Chevron U.S.A. Products Company
2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

Marketing Department

June 23, 1992

Mr. Richard Hiett
California Regional Water Quality
Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Re: Soil Sampling Report
Demolition of three buildings along Landregan Street
Former Chevron Asphalt Plant & Terminal
1520 Powell Street
Emeryville, CA

Dear Mr. Hyatt:

Enclosed is a copy of the soil sampling report dated June 8, 1992 By Geraghty & Miller, Inc. for your review.

This report documents the soil sampling event that took place after demolition of three on-site buildings along Landregan Street.

Soil sampling results can be found on Table 1 and Table 2 of the report.

If you should have any comments or questions, please feel free to call me.

Sincerely,

Lucia R. Chou
Engineer

Enclosure

cc: Mr. Dennis Byrn, Alameda County Environmental Health

GERAGHTY
& MILLER, INC.
Environmental Services

Ground Water *Engineering* *Hydrocarbon* *Remediation* *Education*

JUN 9 '92 JST

June 8, 1992
Project No. RC120.03

Ms. Lucia Chou
Chevron U.S.A. Products Company
P.O. Box 5004
2410 Camino Ramon
San Ramon, California 94583-0804

SUBJECT: Results of the Soil Sampling Activities, Former Chevron Asphalt Plant – Facility #1001067, 1520 Powell Street, Emeryville, California.

Dear Ms. Chou:

This letter report presents the results of soil sampling activities performed by Geraghty & Miller, Inc. (Geraghty & Miller) for the Chevron U.S.A. Products Company (Chevron) at the site referenced above. The soil sampling was requested by Chevron following the demolition of the former shed/storeroom which was located on the northeastern portion of the site (see Figure 1). According to Chevron, a black liquid was observed beneath the concrete floor when it was removed on April 22, 1992. When a representative of Geraghty & Miller visited the site the following day (April 23, 1992), the area where the shed/storeroom had been located was graded. No evidence of black liquid was visually observed at the ground surface.

Chevron subsequently requested Geraghty & Miller to obtain soil samples from the area in an attempt to determine the nature of the liquid which was observed by Chevron representatives on April 22, 1992. Additional soil sampling was requested by Chevron in the area of the former garage, which was located to the south of the former shed/storeroom along the eastern property line (see Figure 1). The former garage had been equipped with a hydraulic lift and, in an adjoining bay, a mechanic's pit, referred to here as a sump. Chevron requested Geraghty & Miller to obtain soil samples from these areas to evaluate the potential of affected soil.

SUMMARY OF FIELD ACTIVITIES

On May 6, 1992, a Geraghty & Miller geologist met with Mr. Gordon Johnson, of Chevron Construction Services, at the above-referenced site prior to soil sample collection in

the shed/storeroom area. Mr. Johnson delineated the area where the black liquid was observed during the removal of the shed foundation on April 22, 1992 (see Figure 2). Mr. Johnson stated that the observed liquid was of a dark black color and resembled bay mud. The ground surface was dry but very soft. The black liquid was not visible on this date, as the area had been previously graded.

Four hand-augered soil borings were drilled in the area of the observed black liquid, as delineated by Mr. Johnson. Boring locations are shown in Figure 2. Soil samples were collected at depths of approximately 2 and 5 feet below the ground surface in Soil Borings SB-1 and SB-2. Soil samples were only collected at approximately 2 feet below the ground surface in Soil Borings SB-3 and SB-4, as refusal was encountered in both borings at approximately 3 feet below the ground surface. Soil samples were collected using a hand soil-core sampler which was advanced into the undisturbed soil beyond the base of the augered boring. The hand soil-core sampler was equipped with brass liners. The augering equipment was washed in a solution of nonphosphate detergent and triple rinsed in potable water prior to drilling each boring. Upon completion, each of the borings was backfilled with native material.

The soil samples were retained in the liners, sealed with Teflon™ tape and plastic end caps, placed on ice, and transported to Superior Precision Analytical, located in Martinez, California, along with chain of custody documentation. The samples were analyzed for total oil and grease (Standard Method 5520F), total petroleum hydrocarbons (TPH) as diesel (USEPA Method 8015, modified), volatile organic compounds (USEPA Method 8240), polychlorinated biphenyls (PCBs) (USEPA Method 8080), and metals.

On May 8, 1992, a Geraghty & Miller geologist arrived onsite to collect soil samples during the removal of the foundation of the garage. Mr. Johnson was onsite supervising the excavation work being performed by Thomas Evchner, Inc. Work began in the area surrounding the hydraulic lift piston (see Figure 3). Upon removal of the 7-foot long by 1-foot diameter cylindrical piston, what visually appeared to be hydraulic fluid was observed to be leaking out of its base; the fluid was also observed in the cavity created by the piston's removal. Work in this area was halted and Mr. Johnson telephoned Erickson, Inc. (Erickson). Mr. Johnson instructed Erickson to pump the fluid out of the cavity and into a 55-gallon drum.

While waiting for Erickson, work was directed to the area of the sump. The sump was removed and three soil samples were collected (see Figure 3) at the following depths below

ground surface: Sample HL-1 at 5.5 feet, Sample HL-2 at 6.5 feet, and Sample HL-3 at 6 feet. The excavator operator of Thomas Evchner, Inc. stated that the material observed during removal of the sump and identified by the Geraghty & Miller geologist as bay mud resembled the black liquid observed during the demolition of the shed/storeroom foundation on April 22, 1992.

Upon Erickson's arrival, approximately 5 gallons of fluid were pumped into a 55-gallon drum from the cavity created by the removal of the hydraulic piston. After removing the fluid an area of approximately 4 feet by 4 feet, centered about the cavity, was excavated to approximately 8 feet below ground surface and soil sample HL-4 was collected. Excavation was continued down to approximately 9 feet below ground surface and soil sample H-5 was collected. Approximately 6 cubic yards of soil was excavated from this area and stockpiled on plastic sheeting as requested by Chevron.

On May 8, 1992, the day the sump was removed, the excavation contractor, performing under the direction of Chevron, was not prepared to excavate any additional soil. On May 11, 1992, at Chevron's request, a Geraghty & Miller geologist met with Lucia Chou of Chevron at the site to observe the additional excavation and to collect soil samples from the location of the former sump (see Figure 3). Ms. Chou instructed the geologist to monitor soil vapors as overexcavation proceeded in the area of the former sump and to halt excavation and collect soil samples as soil-vapor readings approached zero. Three soil samples were collected from the area of the former sump at depths of approximately 9 feet (Soil Samples S-1 and S-3) and 12 feet below ground surface (Soil Sample S-2). Approximately 15 cubic yards of soil was excavated from this area and stockpiled on plastic sheeting as requested by Chevron.

Soil samples were collected on May 8 and 11, 1992, using a hand soil-core sampler which was advanced into the soil collected by the shovel of the excavator. The hand soil-core sampler was equipped with brass liners. The sampling equipment was washed in a solution of nonphosphate detergent and triple rinsed in potable water prior to each sampling. The soil samples were retained in the liners, sealed with Teflon™ tape and plastic end caps, placed on ice, and transported to Superior Precision Analytical, located in Martinez, California, along with chain-of-custody documentation. The samples were analyzed for total oil and grease (Standard Method 5520F), total petroleum hydrocarbons as diesel (USEPA Method 8015, modified), and volatile organic compounds (USEPA Method 8240). Samples HL-1 through HL-3 were not analyzed per Chevron's request.

SUMMARY OF ANALYTICAL RESULTS

The analytical results of the soil samples collected during the field activities are presented in Table 1 and Table 2. Copies of the certified laboratory reports and chain-of-custody documentation are included in Attachment 1.

TPH as diesel was detected in the soil samples collected from Boring SB-1 at concentrations of 21 milligrams per kilogram (mg/kg) at approximately 2 feet below ground surface and 160 mg/kg at approximately 5 feet below ground surface; from Boring SB-3 at a concentration of 84 mg/kg at approximately 2 feet below the ground surface; and from Boring SB-4 at a concentration of 17 mg/kg at approximately 2 feet below the ground surface. TPH as diesel was detected in the sample collected from Boring SB-2 at a concentration of 85 mg/kg at approximately 2 feet below the ground surface, but was not detected in the soil sample collected from approximately 5 feet below ground surface.

Total oil and grease was detected in the soil samples collected at approximately 2 feet below the ground surface in all four borings. The concentrations ranged from 170 mg/kg (Boring SB-1) to 430 mg/kg (Boring SB-3). Total oil and grease was not detected in the samples collected at a depth of approximately 5 feet below the ground surface in both Borings SB-1 and SB-2.

The only volatile organic compound detected was acetone, which was detected in all soil samples collected at approximately 2 feet below the ground surface at concentration ranges from 0.1 mg/kg (Boring SB-3) to 0.42 mg/kg (Boring SB-2). Volatile organic compounds were not detected in the soil samples collected at approximately 5 feet below the ground surface in Borings SB-1 and SB-2. PCBs were not detected in any of the soil samples analyzed for PCB's. The results of the metals analysis are presented in Table 2. Metals were not detected above the total threshold limit concentrations (TTLC) listed in the Title 22, *California Code of Regulations*, §66261.24. Wastes which contain concentrations of metals exceeding TTLCs are considered hazardous by the California Department of Health Services.

TPH as diesel, total oil and grease, and volatile organics were not detected in the soil samples collected on May 8, 1992, from the hydraulic lift area of the former garage at depths of approximately 8 feet (HL-4) and 9 feet below the ground surface (HL-5). Soil samples HL-1, HL-2, and HL-3 were not analyzed, at the request of Chevron.

