Chevron U.S.A. Inc.
2410 Camino Ramon, San Ramon, California • Phone (415) 842-9500
Mail Address. P.O. Box 5004, San Ramon, CA 94583-0804

Marketing Department

91 JUL 30 PM 12:11

July 26, 1991

Mr. Paul Smith
Alameda County Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Re: Former Chevron Station #9-4816
301 14th Street
Oakland, California

Dear Mr. Smith:

Enclosed we are forwarding the Tank Removal Observation Report dated July 24, 1991, conducted by our consultant GeoStrategies, Inc. for the above referenced site. This report documents the verification sampling performed during the removal of all above ground and subsurface improvements and subsequent remediation activities.

As indicated in the report, on February 21, 1991, all underground storage tanks and associated piping were removed. The tanks exhibited rusting and a number of holes were observed. Elevated levels of petroleum hydrocarbon contamination were detected in the soils beneath two of the former product tanks and one of the former product piping trenches. To prevent further transport of the contaminants from the soils to the groundwater, Chevron initiated a source removal approach by excavating the impacted soils in these areas to remove the elevated levels detected and to assess the magnitude and extent of the subsurface contamination. This remedial approach was initiated based on a number of site specific factors. Past boring logs revealed that the subsurface contamination was limited in extent laterally and could be mitigated by excavation and aeration. Conventional insitu soils vapor extraction would not have been effective due to the low permeable clay lithology that exists beneath the site. The initial excavation measured 42-ft by 30-ft by 14-ft deep. The enlarged excavation after over excavation measured 45-ft by 34-ft by 22.5-ft deep. Groundwater was encountered at 22.5-ft.

untrue! It's sand!

Samples collected beneath the former underground storage tanks and associated piping were analyzed for total petroleum hydrocarbons as gasoline (TPH-G), BTEX, and total lead beneath the former leaded tank only. TPH-G was detected at concentrations ranging from ND to 6,100 ppm. The highest concentrations were detected in the northern and southeastern portion of the tank excavation. These areas were overexcavated and the final samples reported non-detectable concentrations of TPH-G. Total lead reported non-detectable concentrations.

Initial sampling of the soils beneath the former product trenches detected TPH-G at concentrations ranging from ND to 7,800 ppm. Final excavation samples reported TPH-G concentrations ranging from ND to 30 ppm.

Approximately 800 cubic yards of soils were removed and aerated on-site in compliance with the Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 40, Aeration of Contaminated Soils. Initial samples collected from the soil stockpiles reported TPH-G at concentrations ranging from ND to 2,100 ppm. Confirmatory samples were collected for every 20 cubic yards from the stockpiles prior to the backfilling of the excavation with these materials. All samples reported TPH-G at concentrations of less than 10 ppm prior to utilizing the material for backfill.

Based on these findings, it appears that no unacceptable levels of hydrocarbon contamination exist beneath this site and that no further soils remediation work is warranted.

Chevron is in the process of having an aquifer pump test performed to assess hydraulic characteristics beneath the site. The information provided by this test will assist in the finalization of the groundwater treatment system design. This pump test is planned for August, 1991.

If you have any questions or comments, please do not hesitate to contact me at (415) 842-9581.

Very truly yours,
CHEVRON U.S.A. INC.

Nancy Vukelich
Environmental Engineer

Enclosures

cc: Mr. Rich Hiett, RWQCB-Bay Area
Ms. B.C. Brummett-Owen
File (9-4816A3 Listing)

GeoStrategies Inc.

TANK REMOVAL OBSERVATION REPORT

Chevron Service Station No. 4816
301 14th Street
Oakland, California

727003-7

July 24, 1991

GeoStrategies Inc.
2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545

July 24, 1991

Gettler-Ryan Inc.
2150 West Winton Avenue
Hayward, California 94545

Attn Mr. Jeff Monroe

Re TANK REMOVAL OBSERVATION REPORT
CHEVRON Service Station No. 4816
301 14th Street
Oakland, California

Gentlemen:

INTRODUCTION

This report summarizes GeoStrategies Inc. (GSI) observations at the above referenced site (Plate 1) during the recent underground storage tank (UGST) removal. Construction activities were performed by R. W. Johnston and Co. Field work presented in this report was performed between February 21 and July 17, 1991, to comply with State of California and local agency guidelines. A GSI geologist was present onsite to observe the excavation, UGST removal and to obtain soil samples from the tank excavation, product line trenches and soil stockpiles. A description of field procedures and sampling results are discussed in this report.

SITE DESCRIPTION

The site was previously occupied by a Chevron Service Station and is now abandoned. The UGST complex was located in the approximate center of the site (Plate 2). One 10,000-gallon steel fuel storage tank containing unleaded gasoline, one 10,000-gallon steel fuel storage tank containing super unleaded gasoline, and one 5,000-gallon steel fuel storage tank containing regular gasoline were removed.

FIELD EXCAVATION ACTIVITIES

The three UGSTs were removed on February 21, 1991. Tank removal was witnessed by inspectors from the City of Oakland Fire Prevention Bureau and the Alameda County Health Agency. All three tanks were pitted with the majority of the rust being on the end opposite the fill end. Both the unleaded and super unleaded tanks had a 1.5 inch in diameter hole on the bottom directly below the fill pipe. The unleaded tank also had a .75 inch by .5 inch hole on the bottom approximately 6 feet from the fill end. The regular tank had no visible holes and was moderately pitted and rusted.

The UGST excavation initially measured 40 feet by 30 feet by 14 feet deep. Upon receipt of the initial analytical results, the excavation was enlarged to 45 feet by 35 feet by 22.5 feet deep on the eastern half and 14 feet deep on the western half. Groundwater was encountered at approximately 22.5 feet. The product lines were removed at the same time as the UGSTs. Product line trenches were excavated to a depth of approximately 3 to 3.5 feet.

SOIL SAMPLING

Soil samples were collected by driving a clean stainless steel sample tube into the soil with a wooden mallet until completely full. Upon removal of the tube, both ends were covered with aluminum foil and sealed with plastic end caps. The soil samples were labeled, entered on a Chain-of-Custody form, placed in a cooler with blue ice, and transported to Superior Analytical Laboratories, Inc. in San Francisco, California.

UGST Complex

Soil samples CX-1 through CX-6 were collected from the bottom of the excavation February 21, 1991 (Plate 2). Overexcavation samples CX-7 and CX-8 were collected March 6, 1991. An excavator bucket was used to collect soil from the bottom of the excavation at a depth of approximately 14 to 15 feet below grade. The samples were collected by removing the top few inches of soil from the bucket and then pushing or hammering the sample tube into the soil until completely filled. The sample tube was then sealed, labeled, and transported as described above.

Product Line Trenches

Soil samples CT-1 through CT-5 were collected from the product line trenches February 21 and March 6, 1991 (Plate 2). These samples were collected at a depth of approximately 3 feet below grade. A sample tube was driven into the soil until completely filled. The sample tube was then sealed, labeled, and transported as described above.

Stockpiles

Excavated soils from the UGST excavation and the product line trenches were stockpiled on the southern end of the site (Plate 3). One composite sample consisting of four subsamples was collected for every 50 cubic yards of soil. Soil samples were collected by removing the top 6-12 inches of soil, pushing a sample tube into the soil until completely filled, then sealing, labeling, and transporting as described above. Approximately 800 cubic yards of soil were stockpiled, represented by samples CS-1 through CS-16.

SOIL ANALYTICAL RESULTS

Soil samples from the UGST excavation, product line trenches, and related stockpiles were analyzed for Total Petroleum Hydrocarbons calculated as Gasoline (TPH-Gasoline) according to EPA Method 8015 (modified), and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) according to EPA Method 8020. In addition, soil samples CX-5 and CX-6 from beneath the leaded gasoline tank were analyzed for Total Lead according to EPA Method 7420.

UGST Complex

TPH-Gasoline concentrations ranged from none detected (ND) to 6100 parts per million (ppm) in the initial samples (CX-1 through CX-6). The overexcavation samples (CX-7 and CX-8) were analyzed as ND. Benzene concentrations ranged from ND to 57 ppm in the initial samples. Overexcavation samples detected levels ranging from ND to .007 ppm. Chemical analytical results are summarized in Table 1.

Product Line Trenches

TPH-Gasoline concentrations ranged from ND to 7800 ppm. Benzene concentrations ranged from ND to 2.8 ppm. Chemical analytical results are summarized in Table 1.

