6
E 2.5
X 1.9
MTBE ND<5.0

Concentration (ug/l)

Not Detected at or Above the Laboratory Reporting Limit

REFERENCE: RON ARCHER CIVIL ENGINEER INC., DATED AUGUST 15, 1996.

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JOB NO.	50090-009-04

FIGURE 5
SAN FRANCISCO FRENCH BREAD
580 JULIE ANN WAY
OAKLAND, CALIFORNIA

GROUNDWATER CHEMICAL RESULTS - JUNE 4, 1998

Appendix A

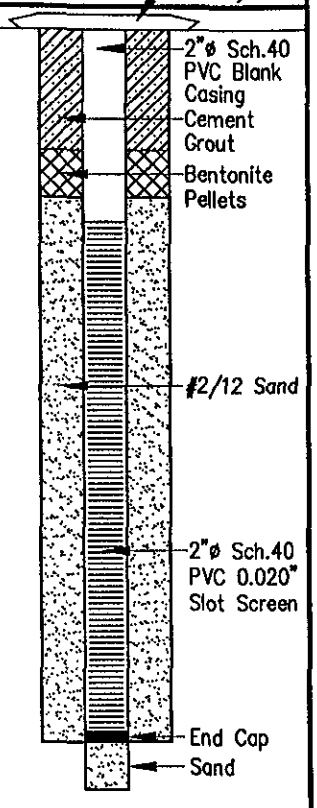
Boring Logs

Project: 580 JULIE ANN WAY, OAKLAND, CA			Log of Boring/Monitoring Well: **MW-5**
Boring Location: NORTH OF FORMER USTs ON JULIE ANN WY	Project No.: 50090-009-04		
Subcontractor and Equipment: GREGG/HSA	Logged By: CM	Drawn By: CCR	
Sampling Method: CAL MODIFIED SPLIT-SPOON	Monitoring Device: OVM 580B		Comments:
Start Date/Time: 5/20/98//0800	Finish Date/Time: 5/20/98//0930		
First Water (bgs): NOT ENCOUNTERED	Stabilized Water Level (bgs): 5.44 FT.		

Surface Elevation: NA Casing Top Elevation: NA

Sample Number	Blows/foot	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	Water Level	LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)
HAND AUGER			0				ASPHALT
			1				LIGHT OLIVE BROWN (2.5Y 5/3) GRAVELLY SAND (SP) with silt, fine-grained sand, dense, moist (30,55,15,0) (FILL)
			2				
			3				BLACK (2.5Y N2/0) SANDY CLAY (CL) with silt and trace gravel, fine-grained sand, gravel is fine pieces of concrete and brick, stiff, moist, pieces of tire, wood, moderate chemical odor (5,25,15,55) (FILL)
MW-5-4	50/6	85	4				
			5				
			6				
			7				VERY DARK GRAY (2.5Y N3/0) ORGANIC CLAY (OH) soft, moist, high plasticity, low density, fibrous organic material in zones, weak platy structure (0,0,0,100) (BAY MUD)
			8				
			9				
MW-5-10	5	1	10				
			11				
			12				
			13				
			14				DARK GREENISH GRAY (5GY 4/1) CLAY (CL) very stiff, moist, moderate to high plasticity, roots and rootholes, subangular blocky soil structure (0,0,0,100) (BAY MUD)
MW-5-15	34	2	15				
			16				
			17				
			18				
			19				
			20				
			21				
			22				
			23				
			24				
			25				
			26				
			27				
			28				
			29				
			30				

Boring Abandonment/ Well Construction Details



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SECOR

Reviewed By: _____ Date: _____

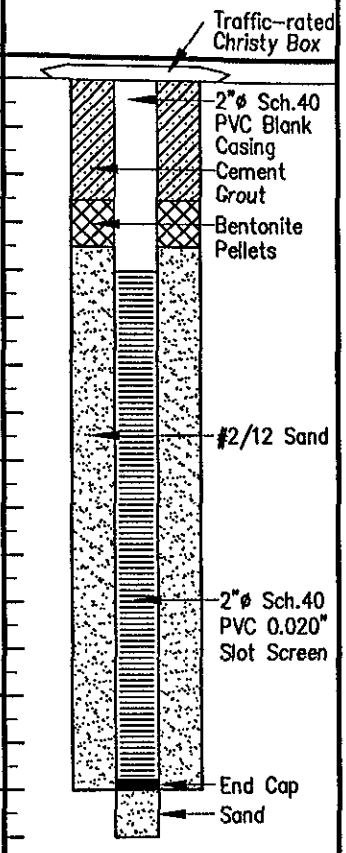
Revised By: _____ Date: _____

Project: 580 JULIE ANN WAY, OAKLAND, CA			Log of Boring/Monitoring Well: **MW-6**
Boring Location: NW OF FORMER USTs ON JULIE ANN WY	Project No.: 50090-009-04		
Subcontractor and Equipment: GREGG/HSA	Logged By: CM	Drawn By: CCR	
Sampling Method: CAL MODIFIED SPLIT-SPOON	Monitoring Device: OVM 580B		Comments:
Start Date/Time: 5/20/98//0930	Finish Date/Time: 5/20/98//1030		
First Water (bgs): NOT ENCOUNTERED	Stabilized Water Level (bgs): 7.92 FT.		

Surface Elevation: NA Casing Top Elevation: NA

Sample Number	Blows/foot	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	Water Level	LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)
HAND AUGER			0				ASPHALT
			1				LIGHT OLIVE BROWN (2.5Y 5/3) GRAVELLY SAND (SP) with silt, fine-grained sand, dense, moist (30,55,15,0) (FILL)
			2				
			3				VERY DARK GRAY (5Y 3/1) SANDY CLAY (CL) with silt and trace gravel, fine-grained sand,
MW-6-4	32	2	4				stiff, fine to medium gravel, angular pieces of
			5				brick and concrete, moist, moderate plasticity,
			6				faint chemical odor (5,25,15,55) (FILL)
			7				
			8				OLIVE GRAY (5Y 5/2) ORGANIC CLAY (OH)
			9				stiff, moist, high plasticity, low density, buttery
MW-6-10	6	1	10				texture, roots, faint H20 odor, weak platy
			11				structure (0,0,0,100) (BAY MUD)
			12				
			13				DARK GREENISH GRAY (5GY 4/1) CLAY (CL) stiff,
			14				moist, moderate to high plasticity, subangular
MW-6-15	22	2	15				blocky soil structure (0,0,0,100) (BAY MUD)
			16				DARK GREENISH GRAY (5GY 4/1) SANDY CLAY
			17				(CL) fine-grained sand, very stiff, moist, low
			18				plasticity (0,40,0,60) (BAY MUD)
			19				
			20				
			21				
			22				
			23				
			24				
			25				
			26				
			27				
			28				
			29				
			30				

Boring Abandonment/ Well Construction Details



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SECOR

Reviewed By: _____ Date: _____

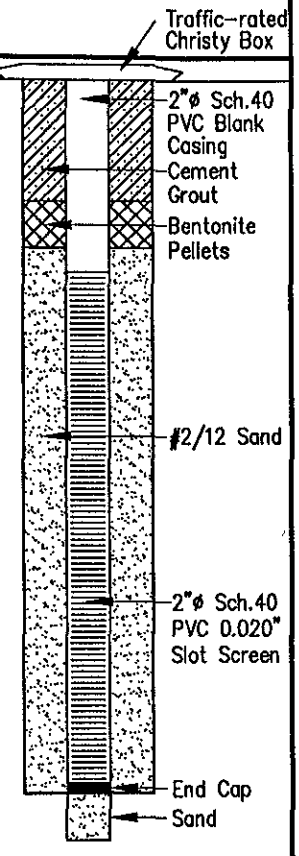
Revised By: _____ Date: _____

Project: 580 JULIE ANN WAY, OAKLAND, CA			Log of Boring/Monitoring Well: MW-7
Boring Location: SE OF FORMER USTs	Project No.: 50090-009-04		
Subcontractor and Equipment: GREGG/HSA	Logged By: CM	Drawn By: CCR	
Sampling Method: CAL MODIFIED SPLIT-SPOON	Monitoring Device: OVM 580B		Comments:
Start Date/Time: 5/20/98//1300	Finish Date/Time: 5/20/98//1400		
First Water (bgs): 10.0 FEET	Stabilized Water Level (bgs): 3.58 FT.		

Surface Elevation: NA Casing Top Elevation: NA

Sample Number	Blows/foot	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	Water Level	LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)
HAND AUGER			0				ASPHALT
			1				GREENISH GRAY (5G 5/1) GRAVELLY SAND (SP) with silt, fine-grained sand, dense, moist (30,55,15,0) (FILL)
			2				
			3				VERY DARK GRAY (5Y 3/1) SANDY CLAY (CL) with silt and trace gravel, fine-grained sand, *fine to coarse gravel, angular pieces of* concrete and brick, hard, moist, moderate plasticity, pieces of wire, faint chemical odor (5,25,15,55) (FILL)
MW-7-4	50	5	4				
			5				
			6				
			7				
			8				
			9				
MW-7-10	7	0	10				VERY DARK GRAY (5Y 3/1) ORGANIC CLAY (OH) stiff, moist, high plasticity, low density, buttery texture, subangular blocky soil structure, roots, faint H2S odor (0,0,0,100) (BAY MUD)
			11				
			12				
			13				
			14				DARK GREENISH GRAY (5GY 4/1) CLAY (CL) very stiff, moist, moderate to high plasticity (0,0,0,100) (BAY MUD)
MW-7-15	25	0	15				
			16				
			17				
			18				
			19				
			20				
			21				
			22				
			23				
			24				
			25				
			26				
			27				
			28				
			29				
			30				

Boring Abandonment/ Well Construction Details



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SECOR

Reviewed By: _____ Date: _____

Revised By: _____ Date: _____

Appendix B

Field Report and Water Sample Field Data Sheets

FIELD REPORT
DEPTH TO WATER / FLOATING PRODUCT SURVEY

PROJECT NO.: 50090-009-04 LOCATION: 580 Julie Ann Way, Oak. DATE: 6-4-98

CLIENT/STATION #: SFFB - Oak. FIELD TECHNICIAN: C. Melancon DAY OF WEEK: Thurs.