In the soil samples collected from the sump area of the former garage on May 11, 1992, TPH as diesel was detected in Soil Samples S-2 (180 mg/kg), collected at a depth of approximately 12 feet below ground surface, and S-3 (21 mg/kg), collected at a depth of approximately 9 feet below ground surface. Total oil and grease was detected in Soil Sample S-2 (87 mg/kg). Volatile organic compounds were not detected in the samples collected from the sump area.

Geraghty & Miller sincerely appreciates the opportunity to be of service to Chevron. If you have any questions, please do not hesitate to call.

Sincerely,
GERAGHTY & MILLER, INC.

Jeffrey W. Hawkins, R.G.
Senior Geologist

Gary W. Keyes, P.E.
Principal Engineer/Associate

Enclosures	Table 1	Soil Analytical Results – Organics
	Table 2	Soil Analytical Results – Metals
	Figure 1	Site Plan
	Figure 2	Soil Boring Locations
	Figure 3	Soil Sample Locations
Attachments	Attachment 1	Copies of Certified Analytical Reports and Chain-of-Custody Documentation

Table 1: Soil Analytical Results - Organics
Former Chevron Asphalt Plant - Facility #1001067
1520 Powell Street, Emeryville, California.

Sample	Date Collected	Approximate Depth (feet)	TPH Diesel (a) (mg/kg)	Oil and Grease (b) (mg/kg)	Volatile Organics (c) (mg/kg)	Polychlorinated Biphenyls (d) (mg/kg)
SB-1-2	6-May-92	2	21 (e)	170	0.350 (f)	ND (0.050)
SB-1-5	6-May-92	5	160 (g)	ND (50)	ND	ND (0.050)
SB-2-2	6-May-92	2	85 (e)	290	0.420 (f)	ND (0.050)
SB-2-5	6-May-92	5	ND (10)	ND (50)	ND	ND (0.050)
SB-3-2	6-May-92	2	84 (e)	430	0.100 (f)	ND (0.050)
SB-4-2	6-May-92	2	17 (e)	250	0.170 (f)	ND (0.050)
HL-4	8-May-92	8	ND (10)	ND (50)	ND	NA
HL-5	8-May-92	9	ND (10)	ND (50)	ND	NA
S-1	11-May-92	9	ND (10)	ND (50)	ND	NA
S-2	11-May-92	12	180 (g)	87	ND	NA
S-3	11-May-92	9	21 (g)	ND (50)	ND	NA

(a) Analyzed by USEPA Method 8015, modified.
(b) Analyzed by USEPA Method 5520F.
(c) Analyzed by USEPA Method 8240.
(d) Analyzed by USEPA Method 8080.
(e) Superior reported the pattern of chromatogram shows heavy hydrocarbons.
(f) Only acetone was detected in Volatile Organic Analysis, acetone levels reported.
(g) Superior reported the pattern observed in the chromatogram was not typical of diesel.

mg/kg Milligrams per kilogram equivalent to parts per million (ppm)
ND (10) Not detected (Detection Limit)
NA Not analyzed

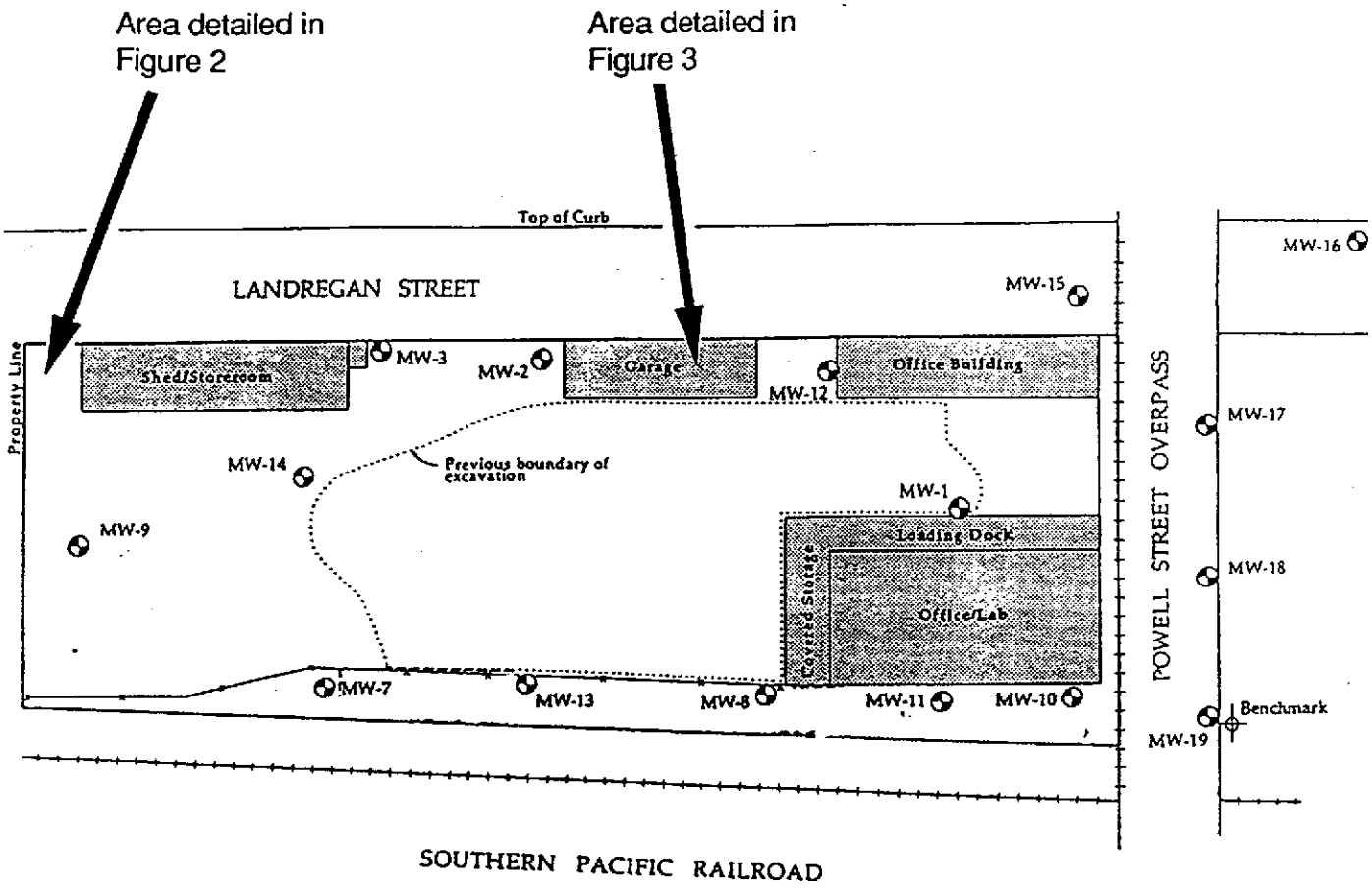
Analysis by Superior Precision Analytical, Inc., Martinez, California.

Table 2: **Soil Analytical Results - Metals**
Former Chevron Asphalt Plant - Facility #1001067
1520 Powell Street, Emeryville, California.

Metal (a)	TTLC (b) (mg/kg)	Sample SB-1-2 (c) (mg/kg)	Sample SB-1-5 (c) (mg/kg)	Sample SB-2-2 (c) (mg/kg)	Sample SB-2-5 (c) (mg/kg)	Sample SB-3-2 (c) (mg/kg)	Sample SB-4-2 (c) (mg/kg)
Antimony	500	6	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Arsenic	500	4	4	6	5	5	3
Barium	10,000	110	140	180	170	180	110
Beryllium	75	ND (0.5)	ND (0.5)	0.6	0.5	ND (0.5)	ND (0.5)
Cadmium	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chromium	2,500	12	23	19	19	21	16
Cobalt	8,000	ND (10)	ND (10)	ND (10)	10	10	ND (10)
Copper	2,500	20	20	20	20	40	40
Lead	1,000	44	7	8	13	380	230
Mercury	20	0.4	0.2	1.7	ND (0.1)	1.8	1.4
Molybdenum	3,500	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Nickel	2,000	20	20	50	50	30	20
Selenium	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Silver	500	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Thallium	700	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Vanadium	2,400	10	30	30	30	20	20
Zinc	5,000	100	30	20	30	310	110

(a) Analyzed by USEPA Method 6010, All results reported in milligrams per kilogram (mg/kg).
(b) Total threshold limit concentrations for toxicity. California Code of Regulations Title 22, Division 4.5, Chapter 11, Article 3, 66261.24 Characteristics of Toxicity.
(c) Collected on May 6, 1992.

mg/kg Milligrams per kilogram (ppm)
ND (10) Not detected (Detection Limit)