Stockpiles

Composite soil samples from the stockpiles detected TPH-Gasoline concentrations ranging from ND to 2100 ppm. Benzene concentrations ranged from ND to 5.5 ppm. Chemical analytical results are summarized in Table 2.

SOIL AERATION

Upon receipt of the initial chemical analytical results for stockpiled soil, an allowable volume of stockpiled soil was aerated on-site by the contractor to comply with Bay Area Air Quality Management District guidelines for uncontrolled soil aeration. Soil was spread out on-site to a thickness of 1 to 2 feet and turned over with a backhoe bucket to assist in the aeration process. Upon completion of the aeration process, a soil sample was collected for every 20 cubic yards of aerated soil. The sample was then analyzed for TPH-Gasoline. If the soil concentrations were less than 10 ppm, the soil represented by that sample was used as backfill material or spread over the site. Stockpile samples CS-17 through CS-60 were collected and analyzed, representing approximately 800 cubic yards of aerated soil stockpiled on-site. No soil was removed from the site.

If you have any questions, please call.

GeoStrategies Inc. by,

Clyde J. Galantine
Geologist

David H. Peterson
C.E.G. 1186

REGISTERED GEOLOGIST
DAVID H. PETERSON
No. 1186
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

CJG/DHP/mlg

Plate 1. Vicinity Map
Plate 2. Site Plan
Plate 3. Soil Sample and Stockpile Location Map

Appendix A: Soil Analytical Reports

QC Review:

TABLE 1

SOIL ANALYTICAL DATA
(Excavation and Trench)

SAMPLE NO	DEPTH (FT)	SAMPLE DATE	ANALYSIS DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)	TOTAL LEAD (PPM)
CX-1B	14	21-Feb-91	25-Feb-91	6100	57	440	120	740	----
CX-2B	15	21-Feb-91	25-Feb-91	2100	16	180	54.	310	----
CX-3B	14	21-Feb-91	25-Feb-91	<1	.049	.055	.006	.040	----
CX-4B	15	21-Feb-91	25-Feb-91	4600	14	130	77	140	----
CX-5B	15	21-Feb-91	25-Feb-91	<1	<.005	.008	<.005	.006	<10
CX-6B	15	21-Feb-91	25-Feb-91	<1	<.005	.008	<.005	.006	<10
CT-1	3	21-Feb-91	25-Feb-91	7800	2.8	140	150	1200	----
CT-2	3.5	21-Feb-91	25-Feb-91	30	<.015	.017	.11	.33	----
CT-3	3	21-Feb-91	25-Feb-91	<1	<.005	.005	<.005	.005	----
CT-4	3	21-Feb-91	25-Feb-91	<1	<.005	.011	<.005	.011	----

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline
PPM = Parts Per Million
CX = Excavation Sample
CT = Trench Sample
S = Sidewall
B = Bottom

TABLE 1

SOIL ANALYTICAL DATA
(Excavation and Trench)

SAMPLE NO	DEPTH (FT)	SAMPLE DATE	ANALYSIS DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)	TOTAL LEAD (PPM)
CT-5	3	06-Mar-91	13-Mar-91	<1	<.005	<.005	<.005	.007	----
CX-7S	15	06-Mar-91	12-Mar-91	<1	<.005	<.005	<.005	<.005	----
CX-8S	15	06-Mar-91	12-Mar-91	<1	.007	.007	<.005	.007	----

overex UST complex (see p. 3)

TABLE 2

SOIL ANALYTICAL DATA (STOCKPILE)

SAMPLE NO.	SAMPLE DATE	ANALYSIS DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)
CS-1 A-D	06-Mar-91	13-Mar-91	2	<.005	008	.005	.025
CS-2 A-D	06-Mar-91	13-Mar-91	52	<.005	.070	.094	5.0
CS-3 A-D	06-Mar-91	13-Mar-91	<1	<.005	.005	<.005	.010
CS-4 A-D	06-Mar-91	13-Mar-91	340	<.030	.36	.35	26
CS-5 A-D	06-Mar-91	13-Mar-91	410	<.075	.32	.084	36
CS-6 A-D	06-Mar-91	13-Mar-91	260	<.075	.38	.25	26
CS-7 A-D	06-Mar-91	13-Mar-91	180	<.015	.16	.16	9.2
CS-8 A-D	06-Mar-91	13-Mar-91	170	<.015	.21	.20	11
CS-9 A-D	06-Mar-91	13-Mar-91	190	.16	1.9	0.89	15
CS-10 A-D	06-Mar-91	13-Mar-91	1000	1.9	33	13	96
CS-11 A-D	06-Mar-91	13-Mar-91	51	<.008	.067	.066	1.8
CS-12 A-D	06-Mar-91	13-Mar-91	200	<.030	.23	.30	9.2

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline
PPM = Parts Per Million
CS = Stockpile Sample

TABLE 2

SOIL ANALYTICAL DATA (STOCKPILE)

SAMPLE NO.	SAMPLE DATE	ANALYSIS DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)
CS-13 A-D	06-Mar-91	13-Mar-91	270	.26	2.5	1.4	18
CS-14 A-D	06-Mar-91	13-Mar-91	130	.11	.50	.15	8.1
CS-15 A-D	06-Mar-91	13-Mar-91	2100	5.5	61	28	190
CS-16 A-D	06-Mar-91	13-Mar-91	490	1.2	13	5.2	41
CS-17	13-Jun-91	13-Jun-91	<1	<0.005	<0.005	<0.005	0.011
CS-18	13-Jun-91	13-Jun-91	<1	<0.005	<0.005	<0.005	<0.005
CS-19	13-Jun-91	13-Jun-91	<1	<0.005	<0.005	<0.005	<0.005
CS-20	13-Jun-91	13-Jun-91	<1	<0.005	<0.005	<0.005	<0.005
CS-21	13-Jun-91	14-Jun-91	<1	<0.005	0.018	<0.005	<0.005
CS-22	13-Jun-91	14-Jun-91	<1	<0.005	0.012	<0.005	0.007
CS-23	13-Jun-91	14-Jun-91	<1	<0.005	0.013	<0.005	<0.005
CS-24	13-Jun-91	14-Jun-91	<1	<0.005	<0.005	<0.005	0.008
CS-25	21-Jun-91	24-Jun-91	4	<.005	<.005	<.005	<.005
CS-26	21-Jun-91	24-Jun-91	<1	0.006	<.005	0.005	0.015
CS-27	21-Jun-91	24-Jun-91	8	0.011	0.030	0.007	0.32

stockpile

TABLE 2

SOIL ANALYTICAL DATA (STOCKPILE)

SAMPLE NO.	SAMPLE DATE	ANALYSIS DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)
CS-28	21-Jun-91	24-Jun-91	<1	<.005	<.005	<.005	<.005
CS-29	27-Jun-91	27-Jun-91	<1	<.005	<.005	<.005	<.005
CS-30	27-Jun-91	27-Jun-91	27	<.030	0.05	<.030	0.3
CS-31	27-Jun-91	27-Jun-91	1	<.005	<.005	<.005	<.005
CS-32	27-Jun-91	27-Jun-91	<1	<.005	<.005	<.005	<.005
CS-33	27-Jun-91	27-Jun-91	<1	<.005	<.005	<.005	<.005
CS-34	27-Jun-91	27-Jun-91	80	<.030	0.091	0.057	3.9
CS-35	27-Jun-91	27-Jun-91	7	<.005	<.005	<.005	0.009
CS-36	27-Jun-91	27-Jun-91	2	<.005	<.005	<.005	<.005
CS-37	27-Jun-91	27-Jun-91	<1	<.005	<.005	<.005	0.014
CS-38	08-Jul-91	08-Jul-91	<1	<.005	<.005	<.005	<.005
CS-39	08-Jul-91	08-Jul-91	10	<.005	<.005	<.005	0.010
CS-40	08-Jul-91	08-Jul-91	6	<.005	<.005	<.005	0.005
CS-41	08-Jul-91	08-Jul-91	1	<.005	<.005	<.005	0.005
CS-42	08-Jul-91	08-Jul-91	360	<0.3	0.78	1.3	26

Stockpile

TABLE 2

SOIL ANALYTICAL DATA (STOCKPILE)