DTW ORDER	WELL ID	SURFACE SEAL	LID SECURE	GASKET	LOCK	EXPANDING CAP	TOTAL DEPTH (Feet)	FIRST DEPTH TO WATER (Feet)	SECOND DEPTH TO WATER (Feet)	DEPTH TO FLOATING PRODUCT (Feet)	FLOATING PRODUCT THICKNESS (Feet)	COMMENTS
	MW-1						14.40	3.66	3.66			
	MW-2						14.55	3.83	3.83			
	MW-3						14.80	2.72	2.72			
	MW-4						14.80	5.60	5.60			
	MW-5						14.85	5.44	5.45			
	MW-6						14.75	7.92	7.90			Probably not at equilibrium
	MW-7						14.70	3.58	3.58			

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 50090-009-04 PURGED BY: CM WELL I.D.: MW-1

CLIENT NAME: SFFB SAMPLED BY: CM SAMPLE I.D.: MW-1

LOCATION: 580 Julie Ann Way, Oakland QA SAMPLES: —

DATE PURGED 6-4-98 START (2400hr) 12:45 END (2400hr) 13:00

DATE SAMPLED 6-4-98 SAMPLE TIME (2400hr) 13:30

SAMPLE TYPE: Groundwater ✓ Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER:	2"	3"	4"	5"	6"	8"	Other
Casing Volume: (gallons per foot)	✓ (0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )

DEPTH TO BOTTOM (feet) = 14.4 CASING VOLUME (gal) = 1.83

DEPTH TO WATER (feet) = 3.66 CALCULATED PURGE (gal) = 5.48

WATER COLUMN HEIGHT (feet) = 10.74 ACTUAL PURGE (gal) = 6.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
6-4	12:50	2.0	72.6	1130	7.46	Cloudy	low
"	12:55	4.0	73.1	977	7.39	grey	mod
"	13:00	6.0	73.1	979	7.25	"	"

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: — SAMPLE TURBIDITY: —

80% RECHARGE: ___YES ___NO ANALYSES: ____

ODOR: ____ SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
___ Bladder Pump	___ Bailer (Teflon)	___ Bladder Pump	___ Bailer (Teflon)
___ Centrifugal Pump	___ Bailer (PVC)	___ Centrifugal Pump	X Bailer (___ PVC or X disposable)
___ Submersible Pump	___ Bailer (Stainless Steel)	___ Submersible Pump	___ Bailer (Stainless Steel)
___ Peristaltic Pump	___ Dedicated ____	___ Peristaltic Pump	___ Dedicated ____
Other: Disp. Bailer		Other: ____	
Pump Depth: ____			

WELL INTEGRITY: good LOCK#: ____

REMARKS: ____

SIGNATURE: [signature] Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 50090-009-04 PURGED BY: ZM WELL I.D.: MW-2

CLIENT NAME: SFFB SAMPLED BY: ZM SAMPLE I.D.: MW-2

LOCATION: 580 Julie Ann Way, Oakland QA SAMPLES: —

DATE PURGED 6-4-98 START (2400hr) 11:40 END (2400hr) 11:55

DATE SAMPLED 6-4-98 SAMPLE TIME (2400hr) 12:00

SAMPLE TYPE: Groundwater ✓ Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER:	2"	3"	4"	5"	6"	8"	Other
Casing Volume: (gallons per foot)	✓ (0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )

DEPTH TO BOTTOM (feet) = 14.55 CASING VOLUME (gal) = 1.82

DEPTH TO WATER (feet) = 3.83 CALCULATED PURGE (gal) = 5.47

WATER COLUMN HEIGHT (feet) = 10.72 ACTUAL PURGE (gal) = 6.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
6-4	11:45	2.0	73.5	4600	7.53	Lt. grey	Mod.
"	11:50	4.0	72.0	4820	7.30	grey	"
"	11:55	6.0	71.8	4280	7.27	"	Lt

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: ____ SAMPLE TURBIDITY: —

80% RECHARGE: ___YES ___NO ANALYSES: ____

ODOR: ____ SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
___ Bladder Pump	___ Bailer (Teflon)	___ Bladder Pump	___ Bailer (Teflon)
___ Centrifugal Pump	___ Bailer (PVC)	___ Centrifugal Pump	X Bailer (___ PVC or X disposable)
___ Submersible Pump	___ Bailer (Stainless Steel)	___ Submersible Pump	___ Bailer (Stainless Steel)
___ Peristaltic Pump	___ Dedicated ____	___ Peristaltic Pump	___ Dedicated ____
Other: Disp. Bailer		Other: ____	
Pump Depth: ____			

WELL INTEGRITY: good LOCK#: ____

REMARKS: ____

SIGNATURE: [signature]

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 50090-009-04 PURGED BY: CM WELL I.D.: MW-3

CLIENT NAME: SFFB SAMPLED BY: CM SAMPLE I.D.: MW-3

LOCATION: 580 Julie Ann Way, Oakland QA SAMPLES: —

DATE PURGED 6-4-98 START (2400hr) 11:25 END (2400hr) 11:40

DATE SAMPLED 6-4-98 SAMPLE TIME (2400hr) 13:40

SAMPLE TYPE: Groundwater ✓ Surface Water ___ Treatment Effluent ___ Other ___

CASING DIAMETER:	2" ✓	3" ___	4" ___	5" ___	6" ___	8" ___	Other ___
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )

DEPTH TO BOTTOM (feet) = 14.8 CASING VOLUME (gal) = 2.05

DEPTH TO WATER (feet) = 2.72 CALCULATED PURGE (gal) = 6.16

WATER COLUMN HEIGHT (feet) = 12.08 ACTUAL PURGE (gal) = 5.0*

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
	11:30	2.0	70.7	3450	7.34	cloudy	low
	11:35	4.0	70.8	8320	7.14	"	"
	11:40	5.0*	70.7	10230	7.05	grey	med

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: — SAMPLE TURBIDITY: —

80% RECHARGE: ___YES ___NO ANALYSES: ___

ODOR: — SAMPLE VESSEL / PRESERVATIVE: ___

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
___ Bladder Pump	___ Bailer (Teflon)	___ Bladder Pump	___ Bailer (Teflon)
___ Centrifugal Pump	___ Bailer (PVC)	___ Centrifugal Pump	X Bailer (___PVC or X disposable)
___ Submersible Pump	___ Bailer (Stainless Steel)	___ Submersible Pump	___ Bailer (Stainless Steel)
___ Peristaltic Pump	___ Dedicated ___	___ Peristaltic Pump	___ Dedicated ___
Other: Disp. Bailer		Other: ___	
Pump Depth: ___			

WELL INTEGRITY: good LOCK#: ___

REMARKS: * Dry

SIGNATURE: [signature] Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 50090-009-04 PURGED BY: CM WELL I.D.: MW-4

CLIENT NAME: SFFB SAMPLED BY: CM SAMPLE I.D.: MW-4

LOCATION: 580 Julie Ann Way, Oakland QA SAMPLES: —

DATE PURGED 6-4-98 START (2400hr) 12:25 END (2400hr) 12:40

DATE SAMPLED 6-4-98 SAMPLE TIME (2400hr) 13:20

SAMPLE TYPE: Groundwater ✓ Surface Water ___ Treatment Effluent ___ Other ___

CASING DIAMETER:	2" ✓	3" ___	4" ___	5" ___	6" ___	8" ___	Other ___
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )

DEPTH TO BOTTOM (feet) = 14.8 CASING VOLUME (gal) = 1.56

DEPTH TO WATER (feet) = 5.60 CALCULATED PURGE (gal) = 4.69

WATER COLUMN HEIGHT (feet) = 9.20 ACTUAL PURGE (gal) = 6.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
6-4	12:30	~~3~~ 2.0	73.7	3180	7.22	Cloudy	low
"	12:35	4.0	73.6	3340	6.96	"	"
"	12:40	6.0	72.6	5030	6.94	Grey	mod

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: — SAMPLE TURBIDITY: —

80% RECHARGE: ___YES ___NO ANALYSES: ___

ODOR: ___ SAMPLE VESSEL / PRESERVATIVE: ___

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
___ Bladder Pump	___ Bailer (Teflon)	___ Bladder Pump	___ Bailer (Teflon)
___ Centrifugal Pump	___ Bailer (PVC)	___ Centrifugal Pump	X Bailer (___ PVC or X disposable)
___ Submersible Pump	___ Bailer (Stainless Steel)	___ Submersible Pump	___ Bailer (Stainless Steel)
___ Peristaltic Pump	___ Dedicated ___	___ Peristaltic Pump	___ Dedicated ___
Other: Disp. Bailer		Other: ___	
Pump Depth: ___			

WELL INTEGRITY: good LOCK#: ___

REMARKS: ___

SIGNATURE: [signature]

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 50090-009-04 PURGED BY: CM WELL I.D.: MW-5

CLIENT NAME: SFFB SAMPLED BY: CM SAMPLE I.D.: MW-5

LOCATION: 580 Julie Ann Way, Oakland QA SAMPLES: —

DATE PURGED 6-4-98 START (2400hr) 10:05 END (2400hr) 10:25

DATE SAMPLED 6-4-98 SAMPLE TIME (2400hr) 14:00

SAMPLE TYPE: Groundwater ✓ Surface Water ___ Treatment Effluent ___ Other ___

CASING DIAMETER:	2"	3"	4"	5"	6"	8"	Other
Casing Volume: (gallons per foot)	✓ (0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )

DEPTH TO BOTTOM (feet) = 14.85 CASING VOLUME (gal) = 1.60

DEPTH TO WATER (feet) = 5.44 CALCULATED PURGE (gal) = 16.00

WATER COLUMN HEIGHT (feet) = 9.41 ACTUAL PURGE (gal) = ___

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
6-4	10:10	1.0	69.9	11400	7.24	Grey	Mod.
	10:15	3.0	69.2	10,430	7.22	"	"
	10:20	6.0	69.6	13,100	7.12	"	"
	10:25	9.5*	69.3	17,450	7.08	"	"

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: — SAMPLE TURBIDITY: —

80% RECHARGE: ___YES ___NO ANALYSES: ___

ODOR: ___ SAMPLE VESSEL / PRESERVATIVE: ___

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
___ Bladder Pump	___ Bailer (Teflon)	___ Bladder Pump	___ Bailer (Teflon)
___ Centrifugal Pump	___ Bailer (PVC)	___ Centrifugal Pump	X Bailer (___PVC or X disposable)
___ Submersible Pump	___ Bailer (Stainless Steel)	___ Submersible Pump	___ Bailer (Stainless Steel)
___ Peristaltic Pump	___ Dedicated ___	___ Peristaltic Pump	___ Dedicated ___
Other: Disp. Bailer		Other: ___	
Pump Depth: ___			

WELL INTEGRITY: good LOCK#: ___

REMARKS: * Dry

SIGNATURE: [signature] Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 50090-009-04 PURGED BY: CM WELL I.D.: MW-6

CLIENT NAME: SFFB SAMPLED BY: CM SAMPLE I.D.: MW-6

LOCATION: 580 Julie Ann Way, Oakland QA SAMPLES: —

DATE PURGED 6-4-98 START (2400hr) 9:25 END (2400hr) _____

DATE SAMPLED 6-4-98 SAMPLE TIME (2400hr) 14:30

SAMPLE TYPE: Groundwater ✓ Surface Water ____ Treatment Effluent ____ Other _____

CASING DIAMETER: 2" X 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 14.75 CASING VOLUME (gal) = 1.16

DEPTH TO WATER (feet) = 7.90 CALCULATED PURGE (gal) = 11.65

WATER COLUMN HEIGHT (feet) = 6.85 ACTUAL PURGE (gal) = _____

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
6-4	9:30	1.0	69.5	>20000	6.79	Dk. grey	High
"	9:35	2.0	71.5	>20000	6.89	"	"
"	9:40	4.0	70.7	>20000	6.85	"	"
"	9:50	8.0	71.8	>20000	6.88	"	"
"	9:55	11.0	70.1	>20000	6.94	"	"
"	10:00	12.0 *	70.4	>20000	6.97	"	"

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: _____ SAMPLE TURBIDITY: _____

80% RECHARGE: ___YES ___NO ANALYSES: _____

ODOR: _____ SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT

____ Bladder Pump ____ Bailer (Teflon)
____ Centrifugal Pump ____ Bailer (PVC)
____ Submersible Pump ____ Bailer (Stainless Steel)
____ Peristaltic Pump ____ Dedicated _____
Other: Disp. Bailer
Pump Depth: _____

SAMPLING EQUIPMENT

____ Bladder Pump ____ Bailer (Teflon)
____ Centrifugal Pump X Bailer (___PVC or X disposable)
____ Submersible Pump ____ Bailer (Stainless Steel)
____ Peristaltic Pump ____ Dedicated _____
Other: _____

WELL INTEGRITY: good LOCK#: _____

REMARKS: * Dry

SIGNATURE: _____

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 50090-009-04 PURGED BY: CM WELL I.D.: MW-7

CLIENT NAME: SFFB SAMPLED BY: CM SAMPLE I.D.: MW-7

LOCATION: 580 Julie Ann Way, Oakland QA SAMPLES: —

DATE PURGED 6-4-98 START (2400hr) 10:40 END (2400hr) 11:20

DATE SAMPLED 6-4-98 SAMPLE TIME (2400hr) 13:00

SAMPLE TYPE: Groundwater ____ Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER:	2"	3"	4"	5"	6"	8"	Other
Casing Volume: (gallons per foot)	✓ (0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )

DEPTH TO BOTTOM (feet) = 14.7 CASING VOLUME (gal) = 1.89

DEPTH TO WATER (feet) = 3.58 CALCULATED PURGE (gal) = 18.90

WATER COLUMN HEIGHT (feet) = 11.12 ACTUAL PURGE (gal) = 20.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
6-4	10:45	1.0	71.0	9810	7.52	DK. Gray	High
"	10:50	3.0	71.8	9030	7.42	"	"
"	10:55	8.0	71.3	8750	7.35	"	"
"	11:00	11.0	71.7	9730	7.38	"	"
"	11:10	16.0	72.3	8570	7.21	"	"
"	11:15	18.0	72.2	8570	7.17	"	"
"	11:20	20.0	72.3	8620	7.19	"	"

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: — SAMPLE TURBIDITY: —

80% RECHARGE: __YES __NO ANALYSES: ____

ODOR: ____ SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
____ Bladder Pump	____ Bailer (Teflon)	____ Bladder Pump	____ Bailer (Teflon)
____ Centrifugal Pump	____ Bailer (PVC)	____ Centrifugal Pump	X Bailer (____ PVC or X disposable)
____ Submersible Pump	____ Bailer (Stainless Steel)	____ Submersible Pump	____ Bailer (Stainless Steel)
____ Peristaltic Pump	____ Dedicated ____	____ Peristaltic Pump	____ Dedicated ____
Other: Disp. Bailer		Other: ____	
Pump Depth: ____			

WELL INTEGRITY: Good LOCK#: ____

REMARKS: ____

SIGNATURE: [signature]

Appendix C

Laboratory Analytical Results and Chain-of-Custody Records

CHROMALAB, INC.

Environmental Services (SDB)

June 4, 1998 Submission #: 9805342

SECOR SAN FRANCISCO
90 New Montgomery St. , Suite 620
San Francisco, CA 94105-4503

Attn: Liping Zhang

RE: Analysis for project SFFB-OAKLAND, number 50090-009-04.

REPORTING INFORMATION

Samples were received cold and in good condition on May 22, 1998. They were refrigerated upon receipt and analyzed as described in the attached report. ChromaLab followed EPA or equivalent methods for all testing reported.

No discrepancies were observed or difficulties encountered with the testing.

Client Sample ID	Matrix	Date collected	Sample #
MW-5,10'	SOIL	May 20, 1998	187213
MW-5,15'	SOIL	May 20, 1998	187214
MW-5,4'	SOIL	May 20, 1998	187208
MW-6,10'	SOIL	May 20, 1998	187216
MW-6,15'	SOIL	May 20, 1998	187215
MW-6,4'	SOIL	May 20, 1998	187209
MW-7,10'	SOIL	May 20, 1998	187211
MW-7,15'	SOIL	May 20, 1998	187212
MW-7,4'	SOIL	May 20, 1998	187210

Afsaneh Salimpour
Project Manager

CHROMALAB, INC.

Environmental Services (SDB)

June 1, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: *SW846 Method 8270A Nov 1990*

Client Sample ID: **MW-5,4'**
Spl#: 187208 *Matrix:* SOIL *Extracted:* May 28, 1998
Sampled: May 20, 1998 *Run#:* 12949 *Analyzed:* May 29, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
NAPHTHALENE	N.D.	0.10	N.D.	--	1
ACENAPHTHYLENE	N.D.	0.10	N.D.	--	1
ACENAPHTHENE	N.D.	0.10	N.D.	91.3	1
FLUORENE	N.D.	0.10	N.D.	--	1
PHENANTHRENE	N.D.	0.10	N.D.	--	1
ANTHRACENE	N.D.	0.10	N.D.	--	1
FLUORANTHENE	N.D.	0.10	N.D.	--	1
PYRENE	N.D.	0.10	N.D.	77.3	1
BENZO(A)ANTHRACENE	N.D.	0.10	N.D.	--	1
CHRYSENE	N.D.	0.10	N.D.	--	1
BENZO(B)FLUORANTHENE	N.D.	0.10	N.D.	--	1
BENZO(K)FLUORANTHENE	N.D.	0.20	N.D.	--	1
BENZO(A)PYRENE	N.D.	0.050	N.D.	--	1
INDENO(1,2,3-CD)PYRENE	N.D.	0.20	N.D.	--	1
DIBENZO(A,H)ANTHRACENE	N.D.	0.20	N.D.	--	1
BENZO(GHI)PERYLENE	N.D.	0.20	N.D.	--	1

Michael Lee
Analyst

Michael Verona
Operations Manager

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

June 1, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: *SW846 Method 8270A Nov 1990*

Client Sample ID: **MW-6,4'**
Spl#: 187209 *Matrix:* SOIL *Extracted:* May 28, 1998
Sampled: May 20, 1998 *Run#:* 12949 *Analyzed:* May 29, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
NAPHTHALENE	N.D.	0.10	N.D.	--	1
ACENAPHTHYLENE	N.D.	0.10	N.D.	--	1
ACENAPHTHENE	N.D.	0.10	N.D.	91.3	1
FLUORENE	N.D.	0.10	N.D.	--	1
PHENANTHRENE	N.D.	0.10	N.D.	--	1
ANTHRACENE	N.D.	0.10	N.D.	--	1
FLUORANTHENE	N.D.	0.10	N.D.	--	1
PYRENE	N.D.	0.10	N.D.	77.3	1
BENZO(A)ANTHRACENE	N.D.	0.10	N.D.	--	1
CHRYSENE	N.D.	0.10	N.D.	--	1
BENZO(B)FLUORANTHENE	N.D.	0.10	N.D.	--	1
BENZO(K)FLUORANTHENE	N.D.	0.20	N.D.	--	1
BENZO(A)PYRENE	N.D.	0.050	N.D.	--	1
INDENO(1,2,3-CD)PYRENE	N.D.	0.20	N.D.	--	1
DIBENZO(A,H)ANTHRACENE	N.D.	0.20	N.D.	--	1
BENZO(GHI)PERYLENE	N.D.	0.20	N.D.	--	1

Michael Lee
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CHROMALAB, INC.

