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September 26, 1989 L & W Project No. 9077.003

Mr. Robert P. Gates
Erskine & Tulley
580 Market Street
San Francisco, California 94104

Subject: Environmental Site Assessment - Phase II Subsurface Evaluation - Mike Roberts Color Productions property, 6707 Bay Street, Emeryville, California.

Dear Mr. Gates:

Pursuant to your request, we have completed our second phase of the Environmental Site Assessment - Subsurface Evaluation - for the subject site located at 6707 Bay Street in Emeryville, California. Our primary purpose was to investigate historical and background information pertaining to the site and evaluate existing or potential conditions and activities in the vicinity of the site that may result in the presence of hazardous materials in the soil or ground water. Based on our initial findings, a subsurface investigation was recommended to evaluate observed contamination beneath the subject site.

INTRODUCTION

- Scope

Our scope of services for the Phase II, Subsurface Investigation consisted of performing the following tasks:

* Complete sampling of suspect areas observed during a walk-through of the site conducted with Mike Roberts Color Production personnel and others on August 17, 1989.

* Complete preliminary subsurface evaluation consisting of three additional soil borings into ground water and instal three, two inch diameter, ground water monitoring wells.

* Collect representative soil and ground water samples. Soil samples to be described in accordance with the Unified Soil Classification System (USCS).

* Analyze representative suspect material. Soil, sludge, fluid, and ground water samples to be evaluate for the presence of contaminants. Laboratory analysis to include the following:

  - CAM metals (Title 22, reference SW 846, third edition, EPA method 6010)
  - Pesticides, polychlorinated biphenyls (PCB's) (EPA method 8080)
  - Total Petroleum Hydrocarbons (TPH) (EPA method 8015)
  - Purgeable aromatic hydrocarbons benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) (EPA methods 8020 or 602)
  - Halogenated Volatile Organic solvents (HVO) (EPA method 8010).
  - Predisposal analysis consisting of pH (EPA method 9045), Cyanide (EPA method 9010), Sulfide (EPA method 9030), Halogenated Compounds, PCB's, and TPH
  - Purgeable Organics (EPA method 8240)
  - Acid and Base Neutral Extractables (EPA method 8270)

* Prepare a report presenting the findings from the above, and our opinion regarding the presence of contamination by hazardous substances currently on the site.

- Summary of Site Observations

The following is a summary of the observations and tasks discussed in Supplemental Environmental Site Assessment Report, dated August 25, 1989 (L & W Environmental Services, Inc. Report No. 9077.002). The purpose of the Supplemental Report was to present completed analytical data collected during previous soil investigations and discuss incongruities reported by others. Based on findings derived from the report and in accordance with representatives of Mike Roberts Color Productions (MRCP), additional investigation and analysis of suspect areas was performed.

1) On August 17, 1989, Mr. Tom Gram, Mr. Robert Gates, members of L & W Environmental Services, Inc. and Mike Roberts Color Productions met to discuss findings

concerning the subject site. A tour of the site was conducted to provide recommendations for further site evaluation based on the findings of the walk-through.

2) Results of site observations indicated two wells, located in the Printing and Warehouse Facility (Figure 1), were shallow compressor sumps used to collect discharged condensate from air lines. One sump was connected to the municipal sewer system. The contents of the second sump were, presumably, dissipated through evaporation.

3) On August 14, 1989, three subsurface chemical storage tanks were discovered near the Bay Street side of the property (Figure 1). The tanks were 2,000 gallon, 1,650 gallon, and 3,200 gallon containers located approximately three feet below the ground surface. Product delivery lines were found sealed and capped when traced into the Printing and Warehouse Facility. Some product remained inside the tanks. Subjective evidence indicated contamination of near surface soil was present in the vicinity of the tank cavity.

4) Four drains, located in the warehouse second floor mezzanine, channeled discarded chemical wastes into a sump at the rear of the building. The sump contained a submersible pump connected to the sanitary sewer system.

5) On August 18, 1989, residue from the four drains, located in the warehouse mezzanine, was sampled for laboratory analysis. According to MRCP personnel, the drains were used for the disposal of photographic developing solutions.

6) The sump, located at the rear of the facility, outside of the building, was excavated on August 21, 1989. No subjective evidence of contamination was observed during the excavation. Samples of near surface soil (one foot below grade) and sump fluids were collected for laboratory analysis.

7) An area along the rear property line (west side) of the site (Figure 1) was also excavated on August 21, 1989. Soil from the excavation was sampled for laboratory analysis and stockpiled for later removal to an approved disposal facility.

FIELD PROCEDURES

- Subsurface Evaluation

On April 26, July 7, August 28, and August 31, 1989, representatives of L & W Environmental Services coordinated the drilling of eight soil borings (IS-1, IS-2, and B1 through B6). L & W personnel also assisted in the installation of four ground water monitoring wells (MW1, MW3, MW5 and MW6) in borings B1, B3, B5, and B6 at the site. Locations of the soil borings and monitoring wells are described below and are shown on the enclosed Site Plan (Figure 1). Boring locations were chosen to evaluate potential sources of observed subsurface contamination at the site and were based on data derived from previous investigation activities.

- Soil Borings

Borings IS-1, IS-2, B3, and B4, were drilled with an 8-inch-diameter, continuous flight, hollow-stem auger using a CME-45 drill rig operated by K & L Drilling Company, Inc. of Alameda, California. Borings B2, B5, and B6, were drilled with an 8-inch-diameter, continuous flight, hollow-stem auger using a CME-55 drill rig operated by West Hazmat Drilling Corp. of Rancho Cordova, California. Boring B1 was drilled with a 12-inch-diameter, continuous flight, hollow-stem auger using a CME-55 drill rig also operated by West Hazmat Drilling Corp. Augers were steam-cleaned prior to drilling each boring to minimize the possibility of cross-contamination.

Boring B1 is located approximately 40 feet west of the northwest corner of the tank cavity, in the inferred down-gradient direction of ground water flow. Boring B2 is located about 20 feet west of the office complex. Boring B3 was located about 7 feet east of the warehouse and 20 feet south of the tank cavity in the inferred cross-gradient ground water flow direction. Boring B4 is located about 130 feet west of the the office complex and 110 feet west of Boring B2, along the northern perimeter of the property line. Boring B4 was abandoned at 16 feet below grade after an auger twisted off during drilling and was left in the hole. Boring B5 is located approximately 10 feet south of the shallow excavation in the rear of the property, approximately 25 feet west of Borings IS-1 and IS-2. Boring B6 is located about 10 feet southwest of Boring B4.

Borings B1, B3, B5, and B6 were drilled to depths sufficient to install ground-water monitoring wells to depths of approximately

31.5, 26.0, 26.5, and 26.5 feet below grade, respectively. Drill cuttings with detectable hydrocarbon concentrations were isolated from drill cuttings with nondetectable hydrocarbon concentrations at the site. The cuttings are labeled and stored at the site in 55 gallon drums (DOT 17E).

- Soil Sampling

Soil samples were collected from the borings at 5-foot intervals from the ground surface to the total depth of the boring and described using the Unified Soil Classification System. Sample descriptions are shown on the Logs of Borings (Plates 1a through 6b).

Soil samples were removed from the sampler and subjectively evaluated for hydrocarbon contamination, based on soil discoloration and organic vapor analyzer (OVA) measurements. Field instruments, such as the OVA, are used to evaluate relative concentrations of vapor but cannot be used to give absolute levels of hydrocarbon contamination. OVA screening was not available during the drilling of IS-1 and IS-2.

Soil samples collected from the borings B1 through B6 had the following OVA measurements:

Boring B1		Boring B2		Boring B3	
Depth (feet)	OVA (ppm)	Depth (feet)	OVA (ppm)	Depth (feet)	OVA (ppm)
5.5	340	6.0	0	5.0	50
10.5	370	10.0	40	12.0	150
16.0	640	16.0	540	15.0	260
20.5	520	20.5	320	20.0	30
25.5	350			25.0	20
30.5	N A				
Total Depth = 31.5 feet		Total Depth = 21.5 feet		Total Depth =26.0 feet	

Boring B4		Boring B5		Boring B6	
Depth (feet)	OVA (ppm)	Depth (feet)	OVA (ppm)	Depth (feet)	OVA (ppm)
4.5	140	6.0	190	5.0	50
10.0	320	11.0	300	12.0	150
14.5	480	15.5	350	15.0	260
		22.5	410	20.0	30
		25.5	430	25.0	20
Total Depth = 16.0 feet		Total Depth = 26.5 feet		Total Depth =26.5 feet	

Undisturbed samples were collected from the borings by advancing the boring to a point immediately above the sampling depth and then driving a 2.5 inch diameter, California-modified, split-spoon sampler into the soil through the hollow center of the auger.

The sampler, containing 2.0 inch diameter brass sleeves, was driven 18 inches with a standard 140-pound hammer, repeatedly dropped 30 inches. The number of blows to drive the sampler each successive 6 inches was recorded to evaluate relative consistency of the soil. The driven samples were immediately sealed in their brass sleeves with aluminum foil, plastic caps and airtight tape. They were then labeled and placed in ice storage for transportation. A Chain of Custody Record was initiated by L & W Environmental Services personnel in the field and accompanied the samples to a State-certified laboratory for analytical testing. The Chain of Custody Record for boring samples tested is included in the Appendix to this report.

- Monitoring Well Construction

Four ground water monitoring wells MW1, MW3, MW5 and MW6 were installed in borings B1, B3, B5, and B6 at the site. Monitoring well MW1 was constructed with schedule 40, 4-inch-diameter, polyvinyl chloride (PVC) casing. The bottom 5 feet in MW1 (25 to 30 feet) is blank, followed by 20 feet of machine-perforated PVC with 0.020-inch-wide slots. The remaining 5 feet of casing in MW1, from the top of the screened portion to the ground surface, is also blank.

Wells MW3, MW5 and MW6 were constructed with schedule 40, 2-inch-diameter, polyvinyl chloride (PVC) casing. The lower 20 feet of

the wells consist of machine-perforated PVC with 0.020-inch-wide slots. The remaining 5 feet of casing, from the top of the screened portion to the ground surface, is blank.

All casing joints are flush-threaded. Glues, chemical cements, or solvents were not used to join the casing sections. The top of the casing is covered with a slip cap, and the bottom has a threaded end plug.

The annular space of each well was backfilled with No. 3 grade sand from the total depth of each well to approximately 2 to 3 feet above the screened casing. A bentonite plug, approximately 1-foot-thick, was placed above the sand as a seal against cement entering the sand pack, and the remaining annulus was backfilled with neat cement to grade. Graphic representations of well constructions are shown in the right columns of the Log of Boring plates.

The wells are protected with cast-iron and steel wellhead covers installed approximately 1 inch above the surrounding grade and set in place with concrete. Each wellhead cover has a locking, watertight, expanding seal to protect the well against surface water infiltration and reduces the possibility of vandalism or accidental disturbance of the well.

- Water Sampling

Water samples were collected from the four monitoring wells for subjective analysis. Samples were collected by lowering a Teflon bailer approximately half its length through the air-water interface. The samples were examined and no floating product, sheen, or emulsion was observed.

The monitoring wells were developed by air-and water-jetting and purged of approximately four well volumes of water before water samples were collected for laboratory analysis. Following the purge period, and after well recovery to static water level, water samples were collected using a laboratory-cleaned Teflon bailer. The bailer was lowered approximately 5 feet into the water to retrieve a sample. The water samples were stored in laboratory-cleaned, 40-milliliter glass vials. Each vial was rinsed with fluid from the bailer, emptied, then slowly filled again with fluid. Each sample was then immediately sealed with a Teflon-lined cap, labeled, and placed on ice for transport to a state-certified laboratory. Chain-of-custody protocol, as described earlier, was followed throughout the field and laboratory procedures. Samples were taken to Precision Analytical Laboratory of Richmond,

California, for testing. Precision Analytical is certified by the state of California for the analysis requested. The Chain of Custody Record for the water samples is included in the Appendix of this report.

EVALUATION OF GROUND WATER FLOW DIRECTION

On September 7, 1989, L & W Environmental Services personnel evaluated the ground water gradient in the wells at the site. A Wild Herburgg NAK-1 automatic leveling instrument was used to measure the differences in elevation between the top of the well casings and the instrument level from an initial position. Measurements were recorded to the nearest 0.01 foot. The surveying instrument was moved to a second position, approximately 230.0 feet south 70 degrees west of the first position, and the measurements were repeated to confirm the readings from the first position. This survey data enables the ground water monitoring wells to be more precisely located than conventional tape and compass methods and also provides a means of establishing a datum.

Depths to static ground water levels below the well casings were measured to the nearest 0.01 foot with a Solinst electric water-level indicator. The casing elevations and depths to ground water were combined to calculate ground water elevations below datum (Table 1). The datum is an arbitrary elevation corresponding to the top of the highest casing (well No. MW3). These calculations were used to evaluate the direction of ground water flow and gradient across the site as shown on the Site Plan (Figure 2). At the time measurements were made the local ground water flow direction, calculated by L & W Environmental Systems, appears to be in a northwesterly direction (north 60 west) with an approximate gradient of 0.875 vertical feet per 100 horizontal feet. These calculations were used to evaluate the direction of ground water flow across the site. The corrected depth to ground water in Monitoring Well MW5 was approximately 2.45 feet lower than Monitoring Well MW3 and 0.15 feet lower than Monitoring Well MW6.