SAMPLE NO.	SAMPLE DATE	ANALYSIS DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)
CS-43	08-Jul-91	08-Jul-91	7	<.005	<.005	<.005	0.008
CS-44	08-Jul-91	08-Jul-91	150	<.030	0.24	0.32	6.1
CS-45	08-Jul-91	08-Jul-91	110	<.030	<.030	<.030	2.8
CS-46	08-Jul-91	08-Jul-91	29	<.005	0.012	<.005	0.035
CS-47	08-Jul-91	08-Jul-91	39	<.030	<.030	<.030	1.9
CS-48	08-Jul-91	08-Jul-91	44	<.005	0.007	<.005	0.95
CS-49	08-Jul-91	08-Jul-91	<1	<.005	<.005	<.005	<.005
CS-50	08-Jul-91	08-Jul-91	34	<.005	0.008	<.005	1.0
CS-51	08-Jul-91	08-Jul-91	<1	<.005	<.005	<.005	<.005
CS-52	08-Jul-91	08-Jul-91	46	<.005	0.011	<.005	3.1
CS-53	17-Jul-91	17-Jul-91	<1	<.005	<.005	<.005	<.005
CS-54	17-Jul-91	18-Jul-91	<1	<.005	<.005	<.005	<.005
CS-55	17-Jul-91	17-Jul-91	2	<.005	<.005	<.005	.010
CS-56	17-Jul-91	17-Jul-91	<1	<.005	<.005	<.005	<.005
CS-57	17-Jul-91	17-Jul-91	<1	<.005	<.005	<.005	<.005

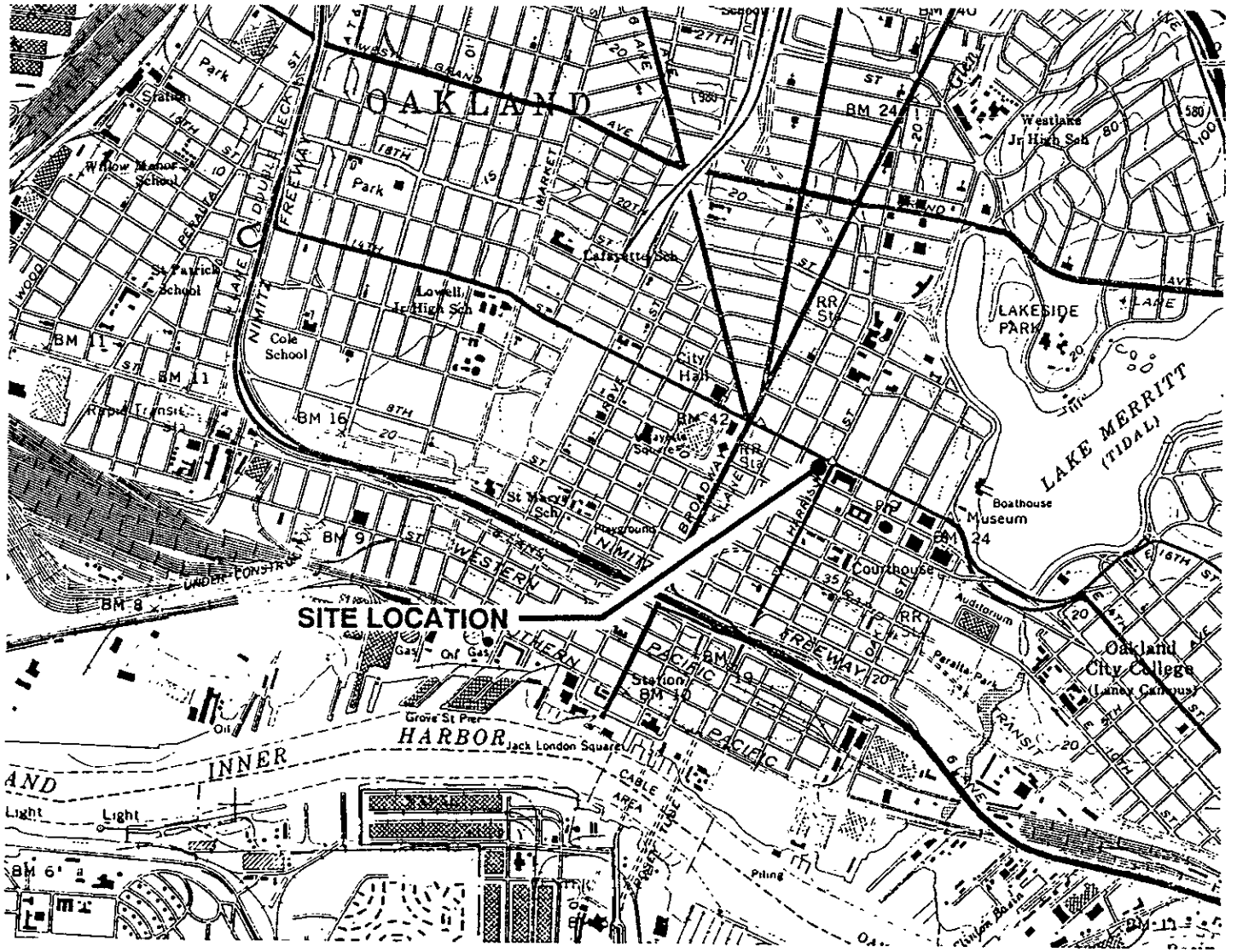
TABLE 2

SOIL ANALYTICAL DATA (STOCKPILE)

SAMPLE NO.	SAMPLE DATE	ANALYSIS DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)
CS-58	17-Jul-91	18-Jul-91	<1	<.005	<.005	<.005	<.005
CS-59	17-Jul-91	17-Jul-91	<1	<.005	<.005	<.005	<.005
CS-60	17-Jul-91	17-Jul-91	<1	<.005	<.005	<.005	<.005