Environmental Services (SDB)

June 1, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: *SW846 Method 8270A Nov 1990*

Client Sample ID: **MW-7,4'**
Spl#: 187210 *Matrix:* SOIL *Extracted:* May 28, 1998
Sampled: May 20, 1998 *Run#:* 12949 *Analyzed:* June 1, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
NAPHTHALENE	N.D.	0.50	N.D.	--	5
ACENAPHTHYLENE	N.D.	0.50	N.D.	--	5
ACENAPHTHENE	N.D.	0.50	N.D.	91.3	5
FLUORENE	N.D.	0.50	N.D.	--	5
PHENANTHRENE	N.D.	0.50	N.D.	--	5
ANTHRACENE	N.D.	0.50	N.D.	--	5
FLUORANTHENE	N.D.	0.50	N.D.	--	5
PYRENE	N.D.	0.50	N.D.	77.3	5
BENZO(A)ANTHRACENE	N.D.	0.50	N.D.	--	5
CHRYSENE	N.D.	0.50	N.D.	--	5
BENZO(B)FLUORANTHENE	N.D.	0.50	N.D.	--	5
BENZO(K)FLUORANTHENE	N.D.	1.0	N.D.	--	5
BENZO(A)PYRENE	N.D.	0.25	N.D.	--	5
INDENO(1,2,3-CD)PYRENE	N.D.	1.0	N.D.	--	5
DIBENZO(A,H)ANTHRACENE	N.D.	1.0	N.D.	--	5
BENZO(GHI)PERYLENE	N.D.	1.0	N.D.	--	5

Note: Reporting limits raised due to matrix interference.

Michael Lee
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Michael Verona
Operations Manager

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CHROMALAB, INC.

Environmental Services (SDB)

June 1, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: **Blank spike and duplicate** report for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.

Method: SW846 Method 8270A Nov 1990

Matrix: SOIL
Lab Run#: 12949 *Analyzed:* May 28, 1998

Analyte	Spike Amount BSP (mg/Kg)	Spike Amount Dup (mg/Kg)	Found BSP	Found Dup	Recov BSP (%)	Recov Dup (%)	Control Limits	% RPD	% RPD Lim
ACENAPHTHENE	1.00	1.00	0.913	0.860	91.3	86.0	49-102	5.98	30
PYRENE	1.00	1.00	0.773	0.741	77.3	74.1	25-117	4.23	35

BS Smpl #: 187826
BSD Smpl #: 187827

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Environmental Services (SDB)

June 1, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: **Matrix spike** report for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.

Method: SW846 Method 8270A Nov 1990

Matrix: SOIL
Lab Run#: 12949 *Instrument:* *Analyzed:* May 28, 1998

Analyte	Spiked Sample Amount (mg/Kg)	Spike Amt MS (mg/Kg)	Spike Amt MSD (mg/Kg)	Amt Found MS (mg/Kg)	Amt Found MSD (mg/Kg)	Spike Recov MS (%)	Spike Recov MSD (%)	Control Limits	% RPD	% RPD Lim
ACENAPHTHENE	N.D.	0.989	0.992	1.12	1.13	113	114	49-102	0.88	30
PYRENE	N.D.	0.989	0.992	0.992	0.996	100	100	25-117	0	35

Sample Spiked: 187210
Submission #: 9805342
Client Sample ID: MW-7,4'

MS Smpl #: 187828
MSD Smpl #: 187829

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CHROMALAB, INC.

Environmental Services (SDB)

June 1, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: **Surrogate** report for 3 samples for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: SW846 Method 8270A Nov 1990
Lab Run#: 12949
Matrix: SOIL

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
187208-1	MW-5,4'	NITROBENZENE-D5	87.3	23-120
187208-1	MW-5,4'	2-FLUOROBIPHENYL	86.1	30-115
187208-1	MW-5,4'	TERPHENYL-D14	72.6	18-137
187209-1	MW-6,4'	NITROBENZENE-D5	82.3	23-120
187209-1	MW-6,4'	2-FLUOROBIPHENYL	85.3	30-115
187209-1	MW-6,4'	TERPHENYL-D14	66.8	18-137
187210-1	MW-7,4'	NITROBENZENE-D5	66.4	23-120
187210-1	MW-7,4'	2-FLUOROBIPHENYL	98.6	30-115
187210-1	MW-7,4'	TERPHENYL-D14	95.0	18-137

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
187825-1	*Reagent blank (MDB)*	NITROBENZENE-D5	86.6	23-120
187825-1	*Reagent blank (MDB)*	2-FLUOROBIPHENYL	88.2	30-115
187825-1	*Reagent blank (MDB)*	TERPHENYL-D14	72.6	18-137
187826-1	*Spiked blank (BSP)*	NITROBENZENE-D5	87.4	23-120
187826-1	*Spiked blank (BSP)*	2-FLUOROBIPHENYL	87.0	30-115
187826-1	*Spiked blank (BSP)*	TERPHENYL-D14	71.4	18-137
187827-1	*Spiked blank duplicate (BSD)*	NITROBENZENE-D5	86.7	23-120
187827-1	*Spiked blank duplicate (BSD)*	2-FLUOROBIPHENYL	87.0	30-115
187827-1	*Spiked blank duplicate (BSD)*	TERPHENYL-D14	71.7	18-137
187828-1	*Matrix spike (MS)*	NITROBENZENE-D5	80.2	23-120
187828-1	*Matrix spike (MS)*	2-FLUOROBIPHENYL	106	30-115
187828-1	*Matrix spike (MS)*	TERPHENYL-D14	89.0	18-137
187829-1	*Matrix spike duplicate (MSD)*	NITROBENZENE-D5	81.6	23-120
187829-1	*Matrix spike duplicate (MSD)*	2-FLUOROBIPHENYL	112	30-115
187829-1	*Matrix spike duplicate (MSD)*	TERPHENYL-D14	89.4	18-137

S105
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CHROMALAB, INC.

Environmental Services (SDB)

June 1, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: **Surrogate** report for 3 samples for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: SW846 Method 8270A Nov 1990
Lab Run#: 12949

S105
QCSURR1229 LINDA 01-Jun-98 16:0

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CHROMALAB, INC.

Environmental Services (SDB)

May 29, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: 1 sample for TEPH analysis.
Method: *EPA 8015M*

Matrix: SOIL *Extracted:* May 28, 1998
Sampled: May 20, 1998 *Run#:* 12952 *Analyzed:* May 28, 1998

Spl# CLIENT SPL ID	Diesel (mg/Kg)	Motor Oil (mg/Kg)
187208 MW-5,4'	N.D.	N.D.
Reporting Limits	1.0	50
Blank Result	N.D.	N.D.
Blank Spike Result (%)	86.4	--

Carolyn House
Analyst

Bruce Havlik
Analyst

**AS AS 06/01

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CHROMALAB, INC.

Environmental Services (SDB)

May 29, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: 1 sample for TEPH analysis.
Method: *EPA 8015M*

Matrix: SOIL *Extracted:* May 28, 1998
Sampled: May 20, 1998 *Run#:* 12952 *Analyzed:* May 29, 1998

Spl#	CLIENT SPL ID	Diesel (mg/Kg)	Motor Oil (mg/Kg)
187209	MW-6,4'	12	110

Note: Hydrocarbon reported is in the late Diesel range and does not match our Diesel standard.

Reporting Limits	5.0	100
Blank Result	N.D.	N.D.
Blank Spike Result (%)	86.4	--

Carolyn House
Analyst

Bruce Havlik
Analyst

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CHROMALAB, INC.

Environmental Services (SDB)

May 29, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: 1 sample for TEPH analysis.
Method: *EPA 8015M*

Matrix: SOIL *Extracted:* May 28, 1998
Sampled: May 20, 1998 *Run#:* 12952 *Analyzed:* May 28, 1998

Spl#	CLIENT SPL ID	Diesel (mg/Kg)	Motor Oil (mg/Kg)
187210	MW-7,4'	3.3	N.D.

Note: Hydrocarbon reported is in the late Diesel range and does not match our Diesel standard.

Reporting Limits	1.0	50
Blank Result	N.D.	N.D.
Blank Spike Result (%)	86.4	--

Carolyn House
Analyst

Bruce Havlik
Analyst

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CHROMALAB, INC.

Environmental Services (SDB)

May 29, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: **Blank spike and duplicate** report for TEPH analysis.

Method: EPA 8015M

Matrix: SOIL
Lab Run#: 12952 *Analyzed:* May 28, 1998

Analyte	Spike Amount BSP (mg/Kg)	Spike Amount Dup (mg/Kg)	Found BSP (mg/Kg)	Found Dup (mg/Kg)	Recov BSP (%)	Recov Dup (%)	Control Limits	% RPD	% RPD Lim
DIESEL	83.3	83.3	72.0	84.0	86.4	101	60-130	15.6	25

BS Smpl #: 187837
BSD Smpl #: 187838

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CHROMALAB, INC.

Environmental Services (SDB)

May 29, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: **Matrix spike** report for TEPH analysis.

Method: EPA 8015M

Matrix: SOIL
Lab Run#: 12952 *Instrument:* *Analyzed:* May 29, 1998

Analyte	Spiked Sample Amount (mg/Kg)	Spike Amt MS (mg/Kg)	Spike Amt MSD (mg/Kg)	Amt Found MS (mg/Kg)	Amt Found MSD (mg/Kg)	Spike Recov MS (%)	Spike Recov MSD (%)	Control Limits	% RPD	% RPD Lim
DIESEL	1.5	81.7	81.6	78.2	76.4	95.7	93.6	60-130	2.22	25

Sample Spiked: 187148
Submission #: 9805338
Client Sample ID: 49B11-02

MS Smpl #: 187839
MSD Smpl #: 187840

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CHROMALAB, INC.

Environmental Services (SDB)

May 29, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: **Surrogate** report for 3 samples for TEPH analysis.