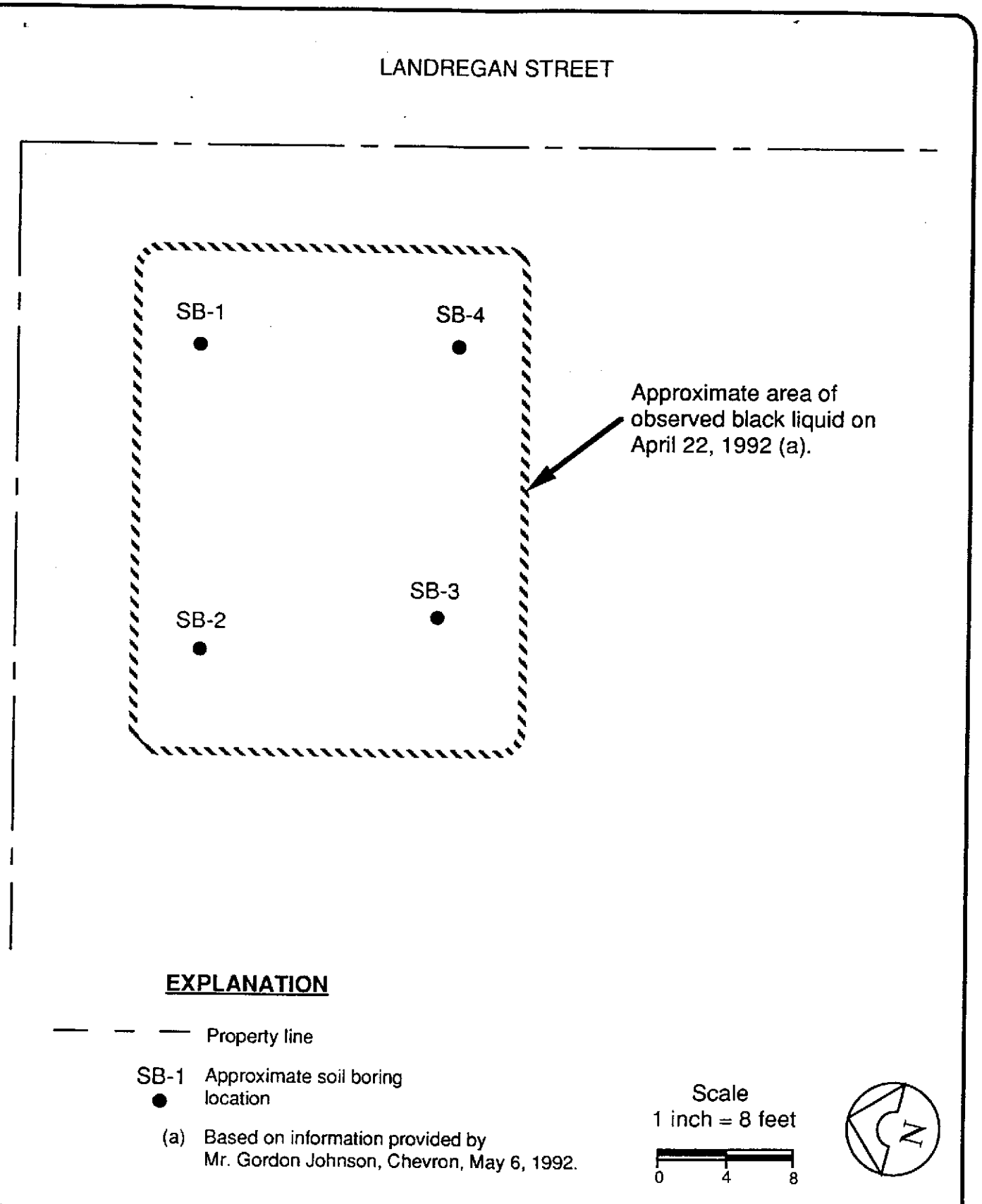
Site Plan Obtained From Western Geologic Resources (WGR), Soil Sampling Report, May 17, 1992.

GERAGHTY & MILLER, INC.
Environmental Services

Proj. No. RC12003

SITE PLAN
Former Chevron Asphalt Plant - Facility #1001067
1520 Powell Street
Emeryville, California

FIGURE
1

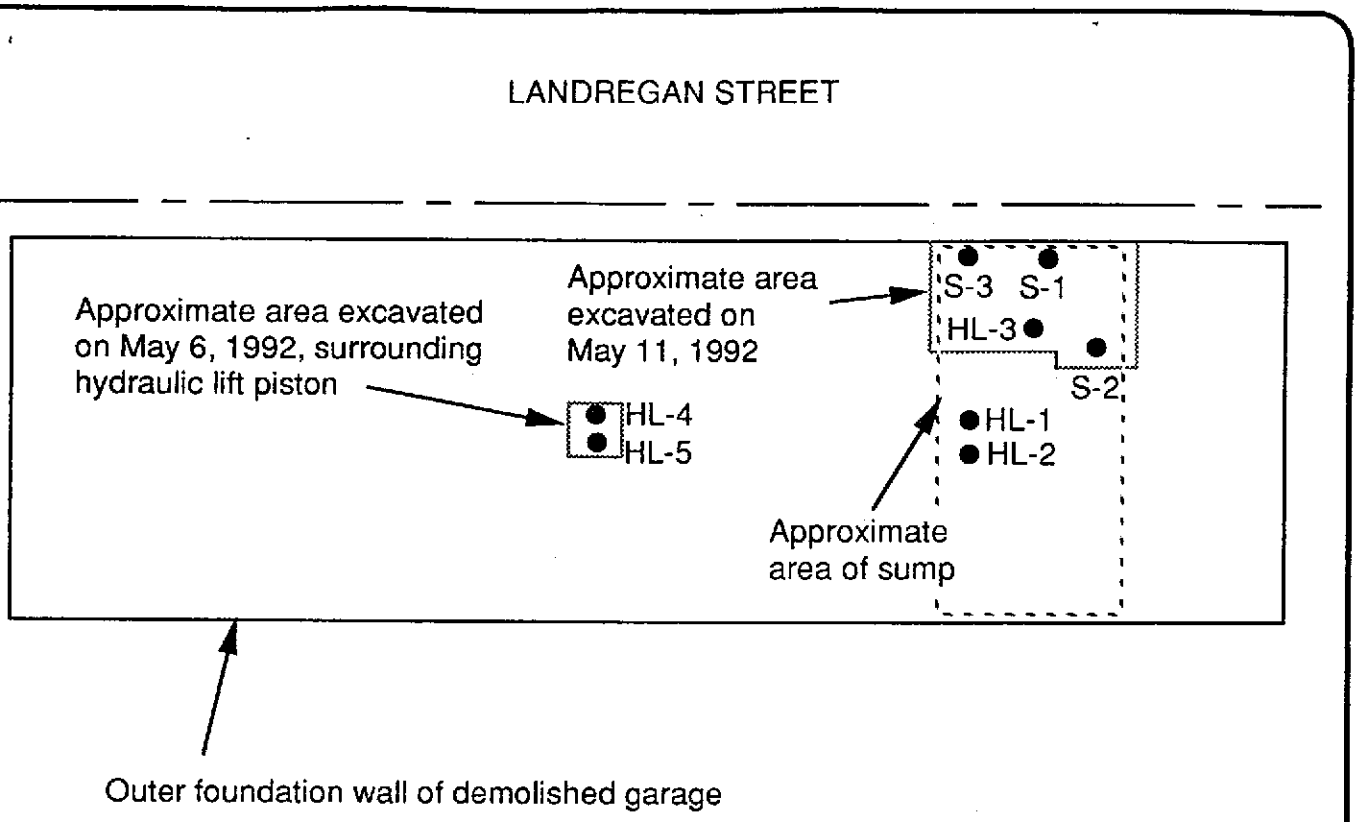


GERAGHTY & MILLER, INC.
Environmental Services

Project No. RC12003

SOIL BORING LOCATIONS
Former Chevron Asphalt Plant - Facility #1001067
1520 Powell Street
Emeryville, California

FIGURE
2



EXPLANATION

Property line

S-1 Approximate soil sample location

Scale
1 inch = 15 feet

0 7.5 15

N

GERAGHTY & MILLER, INC.
Environmental Services

Project No. RC12003

SOIL SAMPLE LOCATIONS
Former Chevron Asphalt Plant - Facility #1001067
1520 Powell Street
Emeryville, California

FIGURE
3

ATTACHMENT 1

COPIES OF CERTIFIED ANALYTICAL REPORTS

AND CHAIN-OF-CUSTODY DOCUMENTATION

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

Geraghty & Miller
Attn: Jeff Hawkins

Project RC12003
Reported 05/11/92

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed	Matrix
85663- 1	SB-1-2	05/06/92	05/08/92	Soil
85663- 2	SB-1-5	05/06/92	05/08/92	Soil
85663- 3	SB-2-2	05/06/92	05/08/92	Soil
85663- 4	SB-2-5	05/06/92	05/08/92	Soil
85663- 5	SB-3-2	05/06/92	05/08/92	Soil
85663- 6	SB-4-2	05/06/92	05/08/92	Soil

RESULTS OF ANALYSIS

Laboratory Number:	85663- 1	85663- 2	85663- 3	85663- 4	85663- 5
Oil and Grease:	170	ND<50	290	ND<50	430
Diesel:	21**	160*	85**	ND<10	84**
Concentration:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg

Laboratory Number:	85663- 6
Oil and Grease:	250
Diesel:	17**
Concentration:	mg/kg

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 85663

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/kg = parts per million (ppm)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Soil: 50mg/kg

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 1mg/kg

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg

ANALYTE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil and Grease:	30 mg	78/72	8	56-106
Diesel:	200	104/97	7	70-130

* Diesel range concentration reported.A non-standard diesel pattern observed in the chromatogram.
** Diesel range concentration reported. The pattern of chromatogram shows heavy hydrocarbons.

Richard Srna, Ph.D.
Jelomina Vanguilig (for)
Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

CERTIFICATE OF ANALYSIS

LABORATORY NO. 13080-1
CLIENT: Geraghty & Miller Inc.