Stockpile

ILLUSTRATIONS



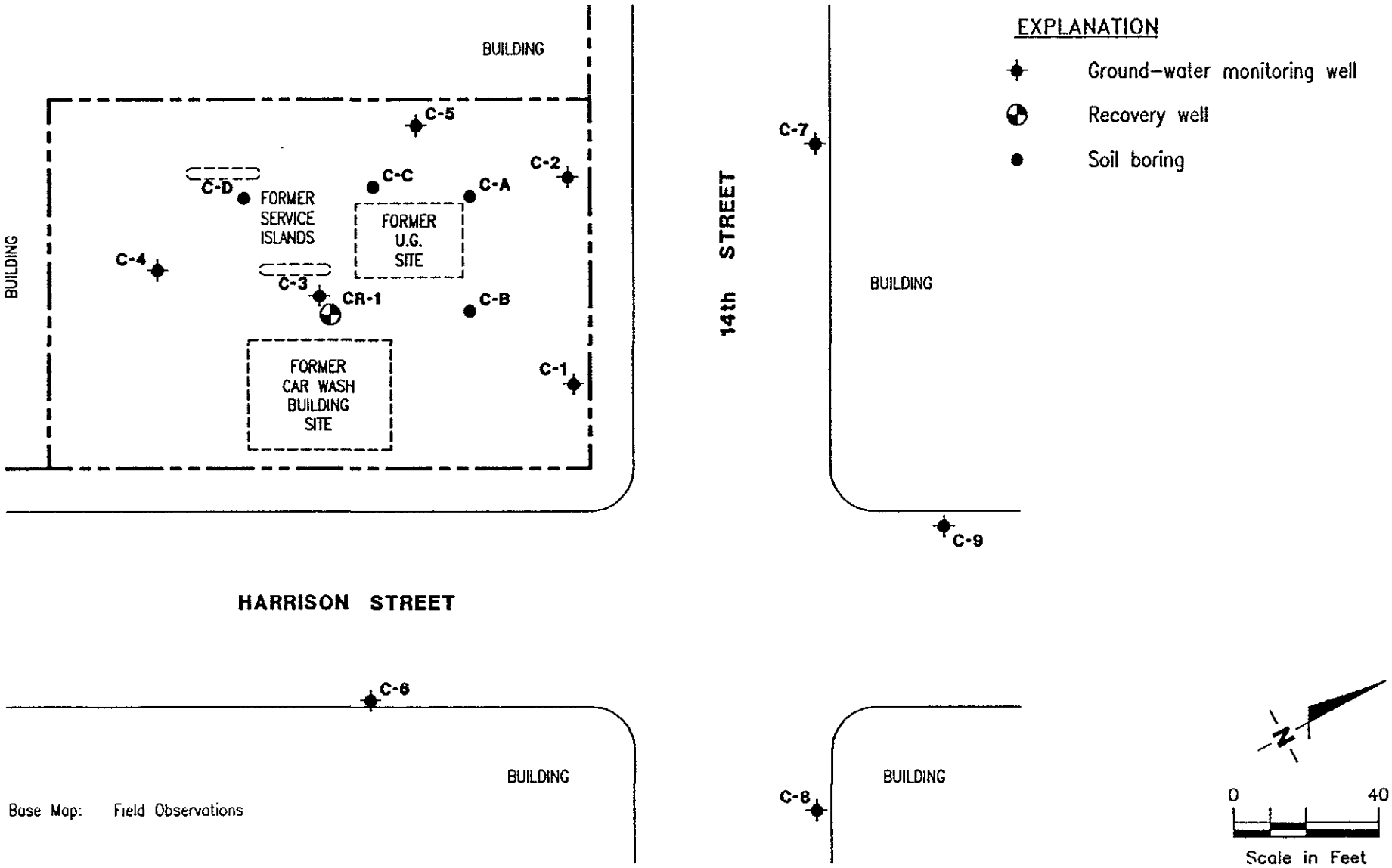
Base Map: USGS Topographic Map

GeoStrategies Inc.

VICINITY MAP
Former Chevron Service Station #4816
301 14th Street
Oakland, California

PLATE 1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
7270		11/90	



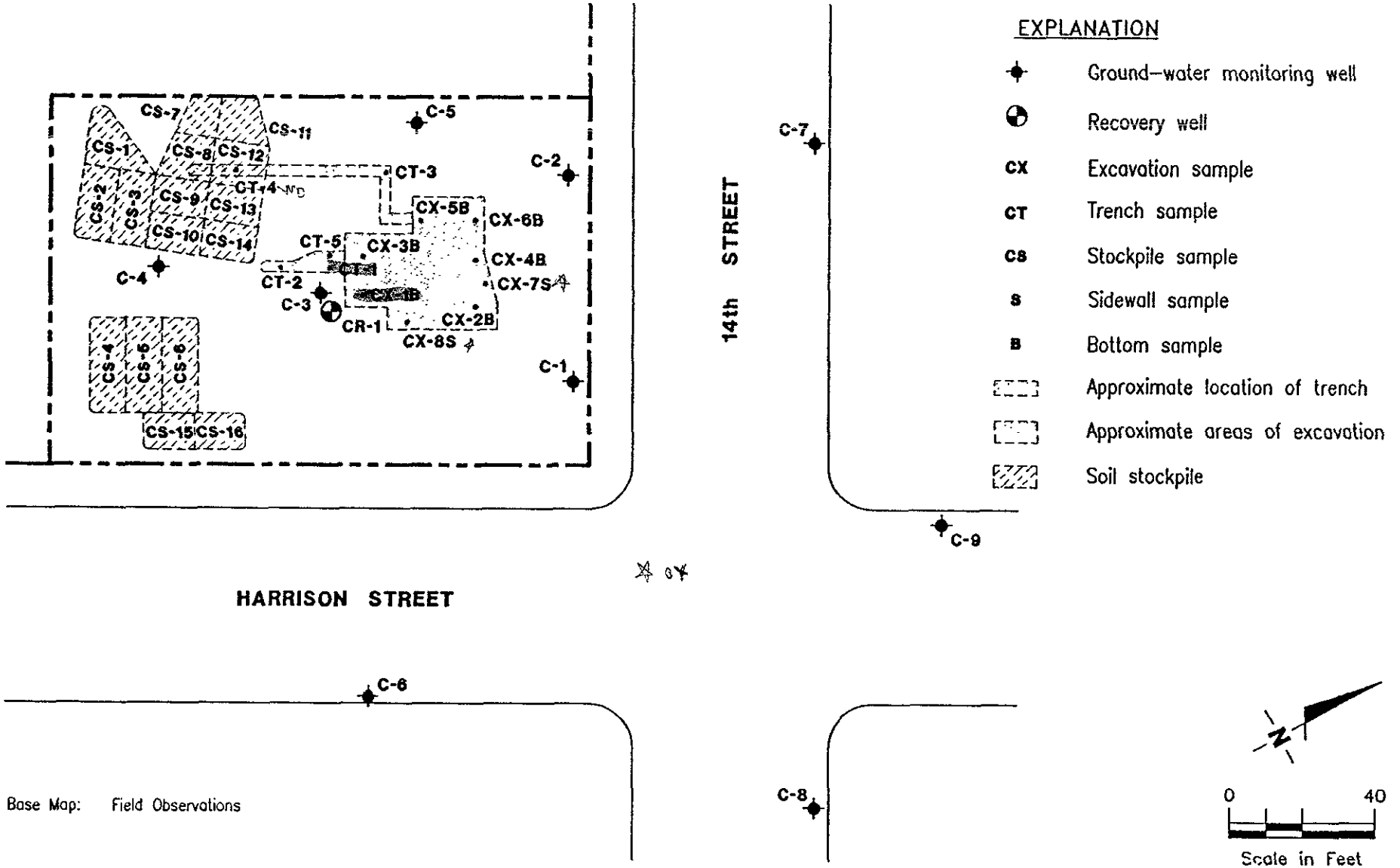
Base Map: Field Observations

GeoStrategies Inc.

SITE PLAN
Former Chevron Service Station #4816
301 14th Street
Oakland, California

PLATE 2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
727003-7	RSY	7/91	



Base Map: Field Observations

GeoStrategies Inc.

SOIL SAMPLING AND STOCKPILE MAP
Former Chevron Service Station #4816
301 14th Street
Oakland, California

PLATE 3

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
727003-7	KSY	7/91	

APPENDIX A
SOIL ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS

SUPERIOR ANALYTICAL LABORATORIES, INC.
825 ARNOLD, STE. 114 • MARTINEZ, CALIFORNIA 94553 • (415) 229-1512
DOHS #319
DOHS #220

GETTLER-RYAN INC.
GENERAL CONTRACTORS

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 82523
CLIENT: Gettler Ryan Cc.
CLIENT JOB NO.: 7270-03

DATE RECEIVED: 02/22/91
DATE REPORTED: 02/26/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
82523- 1	CX-1B	02/21/91	02/25/91
82523- 2	CX-2B	02/21/91	02/25/91
82523- 3	CX-3B	02/21/91	02/25/91
82523- 4	CX-4B	02/21/91	02/25/91
82523- 5	CX-5B	02/21/91	02/25/91
82523- 6	CX-6B	02/21/91	02/25/91
82523- 7	CT-1	02/21/91	02/25/91
82523- 8	CT-2	02/21/91	02/25/91
82523- 9	CT-3	02/21/91	02/25/91
82523-10	CT-4	02/21/91	02/25/91

Laboratory Number:	82523 1	82523 2	82523 3	82523 4	82523 5
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	6100	2100	ND<1	4900	ND<1
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	57	16	0.049	14	ND<.005
TOLUENE:	440	180	0.055	130	0.009
ETHYL BENZENE:	120	54	0.006	77	ND<.005
XYLENES:	740	310	0.040	140	0.006

Laboratory Number:	82523 6	82523 7	82523 8	82523 9	82523 10
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<1	7800	30	ND<1	ND<1
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.005	2.8	ND<.015	ND<.005	ND<.005
TOLUENE:	0.008	140	0.017	0.005	0.011
ETHYL BENZENE:	ND<.005	150	0.11	ND<.005	ND<.005
XYLENES:	0.006	1200	0.33	0.005	0.011

SUPERIOR ANALYTICAL LABORATORIES, INC.
825 ARNOLD, STE. 114 • MARTINEZ, CALIFORNIA 94553 • (415) 229-1512
DOHS #319
DOHS #220

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 82523

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

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: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg
Standard Reference: 10/25/90

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg
Standard Reference: 01/28/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	10/25/90	200 ng	101	2	70-130
Benzene	01/28/91	200 ng	98	9	70-130
Toluene	01/28/91	200 ng	109	0	70-130
Ethyl Benzene	01/28/91	200 ng	112	0	70-130
Total Xylene	01/28/91	200 ng	108	14	70-130