Method: EPA 8015M
Lab Run#: 12952
Matrix: SOIL

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
187208-1	MW-5,4'	O-TERPHENYL	96.6	60-130
187209-1	MW-6,4'	O-TERPHENYL	116	60-130
187210-1	MW-7,4'	O-TERPHENYL	112	60-130

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
187836-1	*Reagent blank (MDB)*	O-TERPHENYL	107	60-130
187837-1	*Spiked blank (BSP)*	O-TERPHENYL	97.4	60-130
187838-1	*Spiked blank duplicate (BSD)*	O-TERPHENYL	105	60-130
187839-1	*Matrix spike (MS)*	O-TERPHENYL	86.6	60-130
187840-1	*Matrix spike duplicate (MSD)*	O-TERPHENYL	86.5	60-130

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CHROMALAB, INC.

Environmental Services (SDB)

June 2, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: **MW-5,4'**
Spl#: 187208 *Matrix:* SOIL
Sampled: May 20, 1998 *Run#:*12999 *Analyzed:* June 1, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	10	N.D.	91	1
MTBE	N.D.	0.62	N.D.	96	1
BENZENE	2.1	0.62	N.D.	100	1
TOLUENE	N.D.	0.62	N.D.	102	1
ETHYL BENZENE	N.D.	0.62	N.D.	111	1
XYLENES	1.2	0.62	N.D.	115	1

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile.If quantified using Gasoline's response factor, concentration would equal 150mg/Kg.Surrogate Recoveries biased high due to Hydrocarbon co-elution.

Vincent Vancil
Analyst

Michael Verona
Operations Manager

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CHROMALAB, INC.

Environmental Services (SDB)

June 2, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: **MW-6,4'**
Spl#: 187209 *Matrix:* SOIL
Sampled: May 20, 1998 *Run#:*13007 *Analyzed:* June 2, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.0	N.D.	92	1
MTBE	N.D.	0.0050	N.D.	103	1
BENZENE	N.D.	0.0050	N.D.	98	1
TOLUENE	N.D.	0.0050	N.D.	104	1
ETHYL BENZENE	N.D.	0.0050	N.D.	100	1
XYLENES	N.D.	0.0050	N.D.	105	1

Vincent Vancil
Analyst

Michael Verona
Operations Manager

**AS LEV2

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CHROMALAB, INC.

Environmental Services (SDB)

June 2, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: **MW-7,4'**
Spl#: 187210 *Matrix:* SOIL
Sampled: May 20, 1998 *Run#:*13029 *Analyzed:* June 2, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.0	N.D.	88	1
MTBE	N.D.	0.0050	N.D.	90	1
BENZENE	N.D.	0.0050	N.D.	90	1
TOLUENE	N.D.	0.0050	N.D.	91	1
ETHYL BENZENE	N.D.	0.0050	N.D.	89	1
XYLENES	N.D.	0.0050	N.D.	93	1

Vincent Vancil
Analyst

Michael Verona
Operations Manager

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CHROMALAB, INC.

Environmental Services (SDB)

June 2, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: **Blank spike and duplicate** report for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Matrix: SOIL
Lab Run#: 12999 *Analyzed:* May 31, 1998

Analyte	Spike Amount BSP (mg/Kg)	Spike Amount Dup (mg/Kg)	Found BSP (mg/Kg)	Found Dup (mg/Kg)	Spike Recov BSP (%)	Spike Recov Dup (%)	Control Limits	% RPD	% RPD Lim
GASOLINE	12.5	12.5	11.4	14.2	91.2	114	65-135	22.2	35
MTBE	2.50	2.50	2.41	2.45	96.4	98.0	75-125	1.65	35
BENZENE	2.50	2.50	2.49	2.45	99.6	98.0	77-123	1.62	35
TOLUENE	2.50	2.50	2.55	2.50	102	100	78-122	1.98	35
ETHYL BENZENE	2.50	2.50	2.78	2.73	111	109	70-130	1.82	35
XYLENES	7.50	7.50	8.60	8.35	115	111	75-125	3.54	35

BS Smpl #: 188190
BSD Smpl #: 188191

LEV2

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CHROMALAB, INC.

Environmental Services (SDB)

June 2, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: **Surrogate** report for 1 sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod
Lab Run#: 12999
Matrix: SOIL

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
187208-1	MW-5,4'	TRIFLUOROTOLUENE	65.8	65-135
187208-1	MW-5,4'	4-BROMOFLUOROBENZENE	206	65-135

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
188189-1	*Reagent blank (MDB)*	TRIFLUOROTOLUENE	105	65-135
188189-1	*Reagent blank (MDB)*	4-BROMOFLUOROBENZENE	142	65-135
188190-1	*Spiked blank (BSP)*	TRIFLUOROTOLUENE	105	65-135
188190-1	*Spiked blank (BSP)*	4-BROMOFLUOROBENZENE	147	65-135
188191-1	*Spiked blank duplicate (BSD)*	TRIFLUOROTOLUENE	96.0	65-135
188191-1	*Spiked blank duplicate (BSD)*	4-BROMOFLUOROBENZENE	147	65-135

V135
QCSURR1229 VINCE 02-Jun-98 16:2

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

June 2, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: **Blank spike and duplicate** report for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Matrix: SOIL
Lab Run#: 13007 *Analyzed:* June 1, 1998

Analyte	Spike Amount BSP (mg/Kg)	Spike Amount Dup (mg/Kg)	Found BSP (mg/Kg)	Found Dup (mg/Kg)	Recov BSP (%)	Recov Dup (%)	Control Limits	% RPD	% RPD Lim
GASOLINE	0.500	0.500	0.461	0.446	92.2	89.2	75-125	3.31	35
MTBE	0.100	0.100	0.103	0.0821	103	82.1	75-125	22.6	35
BENZENE	0.100	0.100	0.0975	0.0882	97.5	88.2	77-123	10.0	35
TOLUENE	0.100	0.100	0.104	0.0890	104	89.0	78-122	15.5	35
ETHYL BENZENE	0.100	0.100	0.100	0.0870	100	87.0	70-130	13.9	35
XYLENES	0.300	0.300	0.315	0.272	105	90.7	75-125	14.6	35

BS Smpl #: 188246
BSD Smpl #: 188247

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LEV2
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CHROMALAB, INC.

Environmental Services (SDB)

June 2, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: **Matrix spike** report for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Matrix: SOIL
Lab Run#: 13007 *Instrument:* 3400-2 *Analyzed:* June 2, 1998

Analyte	Spiked Sample Amount (mg/Kg)	Spike Amt MS (mg/Kg)	Spike Amt MSD (mg/Kg)	Amt Found MS (mg/Kg)	Amt Found MSD (mg/Kg)	Spike Recov MS (%)	Spike Recov MSD (%)	Control Limits	% RPD	% RPD Lim
GASOLINE	N.D.	0.472	0.488	0.285	0.300	60.4	61.5	65-135	1.80	35
MTBE	N.D.	0.0943	0.0976	0.0712	0.0747	75.5	76.5	65-135	1.32	35
BENZENE	N.D.	0.0943	0.0976	0.0728	0.0766	77.2	78.5	65-135	1.67	35
TOLUENE	N.D.	0.0943	0.0976	0.0727	0.0767	77.1	78.6	65-135	1.93	35
ETHYL BENZENE	N.D.	0.0943	0.0976	0.0693	0.0726	73.5	74.4	65-135	1.22	35
XYLENES	N.D.	0.283	0.293	0.216	0.227	76.3	77.5	65-135	1.56	35

Sample Spiked: 187149
Submission #: 9805338
Client Sample ID: 49B11-07

MS Smpl #: 188435
MSD Smpl #: 188436

CHROMALAB, INC.

Environmental Services (SDB)

June 2, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: **Surrogate** report for 2 samples for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod
Lab Run#: 13007
Matrix: SOIL

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
187209-1	MW-6,4'	TRIFLUOROTOLUENE	79.8	53-125
187209-1	MW-6,4'	4-BROMOFLUOROBENZENE	61.8	58-124
187210-1	MW-7,4'	TRIFLUOROTOLUENE	54.8	53-125
187210-1	MW-7,4'	4-BROMOFLUOROBENZENE	33.4	58-124

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
188245-1	*Reagent blank (MDB)*	TRIFLUOROTOLUENE	104	53-125
188245-1	*Reagent blank (MDB)*	4-BROMOFLUOROBENZENE	90.8	58-124
188246-1	*Spiked blank (BSP)*	TRIFLUOROTOLUENE	97.9	53-125
188246-1	*Spiked blank (BSP)*	4-BROMOFLUOROBENZENE	97.4	58-124
188247-1	*Spiked blank duplicate (BSD)*	TRIFLUOROTOLUENE	83.2	53-125
188247-1	*Spiked blank duplicate (BSD)*	4-BROMOFLUOROBENZENE	84.9	58-124
188435-1	*Matrix spike (MS)*	TRIFLUOROTOLUENE	75.7	53-125
188435-1	*Matrix spike (MS)*	4-BROMOFLUOROBENZENE	61.4	58-124
188436-1	*Matrix spike duplicate (MSD)*	TRIFLUOROTOLUENE	70.3	53-125
188436-1	*Matrix spike duplicate (MSD)*	4-BROMOFLUOROBENZENE	55.3	58-124

V132
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CHROMALAB, INC.