DATE RECEIVED: 05/07/92
DATE REPORTED: 05/11/92
JOB NO. RC12003

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry

SAMPLE: SB-1-2

Compound	ug/kg	Compound	ug/kg
Chloromethane	ND<50	Cis-1,3-Dichloropropene	ND<15
Bromomethane	ND<50	Trichloroethene	ND<15
Vinyl Chloride	ND<50	Dibromochloromethane	ND<15
Chloroethane	ND<50	1,1,2-Trichloroethane	ND<15
Methylene Chloride	ND<50	Benzene	ND<5
Acetone (MDL = 50)	350	Trans-1,3-Dichloropropene	ND<15
Carbon disulfide	ND<15	2-Chloroethyl vinyl ether	ND<15
Trichlorofluoromethane	ND<15	Bromoform	ND<15
1,1-Dichloroethene	ND<15	4-Methyl-2-Pentanone	ND<50
1,1-Dichloroethane	ND<15	2-Hexanone	ND<50
1,2-Dichloroethene (trans)	ND<15	Tetrachloroethene	ND<15
Chloroform	ND<15	1,1,2,2-Tetrachloroethane	ND<15
1,2-Dichloroethane	ND<5	Toluene	ND<15
2-Butanone	ND<100	Chlorobenzene	ND<15
1,1,1-Trichloroethane	ND<15	Ethylbenzene	ND<15
Carbon Tetrachloride	ND<15	Styrene	ND<15
Vinyl Acetate	ND<50	Total Xylenes	ND<15
Bromodichloromethane	ND<15	1,3-Dichlorobenzene	ND<15
1,2-Dichloropropane	ND<15	1,4-Dichlorobenzene	ND<15
1,2-Dichloroethene (cis)	ND<15	1,2-Dichlorobenzene	ND<15

ug/kg = part per billion (ppb)
QC DATA:

Surrogate Recoveries		QC Limits water	QC Limits soil
1,2-DCA-d4.....	71%	76-114	70-121
Toluene-d8.....	114%	88-110	81-117
Bromofluorobenzene.....	82%	86-115	74-121

comments:

Richard Srna, Ph.D.
(for)
Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

CERTIFICATE OF ANALYSIS

LABORATORY NO. 13080-2
CLIENT: Geraghty & Miller Inc.

DATE RECEIVED: 05/07/92
DATE REPORTED: 05/11/92
JOB NO. RC12003

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry

SAMPLE: SB-1-5

Compound	ug/kg	Compound	ug/kg
Chloromethane	ND<50	Cis-1,3-Dichloropropene	ND<15
Bromomethane	ND<50	Trichloroethene	ND<15
Vinyl Chloride	ND<50	Dibromochloromethane	ND<15
Chloroethane	ND<50	1,1,2-Trichloroethane	ND<15
Methylene Chloride	ND<50	Benzene	ND<5
Acetone	ND<50	Trans-1,3-Dichloropropene	ND<15
Carbon disulfide	ND<15	2-Chloroethyl vinyl ether	ND<15
Trichlorofluoromethane	ND<15	Bromoform	ND<15
1,1-Dichloroethene	ND<15	4-Methyl-2-Pentanone	ND<50
1,1-Dichloroethane	ND<15	2-Hexanone	ND<50
1,2-Dichloroethene (trans)	ND<15	Tetrachloroethene	ND<15
Chloroform	ND<15	1,1,2,2-Tetrachloroethane	ND<15
1,2-Dichloroethane	ND<5	Toluene	ND<15
2-Butanone	ND<100	Chlorobenzene	ND<15
1,1,1-Trichloroethane	ND<15	Ethylbenzene	ND<15
Carbon Tetrachloride	ND<15	Styrene	ND<15
Vinyl Acetate	ND<50	Total Xylenes	ND<15
Bromodichloromethane	ND<15	1,3-Dichlorobenzene	ND<15
1,2-Dichloropropane	ND<15	1,4-Dichlorobenzene	ND<15
1,2-Dichloroethene (cis)	ND<15	1,2-Dichlorobenzene	ND<15

ug/kg = part per billion (ppb)
QC DATA:

Surrogate Recoveries		QC Limits water	QC Limits soil
1,2-DCA-d4.....	70%	76-114	70-121
Toluene-d8.....	112%	88-110	81-117
Bromofluorobenzene.....	89%	86-115	74-121

comments:

Richard Srna, Ph.D.
Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

CERTIFICATE OF ANALYSIS

LABORATORY NO. 13080-3
CLIENT: Geraghty & Miller Inc.

DATE RECEIVED: 05/07/92
DATE REPORTED: 05/11/92
JOB NO. RC12003

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry

SAMPLE: SB-2-2

Compound	ug/kg	Compound	ug/kg
Chloromethane	ND<50	Cis-1,3-Dichloropropene	ND<15
Bromomethane	ND<50	Trichloroethene	ND<15
Vinyl Chloride	ND<50	Dibromochloromethane	ND<15
Chloroethane	ND<50	1,1,2-Trichloroethane	ND<15
Methylene Chloride	ND<50	Benzene	ND<5
Acetone (MDL = 50)	420	Trans-1,3-Dichloropropene	ND<15
Carbon disulfide	ND<15	2-Chloroethyl vinyl ether	ND<15
Trichlorofluoromethane	ND<15	Bromoform	ND<15
1,1-Dichloroethene	ND<15	4-Methyl-2-Pentanone	ND<50
1,1-Dichloroethane	ND<15	2-Hexanone	ND<50
1,2-Dichloroethene (trans)	ND<15	Tetrachloroethene	ND<15
Chloroform	ND<15	1,1,2,2-Tetrachloroethane	ND<15
1,2-Dichloroethane	ND<5	Toluene	ND<15
2-Butanone	ND<100	Chlorobenzene	ND<15
1,1,1-Trichloroethane	ND<15	Ethylbenzene	ND<15
Carbon Tetrachloride	ND<15	Styrene	ND<15
Vinyl Acetate	ND<50	Total Xylenes	ND<15
Bromodichloromethane	ND<15	1,3-Dichlorobenzene	ND<15
1,2-Dichloropropane	ND<15	1,4-Dichlorobenzene	ND<15
1,2-Dichloroethene (cis)	ND<15	1,2-Dichlorobenzene	ND<15

ug/kg = part per billion (ppb)
QC DATA:

Surrogate Recoveries		QC Limits water	QC Limits soil
1,2-DCA-d4.....	73%	76-114	70-121
Toluene-d8.....	116%	88-110	81-117
Bromofluorobenzene.....	84%	86-115	74-121

comments:

Richard Srna, Ph.D.
Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

CERTIFICATE OF ANALYSIS

LABORATORY NO. 13080-4
CLIENT: Geraghty & Miller Inc.

DATE RECEIVED: 05/07/92
DATE REPORTED: 05/11/92
JOB NO. RC12003

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry

SAMPLE: SB-2-5

Compound	ug/kg	Compound	ug/kg
Chloromethane	ND<50	Cis-1,3-Dichloropropene	ND<15
Bromomethane	ND<50	Trichloroethene	ND<15
Vinyl Chloride	ND<50	Dibromochloromethane	ND<15
Chloroethane	ND<50	1,1,2-Trichloroethane	ND<15
Methylene Chloride	ND<50	Benzene	ND<5
Acetone	ND<50	Trans-1,3-Dichloropropene	ND<15
Carbon disulfide	ND<15	2-Chloroethyl vinyl ether	ND<15
Trichlorofluoromethane	ND<15	Bromoform	ND<15
1,1-Dichloroethene	ND<15	4-Methyl-2-Pentanone	ND<50
1,1-Dichloroethane	ND<15	2-Hexanone	ND<50
1,2-Dichloroethene (trans)	ND<15	Tetrachloroethene	ND<15
Chloroform	ND<15	1,1,2,2-Tetrachloroethane	ND<15
1,2-Dichloroethane	ND<5	Toluene	ND<15
2-Butanone	ND<100	Chlorobenzene	ND<15
1,1,1-Trichloroethane	ND<15	Ethylbenzene	ND<15
Carbon Tetrachloride	ND<15	Styrene	ND<15
Vinyl Acetate	ND<50	Total Xylenes	ND<15
Bromodichloromethane	ND<15	1,3-Dichlorobenzene	ND<15
1,2-Dichloropropane	ND<15	1,4-Dichlorobenzene	ND<15
1,2-Dichloroethene (cis)	ND<15	1,2-Dichlorobenzene	ND<15

ug/kg = part per billion (ppb)
QC DATA:

Surrogate Recoveries		QC Limits water	QC Limits soil
1,2-DCA-d4.....	75%	76-114	70-121
Toluene-d8.....	110%	88-110	81-117
Bromofluorobenzene.....	78%	86-115	74-121

comments:

Richard Srna, Ph.D.
for
Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

CERTIFICATE OF ANALYSIS

LABORATORY NO. 13080-5
CLIENT: Geraghty & Miller Inc.