TABLE 1

GROUND WATER ELEVATIONS IN MONITORING WELLS

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

MONITORING WELL NUMBER	TOP OF CASING (FEET BELOW DATUM)	STATIC WATER LEVEL*	WATER LEVEL (FEET BELOW DATUM)
MW1	0.00	11.60	11.60
MW3	0.52	9.83	10.35
MW5	2.53	10.27	12.80
MW6	2.15	10.50	12.65

* Measured in feet below top of casing
Datum is the top of highest casing (well MW-1)

ANALYTICAL RESULTS

- Soil Samples

Soil samples collected during our subsurface and surface investigations were analyzed for the following:

CAM Metals (Title 22, reference SW 846, third edition, EPA methods 6010 & 3050)

Polychlorinated biphenyls (PCB's) (EPA method 8080)

Total petroleum hydrocarbons (TPH) (EPA method 8015)

Purgeable aromatic hydrocarbons benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) (EPA method 8020)

Oil and grease (Standard method 503D)

Purgeable organics compounds (EPA method 8240)

Acid and Base Neutral Extractables (EPA method 8270)

Halogenated Volatile Organics (HVO) (EPA method 8010)

Predisposal analysis consisting of pH (EPA method 9045), Cyanide (EPA method 9010), Sulfide (EPA method 9030), Halogenated Compounds, PCB's, and TPH

These analyses were performed at Precision Analytical Laboratory in Richmond, California and Clayton Environmental Consultants, inc. in Pleasanton, California.

- Soil Borings IS-1 and IS-2

Soil samples collected from soil borings IS-1 and IS-2 were analyzed for TPH, BTEX, oil and grease, PCB's, CAM Metals, and halogenated volatile organics. Analytical results indicated detectable concentrations of TPH as diesel, TPH as gasoline, PCB's and oil and grease were present (Table 2). Detectable concentrations of BTEX were also present (Table 3).

Detectable concentrations of the following halogenated volatile organics [Method Detection Limit (MDL) = 0.03 mg/kg to 0.15 mg/kg] were present in soil sample Number IS1-10.5 only:

Solvent (HVO)	Concentration	MDL
1,2-dichloroethane	0.50	0.06
Tri-Chloroethene	0.30	0.06
Chlorobenzene	0.11	0.06

Analytical results for CAM Metals in soil samples from borings IS-1 and IS-2 indicate detectable concentrations are present at the subject site (Table 4).

TABLE 2

RESULTS OF HYDROCARBON AND PCB ANALYSIS
SUBSURFACE SOIL SAMPLES

SOIL BORINGS IS-1 AND IS-2

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

SAMPLE NO.	Diesel	Gasoline	Oil & Grease	PCB's
IS1-03.5	46	N D<10	1,915	0.4
IS1-07.0	200	N D<10	3,390	0.7
IS1-10.5	N D<10	300	2,185	N D<0.5
IS2-03.0	50	N D<10	1,305	0.2
IS2-08.5	N D<10	N D<10	36,535	N D<0.5

Results: N D = Not Detected
Detection Limit for Diesel = 10 mg/kg
Detection Limit for Gasoline = 10 mg/kg
Detection Limit for Oil & Grease = 50 mg/kg
Detection Limit for PCB's = 0.5 mg/kg

IS1-03.5
- IS1-03.5 — boring number
- IS1-03.5 — depth in feet below grade

TABLE 3

**RESULTS OF BTEX HYDROCARBON ANALYSIS
OF
SUBSURFACE SOIL SAMPLES**

SOIL BORINGS IS-1 AND IS-2

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

SAMPLE NO.	B	T	E	X
IS1-03.5	N D<0.03	0.06	N D<0.03	0.04
IS1-07.0	N D<0.03	0.20	N D<0.03	0.07
*IS1-10.5	0.24	1.30	1.8	11.00
IS2-03.0	N D<0.03	0.25	N D<0.03	0.10
IS2-08.5	0.14	0.10	1.4	4.5

B = Benzene T = Toluene E = Ethylbenzene
X = Xylene isomers

Results: N D = Not Detected

Detection Limits = 0.03 mg/kg
* Detection Limits = 0.06 mg/kg

IS1-03.5
- depth in feet below grade
- boring number

TABLE 4

RESULTS OF METAL ANALYSIS OF SUBSURFACE SOIL SAMPLES

SOIL BORINGS IS-1 AND IS-2

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

METAL	SAMPLE NUMBERS					MDL
	IS1-3.5	IS1-7.0	IS1-10.5	IS2-3.0	IS2-8.5	
Tl	N D	N D	N D	N D	N D	2.2
As	N D	N D	N D	N D	N D	2.2
Hg	N D	N D	N D	N D	N D	5.0
Se	N D	N D	N D	N D	N D	5.0
Mo	1.2	N D	3.7	1.2	N D	1.0
Sb	6.5	1.4	1.6	N D	N D	1.0
Zn	200	48.9	5400	270	22.9	0.15
Cd	4.1	4.2	10.2	3.2	1.5	0.3
Pb	100	130	4300	90	5.3	1.1
Co	5.6	6.4	11.4	6.0	2.8	0.5
Ni	32.1	31.5	42.6	30.9	15.5	0.65
Cr	20.1	21.5	63.8	18.5	6.6	0.15
V	15.4	17.3	17.3	15.6	6.7	0.1
Be	0.05	N D	N D	0.025	N D	0.025
Cu	70	104	1042	56.7	13.8	0.1
Ag	15.2	N D	N D	N D	N D	0.1
Ba	110	130	255	90	35.7	0.1

Results: N D = Not Detected
MDL = Method detection limit: Compounds below this level would not be detected. Values are in mg/kg.

IS1-3.5
- IS1 — boring number
- 3.5 — depth in feet below grade

- Soil Borings B1 and B2

Soil samples collected from soil borings B1 and B2 were analyzed for the following:

TPH	Oil and grease
PCB's	CAM Metals
Halogenated volatile organics	

Analytical results indicated nondetectable concentrations of PCB's and detectable concentrations of TPH as diesel, TPH as gasoline, and oil and grease were also present in some of the samples (Table 5).

Analytical results for CAM Metals in soil samples from borings B1 and B2 indicate detectable concentrations are present at the subject site (Table 6).

There were no detectable concentrations of halogenated volatile organics [Method Detection Limit (MDL) = 0.03 mg/kg] present in soil samples collected from borings B1 and B2.

- Soil Borings B3 and B4

Soil samples collected from soil borings B3 and B4 were analyzed for the following:

TPH as diesel	TPH as gasoline
oil and grease	pH
Sulfide	Cyanide

Analytical results indicated detectable concentrations of TPH as diesel, TPH as gasoline, and oil and grease were present in the samples (Table 7).

TABLE 5

RESULTS OF HYDROCARBON AND PCB ANALYSIS
SUBSURFACE SOIL SAMPLES

SOIL BORINGS B1 AND B2

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

SAMPLE NO.	Diesel	Gasoline	Oil & Grease	PCB's
S-B1- 5.5	12	N D<10	845	N D<0.5
S-B1-10.5	N D<10	N D<10	N D<50	N D<0.5
S-B1-16	63	N D<10	1,600	N D<0.5
S-B1-20.5	N D<10	N D<10	80	N D<0.5
S-B1-25.5	N D<10	N D<10	95	N D<0.5
S-B1-30.5	N D<10	N D<10	N D<50	N D<0.5
S-B2- 6.0	19	N D<10	1,160	N D<0.5
S-B2-10	172	20	14,900	N D<0.5
S-B2-16	N D<10	N D<10	N D<50	N D<0.5
S-B2-20.5	N D<10	N D<10	N D<50	N D<0.5

Results: N D = Not Detected
Detection Limit for Diesel = 10 mg/kg
Detection Limit for Gasoline = 10 mg/kg
Detection Limit for Oil & Grease = 50 mg/kg
Detection Limit for PCB's = 0.5 mg/kg

S-B1-5.5
- 5.5 — depth in feet below grade
- B1 — boring number
- S — soil sample

TABLE 6

RESULTS OF METAL ANALYSIS OF SUBSURFACE SOIL SAMPLES

SOIL BORINGS B1 AND B2

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

METAL	SAMPLE NUMBERS					MDL
	S-B1-5.5	S-B1-10.5	S-B1-16	S-B1-20.5	S-B1-25.5	
Tl	N D	N D	N D	N D	N D	2.2
As	N D	N D	N D	N D	N D	2.2
Hg	N D	N D	N D	N D	N D	5.0
Se	N D	N D	N D	N D	N D	5.0
Mo	N D	N D	N D	N D	N D	1.0
Sb	N D	N D	N D	N D	N D	1.0
Zn	94	5.4	6,040	106	27	0.15
Cd	1.4	0.6	12	2.4	2.0	0.3
Pb	61	3	160	77	8.0	1.1
Co	5.7	2.6	12.4	4.5	8.0	0.5
Ni	14	12.7	30	19	24	0.65
Cr	13	12.5	42	15	10	0.15
V	15	7	32	12	12	0.1
Be	N D	N D	N D	N D	N D	0.025
Cu	28	4	153	23	13	0.1
Ag	N D	N D	N D	N D	N D	0.1
Ba	92	21	78	61	67	0.1

Results: N D = Not Detected
MDL = Method detection limit: Compounds below this level would not be detected. Values are in mg/kg.

S-B1-5.5
- S-B1-5.5 — depth in feet below grade
- S-B1-5.5 — boring number
- S-B1-5.5 — soil sample

TABLE 6
(continued)

RESULTS OF METAL ANALYSIS OF SUBSURFACE SOIL SAMPLES

SOIL BORINGS B1 AND B2

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

METAL	SAMPLE NUMBERS					MDL
	S-B1-30.5	S-B2-6.0	S-B2-10.0	S-B2-16.0	S-B2-20.5	
Tl	N D	N D	N D	N D	N D	2.2
As	N D	N D	N D	N D	N D	2.2
Hg	N D	N D	N D	N D	N D	5.0
Se	N D	N D	N D	N D	N D	5.0
Mo	N D	N D	N D	N D	N D	1.0
Sb	N D	1.2	N D	N D	N D	1.0
Zn	15	67	532	23	11	0.15
Cd	1.2	1.6	N D	2.4	1.4	0.3
Pb	4.5	167	1,360	11	8.7	1.1
Co	3.6	5	2.7	12	1.9	0.5
Ni	22	18.5	12.5	79	16.6	0.65
Cr	9.9	11.8	12.7	43	7.8	0.15
V	6.7	9.7	13	10	17	0.1
Be	N D	N D	N D	N D	N D	0.025
Cu	7.4	92	22.5	10	9.0	0.1
Ag	N D	N D	N D	N D	N D	0.1
Ba	23	109	41	95	35	0.1

Results: N D = Not Detected
MDL = Method detection limit: Compounds below this level would not be detected. Values are in mg/kg.

S-B1-30.5
- S- = soil sample
- B1- = boring number
- 30.5 = depth in feet below grade

TABLE 7

RESULTS OF HYDROCARBON ANALYSIS
SUBSURFACE SOIL SAMPLES

SOIL BORINGS B3 AND B4

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

SAMPLE NO.	Diesel	Gasoline	Oil & Grease
S-B3- 5.0	30	N D<10	1,845
S-B3-12.0	20	N D<10	95
S-B3-15.0	260	120	625
S-B3-20.0	N D<10	N D<10	N D<10
S-B3-25.0	N D<10	N D<10	20
S-B4-04.5	N D<10	N D<10	6,685
S-B4-10.0	170	N D<10	25,470
S-B4-14.5	N D<10	N D<10	N D<10

Results: N D = Not Detected
Detection Limit for Diesel = 10 mg/kg
Detection Limit for Gasoline = 10 mg/kg
Detection Limit for Oil & Grease = 10 mg/kg

S-B3-5.0
- S-B3-5.0 — depth in feet below grade
- S-B3-5.0 — boring number
- S-B3-5.0 — soil sample

Sulfide and pH analysis of the soil samples indicated the following results:

Sample No.	pH	Sulfide
S-B3-05.0	8.1	negative
S-B3-12.0	8.8	negative
S-B3-15.0	9.3	2,320 mg/kg
S-B3-20.0	8.3	negative
S-B3-25.0	8.7	negative
S-B4-04.5	7.7	negative
S-B4-10.0	8.4	13.0 mg/kg
S-B4-14.5	9.0	5.0 mg/kg

Cyanide was not detected in the samples collected from borings B3 and B4 [Method Detection Limit (MDL) = 1.0 mg/kg].

- Soil Borings B5 and B6

Soil samples collected from soil borings B5 and B6 were analyzed for TPH as diesel, TPH as gasoline, oil and grease, pH, Sulfide, Cyanide, CAM Metals, and Halogenated Volatile Organics. Analytical results indicated detectable concentrations of TPH as diesel, TPH as gasoline, and oil and grease were present in some of the samples (Table 8).