Environmental Services (SDB)

June 2, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: **Surrogate** report for 1 sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod
Lab Run#: 13029
Matrix: SOIL

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
187210-2	MW-7,4'	TRIFLUOROTOLUENE	69.7	53-125
187210-2	MW-7,4'	4-BROMOFLUOROBENZENE	44.3	58-124

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
188482-1	*Reagent blank (MDB)*	TRIFLUOROTOLUENE	90.1	53-125
188482-1	*Reagent blank (MDB)*	4-BROMOFLUOROBENZENE	94.8	58-124
188483-1	*Spiked blank (BSP)*	TRIFLUOROTOLUENE	81.4	53-125
188483-1	*Spiked blank (BSP)*	4-BROMOFLUOROBENZENE	95.5	58-124
188484-1	*Spiked blank duplicate (BSD)*	TRIFLUOROTOLUENE	70.9	53-125
188484-1	*Spiked blank duplicate (BSD)*	4-BROMOFLUOROBENZENE	78.4	58-124

V132
QCSURR1229 VINCE 02-Jun-98 16:2

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CHROMALAB, INC.
Environmental Services (SDB)

June 2, 1998 *Submission #:* 9805342

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB-OAKLAND *Project#:* 50090-009-04
Received: May 22, 1998

re: **Blank spike and duplicate** report for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Matrix: SOIL
Lab Run#: 13029 *Analyzed:* June 2, 1998

Analyte	Spike Amount BSP (mg/Kg)	Spike Amount Dup (mg/Kg)	Found BSP (mg/Kg)	Found Dup (mg/Kg)	Spike Recov BSP (%)	Spike Recov Dup (%)	Control Limits	% RPD	% RPD Lim
GASOLINE	0.500	0.500	0.438	0.410	87.6	82.0	75-125	6.60	35
MTBE	0.100	0.100	0.0901	0.0856	90.1	85.6	75-125	5.12	35
BENZENE	0.100	0.100	0.0900	0.0789	90.0	78.9	77-123	13.1	35
TOLUENE	0.100	0.100	0.0912	0.0807	91.2	80.7	78-122	12.2	35
ETHYL BENZENE	0.100	0.100	0.0886	0.0786	88.6	78.6	70-130	12.0	35
XYLENES	0.300	0.300	0.278	0.248	92.7	82.7	75-125	11.4	35

BS Smpl #: 188483
BSD Smpl #: 188484

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Advanced Technology Laboratories

June 1, 1998

ELAP No.: 1838

Chromalab, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756

ATTN: Mr. Chris Rowley

Client's Project: 9805342
Lab No.: 26298-001/003

Gentlemen:

Enclosed are the results for sample(s) received by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (562) 989 - 4045 if I can be of further assistance to your company.

Sincerely,

Edgar P. Caballero
Laboratory Director
EPC/lb

Enclosures

This cover letter is an integral part of this analytical report.

Client: Chromalab, Inc.
Attn: Mr. Chris Rowley

Client's Project: 9805342

Date Received: 05/27/98
Date Sampled: 05/20/98

6.2×10^{-3} or .62%

Lab No.	Sample I.D.	Analysis	Date Analyzed	Results	Matrix, Units	MDL	DLR	Analyst
26298-001	MW-7, 4'	EPA 9060 (TOC)	05/29/98	6220	Soil, mg/kg	30	60	IG
26298-002	MW-7, 10'	EPA 9060 (TOC)	05/29/98	7310	Soil, mg/kg	30	60	IG
26298-003	MW-7, 15'	EPA 9060 (TOC)	05/29/98	778	Soil, mg/kg	30	60	IG

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DF = Dilution Factor (DLR/MDL)

Reviewed/Approved By: Cheryl de los Reyes ✓ **Date:** 6/1/98

Cheryl De Los Reyes
Department Supervisor

The cover letter is an integral part of this analytical report.

Spike Recovery and RPD Summary Report

Method EPA 9060
Analyst IG
Data File: 8149-1S

Date 05/29/98
Sample ID: 26298-003
Matrix: SOIL
QC Batch:TOC 980529S-1

ANALYTE	UNITS	LCS Conc	LCS Res	% Rec	METH BLANK	SPL CONC	SPK ADDED	MS RESULT	MSD RESULT	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	MDL
TOC	mg/Kg	2000	1980	99	ND	778	2000	2930	3100	108	116	59-137	6	21	30

Approved by: Cheryl De Los Reyes
Cheryl De Los Reyes
Inorganics Supervisor

Date: 6/1/98

Advanced Technology Laboratories

ADV. TECH

CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

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510/484-1919 • Facsimile 510/484-1096

Chain of Custody

DATE 5-21-98 PAGE 1 OF 1

PROJ MGR
COMPANY
ADDRESS
SAMPLERS (SIGNATURE) (PHONE NO.) (FAX NO.)

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TOC	NUMBER OF CONTAINERS
MW-7, 4'	5-20-98		S		X	1
MW-7, 10'	↓		↓		↓	1
MW-7, 15'	↓		↓		↓	1

PROJECT INFORMATION

PROJECT NAME
PROJECT NUMBER 9805342
P.O. #

TAT: STANDARD 5-DAY | 24 | 48 | 72 | OTHER

SPECIAL INSTRUCTIONS/COMMENTS.

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	
HEAD SPACE	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

RELINQUISHED BY 1	RELINQUISHED BY 2	RELINQUISHED BY 3
(SIGNATURE) C Cassidy 16:35 (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
(PRINTED NAME) Colleen Cassidy (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
(COMPANY) Chromalab 5-26-98	(COMPANY)	(COMPANY)
RECEIVED BY 1	**RECEIVED BY 2**	**RECEIVED BY (LABORATORY) 3**
(SIGNATURE) (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) Diane Galvan 10:00 (TIME)
(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) Diane Galvan 5-27-98 (DATE)
(COMPANY)	(COMPANY)	(LAB) ATL

9805342/187208-16

CLIENT: SECOR-SF
DUE: 06/01/98
REF #:39986

Chain-of Custody Number: 39986

:cord

☐ Additional documents are attached, and are a part of this Record.

Field Office: San Francisco
Address: 90 New Montgomery St., Suite 620
San Francisco, CA 94105

Job Name: SFFB - Oakland
Location: 580 Julie Ann Way
Oakland, CA

Project # 50090-009-04 Task # ____
Project Manager Liping Zhang
Laboratory Chromalab
Turnaround Time Standard / *Hold*

Sampler's Name Charles Melanson
Sampler's Signature

Sample ID	Date	Time	Matrix
MW-5, 4'	5-20-98		Soil
MW-5, 10'			
MW-5, 15'			
MW-6, 4'			
MW-6, 10'			
MW-6, 15'			
MW-7, 4'			
MW-7, 10'			
MW-7, 15'			

Analysis Request

Sample ID	~~HOLD~~	TPH- motor oil	TPHg/BTEX/WTPH-G/MTBE 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Total Organic Carbon (415.1)	Polyaromatic Hydrocarbons	Comments/ Instructions	Number of Containers
MW-5, 4'			X	X	X									~~X~~	X		1
MW-5, 10'																*Hold	1
MW-5, 15'																*Hold	1
MW-6, 4'			X	X	X									~~X~~	X		1
MW-6, 10'																*Hold	1
MW-6, 15'																*Hold	1
MW-7, 4'			X	X	X									X	X		1
MW-7, 10'														X	~~X~~		1
MW-7, 15'														X	~~X~~		1

Special Instructions/Comments:
* Hold pending instructions

Relinquished by:
Sign
Print Charles Melanson
Company SECOR
Time 9:30 Date 5-21-98

Received by:
Sign
Print
Company Chromalab
Time 4:20 Date 5/21/98

Relinquished by:
Sign Afsaneh Salimpour
Print Afsaneh Salimpour
Company Chromalab
Time 7:00AM Date 5/22/98

Received by:
Sign Colleen Cassity
Print
Company Chromalab
Time 9:45 Date 5-22-98

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd. in good condition/cold:
Conforms to record:

Client:
Client Contact:
Client Phone:

SECOR CUSTREC Rev. 1/95

Date: 5/20/98 Page 1 of 1

CHROMALAB, INC.

Environmental Service (SDB)

Sample Receipt Checklist

Client Name: **SECOR SAN FRANCISCO** Date/Time Received: ~~05/22/98~~ 5/21/98 | 16:20

Reference/Submis: **39986** | **9805342** Received by: A.S.

Checklist completed by: C Cassidy 5-27-98 Reviewed by: CR 5/27/98
Signature | Date Initials | Date

Matrix: Soil Carrier name: Client - (C/L)

Shipping container/cooler in good condition?	Yes ✓	No ___	Not Present ___
Custody seals intact on shipping container/cooler?	Yes ___	No ___	Not Present ✓
Custody seals intact on sample bottles?	Yes ___	No ___	Not Present ✓
Chain of custody present?	Yes ✓	No ___	
Chain of custody signed when relinquished and received?	Yes ✓	No ___	
Chain of custody agrees with sample labels?	Yes ✓	No ___	
Samples in proper container/bottle?	Yes ✓	No ___	
Sample containers intact?	Yes ✓	No ___	
Sufficient sample volume for indicated test?	Yes ✓	No ___	
All samples received within holding time?	Yes ✓	No ___	
Container/Temp Blank temperature in compliance?	Temp: 3.5 °C Yes ___	No ✓	
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes ___	No ___
Water - ~~pH~~ acceptable upon receipt? ___	Adjusted? ___	Checked by ___ chemist for VOAs	

Any No and/or NA (not applicable) response must be detailed in the comments section below.

==========

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective Action: _____

CHROMALAB, INC.

Environmental Services (SDB)

June 25, 1998 Submission #: 9806139

SECOR CONCORD
1390 Willow Pass Road, Suite 360
Concord, CA 94520-5250

Attn: Liping Zhang

RE: Analysis for project SFFB, number 50090-009-04.

REPORTING INFORMATION

Samples were received cold and in good condition on June 5, 1998. They were refrigerated upon receipt and analyzed as described in the attached report. ChromaLab followed EPA or equivalent methods for all testing reported.

No discrepancies were observed or difficulties encountered with the testing.

Client Sample ID	Matrix	Date collected	Sample #
MW-1	WTR	June 4, 1998	189623
MW-2	WTR	June 4, 1998	189624
MW-3	WTR	June 4, 1998	189625
MW-4	WTR	June 4, 1998	189626
MW-5	WTR	June 4, 1998	189627
MW-6	WTR	June 4, 1998	189628
MW-7	WTR	June 4, 1998	189629

Afsaneh Salimpour
Project Manager

CHROMALAB, INC.