DATE RECEIVED: 05/07/92
DATE REPORTED: 05/11/92
JOB NO. RC12003

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry

SAMPLE: SB-3-2

Compound	ug/kg	Compound	ug/kg
hloromethane	ND<50	Cis-1,3-Dichloropropene	ND<15
romomethane	ND<50	Trichloroethene	ND<15
inyl Chloride	ND<50	Dibromochloromethane	ND<15
hloroethane	ND<50	1,1,2-Trichloroethane	ND<15
ethylene Chloride	ND<50	Benzene	ND<5
cetone (MDL = 50)	100	Trans-1,3-Dichloropropene	ND<15
rbon disulfide	ND<15	2-Chloroethyl vinyl ether	ND<15
richlorofluoromethane	ND<15	Bromoform	ND<15
1-Dichloroethene	ND<15	4-Methyl-2-Pentanone	ND<50
1-Dichloroethane	ND<15	2-Hexanone	ND<50
2-Dichloroethene (trans)	ND<15	Tetrachloroethene	ND<15
hloroform	ND<15	1,1,2,2-Tetrachloroethane	ND<15
2-Dichloroethane	ND<5	Toluene	ND<15
-Butanone	ND<100	Chlorobenzene	ND<15
1,1-Trichloroethane	ND<15	Ethylbenzene	ND<15
rbon Tetrachloride	ND<15	Styrene	ND<15
inyl Acetate	ND<50	Total Xylenes	ND<15
romodichloromethane	ND<15	1,3-Dichlorobenzene	ND<15
2-Dichloropropane	ND<15	1,4-Dichlorobenzene	ND<15
2-Dichloroethene (cis)	ND<15	1,2-Dichlorobenzene	ND<15

g/kg = part per billion (ppb)
DATA:

Surrogate Recoveries		QC Limits water	QC Limits soil
2-DCA-d4.....	75%	76-114	70-121
luene-d8.....	108%	88-110	81-117
omofluorobenzene.....	80%	86-115	74-121

mments:

Richard Srna, Ph.D.
for
Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

CERTIFICATE OF ANALYSIS

LABORATORY NO. 13080-6
CLIENT: Geraghty & Miller Inc.

DATE RECEIVED: 05/07/92
DATE REPORTED: 05/11/92
JOB NO. RC12003

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry

SAMPLE: SB-4-2

Compound	ug/kg	Compound	ug/kg
Chloromethane	ND<50	Cis-1,3-Dichloropropene	ND<15
Bromomethane	ND<50	Trichloroethene	ND<15
Vinyl Chloride	ND<50	Dibromochloromethane	ND<15
Chloroethane	ND<50	1,1,2-Trichloroethane	ND<15
Methylene Chloride	ND<50	Benzene	ND<5
Acetone (MDL = 50)	170	Trans-1,3-Dichloropropene	ND<15
Carbon disulfide	ND<15	2-Chloroethyl vinyl ether	ND<15
Trichlorofluoromethane	ND<15	Bromoform	ND<15
1,1-Dichloroethene	ND<15	4-Methyl-2-Pentanone	ND<50
1,1-Dichloroethane	ND<15	2-Hexanone	ND<50
1,2-Dichloroethene (trans)	ND<15	Tetrachloroethene	ND<15
Chloroform	ND<15	1,1,2,2-Tetrachloroethane	ND<15
1,2-Dichloroethane	ND<5	Toluene	ND<15
2-Butanone	ND<100	Chlorobenzene	ND<15
1,1,1-Trichloroethane	ND<15	Ethylbenzene	ND<15
Carbon Tetrachloride	ND<15	Styrene	ND<15
Vinyl Acetate	ND<50	Total Xylenes	ND<15
Bromodichloromethane	ND<15	1,3-Dichlorobenzene	ND<15
1,2-Dichloropropane	ND<15	1,4-Dichlorobenzene	ND<15
1,2-Dichloroethene (cis)	ND<15	1,2-Dichlorobenzene	ND<15

ug/kg = part per billion (ppb)
QC DATA:

Surrogate Recoveries		QC Limits water	QC Limits soil
1,2-DCA-d4.....	77%	76-114	70-121
Toluene-d8.....	111%	88-110	81-117
Bromofluorobenzene.....	85%	86-115	74-121

comments:

Richard Srna, Ph.D.
Laboratory Director

Superior Precision Analytical, Inc.
835 Arnold Drive, Suite 106 • Martinez, California 94553 • (510) 229-0166 / fax (510) 229-0916

Geraghty & Miller
Attn: Jeff Hawkins

Project RC12003
Reported 11-May-1992

ANALYSIS FOR POLYCHLORINATED BIPHENYLS

Sample preparation by microextraction into hexane, and by gas chromatography using an electron capture detector. (EPA Method 8080).

Chronology

Laboratory Number 20529

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
SB-1-2	05/06/92	05/07/92	05/09/92	05/09/92	1	1
SB-1-5	05/06/92	05/07/92	05/09/92	05/09/92	2	2
SB-2-2	05/06/92	05/07/92	05/09/92	05/09/92	1	3
SB-2-5	05/06/92	05/07/92	05/09/92	05/09/92	1	4
SB-3-2	05/06/92	05/07/92	05/09/92	05/09/92	1	5
SB-4-2	05/06/92	05/07/92	05/09/92	05/09/92	1	6

Superior Precision Analytical, Inc.
835 Arnold Drive, Suite 106 • Martinez, California 94553 • (510) 229-0166 / fax (510) 229-0916

Geraghty & Miller
Attn: Jeff Hawkins

Project RC12003
Reported 11-May-1992

ANALYSIS FOR POLYCHLORINATED BIPHENYLS

Laboratory Number	Sample Identification	Matrix
20529- 1	SB-1-2	Soil
20529- 2	SB-1-5	Soil
20529- 3	SB-2-2	Soil
20529- 4	SB-2-5	Soil
20529- 5	SB-3-2	Soil
20529- 6	SB-4-2	Soil

RESULTS OF ANALYSIS

Laboratory Number:	20529- 1	20529- 2	20529- 3	20529- 4	20529- 5
AROCLOR 1016:	ND<50	ND<50	ND<50	ND<50	ND<50
AROCLOR 1221:	ND<50	ND<50	ND<50	ND<50	ND<50
AROCLOR 1232:	ND<50	ND<50	ND<50	ND<50	ND<50
AROCLOR 1242:	ND<50	ND<50	ND<50	ND<50	ND<50
AROCLOR 1248:	ND<50	ND<50	ND<50	ND<50	ND<50
AROCLOR 1254:	ND<50	ND<50	ND<50	ND<50	ND<50
AROCLOR 1260:	ND<50	ND<50	ND<50	ND<50	ND<50
Concentration:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
SURROGATE RECOVERY:	102%	94%	90%	104%	99%

Laboratory Number:	20529- 6
AROCLOR 1016:	ND<50
AROCLOR 1221:	ND<50
AROCLOR 1232:	ND<50
AROCLOR 1242:	ND<50
AROCLOR 1248:	ND<50
AROCLOR 1254:	ND<50
AROCLOR 1260:	ND<50
Concentration:	ug/kg
SURROGATE RECOVERY:	94%

Superior Precision Analytical, Inc.
835 Arnold Drive, Suite 106 • Martinez, California 94553 • (510) 229-0166 / fax (510) 229-0916

ANALYSIS FOR POLYCHLORINATED BIPHENYLS
Quality Assurance and Control Data - Soil
Laboratory Number 20529

pound	Method Blank (ug/kg)	PQL (ug/kg)	Average Spike Recovery (%)	Limits (%)	RPD (%)	Spike Level (ug/kg)
CLOR 1016:	ND<50	50				
CLOR 1221:	ND<50	50				
CLOR 1232:	ND<50	50				
CLOR 1242:	ND<50	50				
CLOR 1248:	ND<50	50				
CLOR 1254:	ND<50	50	103%	60-140	5%	195
CLOR 1260:	ND<50	50				

initions:

= Not Detected
= Practical Quantitation Limit

RPD = Relative Percent Difference

File No. 20529

Charles Green
Senior Analyst

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

Geraghty & Miller
Attn: Jeff Hawkins

Project RC12003
Reported 11-May-1992

ANALYSIS FOR METALS

Sample preparation by acid digestion (EPA SW-846 Method 3050), analysis using Inductively Coupled Argon Plasma (ICAP) Emission Spectroscopy (EPA SW-846 Method 6010). Mercury analysis by vapor atomic absorption spectroscopy (EPA SW-846 Method 7471).

Chronology

Laboratory Number 85663

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
SB-1-2	05/06/92	05/07/92	05/11/92	05/11/92		1
SB-1-5	05/06/92	05/07/92	05/11/92	05/11/92		2
SB-2-2	05/06/92	05/07/92	05/11/92	05/11/92		3
SB-2-5	05/06/92	05/07/92	05/11/92	05/11/92		4
SB-3-2	05/06/92	05/07/92	05/11/92	05/11/92		5
SB-4-2	05/06/92	05/07/92	05/11/92	05/11/92		6

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

Geraghty & Miller
Attn: Jeff Hawkins

Project RC12003
Reported 11-May-1992

ANALYSIS FOR METALS

Laboratory Number	Sample Identification	Matrix
85663- 1	SB-1-2	Soil
85663- 2	SB-1-5	Soil
85663- 3	SB-2-2	Soil
85663- 4	SB-2-5	Soil
85663- 5	SB-3-2	Soil

RESULTS OF ANALYSIS

Laboratory Number:	85663- 1	85663- 2	85663- 3	85663- 4	85663- 5
ANTIMONY:	6	ND<5	ND<5	ND<5	ND<5
BARIUM:	110	140	180	170	180
BERYLLIUM:	ND<0.5	ND<0.5	0.6	0.5	ND<0.5
CADMIUM:	ND<1	ND<1	ND<1	ND<1	ND<1
CHROMIUM:	12	23	19	19	21
COBALT:	ND<10	ND<10	ND<10	10	10
COPPER:	20	20	20	20	40
LEAD:	44	7	8	13	380
MERCURY:	0.4	0.2	1.7	ND<0.1	1.8
MOLYBDENUM:	ND<10	ND<10	ND<10	ND<10	ND<10
NICKEL:	20	20	50	50	30
SILVER:	ND<5	ND<5	ND<5	ND<5	ND<5
THALLIUM:	ND<5	ND<5	ND<5	ND<5	ND<5
VANADIUM:	10	30	30	30	20
ZINC:	100	30	20	30	310
Concentration:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