Sulfide and pH analysis of the soil samples indicated the following results:

Sample No.	pH	Sulfide
S-B5-06.0	8.0	negative
S-B5-11.0	8.4	10.0 mg/kg
S-B5-15.5	9.2	10.0 mg/kg
S-B5-22.5	9.1	negative
S-B5-25.5	9.0	negative
S-B6-20.5	8.8	negative
S-B6-25.5	8.6	negative

There were no detectable concentrations of cyanide or halogenated volatile organics [Method Detection Limit (MDL) = 0.03 mg/kg] present in soil samples collected from borings B5 and B6.

Analytical results for CAM Metals in soil samples from borings B5 and B6 indicate detectable (background) concentrations, are present at the subject site.

TABLE 8

RESULTS OF HYDROCARBON ANALYSIS
SUBSURFACE SOIL SAMPLES

SOIL BORINGS B5 AND B6

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

SAMPLE NO.	Diesel	Gasoline	Oil & Grease
S-B5- 6.0	N D<10	N D<10	330
S-B5-11.0	15	25	3,580
S-B5-15.5	15	20	1,200
S-B5-22.5	20	N D<10	110
S-B5-25.5	N D<10	N D<10	115
S-B6-20.5	N D<10	N D<10	100
S-B6-25.5	N D<10	N D<10	190

Results: N D = Not Detected
Detection Limit for Diesel = 10 mg/kg
Detection Limit for Gasoline = 10 mg/kg
Detection Limit for Oil & Grease = 10 mg/kg

S-B3-5.0
- S — soil sample
- B3 — boring number
- 5.0 — depth in feet below grade

- Interior Sumps

Fluid samples collected from the two sumps, located inside of the Printing and Warehouse Facility, were analyzed for TPH as diesel and TPH as gasoline only due to insufficient quantities of sample

material. The analytical results were nondetectable for fluid collected from the sump that drained into the sewer. Analytical results of 200 mg/kg TPH as diesel and nondetectable TPH as gasoline were recorded for fluid collected from the sump that had no drain.

- Mezzanine Drains

Residue samples collected from drains located in the second floor mezzanine were analyzed for the following:

CAM Metals	pH
Cyanide	Sulfide
Halogenated Compounds	PCB's

Results of the CAM Metals analysis indicated detectable concentrations of antimony, barium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, silver, vanadium, and zinc. Analytical results of the metal analysis are included in the Appendix to this report.

Sulfide and pH analysis of the drain residue sampled indicated the following results:

Sample No.	pH	Sulfide
R-D1-0	5.5	negative
R-D2-0	8.0	negative
R-D3-0	8.1	negative
R-D4-0	5.4	negative

Cyanide, halogenated compounds, and PCB's were all nondetectable in the samples collected from the drains.

- Exterior Sump Fluid

A fluid sample collected from the sump, located toward the rear of the property was analyzed for the following:

CAM metals	TPH as diesel
TPH as gasoline	Oil and grease
pH	Cyanide
Sulfide	Purgeable organics

Results of CAM Metal analysis were nondetectable for all but the following elements:

Element	Concentration	STLC
Barium	0.023	100 mg/l
Copper	0.92	25 mg/l
Lead	0.103	5.0 mg/l
Zinc	0.51	250 mg/l

The laboratory record of analytical results for TPH as diesel (0.7 mg/l), TPH as gasoline (N D<0.5 mg/l), and oil and grease (50 mg/l) are included in the Appendix to this report. Nondetectable results were recorded for cyanide, sulfide, and purgeable organics. The sump fluid had a pH of 7.3.

- Exterior Sump Soil

A soil sample collected from one foot below grade, near the rear sump, was analyzed for low level purgeable organics. Results of this analysis indicated nondetectable concentrations.

- Rear Excavation

An excavation of soil to approximately three feet below grade was performed along the western property fence line. Samples were collected at one foot and three foot depths and analyzed for purgeable organics. Analytical results indicated nondetectable concentrations for all but the following compounds:

Depth	Compound	Concentration	Detection Limit
1 ft.	Toluene	80 mg/kg	8 mg/kg
1 ft.	Ethylbenzene	20 mg/kg	20 mg/kg
1 ft.	Total Xylenes	360 mg/kg	20 mg/kg
3 ft.	Ethylbenzene	20 mg/kg	10 mg/kg
3 ft.	Total Xylenes	77 mg/kg	8 mg/kg

A copy of the laboratory report of analytical results for the soil samples collected in the excavation is included in the Appendix to this report.

- Monitoring Well MW1

Ground water was sampled from Monitoring well MW1 on July 8, and September 7, 1989. The laboratory analysis conducted on the July 8 sample consisted of the following:

TPH as diesel	TPH as gasoline
BTEX	CAM metals
Halogenated solvents	PCB's

Laboratory analytical results indicated nondetectable concentrations of TPH as diesel, TPH as gasoline, BTEX, halogenated solvents and PCB's (Appendix).

According to Title 22, Article 11, Criteria for Identification of Hazardous and Extremely Hazardous Wastes, analytical results of CAM Metals indicated concentrations are well below the Soluble Threshold Limit Concentration (STLC) values.

The laboratory analysis conducted on the ground water sample collected from Monitoring well MW1 on September 7 consisted of the following:

TPH as diesel	TPH as gasoline
Acid and Base	Purgeable organics
Neutral Extractables	

Laboratory analytical results indicated nondetectable concentrations of TPH as diesel, TPH as gasoline, purgeable organics and extractable acid compounds. One base neutral extractable compound analyzed, Bis-(2-ethylhexyl)phthalate, indicated a detectable concentration of 40 ug/l.

- Monitoring Wells MW3, MW5, and MW6

Ground water from Monitoring wells MW3, MW5, and MW6 was sampled on September 7, 1989. The laboratory analysis consisted of the following:

TPH as diesel	TPH as gasoline
Oil and grease	Acid and Base
Purgeable organics	Neutral Extractables

Laboratory analytical results for the ground water samples collected from the monitoring wells indicated nondetectable concentrations of TPH as diesel, TPH as gasoline, and oil and grease. Purgeable organics analysis for MW3 and MW6 also indicated

nondetectable concentrations. Base neutral extractable compounds analyzed in monitoring wells MW3 and MW6 were nondetectable except for Bis-(2-ethylhexyl)phthalate which indicated a detectable concentration of 80 ug/l and 20 ug/l, respectively.

Monitoring well MW5 had detectable concentrations of the following compounds:

Acid and Base Neutral Extractables

Acid Compounds	Concentration	Detection Limits
2,4-dimethylphenol	6 ug/l	1 ug/l
Base Neutral Compounds		
Naphthalene	5 ug/l	1 ug/l
2-methyl naphthalene	16 ug/l	1 ug/l
Bis-(2-ethylhexyl)phthalate	30 ug/l	10 ug/l

Purgeable Organics

Organic Compounds	Concentration	California Drinking Water Standard
Vinyl chloride	4 ug/l	0.5 ug/l
Trans-1,2-dichloroethene	8 ug/l	6.0 ug/l
Benzene	8 ug/l	1.0 ug/l
Ethylbenzene	6 ug/l	680 ug/l

CONCLUSIONS

Based on field observations and the results of laboratory analyses of soil and water samples collected from excavations, sumps, drains, and the soil borings, we conclude that:

- Laboratory test results of the soil samples collected from the borings indicate TPH as diesel concentrations ranged from nondetectable to 260 ppm, TPH as gasoline ranged from nondetectable to 300 ppm and oil and grease concentrations ranged from nondetectable to 36,535 ppm.

  Detectable TPH as diesel was measured in samples collected from the following borings:

Boring IS1 at depths of 3.5 and 7.0 feet
Boring IS2 at a depth of 3.0 feet
Boring B1 at depths of 5.5 and 16.0 feet
Boring B2 at depths of 6.0 and 10.0 feet
Boring B3 at depths of 5.0, 12.0, and 15.0 feet
Boring B4 at a depth of 10 feet
Boring B5 at depths of 11.0, 15.5, and 22.5 feet

Detectable TPH as gasoline was indicated in samples collected from the following borings:

Boring IS1 at a depth of 10.5 feet
Boring B2 at a depth of 10.0 feet
Boring B3 at a depth of 15.0 feet
Boring B5 at depths of 11.0 and 15.5 feet

Detectable oil and grease was indicated in all the samples collected except from the following borings:

Boring B1 at depths of 5.5 and 16.0 feet
Boring B2 at depths of 6.0 and 10.0 feet
Boring B3 at depths of 5.0, 12.0, and 15.0 feet
Boring B4 at a depth of 10 feet

- Concentrations of oil and grease at levels below 15 feet appear to indicate they were a product of bay infilling and not above ground activities.

- Levels of pH and sulfide are within limits for disposal of contaminated drill cuttings at a qualified disposal facility.

- Based on findings of analytical results of ground water samples collected from Monitoring Wells MW1, MW3, MW5, and MW6 it appears Bis-(2-ethylhexyl)phthalate is common to all the samples tested. Phthalate compounds are employed in the manufacturing of plasticizer for cellulose acetate used in plastic films and sheets. Phthalate compound concentrations, at the levels found, have been documented in the past to be associated with landfills and municipal dump sites in the area.

- Compounds such as 2,4-dimethylphenol, naphthalene, and 2-methyl naphthalene were used in the manufacturing of coal tars for roofing.

- Significant values were recorded in water from Monitoring Well MW5 for concentrations of vinyl chloride, trans-1,2-dichloroethene, and benzene. These concentrations present in the shallow ground water slightly exceed California Drinking Water Standards.

- Significant quantities of lead (0.063 mg/l) and chromium (0.064 mg/l) were also recorded in ground water sampled from Monitoring Well MW1. Although the concentrations do slightly exceed California Drinking Water Standards (0.05 mg/l for lead and chromium), they are very close, indicating aquatic toxicity is not an issue.

- Based on Title 22, Article 11, Criteria for Identification of Hazardous and Extremely Hazardous Wastes, the following analyzed soil samples were found to contain concentrations exceeding the Total Threshold Limit Concentration (TTLC) values:

Sample No.	Concentration	TTLC
IS1-10.5	5,400 Zinc	5,000 mg/kg
IS1-10.5	4,300 Lead	1,000 mg/kg
S-B1-16	6,040 Zinc	5,000 mg/kg
S-B2-10	1,360 Lead	1,000 mg/kg
S-B5-15.5	1,270 Lead	1,000 mg/kg
R-D4-0	9,930 Zinc	5,000 mg/kg

Please refer to the Appendix for the complete list of substances, the Soluble Threshold Limit Concentrations, and their Total Threshold Limit Concentrations in Title 22, Article 11, Criteria for Identification of Hazardous and Extremely Hazardous Wastes.

- Conclusions based on our preliminary findings discussed in the Supplemental Environmental Site Assessment Report appear to be supported by the results of our additional investigations. The concentrations of hydrocarbon contamination in some soil samples are above action levels as recommended by local regulatory agencies.

- Hydrocarbon contamination in the vicinity of the subject site is well substantiated and does not appear to be a direct result of the current practices of MRCP. Documented, uncontrolled dumping, resulting in the contamination of the subsurface, had been relatively common prior to and during the infilling of the bay in the late 1940's. The area south of the subject site to

64th Street was a municipal dump between 1940 and 1960.

- Based on the site history prior to Mike Roberts Color Productions, background values for contamination are in hydrocarbon, as well as other miscellaneous contaminants as indicated the high values for lead and zinc. Results from our analysis of drain residue and our understanding of the chemicals used during production at Mike Roberts indicates contamination existing at the property is a result of dumping procedures prior to the present MRCP operations. Results of our earlier sampling of the drum storage facility at the rear of the site also supports our opinion.

- Based on our calculated ground-water flow direction, Monitoring Well MW3 is located up-gradient and Monitoring Wells MW5 and MW6 are located down-gradient at the site. Monitoring Well MW1 is located down-gradient from the location of the underground chemical storage tanks at the site.

- Hydrocarbon product floating on the ground water was not encountered in the monitoring wells.

RECOMMENDATIONS

1) Delineate and excavate the extent of shallow hydrocarbon contamination in the soil at the rear of the site.

3) Continue sampling of ground water from existing wells to monitor contaminant concentration.

- Limitations

The field investigation, laboratory testing, and analysis presented in this report were prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. This investigation was conducted solely for the purpose of evaluating environmental conditions of the site with respect to hydrocarbon product, CAM metals concentration, volatile and semi-volatile organics, and chlorinated phenol contamination in the vicinity of the subject property. No soil engineering or geotechnical references are implied or should be inferred. Evaluation of the geologic conditions at the site for the purpose of this investigation is

made from a limited number of available data points. Subsurface conditions may vary away from the available data points. Additional work, including further subsurface investigation, can reduce the inherent uncertainties associated with this type of study.