Environmental Services (SDB)

June 18, 1998 *Submission #:* 9806139

SECOR CONCORD

Atten: Liping Zhang

Project: SFFB *Project#:* 50090-009-04
Received: June 5, 1998

re: 7 samples for Total Dissolved Solids analysis.
Method: *EPA 160.1*

Matrix: WATER *Extracted:* June 9, 1998
Sampled: June 4, 1998 *Run#:* 13176 *Analyzed:* June 9, 1998

Spl#	CLIENT SPL ID	TOTAL DISSOLVED SOLI (mg/L)	REPORTING LIMIT (mg/L)	BLANK RESULT (mg/L)	BLANK SPIKE (%)	DILUTION FACTOR
189623	MW-1	580	10	N.D.	99.1	1
189624	MW-2	2900	10	N.D.	99.1	1
189625	MW-3	5100	10	N.D.	99.1	1
189626	MW-4	2000	10	N.D.	99.1	1
189627	MW-5	9900	10	N.D.	99.1	1
189628	MW-6	43000	10	N.D.	99.1	1
189629	MW-7	6100	10	N.D.	99.1	1

Aman Ullah
Analyst

Michael Verona
Operations Manager

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

June 18, 1998 *Submission #:* 9806139

SECOR CONCORD

Atten: Liping Zhang

Project: SFFB *Project#:* 50090-009-04
Received: June 5, 1998

re: **Blank spike and duplicate** report for Total Dissolved Solids analysis.

Method: EPA 160.1

Matrix: WATER
Lab Run#: 13176 *Analyzed:* June 9, 1998

Analyte	Spike Amount BSP (mg/L)	Spike Amount Dup	Found BSP (mg/L)	Found Dup	Recov BSP (%)	Recov Dup (%)	Control Limits	% RPD	% RPD Lim
TOTAL DISSOLVED SOLIDS	1000	1000	991	1040	99.1	104	80-120	4.82	20

BS Smpl #: 189944
BSD Smpl #: 189945

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CHROMALAB, INC.

Environmental Services (SDB)

June 18, 1998 *Submission #:* 9806139

SECOR CONCORD

Atten: Liping Zhang

Project: SFFB *Project#:* 50090-009-04
Received: June 5, 1998

re: 7 samples for TEPH analysis.
Method: *EPA 8015M*

Matrix: WATER *Extracted:* June 11, 1998
Sampled: June 4, 1998 *Run#:* 13225 *Analyzed:* June 11, 1998

Spl#	CLIENT SPL ID	Diesel (ug/L)	Motor Oil (ug/L)
189624	MW-2	4100	N.D.
	Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.		
189625	MW-3	860	N.D.
	Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.		
189626	MW-4	1400	710
	Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.		
	Hydrocarbon reported does not match the pattern of our Motor oil Standard.		
189627	MW-5	970	N.D.
	Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.		

Matrix: WATER *Extracted:* June 11, 1998
Sampled: June 4, 1998 *Run#:* 13225 *Analyzed:* June 12, 1998

Spl#	CLIENT SPL ID	Diesel (ug/L)	Motor Oil (ug/L)
189623	MW-1	1600	640
	Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.		
	Hydrocarbon reported does not match the pattern of our Motor oil Standard.		
189628	MW-6	120	N.D.
	Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.		
189629	MW-7	900	540
	Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.		
	Hydrocarbon reported does not match the pattern of our Motor oil Standard.		
Reporting Limits		50	500
Blank Result		N.D.	N.D.
Blank Spike Result (%)		106	--

Carolyn House
Analyst

Bruce Havlik FOR
Analyst

**AS AS 08/12

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

June 18, 1998 *Submission #:* 9806139

SECOR CONCORD

Atten: Liping Zhang

Project: SFFB *Project#:* 50090-009-04
Received: June 5, 1998

re: **Blank spike and duplicate** report for TEPH analysis.

Method: EPA 8015M

Matrix: WATER
Lab Run#: 13225 *Analyzed:* June 11, 1998

Analyte	Spike Amount BSP (ug/L)	Spike Amount Dup	Spike Found BSP (ug/L)	Spike Found Dup	Spike Recov BSP (%)	Spike Recov Dup (%)	Control Limits	% RPD	% RPD Lim
DIESEL	2500	2500	2650	2480	106	99.2	60-130	6.63	25

BS Smpl #: 190434
BSD Smpl #: 190435

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CHROMALAB, INC.

Environmental Services (SDB)

June 18, 1998 *Submission #:* 9806139

SECOR CONCORD

Atten: Liping Zhang

Project: SFFB *Project#:* 50090-009-04
Received: June 5, 1998

re: **Surrogate** report for 7 samples for TEPH analysis.

Method: EPA 8015M
Lab Run#: 13225
Matrix: WATER

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
189623-1	MW-1	O-TERPHENYL	112	60-130
189624-1	MW-2	O-TERPHENYL	118	60-130
189625-1	MW-3	O-TERPHENYL	106	60-130
189626-1	MW-4	O-TERPHENYL	106	60-130
189627-1	MW-5	O-TERPHENYL	111	60-130
189628-1	MW-6	O-TERPHENYL	104	60-130
189629-1	MW-7	O-TERPHENYL	114	60-130

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
190433-1	*Reagent blank (MDB)*	O-TERPHENYL	93.4	60-130
190434-1	*Spiked blank (BSP)*	O-TERPHENYL	128	60-130
190435-1	*Spiked blank duplicate (BSD)*	O-TERPHENYL	104	60-130

S010
QCSURR1229 AFSANEH 18-Jun-98 1

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

June 18, 1998 *Submission #:* 9806139

SECOR CONCORD

Atten: Liping Zhang

Project: SFFB *Project#:* 50090-009-04
Received: June 5, 1998

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: **MW-1**
Spl#: 189623 *Matrix:* WATER
Sampled: June 4, 1998 *Run#:*13238 *Analyzed:* June 11, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	1800	50	N.D.	98	1
MTBE	N.D.	5.0	N.D.	87	1
BENZENE	160	0.50	N.D.	92	1
TOLUENE	2.6	0.50	N.D.	92	1
ETHYL BENZENE	300	0.50	N.D.	95	1
XYLENES	1.6	0.50	N.D.	95	1

Vincent Vancil
Analyst

Michael Verona
Operations Manager

**A.S LEV2

AS V132 O:BTEXQC022C

AFSANEH 16.14

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CHROMALAB, INC.

Environmental Services (SDB)

June 18, 1998 *Submission #:* 9806139

SECOR CONCORD

Atten: Liping Zhang

Project: SFFB *Project#:* 50090-009-04
Received: June 5, 1998

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: **MW-2**
Spl#: 189624 *Matrix:* WATER
Sampled: June 4, 1998 *Run#:*13238 *Analyzed:* June 11, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	98	1
MTBE	N.D.	5.0	N.D.	87	1
BENZENE	10	0.50	N.D.	92	1
TOLUENE	0.72	0.50	N.D.	92	1
ETHYL BENZENE	2.3	0.50	N.D.	95	1
XYLENES	3.5	0.50	N.D.	95	1

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile.If quantified using Gasoline's response factor, concentration would equal 1700ug/L.

Vincent Vancil
Analyst

Michael Verona
Operations Manager

**AS LEV2
AS V132 O:BTEXQC0220
AFSANEH 16:14

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CHROMALAB, INC.

Environmental Services (SDB)

June 18, 1998 *Submission #:* 9806139

SECOR CONCORD

Atten: Liping Zhang

Project: SFFB *Project#:* 50090-009-04
Received: June 5, 1998

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: **MW-3**
Spl#: 189625 *Matrix:* WATER
Sampled: June 4, 1998 *Run#:*13238 *Analyzed:* June 11, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	98	1
MTBE	N.D.	5.0	N.D.	87	1
BENZENE	3.9	0.50	N.D.	92	1
TOLUENE	N.D.	0.50	N.D.	92	1
ETHYL BENZENE	N.D.	0.50	N.D.	95	1
XYLENES	N.D.	0.50	N.D.	95	1

Vincent Vancil
Analyst

Michael Verona
Operations Manager

**AC LEV2
AS V132 O:BTEXQC0220
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CHROMALAB, INC.

Environmental Services (SDB)

June 18, 1998 *Submission #:* 9806139

SECOR CONCORD

Atten: Liping Zhang

Project: SFFB *Project#:* 50090-009-04
Received: June 5, 1998

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: **MW-4**
Spl#: 189626 *Matrix:* WATER
Sampled: June 4, 1998 *Run#:*13238 *Analyzed:* June 11, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	98	1
MTBE	N.D.	5.0	N.D.	87	1
BENZENE	18	0.50	N.D.	92	1
TOLUENE	1.6	0.50	N.D.	92	1
ETHYL BENZENE	2.5	0.50	N.D.	95	1
XYLENES	1.9	0.50	N.D.	95	1

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile.If quantified using Gasoline's response factor, concentration would equal 650ug/L.

Vincent Vancil
Analyst

Michael Verona
Operations Manager

**AC LEV2
AS V132 O:BTEXQC0220
AFSANEH 15:14

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CHROMALAB, INC.

Environmental Services (SDB)

June 18, 1998 *Submission #:* 9806139

SECOR CONCORD

Atten: Liping Zhang

Project: SFFB *Project#:* 50090-009-04
Received: June 5, 1998

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: **MW-5**
Spl#: 189627 *Matrix:* WATER
Sampled: June 4, 1998 *Run#:*13238 *Analyzed:* June 11, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	98	1
MTBE	N.D.	5.0	N.D.	87	1
BENZENE	7.2	0.50	N.D.	92	1
TOLUENE	N.D.	0.50	N.D.	92	1
ETHYL BENZENE	N.D.	0.50	N.D.	95	1
XYLENES	N.D.	0.50	N.D.	95	1

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile.If quantified using Gasoline's response factor, concentration would equal 120ug/L.