Geraghty & Miller	Project RC12003
Attn: Jeff Hawkins	Reported 11-May-1992

ANALYSIS FOR METALS

Laboratory Number	Sample Identification	Matrix
85663- 6	SB-4-2	Soil

RESULTS OF ANALYSIS

Laboratory Number: 85663- 6

ANTIMONY:	ND<5
BARIUM:	110
BERYLLIUM:	ND<0.5
CADMIUM:	ND<1
CHROMIUM:	16
COBALT:	ND<10
COPPER:	40
LEAD:	230
MERCURY:	1.4
MOLYBDENUM:	ND<10
NICKEL:	20
SILVER:	ND<5
THALLIUM:	ND<5
VANADIUM:	20
ZINC:	110
Concentration:	mg/kg

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

ANALYSIS FOR METALS
Quality Assurance and Control Data - Soil
Laboratory Number 85663

und	Method Blank (mg/kg)	PQL (mg/kg)	Average Spike Recovery (%)	Limits (%)	RPD (%)	Spike Level (mg/kg)
ONY:	ND<5	5	87%	80-120	8%	25
M:	ND<5	5	97%	80-120	1%	25
LLIUM:	ND<0.5	0.5	104%	80-120	0%	25
UM:	ND<1	1	93%	80-120	0%	25
IIUM:	ND<5	5	92%	80-120	4%	25
T:	ND<10	10	103%	80-120	3%	25
R:	ND<10	10	96%	80-120	1%	25
	ND<5	5	92%	80-120	4%	25
RY:	ND<0.1	0.1	111%	80-120	5%	0.08
M:	ND<10	10	91%	80-120	1%	25
	ND<10	10	93%	80-120	3%	25
R:	ND<5	5	112%	80-120	2%	25
LIUM:	ND<5	5	93%	80-120	1%	25
IUM:	ND<10	10	96%	80-120	2%	25
	ND<20	20	100%	80-120	1%	25

Note: Arsenic, and selenium analysis was done by
Clayton Environmental.

nitions:

= Not Detected
= Practical Quantitation Limit

ile No. 85663

RPD = Relative Percent Difference

Jelomina Vasquez (for)
Senior Analyst

85663

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: EMERYVILLE ASPHALT PLANT #100106?
Facility Address: 1520 POWELL STREET, EMERYVILLE, CA
Consultant Project Number: RC12003
Consultant Name: GERAGHTY & MILLER, INC.
Address: 1050 MARINA WAY SOUTH, RICHMOND, CA
Project Contact (Name): JEFF HAWKINS
(Phone) (510) 233-3200 (Fax Number) (510) 233-3204

Chevron Contact (Name): LUCIA CHOW
(Phone): (510) 842-9500
Laboratory Name: SUPERIOR PRECISION ANALYTICAL
Laboratory Release Number: 7038540
Samples Collected by (Name): MICHAEL BESSETTE
Collection Date: May 6, 1992
Signature: Michael M. Bessette

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Title 26 Cd,Cr,Pb,Zn,Ni (ICAP or AA)	PCB 8080					Remarks
SB-1-2	1	1	S	G		ICE	YES		X	X			X	X	X	X					METALS-TITLE 26
SB-1-5	2	1	S	G		↓	↓		X	X			X	X	X	X					
SB-2-2	3	1	S	G					X	X			X	X	X	X					
SB-2-5	4	1	S	G					X	X			X	X	X	X					
SB-3-2	5	1	S	G					X	X			X	X	X	X					
SB-3-2	6	1	S	G					X	X			X	X	X	X					
SB-4-2																					

Please initial: SC
Samples Stored in ice: ✓ SC
Appropriate containers: ✓ SC
Samples preserved: ✓ SC
VOA's without headspace: NA
Comments: Corrected to C of C Faxed from Geraghty and Miller

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Michael M. Bessette	G&M Inc	5/6/92 1650	W McCutch	G&M Inc	5/6/92 1650
W McCutch	G&M Inc	5/7/92 918A	[signature]	Express-FT	5/7/92 918
[signature]	Express-FT	5/7/92 958	Received For Laboratory By (Signature): Brenda L.D. Supervisor		5/07/92 9:50

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs. (circled)
5 Days
10 Days
As Contracted

COC-3.DWG/03 917/RCH

Section I

Chain of Custody and Analysis Request

13080.

page__of__

From: Superior Precision Analytical, Inc.
825 Arnold Drive Suite 114
Martinez, CA 94553
Phone No. (415) 229-1512 Fax No. (415) 229-1526
Contact: Steve Carroll
P.O. No. 85663

Turn Around Time (circle one)
Same Day 72 Hrs
24 Hrs 5 Day
48 Hrs 10 Day

Superior Precision Analytical, Inc.
P.O. Box 1545
Martinez, California 94553

Work Subcontracted to: San Francisco Superior

Section II: Analysis Request

	Laboratory Sample Identification	S = Soil A = Air W = Water Matrix	8240	8270	8010	8080						Client Sample Identification	Number of Containers	Preservative (yes or no)			Sampling Remarks
																	Chevron ☒ Non-Chevron ☐ ** Please Fax Results **
1	85663-1	S											1				Need Results by 5/11/93
2	-2																
3	-3																
4	-4																Fax directly to client - Jeff Hawkins
5	-5																
6	-6	↓	↓										↓	↓			1415-233-3204
7																	
8																	
9																	
10																	
11																	
12																	

Relinquished by [signature] Organization Superior	Date/Time 5/7/93 11:00	Received by ____ Organization ____	Date/Time	Lab please initial the following:
Relinquished by ____ Organization ____	Date/Time	Received by ____ Organization ____	Date/Time	Samples Stored in Ice YES
Relinquished by ____ Organization ____	Date/Time 5/7/93 1050	Received by [signature] Organization Superior	Date/Time	Appropriate Containers YES Samples Preserved NO VOAs without Headspace NA Comments OK

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

May 11, 1992

Mr. Jeff Hawkins
GERAGHTY & MILLER, INC.
1050 Marina Way South
Richmond, CA 94804

Client Ref. 1001067/RC12003
Clayton Project No. 92050.86

Dear Mr. Hawkins:

Attached is our analytical laboratory report for the samples received on May 7, 1992 from Superior Analytical Laboratory. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Maryann Gambino, Client Services Supervisor, at (510) 426-2657.

Sincerely,

Michael Fynch for

Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

Results of Analysis
for
Chevron U.S.A. Inc./Geraghty & Miller, Inc.

Client Reference: 1001067/RC12003
Clayton Project No. 92050.86

Sample Matrix/Media: SOIL
Preparation Method: EPA 3050
Analysis Method: EPA 6010

Date Received: 05/07/92
Date Prepared: 05/08/92
Date Analyzed: 05/11/92

Lab No.	Sample ID	Date Sampled	Arsenic (mg/kg)
01A	SB-1-2	05/06/92	4
02A	SB-1-5	05/06/92	4
03A	SB-2-2	05/06/92	6
04A	SB-2-5	05/06/92	5
05A	SB-3-2	05/06/92	5
06A	SB-4-2	05/06/92	3
07A	METHOD BLANK	--	<1
Detection Limit:			1

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Results of Analysis
for
Chevron U.S.A. Inc./Geraghty & Miller, Inc.

Client Reference: 1001067/RC12003
Clayton Project No. 92050.86

Sample Matrix/Media: SOIL
Preparation Method: EPA 3050
Analysis Method: EPA 6010

Date Received: 05/07/92
Date Prepared: 05/08/92
Date Analyzed: 05/11/92

Lab No.	Sample ID	Date Sampled	Selenium (mg/kg)
01A	SB-1-2	05/06/92	<1
02A	SB-1-5	05/06/92	<1
03A	SB-2-2	05/06/92	<1
04A	SB-2-5	05/06/92	<1
05A	SB-3-2	05/06/92	<1
06A	SB-4-2	05/06/92	<1
07A	METHOD BLANK	--	<1
Detection Limit:			1

ND Not detected at or above limit of detection
< Not detected at or above limit of detection
-- Information not available or not applicable

Results are reported on a wet weight basis, as received

Quality Assurance Results Summary
for
Clayton Project No. 92050.86

Clayton Lab Number:	9205086-01A	Analytical Method:	EPA6010
Ext./Prep. Method:	EPA3050	Instrument ID:	03891
Date:	05/08/92	Date:	05/11/92
Analyst:	RH	Time:	15:09
Std. Source:	VHG1-1113	Analyst:	DS
Sample Matrix/Media:	SOIL	Units:	MG/KG

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
ARSENIC	3.50	50.0	55.0	103	54.0	101	102	72	114	1.8	25
SELENIUM	ND	50.0	50.0	100	50.0	100	100	60	120	0.0	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: EMERYVILLE ASPHALT PLANT #10010677
Facility Address: 1570 POWELL STREET, EMERYVILLE, CA
Consultant Project Number: RC12003
Consultant Name: GERAGHTY & MILLER, INC.
Address: 1050 MARINA WAY SOUTH, RICHMOND, CA
Project Contact (Name): JEFF HAWKINS
(Phone) (510) 233-3200 (Fax Number) (510) 233-3204

Chevron Contact (Name): LUCIA CHOU
(Phone): (510) 842-9500
Laboratory Name: SUPERIOR PRECISION ANALYTICAL
Laboratory Release Number: 7038540
Samples Collected by (Name): MICHAEL BESSETTE
Collection Date: May 6, 1992
Signature: Michael M. Bessette