Richard Srna, Ph.D.
Laboratory Director

OUTSTANDING QUALITY AND SERVICE

SUPERIOR ANALYTICAL LABORATORIES, INC.
825 ARNOLD, STE. 114 • MARTINEZ, CALIFORNIA 94553 • (415) 229-1512
DOHS #319
DOHS #220

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 82523
CLIENT: Gettler Ryan Co.
CLIENT JOB NO.: 7270-03

DATE RECEIVED: 02/22/91
DATE REPORTED: 02/25/91

ANALYSIS FOR TOTAL LEAD
by SW-846 Method 7420

LAB #	Sample Identification	Concentration(mg/Kg) Total Lead
5	CX-5B	ND<10
6	CX-6B	ND<10

mg/kg - parts per million (ppm)

Method Detection Limit for Lead in Soil: 10 mg/Kg

QAQC Summary: MS/MSD Average Recovery : 96%
Duplicate RPD : 4

Richard Srna, Ph.D.
Laboratory Manager

82523 Chain-of-Custody-Recor

inc.
5004
...inon, CA 94583
...AX (415)842-9591

Chevron Facility Number 4816
Facility Address 301 14th St Oakland
Consultant Project Number 7270.03
Consultant Name Gettler Ryan
Address 2150 W Winton Hayward
Project Contact (Name) Jeff Monroe
(Phone) 352-4800 (Fax Number) 783-1089

Chevron Contact (Name) Nancy Vukelich
(Phone)
Laboratory Name Superior Analytical
Laboratory Release Number
Samples Collected by (Name) Clyde Galantine
Collection Date 2-21-91
Signature Clyde Galantine

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)	Chlorinated HC (8010)	Non Chlorinated HC (8020)	Total Lead (AA)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)						Remarks
CX-1B	1	S	G	3:30		Y	↓												
CX-2B	1	↓	↓	4:00		↓	↓												
CX-3B	1	↓	↓	3:40		↓	↓												
CX-4B	1	↓	↓	3:55		↓	↓												
CX-5B	1	↓	↓	3:45		↓	↓												
CX-6B	1	↓	↓	3:50		↓	↓					X							
CT-1	1	↓	↓	4:50		↓	↓					X							
CT-2	1	↓	↓	4:55		↓	↓												
CT-3	1	↓	↓	5:05		↓	↓												
CT-4	1	↓	↓	5:15		↓	↓												

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Clyde Galantine	GSI	2-22-91/9:00	[signature]	G/R	2-22-91 906
[signature]	G/R	2-22-91 1140			
			Received For Laboratory By (Signature) [signature]		[illegible]

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

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT I · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 11599
CLIENT: Chevron USA
CLIENT JOB NO.: 7270.03

DATE RECEIVED: 03/08/91
DATE REPORTED: 03/12/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyz
11599- 1	CX-7S	03/06/91	03/12/
11599- 2	CX-8S	03/06/91	03/12/

Laboratory Number:	11599 1	11599 2
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)	
OIL AND GREASE:	NA	NA
TPH/GASOLINE RANGE:	ND<1	ND<1
TPH/DIESEL RANGE:	NA	NA
BENZENE:	ND<.005	0.007
TOLUENE:	ND<.005	0.007
ETHYL BENZENE:	ND<.005	ND<.005
XYLENES:	ND<.005	0.007

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081 DOHS #1332

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: 11599

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

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: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg
Standard Reference: 08/24/90

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg
Standard Reference: 01/28/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMI
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	08/24/90	200ng	87/89	3	58-120
Benzene	01/28/91	200ng	106/104	2	65-121
Toluene	01/28/91	200ng	102/102	0	65-120
Ethyl Benzene	01/28/91	200ng	107/109	2	65-122
Total Xylene	01/28/91	600ng	108/110	2	65-122

Richard Srna, Ph.D.
Laboratory Director

SA # 11599.

Chain-of-Custody-Recor

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

Chevron Facility Number: 4816
Facility Address: 301 14th St Oakland
Consultant Project Number: 7270.03
Consultant Name: Gettler Ryan
Address: 2150 W Winton St Hayward
Project Contact (Name): Jeff Monroe
(Phone): 352-4800 (Fax Number): 783-1089

Chevron Contact (Name): Nancy Vukelich
(Phone):
Laboratory Name: Superior
Laboratory Release Number: 3523000
Samples Collected by (Name): Clyde Galantine
Collection Date: 3-6-91
Signature: Clyde Galantine

Analyses To Be Performed

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)	Chlorinated HC (8010)	Non Chlorinated HC (8020)	Total Lead (AA)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)						Remarks
CX-7S	1	S	G	9:40		X	X												
CX-8S	1	S	G	2:25		X	X												

[illegible]
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	Turn Around Time (Circle Choice)
Clyde Galantine	GSI	3-8-91/1610	Frank Stewart	Ex-[illegible]	3/8/91, 1600	24 Hrs.
Frank Stewart	Ex-IT	3-8-91, 1730	Ken [illegible]	Ex-IT	3/08 1810	(48 Hrs.)
						5 Days

SUPERIOR ANALYTICAL LABORATORIES, INC.
825 ARNOLD, STE. 114 • MARTINEZ, CALIFORNIA 94553 • (415) 229-1512

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 82633
CLIENT: Gettler Ryan Co.
CLIENT JOB NO.: 7270.03

DATE RECEIVED: 03/11/91
DATE REPORTED: 03/14/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
82633- 1	CS-1A,B,C,D	03/06/91	03/13/91
82633- 2	CS-2A,B,C,D	03/06/91	03/13/91
82633- 3	CS-3A,B,C,D	03/06/91	03/13/91
82633- 4	CS-4A,B,C,D	03/06/91	03/13/91
82633- 5	CS-5A,B,C,D	03/06/91	03/13/91
82633- 6	CS-6A,B,C,D	03/06/91	03/13/91
82633- 7	CS-7A,B,C,D	03/06/91	03/13/91
82633- 8	CS-8A,B,C,D	03/06/91	03/13/91
82633- 9	CS-9A,B,C,D	03/06/91	03/13/91
82633-10	CS-10A,B,C,D,	03/06/91	03/13/91

Laboratory Number:	82633 1	82633 2	82633 3	82633 4	82633 5
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	2	52	ND<1	340	410
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.005	ND<.005	ND<.005	ND<.030	ND<.075
TOLUENE:	0.008	0.070	ND<.005	0.36	0.32
ETHYL BENZENE:	0.005	0.094	ND<.005	0.35	0.084
XYLENES:	0.025	5.0	0.010	26	36

Laboratory Number:	82633 6	82633 7	82633 8	82633 9	82633 10
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	260	180	170	190	1000
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.075	ND<.015	ND<.015	0.16	1.9
TOLUENE:	0.38	0.16	0.21	1.9	33
ETHYL BENZENE:	0.25	0.16	0.20	0.89	13
XYLENES:	26	9.2	11	15	96

SUPERIOR ANALYTICAL LABORATORIES, INC.
825 ARNOLD, STE. 114 • MARTINEZ, CALIFORNIA 94553 • (415) 229-1512
DOHS #319
DOHS #220

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 82633
CLIENT: Gettler Ryan Co.
CLIENT JOB NO.: 7270.03

DATE RECEIVED: 03/11/91
DATE REPORTED: 03/14/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
82633-11	CS-11A,B,C,D,	03/06/91	03/13/91
82633-12	CS-12A,B,C,D,	03/06/91	03/13/91
82633-13	CS-13A,B,C,D,	03/06/91	03/13/91
82633-14	CS-14A,B,C,D,	03/06/91	03/13/91
82633-15	CS-15A,B,C,D,	03/06/91	03/13/91
82633-16	CS-16A,B,C,D,	03/06/91	03/13/91
82633-17	CT-5	03/06/91	03/13/91

Laboratory Number:	82633 11	82633 12	82633 13	82633 14	82633 15
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	51	200	270	130	2100
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.008	ND<.030	0.26	0.11	5.5
TOLUENE:	0.067	0.23	2.5	0.50	61
ETHYL BENZENE:	0.066	0.30	1.4	0.15	28
XYLENES:	1.8	9.2	18	8.1	190

Laboratory Number:	82633 16	82633 17
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)	
OIL AND GREASE:	NA	NA
TPH/GASOLINE RANGE:	490	NA
TPH/DIESEL RANGE:	NA	NA
BENZENE:	1.2	NA
TOLUENE:	13	NA
ETHYL BENZENE:	5.2	NA
XYLENES:	41	NA

SUPERIOR ANALYTICAL LABORATORIES, INC.