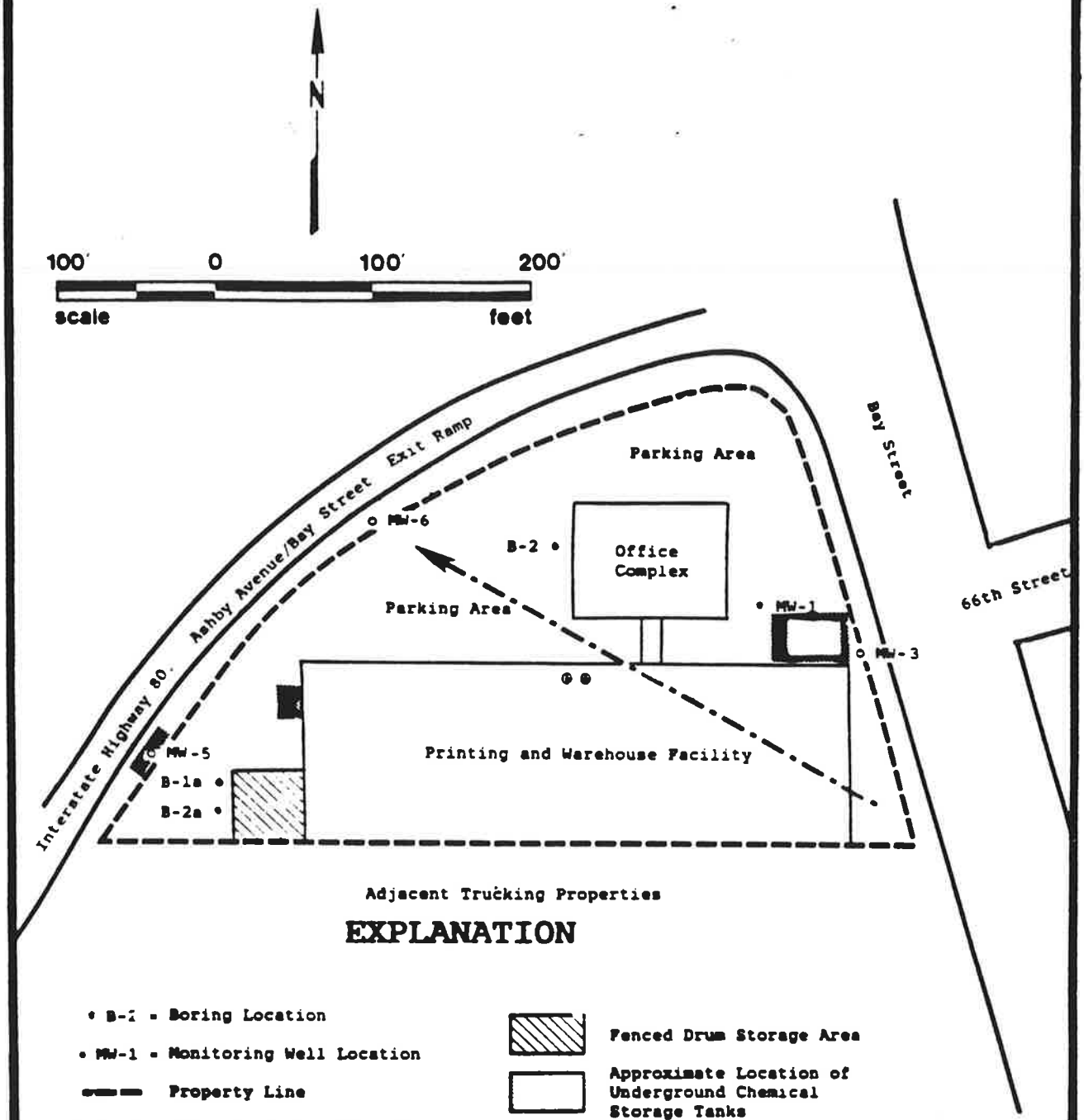
The information researched during our historical review to date was made available from government agencies and select interviews with relevant parties. We cannot make any assurances concerning the completeness of the data presented to us.

If you have any questions regarding this report, please contact the undersigned. We appreciate this opportunity to be of service.

Sincerely,

L & W ENVIRONMENTAL SERVICES, INC.

Jack Arendt
Project Manager
R.G. 4322



EXPLANATION

- B-1 = Boring Location
- MW-1 = Monitoring Well Location
- Property Line
- MW-3 = Approximate Location of Proposed Monitoring Well
- Approximate Location of Sumps
- Fenced Drum Storage Area
- Approximate Location of Underground Chemical Storage Tanks
- Approximate Location of Excavations
- Ground water flow direction

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SITE PLAN

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

FIGURE 1

APPENDIX

Blows per 1/2 Ft.	Sample Numbers	USCS	Depth in Feet	DESCRIPTION	Well Const.
			0	0.2 ft. Asphalt	NEAT CEMENT
		GW	1	Brown, damp, loose, gravel and SAND Gray-brown, damp to moist, medium-dense, gravel (concrete fragments) cobbles and SAND	
			2		BENTONITE SEAL / BLANK CASING
			3		
			4		
15			5		
19	S-B1-5.5	CL		Blue-gray, damp to moist, firm to stiff, gravely CLAY OVA = 340	
25			6		
			7		
			8		
			9	Gray and white (salt & pepper), moist to wet, medium dense, very-fine-grained SAND with shell fragments OVA = 370	
		SM			
5			10		
12	S-B1-10.5			GROUND WATER	
18			11		
			12		
			13		
			14		
			15		NO. 3 SAND / SLOTTED CASING
2					
3					
19	S-B1-16	CL	16	Light-gray and dark blue gray, saturated, stiff, CLAY with wood fibers and greasy, hydrocarbon and transformer odor OVA = 640	
			17		
			18		
			19		
		CL/SM	20	Light gray and blue gray, saturated, firm to stiff CLAY with sand and wood fragments OVA = 520	

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LOG OF BORING B-1

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PLATE 1a

Blows per 1/2 Ft.	SAMPLE NUMBERS	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
14 14 17	S-B1-20.5	CL/SM	- 20	Light gray and blue gray, saturated, firm to stiff **CLAY** with sand and wood fragments OVA = 520	NO. 3 SAND SLOTTED CASING
			- 21		
			- 22	wood fragments common	
			- 23		
			- 24		
10 13 30	S-B1-25.5	CL	- 25	Brown to tan, wet, stiff **CLAY** (few wood fibers) OVA = 350	BLANK CASING
			- 26		
			- 27		
			- 28		
			- 29		
		CL	- 30	Brown to tan, saturated, stiff **CLAY**	
5 11 32	S-B1-30.5	SM	- 31	Light-gray, saturated, medium-dense, silty, very-fine-grained **SAND**	
			- 32		
			- 33		
			- 34		
			- 35		
			- 36		
			- 37		
			- 38		
			- 39		
			- 40		

Total Depth: 31.5 feet
Ground water encountered at 10.7 feet
Monitoring well installed 7-5-89
0 - 5.0 ft. blank casing
5.0 - 25.0 ft. slotted casing
25.0 - 30.0 ft. blank casing
Well developed on 7-6-89

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LOG OF BORING B-1

Mike Roberts Color Productions
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PLATE 1b

Blows per 1/2 ft.	Sample Numbers	USCS	Depth in Feet	DESCRIPTION	Well Const.
		GW	0	0.2 ft. Asphalt Gray-brown, damp, loose, sandy **GRAVEL**	BACKFILLED WITH PORTLAND CEMENT ON JULY 5, 1989
			1		
		CL	2	Blue-gray, moist, soft, silty, sandy, **CLAY** with some organics	
			3		
			4		
			5	Blue-gray, moist, soft, silty, sandy, **CLAY** with some organics OVA = 0	
7 8 8	S-B2-6		6		
			7		
			8		
			9		
12 45 31	S-B2-10	SM	10	Blue-gray and light-gray, moist to wet, loose silty, clayey, fine to medium grained **SAND** slight hydrocarbon odor OVA = 40	
		SM	11	**GROUND WATER** Light-gray to gray, saturated, medium dense, silty, **SAND**	
			12		
			13		
			14		
10 14 17	S-B2-16	CL	15		
			16	Light-brown, saturated, soft to firm, gravely **CLAY**, trace hydrocarbon odor OVA = 540	
			17		
			18		
			19		
		CL	20	Blue gray, saturated, very soft **CLAY** OVA = 320	

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LOG OF BORING B-2

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PROJECT NUMBER: 9077

PLATE 2a

Blows per 1/2 Ft.	SAMPLE NUMBER	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
6 5 8	S-B2-20.5	CL	- 20 - 21	Blue gray, saturated, very soft CLAY OVA = 320	
			- 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40	Total Depth: 21.5 feet Ground water encountered at 11.5 feet No caving Backfilled with portland cement 7-5-89	

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LOG OF BORING B-2

Mike Roberts Color Productions
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PROJECT NUMBER: 9077

PLATE 2b

BLOWS PER FOOT	SAMPLE NUMBERS	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
			- 0	**Fill**	
			- 1	Chunks of concrete, brick and debris	
			- 2		
		SM	- 3	Dark gray, damp, medium dense, silty **SAND** with brick and debris	
10 8 7	S-B3- 5.0		- 4	**Native bay mud & fill debris**	
		SC	- 5	Red-brown and gray, dense, silty **CLAYEY SAND** with brick and debris OVA = 50	
			- 6		
			- 7		
			- 8	GW encountered	
		CL	- 9	Gray-blue gray, wet, soft, silty **CLAY** with gravel	
2 2 2	NR		-10		
			-11		
	S-B3- 12	CL	-12	Blue-gray, wet, soft, silty, gravely **CLAY** with gravel OVA = 150	
			-13	**BAY MUD WITH FILL**	
			-14		
Push for 18"	S-B3- 15	CL	-15	Blue, green, gray and black, wet, soft, gravely **CLAY** 1/3 sample saturated with black, old HC oil OVA = 260	
			-16		
			-17		
			-18		
			-19	**OLDER BAY MUD**	
Push for 18	S-B3- 20	CL	-20	Light brown-tan, wet, stiff, sandy **CLAY** OVA = 260	

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LOG OF BORING B-3

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Emeryville, California

PROJECT NUMBER: 9077

PLATE 3a

BLOWS PER FOOT	SAMPLE NUMBERS	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
			-20	Light brown-tan, wet, stiff, sandy CLAY OVA = 260	
			-21		
			-22		
			-23		
			-24		
Push for 12" 1 for 6"	S-B3-25	CL	-25	Light brown-tan, wet, stiff, sandy CLAY	
			-26		
			-27		
			-28		
			-29	Total Depth: 26.0 feet Ground water encountered at 9.8 feet Monitoring well installed 8-23-89 0 - 5.0 ft. blank casing 5.0 - 25.0 ft. slotted casing Well developed on 9-7-89	
			-30		
			-31		
			-32		
			-33		
			-34		
			-35		
			-36		
			-37		
			-38		
			-39		
			-40		

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LOG OF BORING B-3

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PROJECT NUMBER: 9077

PLATE 3b

BLOWS PER FOOT	SAMPLE NUMBERS	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
		GP	- 0	FILL Light brown, damp, loose to medium dense, silty, gravely SAND/sandy GRAVEL	
			- 1		
			- 2		
			- 3		
12 26 21	S-B4- 4.5	GP	- 4	Light brown, damp, loose to medium dense, gravelly SAND, sandy gravel OVA = 140	
			- 5		
			- 6		
			- 7	(Hard drilling)	
			- 8		
		SP	- 9	Light gray to light brown, damp, dense, gravel and SAND	
5 7 5	S-B4- 10	CL	-10	Blue-gray and brown, moist, wet, dense, gravelly, sandy CLAY OVA = 320 Ground water encountered	
			-11		
			-12		
			-13		
			-14		
6 5 3	S-B4- 14.5	GP	-15	Blue-gray, wet, saturated, dense, sandy, clayey GRAVEL, tr. old, black HC OVA = 480	
			-16	Refusal at 16'	
			-17		
			-18	Lost lead auger in hole - abandoned hole Hole caving at 6' - 9'	
			-19	Total Depth: 16.0 feet	
			-20	Ground water encountered at 10.5 ft.	