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Title 22 CAM 17 (ICAP) or AA	PCB's 8080				Remarks
SB-1-2	1	1	S	G		ICE	YES		X	X			X	X	X	X				METALS-TITLE 22
SB-1-5	2	1	S	G					X	X			X	X	X	X				
SB-2-2	3	1	S	G					X	X			X	X	X	X				
SB-2-5	4	1	S	G					X	X			X	X	X	X				
SB-3-2	5	1	S	G					X	X			X	X	X	X				
SB-3-2	6	1	S	G					X	X			X	X	X	X				

Please initial:
Samples stored in ice — JC
Appropriate containers — JC
Samples preserved — JC
VOA's without headspace — NA
Comments: Correct T of C Faxed from Geraghty and Miller

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Michael M. Bessette	G&M Inc	5/6/92 1650	W.H. Curtis	G&M Inc	5/6/92 1650
W.H. Curtis	G&M Inc	5/7/92 918A		Express-FT	5/7/92 918
	Express-FT	5/7/92 950	Received For Laboratory By (Signature) Brenda L. Oh Supervisor		5/07/92 9:50

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No

85663

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: EMERYVILLE ASPHALT PLANT #10010607
Facility Address: 1520 POWELL STREET, EMERYVILLE, CA
Consultant Project Number: RC12003
Consultant Name: GERAGHTY & MILLER, INC.
Address: 1050 MARINA WAY SOUTH, RICHMOND, CA
Project Contact (Name): JEFF HAWKINS
(Phone) (510) 233-3200 (Fax Number) (510) 233-3204

Chevron Contact (Name): LUCIA CHOU
(Phone): (510) 842-9500
Laboratory Name: SUPERIOR PRECISION ANALYTICAL
Laboratory Release Number: 7038540 A
Samples Collected by (Name): MICHAEL BESSETTE
Collection Date: May 6, 1992
Signature: Michael M. Bessette

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals (Title 22 Cd, Cr, Pb, Ni, Zn) (TTLC or STLC)	PCB 8080	Remarks
SB-1-2		1	S	G		ICE	Yes		X	X			X	X	X	X	METALS-TITLE 22
SB-1-5		1	S	G					X	X			X		X	X	
SB-2-2		1	S	G					X	X			X		X	X	
SB-2-5		1	S	G					X	X			X		X	X	SB-2 is really SB-2-5
SB-3-2		1	S	G					X	X			X		X	X	
SB-3-2		1	S	G		V	V		X	X			X	X	X	X	SB-3-2 is really SB-4-2
																	Amended by RWM-Cahill 7 May 92

Plume note all samples to be analyzed for Purgeable Organics (8240) not Extractable Organics (8270)

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Michael M. Bessette	G+M Inc.	5/6/92 1650	RWM-Cahill	G+M Inc	5/6/92 1650
RWM-Cahill	G+M Inc	5/7/92 918A		Express-FT	5/7/92 918
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time

Turn Around Time (Circle Choice)
24 Hrs.
(48 Hrs.)
5 Days
10 Days
As Contracted

COC-SLDWG/03 91/HCH

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

Geraghty & Miller
Attn: KATE McCUTCHEN

Project RC12003
Reported 05/13/92

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed	Matrix
85683- 4	HL-4	05/08/92	05/12/92	Soil
85683- 5	HL-5	05/08/92	05/12/92	Soil

RESULTS OF ANALYSIS

Laboratory Number:	85683- 4	85683- 5
Oil and Grease:	ND<50	ND<50
Diesel:	ND<10	ND<10
Concentration:	mg/kg	mg/kg

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 85683

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/kg = parts per million (ppm)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Soil: 50mg/kg

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 10mg/kg

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg

ANALYTE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil and Grease:	30 mg	68/70	3	56-106
Diesel:	200	114/112	2	70-130

Richard Srna, Ph.D.
Nancy A. Nelson for
Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO. 13086-1
CLIENT: Geraghty and Miller, Inc.

DATE RECEIVED: 05/11/92
DATE REPORTED: 05/13/92
JOB NO. RC12003

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry

SAMPLE: HL-4

Compound	ug/kg	Compound	ug/kg
Chloromethane	ND<50	Cis-1,3-Dichloropropene	ND<15
Bromomethane	ND<50	Trichloroethene	ND<15
Vinyl Chloride	ND<50	Dibromochloromethane	ND<15
Chloroethane	ND<50	1,1,2-Trichloroethane	ND<15
Methylene Chloride	ND<50	Benzene	ND<5
Acetone	ND<50	Trans-1,3-Dichloropropene	ND<15
Carbon disulfide	ND<15	2-Chloroethyl vinyl ether	ND<15
Trichlorofluoromethane	ND<15	Bromoform	ND<15
1,1-Dichloroethene	ND<15	4-Methyl-2-Pentanone	ND<50
1,1-Dichloroethane	ND<15	2-Hexanone	ND<50
1,2-Dichloroethene (trans)	ND<15	Tetrachloroethene	ND<15
Chloroform	ND<15	1,1,2,2-Tetrachloroethane	ND<15
1,2-Dichloroethane	ND<5	Toluene	ND<15
2-Butanone	ND<100	Chlorobenzene	ND<15
1,1,1-Trichloroethane	ND<15	Ethylbenzene	ND<15
Carbon Tetrachloride	ND<15	Styrene	ND<15
Vinyl Acetate	ND<50	Total Xylenes	ND<15
Bromodichloromethane	ND<15	1,3-Dichlorobenzene	ND<15
1,2-Dichloropropane	ND<15	1,4-Dichlorobenzene	ND<15
1,2-Dichloroethene (cis)	ND<15	1,2-Dichlorobenzene	ND<15

ug/kg = part per billion (ppb)
QC DATA:

Surrogate Recoveries		QC Limits water	QC Limits soil
1,2-DCA-d4.....	104%	76-114	70-121
Toluene-d8.....	106%	88-110	81-117
Bromofluorobenzene.....	105%	86-115	74-121

comments:

Richard Srna, Ph.D.
Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO. 13086-2
CLIENT: Geraghty and Miller, Inc.

DATE RECEIVED: 05/11/92
DATE REPORTED: 05/13/92
JOB NO. RC12003

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry

SAMPLE: HL-5

Compound	ug/kg	Compound	ug/kg
Chloromethane	ND<50	Cis-1,3-Dichloropropene	ND<15
Bromomethane	ND<50	Trichloroethene	ND<15
Vinyl Chloride	ND<50	Dibromochloromethane	ND<15
Chloroethane	ND<50	1,1,2-Trichloroethane	ND<15
Methylene Chloride	ND<50	Benzene	ND<5
Acetone	ND<50	Trans-1,3-Dichloropropene	ND<15
Carbon disulfide	ND<15	2-Chloroethyl vinyl ether	ND<15
Trichlorofluoromethane	ND<15	Bromoform	ND<15
1,1-Dichloroethene	ND<15	4-Methyl-2-Pentanone	ND<50
1,1-Dichloroethane	ND<15	2-Hexanone	ND<50
1,2-Dichloroethene (trans)	ND<15	Tetrachloroethene	ND<15
Chloroform	ND<15	1,1,2,2-Tetrachloroethane	ND<15
1,2-Dichloroethane	ND<5	Toluene	ND<15
2-Butanone	ND<100	Chlorobenzene	ND<15
1,1,1-Trichloroethane	ND<15	Ethylbenzene	ND<15
Carbon Tetrachloride	ND<15	Styrene	ND<15
Vinyl Acetate	ND<50	Total Xylenes	ND<15
Bromodichloromethane	ND<15	1,3-Dichlorobenzene	ND<15
1,2-Dichloropropane	ND<15	1,4-Dichlorobenzene	ND<15
1,2-Dichloroethene (cis)	ND<15	1,2-Dichlorobenzene	ND<15

ug/kg = part per billion (ppb)
QC DATA:

Surrogate Recoveries		QC Limits water	QC Limits soil
1,2-DCA-d4.....	105%	76-114	70-121
Toluene-d8.....	105%	88-110	81-117
Bromofluorobenzene.....	100%	86-115	74-121

comments:

Richard Srna, Ph.D.
Laboratory Director

Fax -copy of Lab Report and COC to Chevron Contact: ☐ No 85683

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: Emeryville Asphalt Plant #1001067
Facility Address: 1520 Powell Street, Emeryville, CA
Consultant Project Number: RC12003
Consultant Name: Geraghty & Miller, Inc.
Address: 1050 Marina Way South, Richmond, CA 94804
Project Contact (Name): Kate McCutchen
(Phone): 415/233-3200 (Fax Number): 415/233-3204

Chevron Contact (Name): Lucia Chou
(Phone): (510) 842-9500
Laboratory Name: Superior Precision Analytical
Laboratory Release Number: 7038540
Samples Collected by (Name): CW McCutchen
Collection Date: 8 May 92
Signature: CW McCutchen

13086

Analyses To Be Performed

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Ti, Hg, Zn, Cd, Cr, Pb, Zn, Ni (ICAP or AA)	PCBs 8080				Remarks
HL-1		1	S	G	1040	—	Y		X	X			X		X	X				~~Hold all~~ 'til ~~org~~ analysis confirmed
HL-2		1	S	G	1055	—	|		|	|			|		|	|				
HL-3		1	S	G	1130	—	|		|	|			|		|	|				
HL-4		1	S	G	1530	—	|		|	|			|		|	|				
HL-5		1	S	G	1535	—	|		|	|			|		|	|				
HL-6		1		G	1705	—	|		|	|			|		|	|				
HL-7		1	W	G	1215	HCL	|		|	|			|		|	|				
HL-8		1	W	G	1215	|	|		|	|			|		|	|				
HL-9		1	W	G	1215		|		|	|			|		|	|				

~~Hold~~ off — run highlighted analyses only

Please initial: Samples stored in ice. Appropriate containers. Samples preserved. VOA's without headspace. Comments:

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
CW McCutchen	G&M Inc	1040 11 May 92	Russell Seacole	Ex IT	1040 5/11/92
Russell Seacole	Ex IT	1040 5/11/92			
			Received For Laboratory By (Signature): [illegible]		5/11/92 [illegible]

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs. (circled)
5 Days
10 Days
As Contracted

COC-3.DWG/03 91/HCH

13084

Chain of Custody and Analysis Request

Section I — page 1 of 1

Consultant: Martinez
Address: 825

Phone No.: Fax No.:
Project Manager: Robin
Alternate Contact:
Project No.: 85683 P.O. No.:

Turn Around Time (circle one)
Same Day 72 Hrs
24 Hrs 48 Hrs
Normal 5 Day

Superior Precision Analytical, Inc.
P.O. Box 1545
Martinez, California 94553
Martinez I (510) 229-1512 Martinez 2 (510) 229-0166
SanFrancisco (415) 647-2081

Sampler: Robin
Regulatory Agency:

Section II: Analysis Request

	Laboratory Sample Identification	Matrix (S = Soil A = Air W = Water)	mod 8015 - Gas	mod 8015 - BTEX	mod 8015 - Diesel	8010	8240	CAM17	TCLP Metals:	Metals:	418.1 - TPH by IR	O & G	PCBs			Date Sampled	Time Sampled	Number of Containers	Preservative (yes or no)
1	85683-4	Soil					X									5/11		1	—
2	-5	″					X									5/11		1	—
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

Sampling Remarks

- ☐ Bio-remediation
- ☐ Underground storage tank
- ☐ Monitoring
- ☐ Recent Contamination
- ☐ Unknown Compounds

48 hour Rush

Relinquished by / Organization	Date/Time	Received by / Organization	Date/Time
Relinquished by: Robin [illegible] / Organization: Superior	5/11 2:30 pm	Received by: [illegible] / Organization: Superior	5/11/92
Relinquished by: / Organization:		Received by: / Organization:	
Relinquished by: / Organization:		Received by: / Organization:	

Lab please initial the following:
Samples Stored in Ice ____
Appropriate Containers ____
Samples Preserved ____
VOAs without Headspace ____
Comments ____

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 13089
CLIENT: Geraghty & Miller Inc.
CLIENT JOB NO.: RC12003

DATE RECEIVED: 05/12/92
DATE REPORTED: 05/14/92

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
13089- 1	S-1	05/11/92	05/14/92
13089- 2	S-2	05/11/92	05/14/92
13089- 3	S-3	05/11/92	05/14/92

Laboratory Number:	13089 1	13089 2	13089 3
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)		
OIL AND GREASE:	ND<50	87	ND<50
TPH/GASOLINE RANGE:	NA	NA	NA
TPH/DIESEL RANGE:	ND<10	180*	21*
BENZENE:	NA	NA	NA
TOLUENE:	NA	NA	NA
ETHYL BENZENE:	NA	NA	NA
XYLENES:	NA	NA	NA

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 13089

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/kg = part per million (ppm)
* = Diesel range concentration. The pattern observed in the chromatogram was not typical of diesel.
OIL AND GREASE ANALYSIS By Standard Methods Method 503E:
Minimum Detection Limit in Soil: 50mg/kg

Modified EPA-SW846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 1mg/kg
Standard Reference: 01/03/92

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg
Standard Reference: 10/12/91

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg
Standard Reference: NA

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	04/02/91	5mg	114/120	5.1	50-130
Diesel	01/03/92	1000ug	103/106	2.9	64-124
Gasoline	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	NA	NA
Toluene	NA	NA	NA	NA	NA
Ethyl Benzene	NA	NA	NA	NA	NA
Total Xylene	NA	NA	NA	NA	NA

Richard Srna, Ph.D.
FOR
Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO. 13089-1
CLIENT: Geraghty and Miller

DATE RECEIVED: 05/12/92
DATE REPORTED: 05/14/92
JOB NO. RC12003

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry

SAMPLE: S-1

Compound	ug/kg	Compound	ug/kg
Chloromethane	ND<50	Cis-1,3-Dichloropropene	ND<15
Bromomethane	ND<50	Trichloroethene	ND<15
Vinyl Chloride	ND<50	Dibromochloromethane	ND<15
Chloroethane	ND<50	1,1,2-Trichloroethane	ND<15
Methylene Chloride	ND<50	Benzene	ND<5
Acetone	ND<50	Trans-1,3-Dichloropropene	ND<15
Carbon disulfide	ND<15	2-Chloroethyl vinyl ether	ND<15
Trichlorofluoromethane	ND<15	Bromoform	ND<15
1,1-Dichloroethene	ND<15	4-Methyl-2-Pentanone	ND<50
1,1-Dichloroethane	ND<15	2-Hexanone	ND<50
1,2-Dichloroethene (trans)	ND<15	Tetrachloroethene	ND<15
Chloroform	ND<15	1,1,2,2-Tetrachloroethane	ND<15
1,2-Dichloroethane	ND<5	Toluene	ND<15
2-Butanone	ND<100	Chlorobenzene	ND<15
1,1,1-Trichloroethane	ND<15	Ethylbenzene	ND<15
Carbon Tetrachloride	ND<15	Styrene	ND<15
Vinyl Acetate	ND<50	Total Xylenes	ND<15
Bromodichloromethane	ND<15	1,3-Dichlorobenzene	ND<15
1,2-Dichloropropane	ND<15	1,4-Dichlorobenzene	ND<15
1,2-Dichloroethene (cis)	ND<15	1,2-Dichlorobenzene	ND<15

ug/kg = part per billion (ppb)
QC DATA:

Surrogate Recoveries		QC Limits water	QC Limits soil
1,2-DCA-d4.....	105%	76-114	70-121
Toluene-d8.....	101%	88-110	81-117
Bromofluorobenzene.....	98%	86-115	74-121

comments:

Richard Srna, Ph.D.
Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO. 13089-2
CLIENT: Geraghty and Miller

DATE RECEIVED: 05/12/92
DATE REPORTED: 05/14/92
JOB NO. RC12003

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS
by Gas Chromatography/ Mass Spectrometry

SAMPLE: S-2

Compound	ug/kg	Compound	ug/kg
Chloromethane	ND<50	Cis-1,3-Dichloropropene	ND<15
Bromomethane	ND<50	Trichloroethene	ND<15
Vinyl Chloride	ND<50	Dibromochloromethane	ND<15
Chloroethane	ND<50	1,1,2-Trichloroethane	ND<15
Methylene Chloride	ND<50	Benzene	ND<5
Acetone	ND<50	Trans-1,3-Dichloropropene	ND<15
Carbon disulfide	ND<15	2-Chloroethyl vinyl ether	ND<15
Trichlorofluoromethane	ND<15	Bromoform	ND<15
1,1-Dichloroethene	ND<15	4-Methyl-2-Pentanone	ND<50
1,1-Dichloroethane	ND<15	2-Hexanone	ND<50
1,2-Dichloroethene (trans)	ND<15	Tetrachloroethene	ND<15
Chloroform	ND<15	1,1,2,2-Tetrachloroethane	ND<15
1,2-Dichloroethane	ND<5	Toluene	ND<15
2-Butanone	ND<100	Chlorobenzene	ND<15
1,1,1-Trichloroethane	ND<15	Ethylbenzene	ND<15
Carbon Tetrachloride	ND<15	Styrene	ND<15
Vinyl Acetate	ND<50	Total Xylenes	ND<15
Bromodichloromethane	ND<15	1,3-Dichlorobenzene	ND<15
1,2-Dichloropropane	ND<15	1,4-Dichlorobenzene	ND<15
1,2-Dichloroethene (cis)	ND<15	1,2-Dichlorobenzene	ND<15

ug/kg = part per billion (ppb)

QC DATA:

Surrogate Recoveries		QC Limits water	QC Limits soil
1,2-DCA-d4.....	105%	76-114	70-121
Toluene-d8.....	112%	88-110	81-117
Bromofluorobenzene.....	95%	86-115	74-121

comments:

Richard Srna, Ph.D.
Laboratory Director

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No   13089

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number F #1001067
Facility Address 1520 Powell St, Emeryville CA
Consultant Project Number RC12003
Consultant Name Geraghty & Miller, Inc.
Address 1050 Marina Way South, Richmond, CA 94804
Project Contact (Name) Kate McCutchen
(Phone) 415/233-3200 (Fax Number) 415/233-3204

Chevron Contact (Name) Lucia Chon
(Phone) (510)842 9500
Laboratory Name Superior Precision
Laboratory Release Number 7038540
Samples Collected by (Name) CW McCutchen
Collection Date 11 May 92
Signature CWMcCutchen

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)						Remarks
S-1		1	S	G		—	Y		X	X			X								
S-2		1	S	G	3pm	—	|		|	|			|								
S-3		1	S	G	325	—	|		|	|			|								

RUSH RUSH RUSH RUSH

Please initial: [initials]
Samples Stored in ice. Yes
Appropriate containers. Yes
Samples preserved. No
VOA's without headspace. N/A
Comments:

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Turn Around Time (Circle Choice)
CWMcCutchen	G&M Inc	12 May 92 13:40	[signature] x361	EXPRESS-IT	5/12/92 1340	24 Hrs.
[signature] at 1922 64 Ashland drive rec'd 1550	Ex-It.	5-12/1557	[signature]	Superior	5-12-92 1559	48 Hrs. (circled)
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) [signature]		5-12-92	5 Days
						10 Days
						As Contracted

COC-3.DWG/03 91/HCH