825 ARNOLD, STE. 114 • MARTINEZ, CALIFORNIA 94553 • (415) 229-1512

DOHS #319
DOHS #220

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 82633

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

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: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg
Standard Reference: 10/25/90

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg
Standard Reference: 02/27/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	10/25/90	200 ng	97	6	70-130
Benzene	02/27/91	200 ng	89	1	70-130
Toluene	02/27/91	200 ng	96	3	70-130
Ethyl Benzene	02/27/91	200 ng	98	2	70-130
Total Xylene	02/27/91	200 ng	102	3	70-130

Richard Srna, Ph.D.
Laboratory Director

OUTSTANDING QUALITY AND SERVICE

Chain of Custody Record

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

Chevron Facility Number: 4816
Facility Address: 301 14th St Oakland (Harrison St)
Consultant Project Number: 7270.03
Consultant Name: Getter Ryan
Address: 2150 W Winton Hayward
Project Contact (Name): Jeff Monroe
(Phone): 352-4800 (Fax Number): 783-1089

Chevron Contact (Name): Nancy Vukelich
(Phone):
Laboratory Name: Superior
Laboratory Release Number: 352300
Samples Collected by (Name): Clyde Galantine
Collection Date: 3-6-91
Signature: Clyde Galantine

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)	Chlorinated HC (8010)	Non Chlorinated HC (8020)	Total Lead (AA)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)						Remarks
CS-1A→D	4	S	CG	11:00		Y	X												Composite Everything
CS-2A→D				11:15			X												
CS-3A→D				11:30			X												
CS-4A→D				12:10			X												
CS-5A→D				12:30			X												
CS-6A→D				1:00			X												
CS-7A→D				1:30			X												
CS-8A→D				1:45			X												
CS-9A→D				1:55			X												
CS-10A→D				4:10			X												
CS-11A→D				4:25			X												
CS-12A→D				5:00			X												
CS-13A→D				5:15			X												
CS-14A→D	↓	↓	↓	5:25		↓	X												

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Clyde Galantine	CSL	3-7-91/17:45			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
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

82633

Chain-of-Custody-Record

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

Chevron Facility Number: 4816
Facility Address: 301 14th St Oakland
Consultant Project Number: 7270.03
Consultant Name: Gettler Ryan
Address: 2150 W Winton
Project Contact (Name): Jeff Monroe
(Phone): 352-4800 (Fax Number): 783-1089

Chevron Contact (Name): Nancy Vukelich
(Phone):
Laboratory Name: Superior
Laboratory Release Number: 352 3000
Samples Collected by (Name): Clyde Galantine
Collection Date: 3-6-91
Signature: Clyde Galantine

Analyses To Be Performed

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)	Chlorinated HC (8010)	Non Chlorinated HC (8020)	Total Lead (AA)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)						Remarks
CS-15A→D	4	S	C6	5:45		Y	X												Composite every thing
CS-16A→D	4	S	C6	6:00		Y	X												
CT-5	1	S	G	11:00															

Initials: [illegible]
Samples Stored in Ice: ✓
Appropriate containers: [illegible]
Samples preserved: [illegible]
VOAs without headspace:
Comments:

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Clyde Galantine	GSI	3-7-91/17:49			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Recieved For Laboratory By (Signature)		Date/Time
			[illegible signature]		[illegible]

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

SUPERIOR ANALYTICAL LABORATORIES, INC.

825 ARNOLD, STE. 114 • MARTINEZ, CALIFORNIA 94553 • (415) 229-1512

DOHS #319
DOHS #220

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 82767
CLIENT: Gettler Ryan Co.
CLIENT JOB NO.: 7270.03

DATE RECEIVED: 03/15/91
DATE REPORTED: 03/29/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
82767- 1	CT-5	03/06/91	03/21/91

Laboratory Number: 82767
1

ANALYTE LIST	Amounts/Quantitation Limits (mg/Kg)
OIL AND GREASE:	NA
TPH/GASOLINE RANGE:	ND<1
TPH/DIESEL RANGE:	NA
BENZENE:	ND<.005
TOLUENE:	ND<.005
ETHYL BENZENE:	ND<.005
XYLENES:	0.007

SUPERIOR ANALYTICAL LABORATORIES, INC.

825 ARNOLD, STE. 114 • MARTINEZ, CALIFORNIA 94553 • (415) 229-1512

DOHS #319
DOHS #220

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 82767

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

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: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg
Standard Reference: 10/25/90

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg
Standard Reference: 02/26/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	10/25/90	200 ng	95	0	70-130
Benzene	02/26/91	200 ng	87	2	70-130
Toluene	02/26/91	200 ng	83	2	70-130
Ethyl Benzene	02/26/91	200 ng	86	3	70-130
Total Xylene	02/26/91	200 ng	91	3	70-130

Richard Srna, Ph.D.
Laboratory Director

OUTSTANDING QUALITY AND SERVICE

evron U.S.A. Inc.
O. BOX 5004
Ramon, CA 94583
X (415)842-9591

Chevron Facility Number 4816
Facility Address 301 14th St Oakland
Consultant Project Number 7270.03
Consultant Name Getter-Ryan
Address 2150 W. Winton
Project Contact (Name) Jeff Monroe
(Phone) 352-4800 (Fax Number) 783-1089

Chevron Contact (Name) Nancy Vukelich
(Phone)
Laboratory Name Superior
Laboratory Release Number 3523000
Samples Collected by (Name) Clyde Delantone
Collection Date 3-6-91
Signature Clyde Delante

Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Chlorinated HC (8010)	Non Chlorinated HC (8020)	Total Lead (AA)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	Remarks
T-5	1	S	G			X	X							

OLD - 308
TO
82683-17

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Clyde Delante	GSL	3-5-91 15:45 3:45			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
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

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE UNIT I · SAN FRANCISCO CA 94124 · PHONE (415) 647-2081 DOHS #1332

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 11960
CLIENT: Chevron, USA
CLIENT JOB NO.: 7270.03

DATE RECEIVED: 06/13/91
DATE REPORTED: 06/17/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
11960- 1	CS-17	06/13/91	06/13/91
11960- 2	CS-18	06/13/91	06/13/91
11960- 3	CS-19	06/13/91	06/13/91
11960- 4	CS-20	06/13/91	06/13/91
11960- 5	CS-21	06/13/91	06/14/91
11960- 6	CS-22	06/13/91	06/14/91
11960- 7	CS-23	06/13/91	06/14/91
11960- 8	CS-24	06/13/91	06/13/91

Laboratory Number:	11960 1	11960 2	11960 3	11960 4	11960 5
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<1	ND<1	ND<1	ND<1	ND<1
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
TOLUENE:	ND<.005	ND<.005	ND<.005	ND<.005	0.018
ETHYL BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
XYLENES:	0.011	ND<.005	ND<.005	ND<.005	ND<.005

Laboratory Number:	11960 6	11960 7	11960 8
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)		
OIL AND GREASE:	NA	NA	NA
TPH/GASOLINE RANGE:	ND<1	ND<1	ND<1
TPH/DIESEL RANGE:	NA	NA	NA
BENZENE:	ND<.005	ND<.005	ND<.005
TOLUENE:	0.012	0.013	ND<.005
ETHYL BENZENE:	ND<.005	ND<.005	ND<.005
XYLENES:	0.007	ND<.005	0.008

SUPERIOR ANALYTICAL LABORATORY, INC.

1555 BURKE, UNIT I • SAN FRANCISCO CA 94124 • PHONE (415) 647-2081 DOHS #1332

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 11960

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

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: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg
Standard Reference: 08/24/90

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg
Standard Reference: 04/09/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	08/24/90	200ng	81/81	0.0	58-120
Benzene	04/09/91	200ng	106/106	0.5	65-121
Toluene	04/09/91	200ng	105/106	0.5	65-120
Ethyl Benzene	04/09/91	200ng	97/99	1.5	65-122
Total Xylene	04/09/91	600ng	94/96	2.5	65-122

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

Chain of Custody Record

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

Chevron Facility Number 4816
Facility Address
Consultant Project Number 7270.03
Consultant Name Gettler-Ryan
Address 2150 W Winton
Project Contact (Name) Jeff Monroe
(Phone) 352-4800 (Fax Number) 783-1089

Chevron Contact (Name)
(Phone)
Laboratory Name Superior
Laboratory Release Number 352 3000
Samples Collected by (Name) Clyde Galantine
Collection Date 6-13-91
Signature Clyde Galantine

48 TAT

Analyses To Be Performed

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)	Chlorinated HC (8010)	Non Chlorinated HC (8020)	Total Lead (AA)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)						Remarks
CS-17		S	G	11:50		Y	X												
CS-18		↓	↓	11:55		↓	↓												
CS-19		↓	↓	11:58		↓	↓												
CS-20		↓	↓	12:00		↓	↓												
CS-21		↓	↓	12:02		↓	↓												
CS-22		↓	↓	12:05		↓	↓												
CS-23		↓	↓	12:08		↓	↓												
CS-24		↓	↓	12:10		↓	↓												

Stamp:
Storage conditions: ... OK
Samples stored in ice.
Samples in appropriate containers. ✓
Samples preserved. NA
VOA's without headspace. NA
Comments: 36, CS

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Clyde Galantine	GSI	6-13-91/12:47			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Recieved For Laboratory By (Signature)		Date/Time
			[signature] JPC	6/13/91	12:45

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

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081 DOHS #1332

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 12004

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

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: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg
Standard Reference: 08/24/90

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg
Standard Reference: 04/09/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	08/24/90	200ng	95/93	0.9	58-120
Benzene	04/09/91	200ng	108/104	1.9	65-121
Toluene	04/09/91	200ng	103/101	2.0	65-120
Ethyl Benzene	04/09/91	200ng	103/101	1.5	65-122
Total Xylene	04/09/91	600ng	105/104	1.4	65-122

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

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKL., UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081 DOHS #1332

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 12004
CLIENT: Chevron, USA
CLIENT JOB NO.: 7270.03

DATE RECEIVED: 06/21/91
DATE REPORTED: 06/25/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
12004- 1	CS-25	06/21/91	06/24/91
12004- 2	CS-26	06/21/91	06/24/91
12004- 3	CS-27	06/21/91	06/24/91
12004- 4	CS-28	06/21/91	06/24/91

Laboratory Number:	12004 1	12004 2	12004 3	12004 4
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)			
OIL AND GREASE:	NA	NA	NA	NA
TPH/GASOLINE RANGE:	4	ND<1	8	ND<1
TPH/DIESEL RANGE:	NA	NA	NA	NA
BENZENE:	ND<.005	0.006	0.011	ND<.005
TOLUENE:	ND<.005	ND<.005	0.030	ND<.005
ETHYL BENZENE:	ND<.005	0.005	0.007	ND<.005
XYLENES:	ND<.005	0.015	0.32	ND<.005

ron U.S.A. Inc.
. BOX 5004
Ramon, CA 94583
(415)842-9591

Facility Address 301 14th St Oakland
Consultant Project Number 7270.03
Consultant Name Gettler-Ryan
Address 2150 (W) Winton Hayward
Project Contact (Name) Jeff Monroe
(Phone) 352-4800 (Fax Number) 783-1089

Contact (Name) [illegible]
(Phone)
Laboratory Name Superior
Laboratory Release Number 3523000
Samples Collected by (Name) Clyde Galantine
Collection Date 6-21-91
Signature Clyde Galantine

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)	Chlorinated HC (8010)	Non Chlorinated HC (8020)	Total Lead (AA)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)						Remarks
-25	1	S	G	12:30		Y	X												
-26	1	S	G	12:35			X												
-27	1	S	G	12:40			X												
-28	1	S	G	12:45			X												

Analyses To Be Performed

RUSH

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Clyde Galantine	GSI	6-21 / 3:46	Margie Mitchell	[illegible]	6/21 3:48
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
			[signature]		6/21/91

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

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT I • SAN FRANCISCO CA 94124 • PHONE (415) 647-2081

GETTLER-RYAN INC.
GENERAL CONTRACTORS

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 12018
CLIENT: Chevron USA Inc.
CLIENT JOB NO.: 7270.04

DATE RECEIVED: 06/27/91
DATE REPORTED: 06/28/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
12018- 1	cs-29	06/27/91	06/27/91
12018- 2	cs-30	06/27/91	06/27/91
12018- 3	cs-31	06/27/91	06/27/91
12018- 4	cs-32	06/27/91	06/27/91
12018- 5	cs-33	06/27/91	06/27/91
12018- 6	cs-34	06/27/91	06/27/91
12018- 7	cs-35	06/27/91	06/27/91
12018- 8	cs-36	06/27/91	06/27/91
12018- 9	cs-37	06/27/91	06/27/91

Laboratory Number:	12018 1	12018 2	12018 3	12018 4	12018 5
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<1	27	1	ND<1	ND<1
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.005	ND<.030	ND<.005	ND<.005	ND<.005
TOLUENE:	ND<.005	0.05	ND<.005	ND<.005	ND<.005
ETHYL BENZENE:	ND<.005	ND<.030	ND<.005	ND<.005	ND<.005
XYLENES:	ND<.005	0.3	ND<.005	ND<.005	ND<.005

Laboratory Number:	12018 6	12018 7	12018 8	12018 9
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)			
OIL AND GREASE:	NA	NA	NA	NA
TPH/GASOLINE RANGE:	80	7	2	ND<1
TPH/DIESEL RANGE:	NA	NA	NA	NA
BENZENE:	ND<.030	ND<.005	ND<.005	ND<.005
TOLUENE:	0.091	ND<.005	ND<.005	ND<.005
ETHYL BENZENE:	0.057	ND<.005	ND<.005	ND<.005
XYLENES:	3.9	0.009	ND<.005	0.014

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT I • SAN FRANCISCO CA 94124 • PHONE (415) 647-2081 DOHS #1332

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 12018

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

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: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg
Standard Reference: 08/24/90

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg
Standard Reference: 04/09/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	08/24/90	200ng	59/62	3.5	58-120
Benzene	04/09/91	200ng	85/86	1.0	65-121
Toluene	04/09/91	200ng	70/74	3.6	65-120
Ethyl Benzene	04/09/91	200ng	65/71	5.8	65-122
Total Xylene	04/09/91	600ng	61/70	8.4	65-122

Richard Srna, Ph.D.
Laboratory Director

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

Consultant Project Number: 7270.04
Consultant Name: Getler Ryan
Address: 2150 W Winton Ave
Project Contact (Name): Jeff Monroe
(Phone) 352-4800 (Fax Number) 783-1089

(Phone)
Laboratory Name: Superior
Laboratory Release Number: 352300D
Samples Collected by (Name): Kevin McGraw
Collection Date: 6-27-91
Signature: Kevin D. McGraw

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)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Chlorinated HC (8010)	Non Chlorinated HC (8020)	Total Lead (AA)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)						Remarks
CS-29	1	S	C	11:40		Y	X								mtl	✓			
CS-30				11:45			X									✓			
CS-31				11:50			X									✓			
CS-32				11:55			X									✓			
CS-33				12:00			X												
CS-34				12:05			X												
CS-35				12:10			X												
CS-36				12:15			X												
CS-37				12:20			X												

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Kevin D. McGraw	GSI	6/27/91; 2:20			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
			Marvin Fan		6/27/91 2:15

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

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

GETTLER-RYAN INC.
GENERAL CONTRACTORS

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 12050
CLIENT: Chevron, USA
CLIENT JOB NO.: 7270.03

DATE RECEIVED: 07/08/91
DATE REPORTED: 07/09/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
12050- 1	CS-38	07/08/91	07/08/91
12050- 2	CS-39	07/08/91	07/08/91
12050- 3	CS-40	07/08/91	07/08/91
12050- 4	CS-41	07/08/91	07/08/91
12050- 5	CS-42	07/08/91	07/08/91
12050- 6	CS-43	07/08/91	07/08/91
12050- 7	CS-44	07/08/91	07/08/91
12050- 8	CS-45	07/08/91	07/08/91
12050- 9	CS-46	07/08/91	07/08/91
12050-10	CS-47	07/08/91	07/08/91

Laboratory Number:	12050 1	12050 2	12050 3	12050 4	12050 5
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<1	10	6	1	360
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<0.3
TOLUENE:	ND<.005	ND<.005	ND<.005	ND<.005	0.78
ETHYL BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	1.3
XYLENES:	ND<.005	0.010	0.005	0.005	26

Laboratory Number:	12050 6	12050 7	12050 8	12050 9	12050 10
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	7	150	110	29	39
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.005	ND<.030	ND<.030	ND<.005	ND<.030
TOLUENE:	ND<.005	0.24	ND<.030	0.012	ND<.030
ETHYL BENZENE:	ND<.005	0.32	ND<.030	ND<.005	ND<.030
XYLENES:	0.008	6.1	2.8	0.035	1.9

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT I · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081 DOHS #1332

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 12050
CLIENT: Chevron, USA
CLIENT JOB NO.: 7270.03

DATE RECEIVED: 07/08/91
DATE REPORTED: 07/09/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
12050-11	CS-48	07/08/91	07/08/91
12050-12	CS-49	07/08/91	07/08/91
12050-13	CS-50	07/08/91	07/08/91
12050-14	CS-51	07/08/91	07/08/91
12050-15	CS-52	07/08/91	07/08/91

Laboratory Number:	12050 11	12050 12	12050 13	12050 14	12050 15
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	44	ND<1	34	ND<1	46
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
TOLUENE:	0.007	ND<.005	0.008	ND<.005	0.011
ETHYL BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
XYLENES:	0.95	ND<.005	1.0	0.005	3.1

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE. UNIT I • SAN FRANCISCO. CA 94124 • PHONE (415) 647-2081 DOHS #1332

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 12050

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

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: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg
Standard Reference: 08/24/90

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg
Standard Reference: 04/09/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	08/24/90	200ng	83/76	8.9	58-120
Benzene	04/09/91	200ng	100/100	0.5	65-121
Toluene	04/09/91	200ng	94/92	2.2	65-120
Ethyl Benzene	04/09/91	200ng	92/88	5.0	65-122
Total Xylene	04/09/91	600ng	90/85	5.9	65-122

Richard Srna, Ph.D.
Laboratory Director

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE. UNIT I · SAN FRANCISCO. CA 94124 · PHONE (415) 647-2081 DOHS #1332

MOCK INVOICE

Chevron USA
P.O. Box 5004
San Ramon, CA 94583

Date: 07/09/91
Date Rcvd: 07/08/91
Date Rptd: 07/09/91
Our Job #: 12050
Invoice #: 12050

Gettler Ryan Inc. Job # 7270.03
Chevron USA Release # 3523000 Facility #: 4816

QTY/MATRIX	ANALYSIS	EXT. PRICE
15 SOIL	sample(s) for VPH-BTXE @ $0.00 (RUSH)	0.00
TOTAL INVOICE		0.00

Please Send Payment To:
Superior Analytical Labs
P.O. Box 1545
Martinez, CA 94553

TERMS: NET 30
A charge of 1.5% per month may be applied to unpaid balances

OUTSTANDING QUALITY AND SERVICE

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

Chevron Facility Number 4816
Facility Address 301 14th St Oakland
Consultant Project Number 7270.03
Consultant Name Getter-Ryan
Address 2150 W Winton Ave Hayward
Project Contact (Name) Jeff Monroe
(Phone) 352-4800 (Fax Number) 783-1089

Chevron Contact (Name) Nancy Vukelich 12050
(Phone)
Laboratory Name Superior
Laboratory Release Number
Samples Collected by (Name) Clyde Galantine
Collection Date 7-8-91
Signature Clyde Galantine

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)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Chlorinated HC (8010)	Non Chlorinated HC (8020)	Total Lead (AA)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)						Remarks
CS-38	1	S	G	7:20		Y	X												
CS-39	↓	↓	↓	7:25		↓	↓												
CS-40				7:30															
CS-41				7:35															
CS-42				7:40															
CS-43				7:45															
CS-44				7:50															
CS-45				7:55															
CS-46				8:00															
CS-47				8:05															
CS-48				8:10															
CS-49				8:15															
CS-50	↓	↓	↓	8:20		↓	↓												

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Clyde Galantine	GSI	7-8-91/9:15			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
			SAC 7/8/91		0915

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

Chain of Custody Record

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

Chevron Facility Number: 4816
Facility Address: 301 14th St Oakland
Consultant Project Number: 7270.03
Consultant Name: Getler-Ryan
Address: 2150 W Winston Ave Hayward
Project Contact (Name): Jeff Monroe
(Phone) 352-4800 (Fax Number) 783-1089

Chevron Contact (Name): Nancy Vukelich
(Phone)
Laboratory Name: Superior
Laboratory Release Number
Samples Collected by (Name): Clyde Galantine
Collection Date: 7-8-91
Signature: Clyde Galantine

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)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Chlorinated HC (8010)	Non Chlorinated HC (8020)	Total Lead (AA)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)						Remarks
CS-51	1	S	G	8:25		Y	X												
CS-52	1	S	C	8:30		Y	X												

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Clyde Galantine	GSI	7-8-91/9:15			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
			SMC		7/8/91 0915

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

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT I • SAN FRANCISCO CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 12084
CLIENT: Chevron USA Inc.
CLIENT JOB NO.: 7270.03

DATE RECEIVED: 07/17/91
DATE REPORTED: 07/19/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
12084- 1	CS-53	07/17/91	07/17/91
12084- 2	CS-54	07/17/91	07/18/91
12084- 3	CS-55	07/17/91	07/17/91
12084- 4	CS-56	07/17/91	07/17/91
12084- 5	CS-57	07/17/91	07/17/91
12084- 6	CS-58	07/17/91	07/18/91
12084- 7	CS-59	07/17/91	07/17/91
12084- 8	CS-60	07/17/91	07/17/91

Laboratory Number:	12084 1	12084 2	12084 3	12084 4	12084 5
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<1	ND<1	2	ND<1	ND<1
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
TOLUENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
ETHYL BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
XYLENES:	ND<.005	ND<.005	.010	ND<.005	ND<.005

Laboratory Number:	12084 6	12084 7	12084 8
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)		
OIL AND GREASE:	NA	NA	NA
TPH/GASOLINE RANGE:	ND<1	ND<1	ND<1
TPH/DIESEL RANGE:	NA	NA	NA
BENZENE:	ND<.005	ND<.005	ND<.005
TOLUENE:	ND<.005	ND<.005	ND<.005
ETHYL BENZENE:	ND<.005	ND<.005	ND<.005
XYLENES:	ND<.005	ND<.005	ND<.005

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE. UNIT I · SAN FRANCISCO. CA 94124 · PHONE (415) 647-2081 DOHS #1332

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: 12084

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

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: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg
Standard Reference: 08/24/90

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg
Standard Reference: 04/09/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	08/24/90	200ng	94/96	2.3	58-120
Benzene	04/09/91	200ng	95/94	1.6	65-121
Toluene	04/09/91	200ng	97/97	0.5	65-120
Ethyl Benzene	04/09/91	200ng	104/104	0.5	65-122
Total Xylene	04/09/91	600ng	105/104	0.8	65-122

Richard Srna, Ph.D.
Laboratory Director

OUTSTANDING QUALITY AND SERVICE

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No 12084

Chain-of-Custody-Record

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

Chevron Facility Number 4816
Facility Address 301 14th St Oakland
Consultant Project Number 7270.03
Consultant Name Getler-Ryan
Address 2150 W Winton Ave Hayward
Project Contact (Name) Jeff Monroe
(Phone) 352-4800 (Fax Number) 783-1089

Chevron Contact (Name) Nancy Vukelich
(Phone)
Laboratory Name Superior
Laboratory Release Number 3523000
Samples Collected by (Name) Clyde Galantine
Collection Date 7-17-91
Signature Clyde Galantine

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
CS-53		1	S	G	9:25		Y	X								
CS-54		1			9:30			X								
CS-55		1			9:35			X								
CS-56		1			9:40			X								
CS-57		1			9:45			X								
CS-58		1			9:50			X								
CS-59		1			9:55			X								
CS-60		1	↓	↓	10:00		↓	X								

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

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
[signature]	G S E	13:05 7-17-91	[signature]	EXPRESS-IT	1305 7-17-91
[signature]	EXPRESS-IT	1341 7-17-91	[signature]	EXPRESS-IT	1341 7-17-91
[signature]	[illegible]	[illegible]	Received For Laboratory By (Signature) [signature]		[illegible]

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