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LOG OF BORING B-4

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PLATE 4a

BLOWS PER FOOT	SAMPLE NUMBERS	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
		GP	- 0	**FILL** Light gray-tan, dry to damp, loose, silty, sandy **GRAVEL**	
			- 1		
			- 2		
		GC	- 3	Light gray-gray brown, damp, firm, silty, gravely **CLAY**	
			- 4		
			- 5		
8 21 13	S-B5- 6.0	SM	- 6	Light gray and medium gray (S & P), damp, moist, mud, dense, silty, finegrained **SAND** OVM = 190	
			- 7		
			- 8		
		SM	- 9	Gray, moist, medium dense, silty **SAND**	
8 24 28	S-B5- 4.0	GP	-10	**GRAVEL** and debris	
			-11	Groundwater encountered OVM = 300	
			-12	(Oil/grease common in sample shoe)	
			-13		
			-14		
1 2 1	S-B5- 15.5	CL	-15	Dark gray, moist-wet, soft, silty **CLAY** Sampler covered with oil and grease	
			-16	REGISTERED GEOLOGIST JON (JACK) ARENDT R.G 4322 Exp. 6-30-90 STATE OF CALIFORNIA	
			-17	OVM = 350	
			-18		
			-19		
			-20	Dark gray, wet, soft to firm silty **CLAY**	

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LOG OF BORING B-5

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PROJECT NUMBER: 9077

PLATE 5a

BLOWS PER FOOT	SAMPLE NUMBERS	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
11 12 15	no recovery	CL	-20	Dark gray, wet, soft-firm, silty CLAY	
			-21		
		CL	-22		
	S-B5-22.5			Dark gray as above and light brown-tan, moist-wet, stiff, silty CLAY OVA = 430	
			-23		
			-24		
10 11 10	S-B5-25.5		-25		
		CL	-26	Light brown, tan, wet, stiff, silty CLAY	
				OVA= 430	
			-27		
			-28		
			-29		
			-30	Total Depth: 26.5 feet Ground water encountered at 10.3 ft. Monitoring well installed 8-31-89 0 - 5.0 ft. blank casing 5.0 - 25.0 ft. slotted casing Well developed on 9-7-89	
			-31		
			-32		
			-33		
			-34		
			-35		
			-36		
			-37		
			-38		
			-39		
			-40		

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LOG OF BORING B-5

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PLATE 5b

BLOWS PER FOOT	SAMPLE NUMBER	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
		GP	- 0	**FILL** Light gray, damp-moist, loose, medium dense, silty, sandy, **GRAVEL**	
			- 1		
			- 2		
		GC	- 3	Gray-brown, damp, loose-medium dense, sandy, clayey **GRAVEL**	
			- 4		
			- 5		
			- 6		
			- 7		
		CL	- 8	Light gray-dark gray, moist, dense, gravely, sandy **CLAY**	
			- 9		
		CL	-10	Blue-gray, moist-wet, soft-firm, gravely, sandy **CLAY**	
			-11		
			-12		
			-13		
			-14		
		CL	-15	Blue-gray, wet, soft-firm, sandy **CLAY**	
		CL	-16	Blue-gray, wet, soft-firm, sandy **CLAY**	
			-17		
			-18		
		CL	-19	Blue-gray and tan, wet, soft-stiff, sandy **CLAY**	
			-20		

REGISTERED GEOLOGIST
JON (JACK) ARENDT
RG 4322
Exp. [illegible]
STATE OF CALIFORNIA

LW Environmental Services, Inc.
2111 Jennings St. San Francisco, CA 94124-3224
(415) 822-4555 FAX (415) 822-5290

LOG OF BORING B-6

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

PLATE 6a

BLOWS PER FOOT	SAMPLE NUMBERS	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
10 21 15	S-B6- 20.5	CL	-20	Light brown-tan, wet, stiff, sandy **CLAY** OVA = 410	
			-21		
			-22		
			-23		
			-24		
8 10 15	S-B6- 25.0	CL	-25	Light brown-tan, wet, stiff-very stiff, sandy **CLAY**	
			-26	OVA = 350	
			-27		
			-28		
			-29		
			-30	Total Depth: 26.5 feet Ground water encountered at 10.5 ft. Monitoring well installed on 8-31-89 0 - 5.0 ft. blank casing 5.0 - 25.0 ft. slotted casing Well developed on 9-7-89	
			-31		
			-32		
			-33		
			-34		
			-35		
			-36		
			-37		
			-38		
			-39		
			-40		

REGISTERED GEOLOGIST
RG 4322
STATE OF CALIFORNIA

LW Environmental Services, Inc.
2111 Jennings St., San Francisco, CA 94124-3224
(415) 822-4555 FAX (415) 822-5290

LOG OF BORING B-6

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

PLATE 6b

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE RICHMOND CA 94806 PHONE 415/222-3001 FAX 415 222 1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 04/26/89
Reported: 06/07/89
Job No #: 70800

Attn: George Wilson
Mike Roberts Color Production
6707 Bay Street
Emeryville, CA.

Project: Mike Roberts Color Production

Total Petroleum Hydrocarbon Analysis: By Modified Method 8015
Oil & Grease Analysis: By Standard Method 503D
mg/kg

Lab ID	Client ID	TPH as Diesel	TPH as Gasoline	Oil & Grease	PCB's
70800-1	IS1- 3.5'	46	ND<10	1915	0.4
70800-2	IS1- 7.0'	200	ND<10	3390	0.7
70800-3	IS1-10.5'	ND<10	300	2185	ND<0.5
70800-4	IS2- 3.0'	50	ND<10	1305	0.2
70800-5	IS2- 8.5'	ND<10	ND<10	36,535	ND<0.5

QA/QC: Spike Recovery for Gasoline: 107%
Spike Recovery for Oil & Grease: 99%
Spike Recovery for PCB's: 110%

Detection Limit for TPH: 10
Detection Limit for Oil & Grease: 50
Detection Limit for PCB: 0.5

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE RICHMOND CA 94806 PHONE (415) 222-3002 FAX 415 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 01/05/89
Reported: 01/20/89
Job No #: 70800

Attn: George Wilson
Mike Roberts Color Production
6707 Bay Street
Emeryville, CA.

Project: Mike Roberts Color Production

Halogenated Volatile Organics Analysis:
EPA Method 8010
mg/kg

Lab ID	Client ID	Chloro -methane	Bromo -methane	Vinyl Chloride	Chloro -ethane	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	ND<0.06	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	ND<0.15	ND<0.15	0.15

Lab ID	Client ID	Methylene Chloride	1,1- dichloro -ethene	1,1- dichloro -ethane	Trans-1,2 dichloro -ethene	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	ND<0.06	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	ND<0.15	ND<0.15	0.15

QA/QC: Spike Recovery Average: 109%

MDL: Method detection limit; Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE RICHMOND CA 94806 PHONE (415) 222-3002 FAX (415) 222-3251

Mike Roberts Color Productions
Job No. 70800

Lab ID	Client ID	Chloro -form	1,2- dichloro -ethane	1,1,1- Trichloro -ethene	Carbon Tetra- Chloride	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	0.5	ND<0.06	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	<0.15	ND<0.15	ND<0.15	0.15

Lab ID	Client ID	Bromo- dichloro -methane	1,2- dichloro -propene	Tri- Chloro -ethene	Dibromo -chloro -methane	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	0.3	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	<0.15	ND<0.15	0.15

Lab ID	Client ID	1,1,2- Trichloro -ethane	Trans-1,3 dichloro -propene	2-Chloro -ethyl Vinyl ether	Bromo -form	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	ND<0.06	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	ND<0.15	ND<0.15	0.15

Lab ID	Client ID	Tetra- chloro- -ethene	1,1,2,2- tetra- chloro -ethane	Chloro- benzene	1,3- dichloro -benzene	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	0.11	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	ND<0.15	ND<0.15	0.15

Lab ID	Client ID	1,2- dichloro -benzene	1,4- dichloro -benzene	Dichloro -difluoro methane	Trichloro- fluoro- methane	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	ND<0.06	ND<0.03	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	ND<0.15	ND<0.15	0.15

Precision Analytical Laboratory, Inc.

[illegible] PHONE 415.222 3002 [illegible]

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 07/05/89
Reported: 07/18/89
Job #: 70919

Attn: George Wilson
Mike Roberts Color Productions
7707 Bay Street
Emeryville, CA.

Analysis Method EPA 6010
Prep Method EPA 3050
mg/kg

Lab ID #:	70919-1	70919-2	70919-3	70919-4	70919-5		
Client ID:	S-B1-5.5	S-B1-10.5	S-B1-16	S-B1-20.5	S-B1-25.5		
METAL						MDL	% SPIKE RECOVERY
Tl	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	74
As	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	88
Hg	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	98
Se	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	76
Mo	ND<1.0	ND<1.0	2.4	ND<1.0	ND<1.0	1.0	84
Sb	ND<1.0	ND<1.0	4	ND<1.0	ND<1.0	1.0	70
Zn	94	5.4	6040	106	27	0.15	85
Cd	1.4	0.6	12	2.4	2.0	0.3	86
Pb	61	3	160	77	8.0	1.1	84
Co	5.7	2.6	12.4	4.5	8.0	0.5	82
Ni	14	12.7	30	19	24	0.65	80
Cr	13	12.5	42	15	10	0.15	82
V	15	7	32	12	12	0.1	88
Be	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.025	88
Cu	28	4	153	23	13	0.1	90
Ag	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	0.1	77
Ba	92	21	78	61	67	0.1	82

MDL: Method detection Limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

[illegible] LAKESIDE DRIVE RICHMOND CA [illegible] PHONE (4[illegible]5) 222-3002 FAX [illegible]

Mike Roberts Color Productions
Job No. 70919

Analysis Method EPA 6010
Prep Method EPA 3050
mg/kg

Lab ID #:	70919-6	70919-7	70919-8	70919-9	70919-10		
Client ID:	S-B1-30.5	S-B2-6.0	S-B2-10	S-B2-16	S-B2-20.5		
METAL						MDL	% SPIKE RECOVERY
Tl	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	74
As	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	88
Hg	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	98
Se	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	76
Mo	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.0	84
Sb	ND<1.0	1.2	ND<1.0	1.2	ND<1.0	1.0	70
Zn	15	67	532	23	11	0.15	85
Cd	1.2	1.6	ND<0.3	2.4	1.4	0.3	86
Pb	4.5	167	1360	11	8.7	1.1	84
Co	3.6	5	2.7	12	1.9	0.5	82
Ni	22	18.5	12.5	79	16.6	0.65	80
Cr	9.9	11.8	12.7	43	7.8	0.15	82
V	6.7	9.7	13	10	17	0.1	88
Be	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.025	88
Cu	7.4	92	22.5	10	9.0	0.1	90
Ag	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	0.1	77
Ba	23	109	41	95	35	0.1	82

Precision Analytical Laboratory, Inc.

4130 LAKESIDE DRIVE RICHMOND CA 94806 PHONE (415) 223-3002 FAX 4 5 223 [illegible]

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 07/05/89
Reported: 07/20/89
Job No #: 70919

Attn: George Wilson
Mike Roberts Color Production
7707 Bay Street
Emeryville, CA.

Halogenated Volatile Organics Analysis:
EPA Method 8010
mg/kg

Lab ID	Client ID	Chloro -methane	Bromo -methane	Vinyl Chloride	Chloro -ethane	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-[illegible]	ND<0.[illegible]	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-[illegible]	ND<0.[illegible]	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Methylene Chloride	1,1- dichloro -ethene	1,1- dichloro -ethane	Trans-1,2 dichloro -ethene	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-10	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-16.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

QA/QC: Spike Recovery for 1,1,1-trichloroethane: 115%

Surinder Sidhu
Senior Chemist

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE RICHMOND CA 94806 PHONE (415) 222-3002 FAX (415) 222-1657

Mike Roberts Color Productions
Job No. 70919

Lab ID	Client ID	Chloro -form	1,2- Dichloro -ethane	1,1,1- Trichloro -ethene	Carbon Tetra- Chloride	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-10	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Bromo- dichloro -methane	1,2- dichloro -propene	Tri- Chloro -ethene	Dibromo -chloro -methane	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-10	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	1,1,2- Trichloro -ethane	Trans-1,3 dichloro -propene	2-Chloro -ethyl Vinyl ether	Tetra- chloro -ethene	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-10	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Precision Analytical Laboratory, Inc.

2736 LAKESIDE DRIVE RICHMOND CA 94804 PHONE 415 222 3292 FAX 415 222 92

Mike Roberts Color Productions
Job No. 70919

Lab ID	Client ID	1,1,2,2 Tetrachloro -ethane Chlorobenzene	Dichloro -difluoro methane	Trichloro- fluoro- methane	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.0	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-10	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-16	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	0.03

Precision Analytical Laboratory, Inc.

[illegible] LAKESIDE DRIVE RICHMOND, CA [illegible] PHONE (415) 222-3002 FAX [illegible]

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 07/05/89
Reported: 07/20/89
Job No #: 70919

Attn: George Wilson
Mike Roberts Color Productions
7707 Bay Street
Emeryville, CA.