Vincent Vancil
Analyst

Michael Verona
Operations Manager

**AS LEV2
AS V132 O:BTEXQC0220
AFSANEH 15.14

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CHROMALAB, INC.

Environmental Services (SDB)

June 18, 1998 *Submission #:* 9806139

SECOR CONCORD

Atten: Liping Zhang

Project: SFFB *Project#:* 50090-009-04
Received: June 5, 1998

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: **MW-6**
Spl#: 189628 *Matrix:* WATER
Sampled: June 4, 1998 *Run#:*13238 *Analyzed:* June 11, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	98	1
MTBE	N.D.	5.0	N.D.	87	1
BENZENE	N.D.	0.50	N.D.	92	1
TOLUENE	N.D.	0.50	N.D.	92	1
ETHYL BENZENE	N.D.	0.50	N.D.	95	1
XYLENES	N.D.	0.50	N.D.	95	1

Vincent Vancil
Analyst

Michael Verona
Operations Manager

**AG LEV2
AS V132 O:BTEXQC0220
AFSANEH 15.14

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CHROMALAB, INC.

Environmental Services (SDB)

June 18, 1998 *Submission #:* 9806139

SECOR CONCORD

Atten: Liping Zhang

Project: SFFB *Project#:* 50090-009-04
Received: June 5, 1998

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW-7
Spl#: 189629 *Matrix:* WATER
Sampled: June 4, 1998 *Run#:*13238 *Analyzed:* June 11, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	98	1
MTBE	N.D.	5.0	N.D.	87	1
BENZENE	N.D.	0.50	N.D.	92	1
TOLUENE	N.D.	0.50	N.D.	92	1
ETHYL BENZENE	N.D.	0.50	N.D.	95	1
XYLENES	N.D.	0.50	N.D.	95	1

Vincent Vancil
Analyst

Michael Verona
Operations Manager

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CHROMALAB, INC.

Environmental Services (SDB)

June 18, 1998 *Submission #:* 9806139

SECOR CONCORD

Atten: Liping Zhang

Project: SFFB *Project#:* 50090-009-04
Received: June 5, 1998

re: **Surrogate** report for 7 samples for Purgeable Volatile Aromatic Organic Compounds analysis.
Method: SW846 8020A Nov 1990 / 8015Mod
Lab Run#: 13238
Matrix: WATER

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
189623-1	MW-1	TRIFLUOROTOLUENE	102	58-124
189623-1	MW-1	4-BROMOFLUOROBENZENE	130	50-150
189624-1	MW-2	TRIFLUOROTOLUENE	85.7	58-124
189624-1	MW-2	4-BROMOFLUOROBENZENE	116	50-150
189625-1	MW-3	TRIFLUOROTOLUENE	80.0	58-124
189625-1	MW-3	4-BROMOFLUOROBENZENE	117	50-150
189626-1	MW-4	TRIFLUOROTOLUENE	95.0	58-124
189626-1	MW-4	4-BROMOFLUOROBENZENE	123	50-150
189627-1	MW-5	TRIFLUOROTOLUENE	85.2	58-124
189627-1	MW-5	4-BROMOFLUOROBENZENE	124	50-150
189628-1	MW-6	TRIFLUOROTOLUENE	86.9	58-124
189628-1	MW-6	4-BROMOFLUOROBENZENE	139	50-150
189629-1	MW-7	TRIFLUOROTOLUENE	86.3	58-124
189629-1	MW-7	4-BROMOFLUOROBENZENE	127	50-150

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
190519-1	*Reagent blank (MDB)*	TRIFLUOROTOLUENE	89.7	58-124
190519-1	*Reagent blank (MDB)*	4-BROMOFLUOROBENZENE	135	50-150
190520-1	*Spiked blank (BSP)*	TRIFLUOROTOLUENE	83.8	58-124
190520-1	*Spiked blank (BSP)*	4-BROMOFLUOROBENZENE	127	50-150
190521-1	*Spiked blank duplicate (BSD)*	TRIFLUOROTOLUENE	88.8	58-124
190521-1	*Spiked blank duplicate (BSD)*	4-BROMOFLUOROBENZENE	139	50-150
190522-1	*Matrix spike (MS)*	TRIFLUOROTOLUENE	96.0	58-124
190523-1	*Matrix spike duplicate (MSD)*	TRIFLUOROTOLUENE	86.1	58-124

V132
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CHROMALAB, INC.

Environmental Services (SDB)

June 18, 1998 *Submission #:* 9806139

SECOR CONCORD

Atten: Liping Zhang

Project: SFFB *Project#:* 50090-009-04
Received: June 5, 1998

re: **Blank spike and duplicate** report for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Matrix: WATER
Lab Run#: 13238 *Analyzed:* June 10, 1998

Analyte	Spike Amount BSP (ug/L)	Spike Amount Dup	Spike Found BSP (ug/L)	Spike Found Dup	Spike Recov BSP (%)	Spike Recov Dup (%)	Control Limits	% RPD	% RPD Lim
GASOLINE	500	500	489	460	97.8	92.0	75-125	6.11	20
MTBE	100	100	86.8	93.6	86.8	93.6	75-125	7.54	20
BENZENE	100	100	92.3	96.6	92.3	96.6	77-123	4.55	20
TOLUENE	100	100	91.9	98.2	91.9	98.2	78-122	6.63	20
ETHYL BENZENE	100	100	94.8	100	94.8	100	70-130	5.34	20
XYLENES	300	300	285	307	95.0	102	75-125	7.11	20

BS Smpl #: 190520
BSD Smpl #: 190521

LEV2
OC_BSD1226 AFSANEH 15:15 31

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CHROMALAB, INC.

Environmental Services (SDB)

June 18, 1998 *Submission #:* 9806139

SECOR CONCORD

Atten: Lipias Zhang

Project: SFFB *Project#:* 50090-009-04
Received: June 5, 1998

re: **Matrix spike** report for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Matrix: WATER
Lab Run#: 13238 *Instrument:* 3400-3 *Analyzed:* June 11, 1998

Analyte	Spiked Sample Amount (ug/L)	Spike Amt MS (ug/L)	Spike Amt MSD (ug/L)	Amt Found MS (ug/L)	Amt Found MSD (ug/L)	Spike Recov MS (%)	Spike Recov MSD (%)	Control Limits	% RPD	% RPD Lim
MTBE	N.D.	100	100	118	104	79.0	65.0	65-135	19.4	20
BENZENE	160	100	100	236	218	76.0	58.0	65-135	26.9	20
TOLUENE	2.6	100	100	96.0	86.7	93.4	84.1	65-135	10.5	20
XYLENES	1.6	300	300	299	277	99.1	91.8	65-135	7.65	20

Sample Spiked: 189623
Submission #: 9806139
Client Sample ID: MW-1

MS Smpl #: 190522
MSD Smpl #: 190523

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06137/189623-189629

Chain-of Custody Number: 40237

SECOR Chain-of Custody Record

Additional documents are attached, and are a part of this Record.

Field Office: San Francisco
Address: 90 New Montgomery St. Suite 620
San Francisco, CA 94105

Job Name: SFFB
Location: 580 Julie Ann Way
Oakland, CA

Project # 50090-009-04 Task #
Project Manager Liping Zhang
Laboratory Chromalab
Turnaround Time Standard

Sampler's Name Charles McLaughlin
Sampler's Signature

Analysis Request

Sample ID	Date	Time	Matrix	TPH-motor oil (HOID)	TPHg/BTEX/WTPH-G/MTBE 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Total Dissolved Solids	Comments/ Instructions	Number of
MW-1	6-4-98	13:30	water	X	X	X										X		6
MW-2		12:00																6
MW-3		13:40																6
MW-4		13:20																6
MW-5		14:00																6
MW-6		14:30																6
MW-7		13:00																6

SUBM #: 9806139 REP: ASLFVP
CLIENT: SECOR-CD
DUE: 06/12/98
REF #:40237

Special Instructions/Comments:

Relinquished by:
Sign
Print Charles McLaughlin
Company SECOR
Time 9:00 Date 6-5-98

Received by:
Sign ERIC TAM
Print
Company
Time Date

Relinquished by:
Sign ERIC TAM
Print
Company
Time 18:15 Date 6/4/98

Received by: Colleen Cassidy
Sign Colleen Cassidy
Print Colleen Cassidy
Company
Time 19:50 Date 6-5-98

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd. in good condition/cold:
Conforms to record:

Client:
Client Contact:
Client Phone:

SECOR CUSTREC Rev 1/95

Date: 6/4/98 Page 1 of 1

CHROMALAB, INC.

Environmental Service (SDB)

Sample Receipt Checklist

Client Name: **SECOR CONCORD** Date/Time Received: 06/05/98 | 1818

Reference/Submis: 40237 | 9806139 Received by: ET

Checklist completed by: C Passerby 6-9-98 Reviewed by: CL 6/8/98

Signature | Date | Initials | Date

Matrix: H2O Carrier name: Client - (C/L)

Shipping container/cooler in good condition?	Yes ✓	No	Not Present
Custody seals intact on shipping container/cooler?	Yes	No	Not Present ✓
Custody seals intact on sample bottles?	Yes	No	Not Present ✓
Chain of custody present?	Yes ✓	No	
Chain of custody signed when relinquished and received?	Yes ✓	No	
Chain of custody agrees with sample labels?	Yes ✓	No	
Samples in proper container/bottle?	Yes ✓	No	
Sample containers intact?	Yes ✓	No	
Sufficient sample volume for indicated test?	Yes ✓	No	
All samples received within holding time?	Yes ✓	No	
Container/Temp Blank temperature in compliance?	Temp: 5.9 °C Yes ✓	No	
Water - VOA vials have zero headspace?	No VOA vials submitted	Yes ✓	No
Water - pH acceptable upon receipt? YES	Adjusted?	Checked by CC (Chemist for VOAs)	

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective Action: _____