Total Petroleum Hydrocarbon Analysis: By Modified Method 8015
Oil & Grease Analysis: By Standard Method 503D
Polychlorinated BiPhenyls Analysis: By EPA 8080
mg/kg

Lab ID	Client ID	TPH as Diesel	TPH as Gasoline	Oil & Grease	PCB's
70919-1	S-B1- 5.5	12	ND<10	845	ND<0.5
70919-2	S-B1-10.5	ND<10	ND<10	ND<50	ND<0.5
70919-3	S-B1-16	63	ND<10	1600	ND<0.5
70919-4	S-B1-20.5	ND<10	ND<10	80	ND<0.5
70919-5	S-B1-25.5	ND<10	ND<10	95	ND<0.5
70919-6	S-B1-30.5	ND<10	ND<10	ND<50	ND<0.5
70919-7	S-B2- 6.0	19	ND<10	1160	ND<0.5
70919-8	S-B2-10	172	20	14,900	ND<0.5
70919-9	S-B2-16	ND<10	ND<10	ND<50	ND<0.5
70919-10	S-B2-20.5	ND<10	ND<10	ND<50	ND<0.5

QA/QC: Spike Pecovery for Diesel: 83%
Spike Recovery for Gasoline: 99%
Spike Recovery for Oil & Grease: 102%
Spike Recovery for PCB's: 98%

Detection Limit for Diesel: 10, #8 = 100
Detection Limit for Oil & Grease: 50
Detection Limit for Gasoline: 10
Detection Limit for PCB: 0.5

Surinder Sidhu
Senior Chemist

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE RICHMOND CA 9480c PHONE (415)-222-3002 FAX (415) 222-'25

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 08/21/89
Reported: 09/18/89
Job No #: 71024

Attn: George Wilson
L & W Environmental Services
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Productions
Matrix: Liquid

Total Petroleum Hydrocarbon Analysis
By Modified Method 8015
mg/kg

Lab ID	Client ID	Diesel	Gasoline	MDL
71024-1	Sump #2 Liquid	ND<10	ND<10	10
71024-2	Sump #3 Liquid	200	ND<10	10

QA/QC: Spike Recovery for Diesel: 94%
Spike Recovery for Gasoline: 88%

MDL: Method detection limit; Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Michael O'Brien
QA/QC Officer

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE RICHMOND CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 08/28/89
Reported: 09/18/89
Job No #: 71042

Attn: George Wilson
L & W Environmental Services
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Productions
Matrix: Soil

Total Petroleum Hydrocarbon Analysis
By Modified Method 8015
mg/kg

Lab ID	Client ID	Diesel	Gasoline	MDL
71042-1	S-B3-5	30	ND<10	10
71042-2	S-B3-12	20	ND<10	10
71042-3	S-B3-15	260	120	10
71042-4	S-B3-20	ND<10	ND<10	10
71042-5	S-B3-25	ND<10	ND<10	10
71042-6	S-B4-45	ND<10	ND<10	10
71042-7	S-B4-10	170	ND<10	10
71042-8	S-B4-14.5'	ND<10	ND<10	10

QA/QC: Spike Recovery for Diesel: 86%
Spike Recovery for Gasoline: 106%

MDL: Method detection limit; Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Michael O'Brien
QA/QC Officer

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE RICHMOND CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 08/28/89
Reported: 09/18/89
Job No #: 71042

Attn: George Wilson
L & W Environmental Services
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Productions
Matrix: Soil

Lab ID	Client ID	pH of Leach	Sulfide	Cyanide
71042-1	S-B3-5	8.1	Negative	ND<1.0 mg/kg
71042-2	S-B3-12	8.8	Negative	ND<1.0 mg/kg
71042-3	S-B3-15	9.3	2,320 mg/kg	ND<1.0 mg/kg
71042-4	S-B3-20	8.3	Negative	ND<1.0 mg/kg
71042-5	S-B3-25	8.7	Negative	ND<1.0 mg/kg
71042-6	S-B4-45	7.7	Negative	ND<1.0 mg/kg
71042-7	S-B4-10	8.4	13.0 mg/kg	ND<1.0 mg/kg
71042-8	S-B4-14.5'	9.0	5.0 mg/kg	ND<1.0 mg/kg

Methods:
pH Analysis; By EPA 9045
Sulfide Analysis; By EPA 9030
Cyanide Analysis; By EPA 9010

MDL: Method detection limit; Compound below this level would not be detected.

Detection limit for Sulfide: 1.0
Detection limit for Cyanide: 1.0

Jaime Chow
Laboratory Director

Michael O'Brien
QA/QC Officer

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 08/28/89
Reported: 09/18/89
Job No #: 71042

Attn: George Wilson
L & W Environmental Services
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Productions
Matrix: Soil

Oil & Grease Analysis;
By Standard Method 16th Edition 503D
mg/kg

Lab ID	Client ID	Oil & Grease	MDL
71042-1	S-B3-5	1,845	20
71042-2	S-B3-12	95	20
71042-3	S-B3-15	625	20
71042-4	S-B3-20	ND<20	20
71042-5	S-B3-25	20	20
71042-6	S-B4-45	6,685	20
71042-7	S-B4-10	25,470	20
71042-8	S-B4-14.5'	ND<20	20

QA/QC: Spike Recovery for Oil & Grease: 81%

MDL: Method detection limit; Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Michael O'Brien
QA/QC Officer

Precision Analytical Laboratory, Inc.

4130 LAKESIDE DRIVE RICHMOND CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 08/18/89
Reported: 08/25/89
Job No. #: 71021

Attn: George Wilson
L & W Environmental
2111 Jennings Street
San Francisco CA. 94124

Project: Mike Roberts Color Productions

Lab ID	71021-1	71021-2	71021-3	
Client ID	R-D1-0	R-D2-0	R-D3-0	
Analysis:				**MDL**
pH	5.5	8.0	8.1	N/A
Cyanide	ND<1.0 mg/kg	ND<1.0 mg/kg	ND<1.0 mg/kg	1.0
Sulfide	Negative (Spot test)	Negative (Spot test)	Negative (Spot test)	N/A
Halogenated	ND<0.3 mg/kg	ND<0.3 mg/kg	ND<0.3 mg/kg	0.3
PCB's	ND<0.2 mg/kg	ND<0.2 mg/kg	ND<0.2 mg/kg	0.2
Diesel	N/A	N/A	N/A	N/A

QA/QC: Spike Recovery for PCB's: 100 %
Spike Recovery for Diesel: 113 %
Spike Recovery for Gasoline: 92 %
Spike Recovery for Halogenated: 75 %

MDL: Method detection limit: Compound below this level would not be detected.

METHODS:

Sulfide: By EPA 9030
Cyanide: By EPA 9010
Halogenated: By EPA 8010
TPH: By EPA Modified 8015
PCB'S: By EPA 8080

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE RICHMOND CA 94806 PHONE (415) 222-3002 FAX (415) 222-1671

L & W Environmental
Job No. 71021

Project: Mike Roberts Color Productions

Lab ID	71021-4	71021-5	
Client ID	R-D4-0	ST1-3NE	
Analysis:			**MDL**
pH	5.4	8.5	N/A
Cyanide	ND<1.0 mg/kg	ND<1.0 mg/kg	1.0
Sulfide	Negative (Spot test)	Negative (Spot test)	N/A
Halogenated	ND<0.3 mg/kg	ND<0.3 mg/kg	0.3
PCB's	ND<0.2 mg/kg	ND<0.2 mg/kg	0.2
Diesel	N/A	ND<10 mg/kg	10

Precision Analytical Laboratory, Inc.

4 [illegible] LAKESIDE DRIVE RICHMOND CA [illegible] PHONE (415) 222-3[illegible] FAX (415) 222-[illegible]

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 08/18/89
Reported: 08/25/89
Job #: 71021

Attn: George Wilson
L & W Environmental
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Productions

Analysis Method EPA 6010
Prep Method EPA 3050
mg/kg

Lab ID #:	71021-1	71021-2	71021-3	71021-4	71021-5		
Client ID:	R-D1-0	R-D2-0	R-D3-0	R-D4-0	ST1-3NE		
METAL						MDL	% SPIKE RECOVERY
.1	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	80
As	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	80
Hg	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	86
Se	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	86
Mo	ND<1.0	ND<1.0	ND<1.0	9.6	ND<1.0	1.0	92
Sb	ND<1.0	ND<1.0	9.2	42.5	1.9	1.0	94
Zn	32.5	840	2270	9930	25.9	0.15	82
Cd	3.6	5.1	4.2	25.7	0.90	0.3	80
Pb	10.5	46.0	155	33.6	26.5	1.1	86
Co	0.62	1.1	0.68	5.6	5.4	0.5	84
Ni	9.2	63.5	30.4	43.4	14.7	0.65	88
Cr	18.4	85.8	330	21.0	6.0	0.15	82
V	ND<0.15	0.52	0.60	19.1	11.3	0.1	86
Be	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.025	84
Cu	31.0	81.5	18.0	40	10.5	0.1	88
Ag	345	95	143	ND<0.10	ND<0.10	0.1	74
Ba	2.1	3.6	2.2	1.5	110	0.1	88

MDL: Method detection Limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4130 LAKESIDE DRIVE RICHMOND CA 94804 PHONE (415)-222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 08/21/89
Reported: 08/28/89
Job #: 71022

Attn: George Wilson
Mike Roberts Color Production
6707 Bay Street
Emeryville, CA.

Project: Mike Roberts Color Production
Matrix: Water

Analysis Method EPA 6010
Prep Method EPA 3010
mg/l

Lab ID #: 71022-1
Client ID: Sump Well (Back)

METAL		MDL	% SPIKE RECOVERY
Tl	ND<0.088	0.088	72
As	ND<0.088	0.088	74
Hg	ND<0.200	0.200	74
Se	ND<0.200	0.200	70
Mo	ND<0.040	0.040	74
Sb	ND<0.040	0.040	88
Zn	0.51	0.006	78
Cd	ND<0.012	0.012	68
Pb	0.103	0.044	72
Co	ND<0.020	0.020	74
Ni	ND<0.026	0.026	72
Cr	ND<0.006	0.006	74
V	ND<0.004	0.004	80
Be	ND<0.001	0.001	72
Cu	0.92	0.004	96
Ag	ND<0.004	0.004	62
Ba	0.023	0.005	82

MDL: Method detection Limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 04/26/89
Reported: 06/07/89
Job No #: 70800

Attn: George Wilson
Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA.

Project: Mike Roberts Color Productions

Aromatic Volatile Hydrocarbon Analysis:
EPA Method 8020
mg/kg

Lab ID	Client ID	Benzene	Toluene	MDL
70800-1	IS1- 3.5'	ND<0.03	0.06	0.03
70800-2	IS1- 7.0'	ND<0.03	0.20	0.03
70800-3	IS1-10.5'	0.24	1.3	0.06
70800-4	IS2- 3.0'	ND<0.03	0.25	0.03
70800-5	IS2- 8.5'	0.14	0.10	0.03

Lab ID	Client ID	Ethylbenzene	Xylene	MDL
70800-1	IS1- 3.5'	ND<0.03	0.04	0.03
70800-2	IS1- 7.0'	ND<0.03	0.07	0.03
70800-3	IS1-10.5'	1.8	11	0.06
70800-4	IS2- 3.0'	ND<0.03	0.10	0.03
70800-5	IS2- 8.5'	1.4	4.5	0.03

QA/QC: Spike Recovery for BTX Average: 125%

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE. RICHMOND CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 04/26/89
Reported: 06/05/89
Job #: 70800

Attn: George Wilson
Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA.

Analysis Method EPA 6010
Prep Method EPA 3050
mg/kg

Lab ID #:	70800-1	70800-2	70800-3	70800-4	70800-5		
Client ID:	IS1-3.5'	IS1-7.0'	IS1-10.5'	IS2-3.0'	IS2-8.5'		
METAL						MDL	% SPIKE RECOVERY
Tl	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	68
As	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	74
Hg	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	80
Se	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	NA
Mo	1.2	ND<1.0	3.7	1.2	ND<1.0	1.0	NA
Sb	6.5	1.4	1.6	ND<1.0	ND<1.0	1.0	NA
Zn	200	48.9	5400	270	22.9	0.15	68
Cd	4.1	4.2	10.2	3.2	1.5	0.3	70
Pb	100	130	4300	90	5.3	1.1	78
Co	5.6	6.4	11.4	6.0	2.8	0.5	70
Ni	32.1	31.5	42.6	30.9	15.5	0.65	NA
Cr	20.1	21.5	63.8	18.5	6.6	0.15	68
V	15.4	17.3	17.3	15.6	6.7	0.1	74
Be	0.05	ND<0.025	ND<0.025	0.025	ND<0.025	0.025	88
Cu	70	104	1042	56.7	13.8	0.1	82
Ag	15.2	ND<0.1	ND<0.1	ND<0.1	ND<0.1	0.1	70
Ba	110	130	255	90	35.7	0.1	86

MDL: Method detection Limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

EPA METHOD 8240
PURGEABLE ORGANICS

Sample I.D.: SUMP-1 WELL(BACK)
Sample Received: 08/21/89
Sample Analyzed: 08/22/89
Sample Matrix: WATER

Client: PRECISION ANALYTICAL
Client Ref. No.: NONE
Lab Client Code: 77604
Lab No.: 8908230-01A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS

Sample I.D.: SOIL-3
Sample Received: 08/22/89
Sample Analyzed: 08/28/89
Sample Matrix: SOIL

Client: PRECISION ANALYTICAL
Client Ref. No.: 71024
Lab Client Code: 77604
Lab No.: 8908247-01A

Compound	CAS #	Concentration mg/kg	Limit of Detection mg/kg
Chloromethane	74-87-3	ND	20
Bromomethane	74-83-9	ND	8
Vinyl chloride	75-01-4	ND	8
Chloroethane	75-00-3	ND	20
Methylene chloride	75-09-2	ND	20
Trichlorofluoromethane	75-69-4	ND	8
1,1-dichloroethene	75-35-4	ND	8
1,1-dichloroethane	75-35-3	ND	8
Trans-1,2-dichloroethene	156-60-5	ND	8
Chloroform	67-66-3	ND	8
1,2-dichloroethane	107-06-2	ND	20
1,1,1-trichloroethane	71-55-6	ND	8
Carbon tetrachloride	56-23-5	ND	8
Bromodichloromethane	75-27-4	ND	8
1,2-dichloropropane	78-87-5	ND	20
Cis-1,3-dichloropropene	10061-01-5	ND	20
Trichloroethene	79-01-6	ND	20
Benzene	71-43-2	ND	8
Dibromochloromethane	124-48-1	ND	20
1,1,2-trichloroethane	79-00-5	ND	20
Trans-1,3-dichloropropene	10061-02-6	ND	20
2-chloroethylvinylether	100-75-8	ND	40
Bromoform	75-25-2	ND	20
1,1,2,2-tetrachloroethane	79-34-5	ND	20
Tetrachloroethene	127-18-4	ND	20
Toluene	108-88-3	80	8
Chlorobenzene	108-90-7	ND	8
Ethylbenzene	100-41-4	20	20
1,3-dichlorobenzene	541-73-7	ND	20
1,2-dichlorobenzene	95-50-1	ND	20
1,4-dichlorobenzene	106-46-7	ND	20
Freon 113	76-13-1	ND	8
Total Xylenes	1330-20-7	360	20
Acetone	67-64-1	ND	40
2-Butanone	78-93-3	ND	40
4-Methyl-2-pentanone	108-10-1	ND	40
2-Hexanone	591-78-6	ND	40
Vinyl acetate	108-05-4	ND	20
Carbon disulfide	75-15-0	ND	20
Styrene	100-42-5	ND	20

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS

Sample I.D.: SOIL-4
Sample Received: 08/22/89
Sample Analyzed: 08/28/89
Sample Matrix: SOIL

Client: PRECISION ANALYTICAL
Client Ref. No.: 71024
Lab Client Code: 77604
Lab No.: 8908247-02A

Compound	CAS #	Concentration mg/kg	Limit of Detection mg/kg
Chloromethane	74-87-3	ND	8
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	8
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	4
1,1-dichloroethene	75-35-4	ND	4
1,1-dichloroethane	75-35-3	ND	4
Trans-1,2-dichloroethene	156-60-5	ND	4
Chloroform	67-66-3	ND	4
1,2-dichloroethane	107-06-2	ND	8
1,1,1-trichloroethane	71-55-6	ND	4
Carbon tetrachloride	56-23-5	ND	4
Bromodichloromethane	75-27-4	ND	4
1,2-dichloropropane	78-87-5	ND	8
Cis-1,3-dichloropropene	10061-01-5	ND	8
Trichloroethene	79-01-6	ND	10
Benzene	71-43-2	ND	4
Dibromochloromethane	124-48-1	ND	8
1,1,2-trichloroethane	79-00-5	ND	8
Trans-1,3-dichloropropene	10061-02-6	ND	8
2-chloroethylvinylether	100-75-8	ND	20
Bromoform	75-25-2	ND	8
1,1,2,2-tetrachloroethane	79-34-5	ND	10
Tetrachloroethene	127-18-4	ND	8
Toluene	108-88-3	ND	4
Chlorobenzene	108-90-7	ND	4
Ethylbenzene	100-41-4	20	10
1,3-dichlorobenzene	541-73-7	ND	10
1,2-dichlorobenzene	95-50-1	ND	10
1,4-dichlorobenzene	106-46-7	ND	10
Freon 113	76-13-1	ND	4
Total Xylenes	1330-20-7	77	8
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	8
Styrene	100-42-5	ND	8

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS

Sample I.D.: METHOD BLANK
Sample Received: 08/22/89
Sample Analyzed: 08//28/89
Sample Matrix: SOIL

Client: PRECISION ANALYTICAL
Client Ref. No.: 71024
Lab Client Code: 77604
Lab No.: 8908247-05A

Compound	CAS #	Concentration mg/kg	Limit of Detection mg/kg
Chloromethane	74-87-3	ND	0.4
Bromomethane	74-83-9	ND	0.2
Vinyl chloride	75-01-4	ND	0.2
Chloroethane	75-00-3	ND	0.4
Methylene chloride	75-09-2	ND	0.6
Trichlorofluoromethane	75-69-4	ND	0.2
1,1-dichloroethene	75-35-4	ND	0.2
1,1-dichloroethane	75-35-3	ND	0.2
Trans-1,2-dichloroethene	156-60-5	ND	0.2
Chloroform	67-66-3	ND	0.2
1,2-dichloroethane	107-06-2	ND	0.4
1,1,1-trichloroethane	71-55-6	ND	0.2
Carbon tetrachloride	56-23-5	ND	0.2
Bromodichloromethane	75-27-4	ND	0.2
1,2-dichloropropane	78-87-5	ND	0.4
Cis-1,3-dichloropropene	10061-01-5	ND	0.4
Trichloroethene	79-01-6	ND	0.5
Benzene	71-43-2	ND	0.2
Dibromochloromethane	124-48-1	ND	0.4
1,1,2-trichloroethane	79-00-5	ND	0.4
Trans-1,3-dichloropropene	10061-02-6	ND	0.4
2-chloroethylvinylether	100-75-8	ND	1
Bromoform	75-25-2	ND	0.4
1,1,2,2-tetrachloroethane	79-34-5	ND	0.6
Tetrachloroethene	127-18-4	ND	0.4
Toluene	108-88-3	ND	0.2
Chlorobenzene	108-90-7	ND	0.2
Ethylbenzene	100-41-4	ND	0.6
1,3-dichlorobenzene	541-73-7	ND	0.6
1,2-dichlorobenzene	95-50-1	ND	0.6
1,4-dichlorobenzene	106-46-7	ND	0.6
Freon 113	76-13-1	ND	0.2
Total Xylenes	1330-20-7	ND	0.4
Acetone	67-64-1	ND	1
2-Butanone	78-93-3	ND	1
4-Methyl-2-pentanone	108-10-1	ND	1
2-Hexanone	591-78-6	ND	1
Vinyl acetate	108-05-4	ND	0.6
Carbon disulfide	75-15-0	ND	0.4
Styrene	100-42-5	ND	0.4

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

Sample I.D.: SOIL-5
Sample Received: 08/22/89
Sample Analyzed: 08/23/89
Sample Matrix: SOIL

Client: PRECISION ANALYTICAL
Client Ref. No.: 71024
Lab Client Code: 77604
Lab No.: 8908247-03A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
is-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

Sample I.D.: SOIL-2
Sample Received: 08/22/89
Sample Analyzed: 08/23/89
Sample Matrix: SOIL

Client: PRECISION ANALYTICAL
Client Ref. No.: 71024
Lab Client Code: 77604
Lab No.: 8908247-04A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
~is-1,3-dichloropropene	10061-01-5	ND	3
richloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	10	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	18	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	110	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

J = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

Sample I.D.: METHOD BLANK
Sample Received: 08/22/89
Sample Analyzed: 08/23/89
Sample Matrix: SOIL

Client: PRECISION ANALYTICAL
Client Ref. No.: 71024
Lab Client Code: 77604
Lab No.: 8908247-05A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
`is-1,3-dichloropropene	10061-01-5	ND	3
.richloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	10)-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

.D = Not detected at or above limit of detection

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE. RICHMOND. CA 94806 PHONE (415) 222-3002 FAX (415) 222-125'

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 08/31/89
Reported: 09/25/89
Job No #: 71049

Attn: George Wilson
L & W Environmental Services
2111 Jennings St.
San Francisco, CA. 94124

Project: Mike Roberts Color Productions
Matrix: Soil

mg/kg

Lab ID	Client ID	Oil & Grease	pH	Sulfide	Cyanide
71049-1	SB-5- 6.0	330	8.0	ND<1.0	ND<1.0
71049-2	SB-5-11.0	3580	8.4	10.0	ND<1.0
71049-3	SB-5-15.5	1200	9.2	10.0	ND<1.0
71049-4	SB-5-22.5	110	9.1	ND<1.0	ND<1.0
71049-5	SB-5-25.5	115	9.0	ND<1.0	ND<1.0
71049-6	SB-6-20.5	100	8.8	ND<1.0	ND<1.0
71049-7	SB-6-25.5	190	8.6	ND<1.0	ND<1.0

QA/QC: Spike Recovery for Oil & Grease: 77%
Spike Recovery for Oil & Grease: 84%

MDL: Method detection limit; Compound below this level would not be detected.

Detection limit for Oil & Grease: 20
Detection limit for Sulfide: 1.0
Detection limit for Cyanide: 1.0

METHODS:
Oil & Grease EPA 9071
Sulfide EPA 9030
pH EPA 9045
Cyanide EPA 9010

Jaime Chow
Laboratory Director

Michael O'Brien
QA/QC Officer

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 08/31/89
Reported: 09/12/89
Job No. #: 71049

Attn: George Wilson
L & W Environmental Services
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Productions
Matrix: Soil

Total Petroleum Hydrocarbons Analysis:
DHS Extraction Method (LUFT)
mg/kg

Lab ID	Client ID	Diesel	Gasoline	MDL
71049-1	SB-5-6.0	ND<10	ND<10	10
71049-2	SB-5-11.0	15	25	10
71049-3	SB-5-15.5	15	20	10
71049-4	SB-5-22.5	20	ND<10	10
71049-5	SB-5-25.5	ND<10	ND<10	10
71049-6	SB-6-20.5	ND<10	ND<10	10
71049-7	SB-6-25.5	ND<10	ND<10	10

QA/QC: Spike Recovery for Diesel: 113%
Spike Recovery for Gasoline: 112%

MDL: Method detection limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Michael O'Brien
QA/QC Officer

Precision Analytical Laboratory, Inc.
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CERTIFICATE OF ANALYSIS

State License No. 211

Received: 08/31/89
Reported: 09/25/89
Job No #: 71049

Attn: George Wilson
L & W Environmental Services
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Productions
Matrix: Soil

Halogenated Volatile Organics Analysis:
EPA Method 8010
mg/kg

Lab ID	Client ID	Methylene Chloride	1,1-dichloro-ethene	1,1-dichloro-ethane	Trans-1,2 dichloro-ethene	MDL
71049-1	SB-5- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-2	SB-5-11.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-3	SB-5-15.5	ND<0.12	ND<0.12	ND<0.12	ND<0.12	0.12
71049-4	SB-5-22.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-5	SB-5-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-6	SB-6-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-7	SB-6-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

QA/QC: Spike Recovery Average: 95%

MDL: Method detection limit; Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Michael O'Brien
QA/QC Officer

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

L & W Environmental
Job No. 71049

Lab ID	Client ID	Chloro -form	1,2- Dichloro -ethane	1,1,1- Trichloro -ethane	Carbon tetra- chloride	MDL
71049-1	SB-5- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-2	SB-5-11.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-3	SB-5-15.5	ND<0.12	ND<0.12	ND<0.12	ND<0.12	0.12
71049-4	SB-5-22.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-5	SB-5-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-6	SB-6-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-7	SB-6-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Bromo- dichloro -methane	1,2- dichloro -propene	Tri- Chloro -ethene	Dibromo -chloro -methane	MDL
71049-1	SB-5- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-2	SB-5-11.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-3	SB-5-15.5	ND<0.12	ND<0.12	ND<0.12	ND<0.12	0.12
71049-4	SB-5-22.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-5	SB-5-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-6	SB-6-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-7	SB-6-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	1,1,2- Trichloro -ethane	Trans-1,3 dichloro -propene	2-chloro -ethyl vinyl ether	Bromo -form	MDL
71049-1	SB-5- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-2	SB-5-11.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-3	SB-5-15.5	ND<0.12	ND<0.12	ND<0.12	ND<0.12	0.12
71049-4	SB-5-22.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-5	SB-5-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-6	SB-6-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-7	SB-6-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Tetra- chloro -ethene	1,1,2,2 Tetra- chloro -ethane	Chloro- benzene	1,3 Dichloro -benzene	MDL
71049-1	SB-5- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-2	SB-5-11.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-3	SB-5-15.5	ND<0.12	ND<0.12	ND<0.12	ND<0.12	0.12
71049-4	SB-5-22.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-5	SB-5-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-6	SB-6-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-7	SB-6-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

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L & W Environmental
Job No. 71049

Lab ID	Client ID	1,2-Dichloro-benzene	1,4-Dichloro-benzene	Dichloro-difluoro methane	Trichloro-fluoro-methane	MDL
71049-1	SB-5- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-2	SB-5-11.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-3	SB-5-15.5	ND<0.12	ND<0.12	ND<0.12	ND<0.12	0.12
71049-4	SB-5-22.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-5	SB-5-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-6	SB-6-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-7	SB-6-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Freon 113	MDL
71049-1	SB-5- 6.0	ND<0.03	0.03
71049-2	SB-5-11.0	ND<0.03	0.03
71049-3	SB-5-15.5	ND<0.12	0.12
71049-4	SB-5-22.5	ND<0.03	0.03
71049-5	SB-5-25.5	ND<0.03	0.03
71049-6	SB-6-20.5	ND<0.03	0.03
71049-7	SB-6-25.5	ND<0.03	0.03

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 08/31/89
Reported: 09/25/89
Job #: 71049

Attn: George Wilson
L & W Environmental Services
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Production
Matrix: Soil

Analysis Method EPA 6010
Prep Method EPA 3050
mg/kg

Lab ID #:	71049-1	71049-2	71049-3	71049-4	71049-5		
Client ID:	SB-5 -6.0	SB-5 -11.0	SB-5 -15.5	SB-5 -22.5	SB-5 -25.5		
METAL						MDL	% SPIKE RECOVERY
Tl	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	90
As	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	84
Hg	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	94
Se	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	74
Mo	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.0	90
Sb	ND<1.0	1.05	3.85	ND<1.0	ND<1.0	1.0	44
Zn	52.0	200	1420	58.6	42	0.15	77
Cd	0.5	2.15	4.50	3.80	3.10	0.30	79
Pb	9.7	164	1270	24	12	1.1	92
Co	3.4	8.70	8.20	40	12.3	0.50	96
Ni	18	22	26.8	151	54.0	0.65	88
Cr	13.5	15.2	22.4	19.0	21	0.15	92
V	12	23.4	20	58.3	31	0.10	84
Be	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.025	94
Cu	13.3	64.0	200	44.2	22.6	0.10	98
Ag	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	0.10	102
Ba	29.2	167.1	662	1150	158	0.125	102

MDL: Method detection Limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Michael O'Brien
QA/QC Officer

OUTSTANDING QUALITY AND SERVICE
CALIFORNIA STATE CERTIFIED LABORATORY

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

L & W Environmental Services
Job No. 71049

Analysis Method 6010
Prep Method 3050
mg/kg

Lab ID #:	71049-6	71049-7		
Client ID:	SB-6 -20.5	SB-6 -25.5		
METAL			MDL	% SPIKE RECOVERY
Tl	ND<2.2	ND<2.2	2.2	90
As	ND<2.2	ND<2.2	2.2	84
Hg	ND<5.0	ND<5.0	5.0	94
Se	ND<5.0	ND<5.0	5.0	74
Mo	ND<1.0	ND<1.0	1.0	90
Sb	ND<1.0	ND<1.0	1.0	44
Zn	47	42.6	0.15	77
Cd	3.50	3.30	0.30	79
Pb	15.3	15	1.1	92
Co	19.0	11	0.50	96
Ni	48	54	0.65	88
Cr	23	25.0	0.15	92
V	53	25.0	0.10	84
Be	ND<0.025	ND<0.025	0.025	94
Cu	22.5	22.0	0.10	98
Ag	ND<0.10	ND<0.10	0.10	102
Ba	250	56.5	0.125	102

CHAIN OF STUDY RECORD

PROJ. NO.

SAMPLERS: (Signature) Keith Jay

PROJECT NAME AND ADDRESS:
MIKE ROBERTS COLOR PRODUCTIONS
6707 BAY ST.
EMERYVILLE, CA

ANALYSIS REQUESTED: TOTAL PETROLEUM HYDROCARBONS; BTX; VOC-EPA 8010; TOTAL OIL & GREASE; TETRAETHYL LEAD; REMARKS

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION
TS1-3.5'	4-26-89	1:20P	X		WEST of BARREL STORAGE
TS1-7'	4-26-89	1:35P	X		"
TS1-10.5'	4-26-89	1:50P	X		"
TS2-3'	4-26-89	2:00 P	X		NW OF BBL STORAGE
TS2-8.5'	4-26-89	2:10P	X		"
					"

RELINQUISHED BY: (Signature) Keith Jay	DATE 4-26-89 TIME 2:50PM	RECEIVED BY: (Signature)	DATE ---- TIME ----
RELINQUISHED BY: (Signature)	DATE ---- TIME ----	RECEIVED BY: (Signature)	DATE ---- TIME ----
RELINQUISHED BY: (Signature)	DATE ---- TIME ----	RECEIVED BY: (Signature)	DATE ---- TIME ----
RELINQUISHED BY: (Signature)	DATE ---- TIME ----	RECEIVED FOR LABORATORY BY: (Signature) Raj Pandher	DATE 4/26/89 TIME 2.50pm

PROJ. #: 9077

SAMPLERS: (Signature) Jack Chuck

PROJECT NAME AND ADDRESS:
Mike Roberts Color Productions
6707 Bay St, Emeryville, Ca

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	TETRAETHYL LEAD	Hold requested	Oil & Grease	RCB	CAM METALS	REMARKS
S-B1-5.5	7/5/87		X		Boring B-1	X					X	X	X	X	
S-B1-10.5			X			X					X	X	X	X	
S-B1-16			X			X					X	X	X	X	
S-B1-20.5			X			X					X	X	X	X	
S-B1-25.5			X			X					X	X	X	X	
S-B1-30.5			X			X					X	X	X	X	
.															
S-B2-6.5			X			X					X	X	X	X	
S-B2-10			X			X					X	X	X	X	
S-B2-16			X			X					X	X	X	X	
S-B2-20.5			X			X					X	X	X	X	

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Jack Chuck	7/5/87 4:40	Darcy Wong	7/6/87 8:40
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE / TIME

PROJ. NO. 7077

SAMPLERS: (Signature)

PROJECT NAME AND ADDRESS:
Mike Roberts Color Production
6202 Bay Street
Emeryville, Ca

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240 & 8270	TOTAL OIL & GREASE	TETRAETHYL LEAD	PRE-DISPOSAL	REMARKS
S-B3-5.0	8-28-87	8:25A	X		Boring B-3	X		X	X		X	
S-B3-10.0	"	9:12A	X			X			X		X	
S-B3-15.0	"	8:52A	X			X			X		X	
S-B3-20.0	"	9:03A	X			X			X		X	
S-B3-25.0	"	9:10A	X			X			X		X	
S-B4-4.5	"	11:15A	X		Bor. B-4	X		X	X		X	
S-B4-10.0	"	11:32A	X			X			X		X	
S-B4-14.5	"	11:45	X			X			X		X	

RELINQUISHED BY: (Signature)	DATE 8-28-87 TIME 2:40 P	RECEIVED BY: (Signature)	DATE 8-28-87 TIME 2:40 P
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

CHAIN OF CUSTODY RECORD

PROJ. #: 9077

SAMPLERS: (Signature) [signature]

PROJECT NAME AND ADDRESS:
Mike Roberts Color Productions
6707 Bay Street
Emeryville Calif

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240 / 8270	TOTAL OIL & GREASE	TETRAETHYL LEAD	Pre-Disposal	REMARKS
S-BS-6.0	8-31-87	8:25A	X		Boring B-5	X		X	X		X	
S-BS-11.0	|	8:40A	X		" "	X			X		X	
S-BS-15.5	|	8:50A	X		" "	X			X		X	
S-BS-22.5	|	7:02A	X		" "	X			X		X	
S-BS-25.5	|	7:12A	X		" "	X			X		X	
S-BS-25.5	|	1:30P	X		" B-6	X			X		X	
S-BS-25.5		1:40P	X		" B-6	X			X		X	

RELINQUISHED BY: (Signature) [signature]	DATE 8-31-87 TIME 3:18	RECEIVED BY: (Signature) [signature]	DATE 8-3[illegible] TIME 3:18 pm
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature) [signature]	DATE 8-31-87 TIME 3:22
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

CHAIN OF CUSTODY RECORD

PROJ. NO. 9077

SAMPLERS: (Signature) [signature]

PROJECT NAME AND ADDRESS:
Mike Roberts Silver Productions
6707 Bay Street, Emeryville Ca

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	PCB's	Halogenated CAM Metals	REMARKS
U-MW1-11				X	Monitoring well MW-1	X	X	X	X	X	X	3 1 # 2 40ml (voc)
[illegible]												

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	DATE 1/8/89 TIME 2:00	[signature]	DATE 7/8/88 TIME 2:00
RELINQUISHED BY: (Signature)	DATE ------- TIME	RECEIVED BY: (Signature)	DATE ------- TIME
RELINQUISHED BY: (Signature)	DATE ------- TIME	RECEIVED BY: (Signature)	DATE ------- TIME
RELINQUISHED BY: (Signature)	DATE ------- TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE ------- TIME

CHAIN OF CUSTODY RECORD

PROJ. NO. 7077

SAMPLERS: (Signature) Jack Chen

PROJECT MGR AND ADDRESS:
Mike Roberts Color Productions
6707 Bay Street
Emeryville Ca

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8010 & 8270	TOTAL OIL & GREASE	TETRAETHYL LEAD	REMARKS
W-MW1-11.7	9-7-87	3:30P		X	Monitoring Well MW-1	X		X	X		4,500ml - 2 liter
W-MW3-7.10	9-7-87	3:20P		X	" " MW-3	X		X	X		
W-MW5-10.3	9-7-87	2:50P		X	" " MW-5	X		X	X		
W-MW6-10.6	9-7-87	3:00P		X	" " MW-6	X		X	X		

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Jack Chen	DATE 9-7-87 TIME 4:15	Raj Pandher	DATE 9/7/87 TIME 4:16
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

PROJ. | SAMPLERS: (Signature) Keith Jay

PROJECT NAME AND ADDRESS:
MIKE ROBERTS COLOR PRODUCTIONS
6747 BAY STREET
EMERYVILLE, CA

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8010 & 8220	TOTAL OIL & GREASE	TETRAETHYL LEAD	PRE-DISPOSAL CAM METALS	REMARKS
SUMP #2	8-21-87	1:00P		X	SUMP 2 (WEST) INSIDE	X		X	X		X	X	
SUMP #3	8-21-87	1:20P		X	SUMP 3 (EAST) INSIDE	X		X	X		X	X	
SUMP #3	8-21-87	1:20P			SUMP (EAST) SWIPE SUMP								HOLD
SOIL-3	8-21-87	1:50P	X		CURB SPLIT 1' DEEP		X	X			X		
SOIL-4	8-21-87	1:55P	X		CURB SPLIT 3' DEEP		X	X			X		
SOIL-5	8-21-87	2:30P	X		SUMP #1 SOIL-1'		X	X			X		
SOIL-2	8-21-87	11:00A	X		SOIL CENTER (TANK #2)		X	X			X		

RELINQUISHED BY: (Signature) Keith Jay	DATE 8-21-87 TIME 3:43P	RECEIVED BY: (Signature) Raj Pandher	DATE 8-21-87 TIME 3:44PM
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

Keith Jay

PROJECT NAME AND ADDRESS:
MIKE ROBERTS COLOR PRODUCTIONS
6767 BAY ST.
EMERYVILLE, CA

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	TETRAETHYL LEAD	PKG Disposal Comm Inv: TACS	REMARKS
Sump 1	8/21/89	9:20A		X	Sump WELL (BACK)	X		X	X		X	X
Soil-1	8/21/89	10:30A	X		Soil (TANK 1 - NORTH)		X	X			X	

RELINQUISHED BY: (Signature) Keith Jay	DATE 8-21-89 TIME 10:50A	RECEIVED BY: (Signature)	DATE 8/21/89 TIME
RELINQUISHED BY: (Signature)	DATE 8/21/89 TIME 11:04	RECEIVED BY: (Signature) Darcy Way	DATE 8/21/89 TIME 11:18
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

PRO NO. | SAMPLERS: (Signature) Keith Jay

PROJECT NAME AND ADDRESS:
MIKE ROBERTS COLOR PRODUCTIONS
6707 BAY ST.
EMERYVILLE CA

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	TETRAETHYL LEAD	PKE Disposal Comm w/ TACS	REMARKS
SUMP 1	8/21/87	9:20A		X	SUMP WELL (BACK)	X		X	X		X	X
SOIL-1	8/21/87	10:30A	X		SOIL (TANK 1 - NORTH)		X	X			X	

RELINQUISHED BY: (Signature) Keith Jay	DATE 8-21-87 TIME 10:50A	RECEIVED BY: (Signature)	DATE 8/21/87 TIME 10
RELINQUISHED BY: (Signature)	DATE 8/21/87 TIME 11:04	RECEIVED BY: (Signature) Darcy Way	DATE 8/21/87 TIME 11:18 am
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

CHAIN OF CUSTODY RECORD

890824

PROJ. NO. 7102 4 | SAMPLERS: (Signature)

PROJECT NAME AND ADDRESS:
4136 Lakeside Drive To Jaime Chow
Richmond - Ca - 94806
(415) 222 - 3002

Regular Turnaround

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	REMARKS
Soil #3	8/21/89	1:50PM	X		Curb Split 1' Deep		X			
Soil -4	8/21/89	1:55PM	X		Curb Spit 3' Deep		X			
Soil -5	8/21/89	2:30PM	X		Sump #1 Soil -1'		X			
Soil -2	8/21/89	11:00A	X		Soil Center (Tank #2)		X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Surinder Pal Sidhu	8/22/89 1:05	Terry Dalio	8/22/89 2:30pm
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED FOR LABORATORY BY: (Signature) Rebecca J Turner Chiarello	DATE 8/22/89 TIME

PROJ. NO.

SAMPLERS: (Signature) Keith Jay

PROJECT NAME AND ADDRESS:
MIKE ROBERTS COLOR PRODUCTIONS
6707 BAY ST.
EMERYVILLE CA

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	TETRAETHYL LEAD	Pke Disposal	Comm metals	REMARKS
Sump 1	8/21/87	9:20A		X	SUMP WELL (BACK)	X		X	X		X	X	
Soil - 1	8/21/87	10:30A	X		SOIL (TANK 1 - NORTH)		X	X			X		

RELINQUISHED BY: (Signature) Keith Jay	DATE 8-21-87 TIME 10:52	RECEIVED BY: (Signature) [illegible]	DATE [illegible] TIME 10:5[illegible]
RELINQUISHED BY: (Signature) [illegible]	DATE 8/21/8[illegible] TIME 11:04	RECEIVED BY: (Signature) Darcy Way	DATE 8/21/87 TIME 11:18
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME