TRANSMITTAL

TO: Ms. Eva Chu
Alameda County Health Care Serv. Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

DATE: December 27, 1994
PROJECT #: 8130.01
SUBJECT: Underground Storage Tank Unauthorized Release Contamination Site Report for Shamrock Ford Site, 7499 Dublin Boulevard, Dublin, California.

FROM:
Barbara Sieminski
Project Geologist
GeoStrategies, Inc.
6747 Sierra Court, Suite G
Dublin, California 94568

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	10/24/94	Underground Storage Tank Unauthorized Release Contamination Site Report for Shamrock Ford Site, 7499 Dublin Boulevard, Dublin, California.

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Job File, GSI

GeoStrategies Inc.

UNDERGROUND TANK REMOVAL REPORT

Shamrock Ford
7499 Dublin Boulevard
Dublin, California

610001-01

August 16, 1993

GeoStrategies Inc.

Mr. Craig Caldwell
Shamrock Ford
7499 Dublin Boulevard
Dublin, California 94568

August 16, 1993

Subject: UNDERGROUND TANK REMOVAL REPORT for Shamrock Ford, 7499 Dublin Boulevard, Dublin, California.

Mr. Craig Caldwell:

This Underground Tank Removal Report has been prepared by GeoStrategies Inc. (GSI) and presents the results of an environmental investigation related to the removal of one underground gasoline-storage tank and one waste-oil-storage tank at the Shamrock Ford site located at 7499 Dublin Boulevard in Dublin, California. This investigation included: observing excavation and removal two underground storage tanks (USTs); sampling and analyzing of the soil from the former tank pits and soil stockpiles; obtaining and analyzing "grab" samples of groundwater collected in the tank pits. This report presents the results of this work, together with the description of the field methods employed, the laboratory analyses, and other information related to USTs removal.

SITE DESCRIPTION AND BACKGROUND

General

Shamrock Ford is an operating dealership facility located at the northern corner of the intersection of Dublin Boulevard and Amador Plaza Road in Dublin, California. The site location is shown on Plate 1, Vicinity map. The site is a relatively flat, asphalt- and concrete-covered lot at an elevation of approximately 335 feet above mean sea level.

One 1,000-gallon waste-oil tank (T1) and one 2,000-gallon gasoline-storage tank (T2) were located in the southwestern portion of the site adjacent to the auto repair center. The approximate locations of the tanks and other pertinent site features are shown on Plate 2, Generalized Site Plan.

Local and Regional Hydrogeology

Shamrock Ford site is located in the northwestern end of the Livermore Valley, within the Coast Ranges Geomorphic Province of Northern California. The Livermore Valley is approximately 13 miles long oriented in an east-west direction, approximately 4 miles wide, and is surrounded by hills of the Diablo Range. In the vicinity of the subject site, the valley floor slopes gently to the south-southeast. Soil in the vicinity of the subject site is mapped as Holocene alluvium that consists of unconsolidated, moderately to poorly sorted silt and clay rich in organic material, interfingered with and graded into coarser grained stream deposits toward higher elevations (Helley and others, 1979). Holocene alluvium (estimated to be 10 to 50 feet thick) overlies Pleistocene alluvium, which consists of weakly consolidated, poorly sorted, irregularly interbedded clay, silt, sand and gravel, and older sedimentary deposits. The Calaveras Fault is situated approximately ½-mile west of the site.

The Livermore Valley groundwater basin is divided into subbasins on the basis of fault traces or other hydrogeologic discontinuities (California Department of Water Resources, 1974). The groundwater system in Livermore Valley is a multi-layered system with an unconfined aquifer overlying a sequence of leaky or semi-confined aquifers. The subject site is located within the Dublin groundwater subbasin. The groundwater in this subbasin has been reported to be at depths ranging from 10 to 60 feet below ground (fbg) (Alameda County Flood Control and Water Conservation District [ACFCWCD], January 16, 1991).

The site is approximately ¼-mile north of Dublin Creek. The direction of groundwater flow in the vicinity of the site is inferred to be to the southeast, based on regional and local topography and drainage patterns.

FIELD WORK

Field work conducted on behalf of Shamrock Ford during this investigation included observing excavation and removal of one gasoline UST and one waste-oil UST; collecting soil samples from the tank pits and soil stockpiles; and collecting samples of groundwater from the pits. The field work was conducted in compliance with state and local guidelines and in conformance with the GSI Site Safety Plan.

Removal of Underground Tanks

On June 23, 1993, a geologist from GSI was onsite to observe the excavation and removal of two USTs (T1 and T2), as shown on Plate 2, inspect their outer surfaces, collect soil samples from native soil beneath the ends of tanks T1 and T2 and soil stockpiles. Tank removal was performed by Gettler-Ryan Inc., of Hayward, California (G-R). The Dougherty Fire District (DFD), the Alameda County Health Care Services Agency (ACHCSA), and the Bay Area Air Quality Management District (BAAQMD) were notified prior to tank removal activities. Mr. Geine Miller of the DFD, and Mr. Jeff Shapiro of the ACHCSA were present at the site to observe the removal of the tanks. Furthermore, Mr. Jeff Shapiro was present to observe groundwater sample collection from the tank pits on June 24 and 29, 1993.

On June 23, 1993, one single-walled steel waste-oil UST (T1) measuring approximately 4 feet in diameter by 10 feet in length, and one single-walled steel gasoline UST (T2) measuring approximately 6¼ feet in diameter by 9 feet in length were uncovered and prepared for removal. GSI geologist noted that product line plumbing above tanks T1 and T2 consisted of single-walled steel pipe and fittings, slightly rusted but without visible holes. Hydrocarbon vapors and oxygen were purged from the tanks by the addition of dry ice into the tanks. Tanks T1 and T2 were then excavated and removed from the tank pits. Examination of the waste-oil UST (T1) indicated that this tank was pitted and rusty and had holes up to 1-inch in diameter throughout the lower half of the tank. Examination of the gasoline tank (T2) indicated that this tank was in good condition with no visible through-going holes. Tanks T1 and T2 were transported by H&H Ship Service of San Francisco, California (H&H), a

licensed waste hauler, to their licensed disposal facility in San Francisco, California. Manifests documenting the disposal of tanks are included in Appendix A.

The backfill material excavated from the tank pit above and around the tanks was predominantly coarse aquarium sand. The native soil consisted of dark gray clay (0 to 3 fbg), brown silty clay (3 to 6 fbg), and gray clayey to sandy silt (6 to 8 fbg).

Groundwater was encountered in the tank pits at the depth of approximately 7 fbg.

Approximately 100 cubic yards of backfill soil removed from the tank pit excavations were stockpiled onsite in two separate piles SP1 (containing soil excavated from the waste-oil tank pit) and SP2 (containing soil excavated from the gasoline tank pit) for subsequent aeration and disposal. The stockpiled soil was placed on and covered by plastic sheeting.

Soil Sampling in Tank Pits

On June 23, 1993, two soil samples were collected from native soil from the side walls of each tank pit at depths of approximately 7 feet, just above the groundwater surface. The native soil at the sample depths included clayey to sandy silt.

Soil samples were collected upon arrival of the soil at the ground surface in the excavator bucket. The top portion of the soil was removed, and a sample was collected by pushing a sampling tube into the soil. The samples were collected in clean brass tubes, covered on both ends with aluminum foil and sealed with plastic end caps. The samples were labeled, entered on Chain-of-Custody forms, and transported in an iced cooler to the laboratory.

Groundwater Sampling

On June 23 and 24, 1993, groundwater was purged from the tank pits prior to collection of groundwater samples. The waste-oil tank pit was

purged once due to slow groundwater recovery, and the gasoline tank pit was purged twice before sample collection. Groundwater samples were collected from the gasoline tank pit on June 24, 1993. Groundwater samples were collected from the waste-oil tank pit on June 29, 1993, after groundwater recovered enough to allow sample collection.

Groundwater samples were collected using a disposable acrylic bailer. The water samples were gently poured into laboratory-cleaned containers, sealed with teflon-lined caps, and inspected for air bubbles to check for headspace, which would allow volatilization to occur. The samples were labeled, entered on Chain-of-Custody forms, and transported in an iced cooler to the laboratory.

Water generated by purging of the tank pits was disposed of by H&H Ship and Service Company of Patterson, California, on June 24, 1993. Manifest documenting purge water disposal is included in Appendix A.

Stockpile Sampling and Disposal

Soil samples were collected from the soil stockpiles SP1 and SP2 on June 23, 1993, for compositing and analyses. Another composite soil sample was collected on July 9, 1993, from stockpile SP2 after soil aeration.

Four soil samples were collected from each stockpile for compositing in the laboratory into one composite sample (stockpiles were composed of less than 50 cubic yards of soil). The samples were obtained by first evaluating high, average, and low areas of hydrocarbon concentration by digging approximately one to two feet into the stockpile and placing the intake probe of a field calibrated organic vapor meter (OVM) against the surface of the soil; and then collecting one sample from the "high" reading area, and three samples from the "average"reading areas. The samples were collected by removing the top one to two feet of soil, then driving laboratory cleaned brass sleeves into the soil. The samples were covered on both ends of the tube with aluminum foil and sealed with plastic end caps. The samples were labeled, entered on Chain-of-Custody forms, and transported, in an iced cooler, to the laboratory.

On July 14, 1993, the stockpiled soil was transported by Conrad Trucking of Escalon, California, a licensed waste hauler, to BFI Landfill in Livermore, California.

LABORATORY METHODS

Soil and groundwater "grab" samples were analyzed by Western Environmental Science and Technology of Davis, California, a State-certified laboratory (Certification No. 1346). The Chain of Custody forms and the laboratory analytical reports are attached in Appendix B.

Tank Pit Soil Samples

Two soil samples (designated S-7-T1-1 and S-7-T1-2) obtained from the sidewalls of the waste-oil tank pit were analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-G) using Modified EPA Method 8015; gasoline constituents benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA method 8020; Total Petroleum Hydrocarbons as Diesel (TPH-D) and Total Petroleum Hydrocarbons as Motor Oil (TPH-Motor Oil) using Modified EPA Method 8015/Extraction; oil and grease (O&G) using ASTM Method 5520 E,F; volatile organic compounds (VOCs) using EPA Method 8240; and metals cadmium (Cd), chromium (Cr), lead (Pb), nickel (Ni) and zinc (Zn) using EPA Method 6010.

Two soil samples (designated S-7-T2-1 and S-7-T2-2) obtained from the sidewalls of the gasoline tank pit were analyzed for TPH-G using Modified EPA Method 8015; BTEX using EPA method 8020; and lead using EPA Method 6010.

Stockpile Soil Samples

Soil samples collected from the stockpiles were composited in the laboratory and analyzed for TPH-G using Modified EPA Method 8015; BTEX using EPA method 8020; lead using Waste Extraction Test for Lead; and reactivity, corrosivity and ignitability (RCI). In addition the sample collected from the stockpile containing soil from the waste-oil tank pit was analyzed for Total Recoverable Petroleum Hydrocarbons using Method 418.1; VOCs using EPA Method 8240; Semi Volatile Organic Priority

Pollutants using EPA Method 8270; and metals using EPA Method 6010/7000.

Groundwater Samples

A groundwater sample (designated W-7-T1) was obtained from the waste-oil tank pit and was analyzed for TPH-G using Modified EPA Method 8015; BTEX using EPA method 602; TPH-D and TPH-Motor Oil using Modified EPA Method 8015/Extraction; oil and grease (O&G) using ASTM Method 5520 B,F; VOCs using EPA Method 624; and metals Cd, Cr, Pb, Ni and Zn using EPA Method 7000/6010/200.7.

A groundwater sample (designated W-7-T2) was obtained from the gasoline tank pit and was analyzed for TPH-G using Modified EPA Method 8015; BTEX using EPA method 602; and total lead using EPA Method 7421-GFAA.

LABORATORY RESULTS

Tank Pit Soil Samples

The results of laboratory analyses of soil samples obtained from the tank pits are summarized in Table 1, Laboratory Analyses of Tank Pit Soil Samples.

Laboratory analyses of both soil samples collected from the waste-oil tank pit indicated nondetectable concentrations of TPH-G (less than 0.5 parts per million [ppm]), BTEX (less than 0.0050 ppm), TPH-D (less than 10 ppm), TPH-Motor Oil (less than 10 ppm), O&G (less than 50 ppm), and VOCs (less than 0.01 ppm, or less than 0.10 for acetone and 2-Butanone). Concentrations of metals Cd, Cr, Pb, Ni and Zn were up to 1.5 ppm, 51 ppm, 14 ppm, 37 ppm, and 86 ppm, respectively. Metals appear to be present in the soil in normal background concentrations (Lindsay, 1979; and Scott, 1991).

Laboratory analyses of soil samples collected from the gasoline tank pit indicated nondetectable TPH-G and BTEX for the sample collected from the southern wall of the tank pit (S-7-T2-1), and 2.4 ppm TPH-G and up

to 0.094 ppm BTEX for the sample collected from the northern wall (S-7-T2-2). Lead was detected at a concentration of 12 ppm in sample S-7-T2-1, which is within normal background concentrations; and was nondetectable in sample S-7-T2-2.

Stockpile Samples

The results of laboratory analyses of stockpile samples are summarized in Table 2, Laboratory Analyses of Stockpile Samples. Laboratory analytical results indicated that stockpiled soil met acceptance criteria of BFI Landfill in Livermore.

Groundwater Samples

The results of laboratory analyses of groundwater samples obtained from the tank pits are summarized in Table 3, Laboratory Analyses of Water Samples from Tank Pits.

Laboratory analytical results for the groundwater sample collected from the waste-oil tank pit indicated 150 parts per billion (ppb) TPH-G; up to 11 ppb BTEX; 8,600 ppb TPH-Motor Oil; and 2,200 ppb O&G. Metals including Cd, Cr, Pb, Ni and Zn were detected at concentrations of 17 ppb, 460 ppb, 850 ppb, 1200 ppb, and 530 ppb, respectively. TPH-D concentration was reported as nondetectable, however, the reporting limit was increased to 100 ppb due to oil interference. VOC concentrations (35 compounds tested) were nondetectable (less than 2 ppb) except benzene (2.6 ppb), toluene (6.1 ppb), P,M-xylene (5.6 ppb), O-xylene (3.2 ppb), methylene chloride (4.4 ppb), and acetone (34 ppb).

Laboratory analytical results for the groundwater sample collected from the gasoline tank pit indicated 3600 ppb TPH-G; up to 540 ppb BTEX; and 16 ppb of lead.

CONCLUSIONS

Based on the results of this investigation, GSI concludes:

- Based on the chemical analytical results the soils in the vicinity of the former waste-oil tank pit have not been impacted by waste-oil related hydrocarbons and metals.

- Based on the chemical analytical results the soils in the vicinity of the former gasoline tank pit have been slightly impacted by hydrocarbons as indicated by 2.4 ppm TPH-G detected in the soil sample collected from the northern wall of the tank pit just above groundwater.

- Groundwater in the vicinity of former waste-oil and gasoline tank pits appears to be impacted by waste-oil and gasoline related hydrocarbons as indicated by laboratory results of "grab" water samples collected from the tank pits.

If you have any questions, please call us at (510) 352-4800.

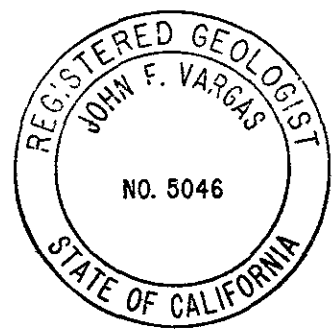
GeoStrategies Inc. by,

Barbara Sieminski

Barbara Sieminski
Project Geologist

John F. Vargas

John F. Vargas
Senior Geologist
R.G. 5046



BS/JFV/rt

Table 1. Laboratory Analyses of Tank Pit Soil Samples
Table 2. Laboratory Analyses of Stockpile Samples
Table 3. Laboratory Analyses of Water Samples from Tank Pits

Plate 1. Vicinity Map
Plate 2. Site Plan

Appendix A: Disposal Manifests
Appendix B: Laboratory Analytical Reports and Chain-of-Custody Forms

QC Review: _____

TABLES

TABLE 1
LABORATORY ANALYSES OF TANK PIT SOIL SAMPLES
Shamrock Ford
Dublin, California

TANK PIT/ SAMPLE NO.	SAMPLE DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)	TPH-D (PPM)	TPH-MO (PPM)	O&G (PPM)	VOCs (PPM)	METALS (PPM)
Waste-oil Tank Pit											
S-7-T1-1	23-Jun-93	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<10	<10	<50	ND*	Cadmium - 1.5 Chromium - 49 Lead - 13 Nickel - 34 Zinc - 86
S-7-T1-2	23-Jun-93	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<10	<10	<50	ND*	Cadmium - 1.3 Chromium - 51 Lead - 14 Nickel - 37 Zinc - 56
Gasoline Tank Pit											
S-7-T2-1	23-Jun-93	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	Lead - 12
S-7-T2-2	23-Jun-93	2.4	0.015	0.0060	0.030	0.094	NA	NA	NA	NA	Lead - <10

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline.
TPH-D = Total Petroleum Hydrocarbons calculated as Diesel.
TPH-MO = Total Petroleum Hydrocarbons calculated as Motor Oil.
O&G = Oil and Grease
VOCs = Volatile Organic Compounds
PPM = Parts per Million
ND = Not detected
* = 35 compounds tested
NA = Not analyzed

Notes: 1. All data shown as <x are reported as ND (none detected).

TABLE 2
LABORATORY ANALYSES OF STOCKPILE SOIL SAMPLES
Shamrock Ford
Dublin, California

SAMPLE NO.	SAMPLE DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)	TRPH (PPM)	VOCs (PPM)	SVOCs (PPM)	RCI	METALS (PPM)
SP-1A,B,C,D	23-Jun-93	1.1	<0.0050	<0.0050	0.012	0.076	460	ND*	ND**	Reactive Cyanide - <1.0 ppm; Reactive Sulfide - <10 ppm; pH - 8.8; Flashpoint - >140F	Antimony - <0.030 Arsenic - 0.28 Barium - 6.2 Beryllium - 0.0045 Cadmium - 0.016 Chromium - 0.066 Cobalt - 0.21 Copper - 0.16 Lead -0.17(0.19***) Mercury - <0.0050 Molybdenum-<0.010 Nickel - 0.44 Selenium - 0.025 Silver - <0.0050 Thallium - <0.010 Vanadium - 0.36 Zinc - 1.0
SP-2A,B,C,D	23-Jun-93	460	0.64	<0.50	2.4	22	NA	NA	NA	Reactive Cyanide - <1.0 ppm; Reactive Sulfide - <10 ppm; pH - 8.7; Flashpoint - >140F	Lead - 0.064***
SP-2A,B,C,D	09-Jul-93	0.78	<0.0003	<0.0003	<0.0003	0.0014	NA	NA	NA	NA	NA

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline.
TPH-D = Total Petroleum Hydrocarbons calculated as Diesel.
TRPH = Total Recoverable Petroleum Hydrocarbons
VOCs = Volatile Organic Compounds
SVOCs = *Semi Volatile Organic Compounds*
RCI = Reactivity, Corrosivity, Ignitability
PPM = Parts per Million
* = All 35 compounds tested were nondetectable except P,M-Xylene (0.011 ppm) and O-Xylene (0.010 ppm).
** = All 56 compounds tested were nondetectable.
*** = *Analyzed by "Waste Extraction Test for Lead"*

Notes: 1. All data shown as <x are reported as ND (none detected).

TABLE 3
LABORATORY ANALYSES OF WATER SAMPLES FROM TANK PITS
Shamrock Ford
Dublin, California

TANK PIT/ SAMPLE NO.	SAMPLE DATE	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)	TPH-D (PPB)	TPH-MO (PPB)	O&G (PPB)	VOCs (PPB)	METALS (PPB)
Waste-oil Tank Pit											
W-7-T1	29 Jun-93	150	3.4	6.5	2.2	11	<100*	8600	2200	ND** except: Methylene Chloride - 4.4; Acetone - 34; Benzene - 2.6; Toluene 6.1; P,M-Xylene - 5.6; O-Xylene - 3.2	Cadmium - 17 Chromium - 460 Lead - 850 Nickel - 1200 Zinc - 530
Gasoline Tank Pit											
W-7-T2	24-Jun-93	3600	67	40	170	540	NA	NA	NA	NA	Lead - 16

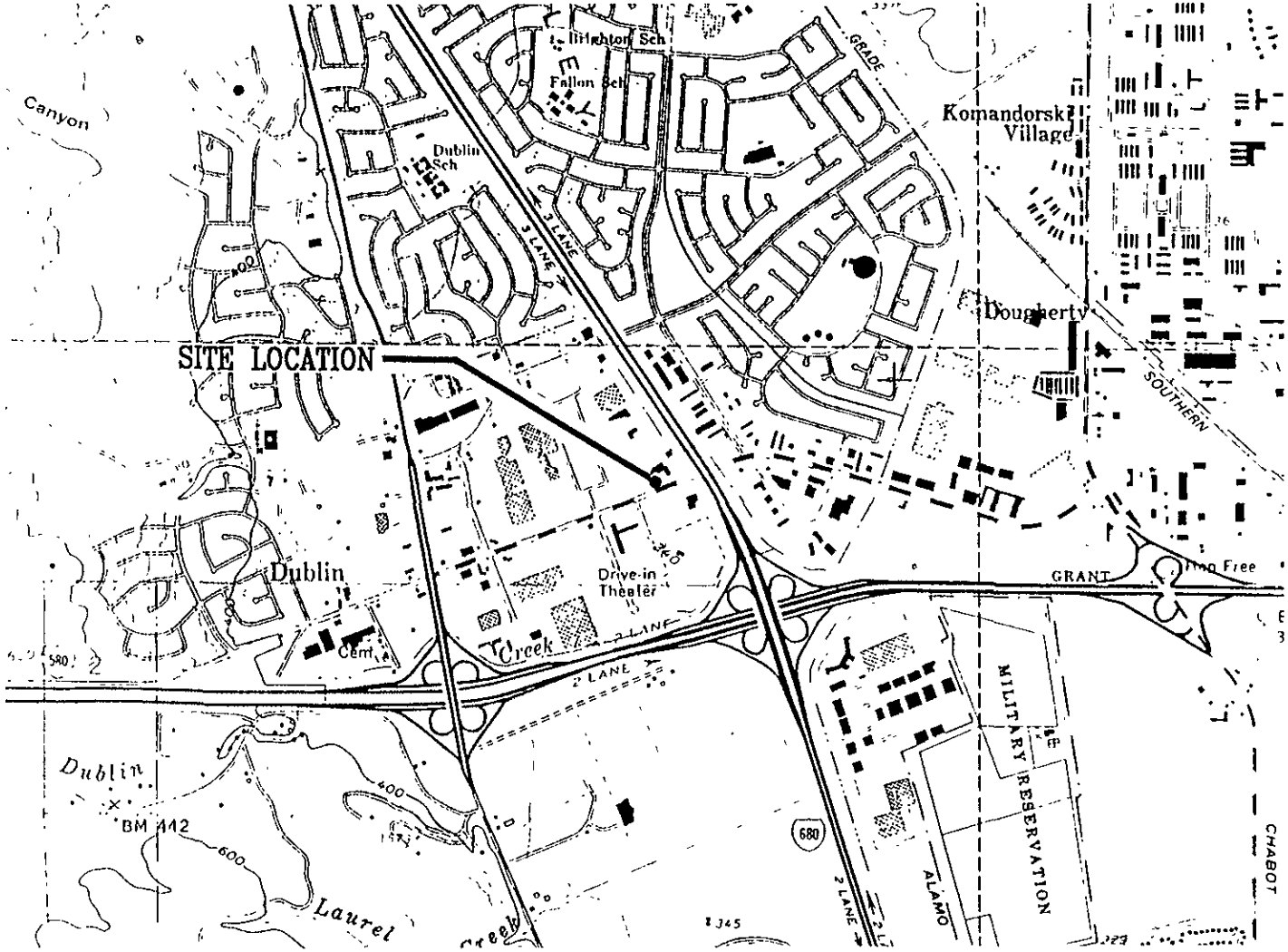
Current Regional Water Quality Control Board Maximum Contaminant Levels:
Benzene 1.0 ppb, Xylenes 1750 ppb, Ethylbenzene 680 ppb

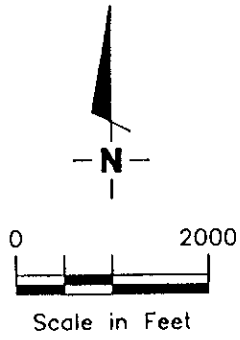
Current DHS Action Levels: Toluene 100 ppb

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline.
TPH-D = Total Petroleum Hydrocarbons calculated as Diesel.
TPH-MO = Total Petroleum Hydrocarbons calculated as Motor Oil.
O&G = Oil and Grease
VOCs = Volatile Organic Compounds
PPB = Parts per Billion
ND = Not detected
NA = Not analyzed
* = Reporting limit increased due to oil interference.
** = 35 compounds tested.

Notes: 1 All data shown as <x are reported as ND (none detected).

ILLUSTRATIONS





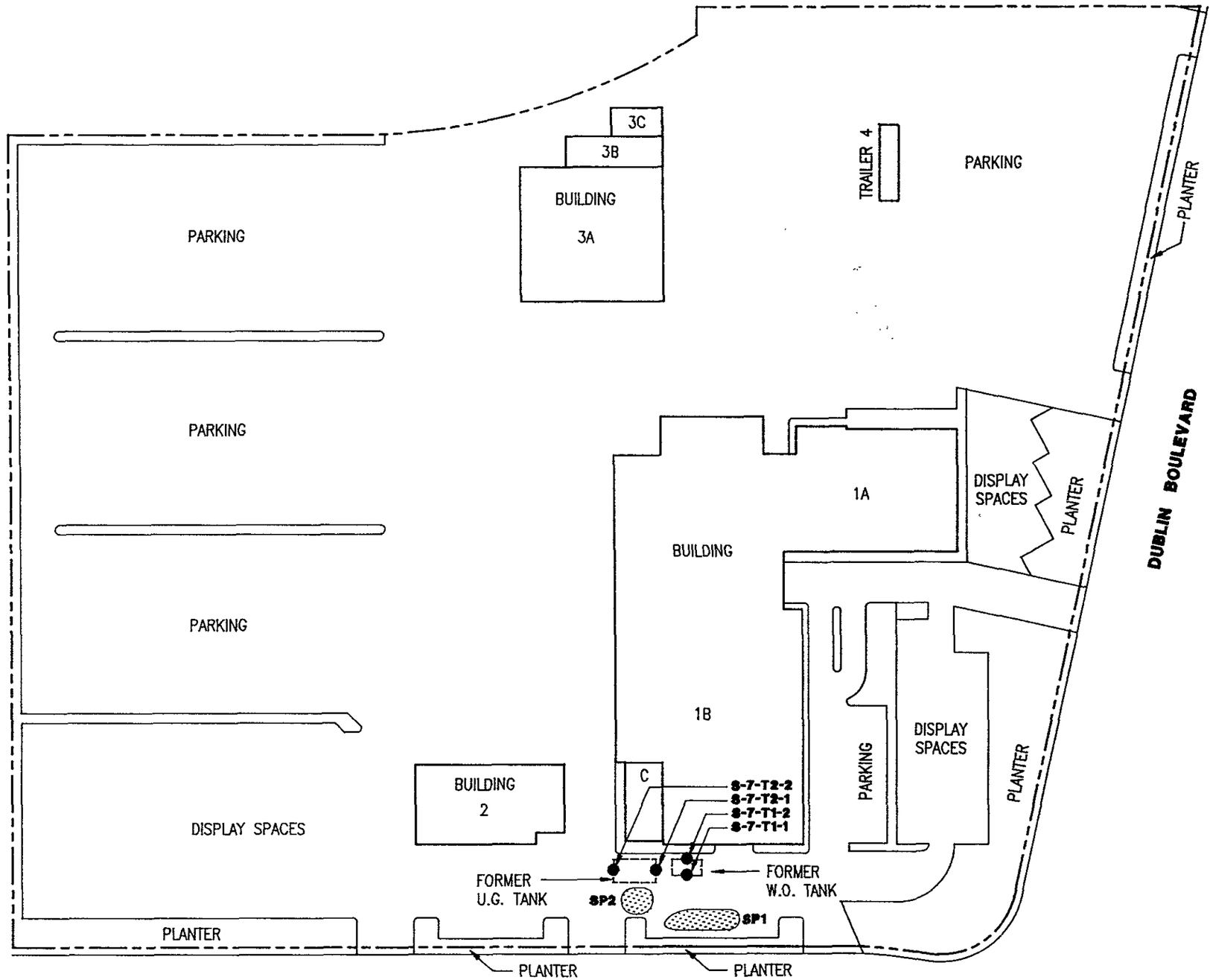
Base Map: USGS Topographic Map

GeoStrategies Inc.

VICINITY MAP
SHAMROCK FORD
7499 Dublin Boulevard
Dublin, California

PLATE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
6100	BS	8/93	



Base Map: Modified from plan supplied by Shamrock Ford

PLATE 2

SITE PLAN
SHAMROCK FORD
7499 Dublin Boulevard
Dublin, California

REVISED DATE

DATE 8/93

REVIEWED BY

JOB NUMBER 610001-01

GeoStrategies Inc.

GSI

APPENDIX A

DISPOSAL MANIFESTS

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 Expires 9-30-94
Please print or type Form designed for use on elite 12-pitch typewriter

See instructions on back page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of | Information in the shaded areas is not required

92215726

GENERATOR

3. Generator's Name and Mailing Address
SHAMROCK FORE
7499 Dublin Blvd. Dublin CA. 94568
4. Generator's Phone (415) 828-5211

A. State Manifest Document Number: 92215725
B. State Generator's ID:
C. State Transporter's ID: 401998
D. Transporter's Phone: (415) 543-4835
E. State Transporter's ID:
F. Transporter's Phone:

5. Transporter 1 Company Name: H & H Ship Service Company
6. US EPA ID Number:
7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
H & H Ship Service Company
220 China Basin Street
San Francisco, CA. 94107
10. US EPA ID Number: C A D 0 0 4 7 7 1 1 6 8

G. State Facility's ID: C A D 0 0 4 7 7 1 1 6 8
H. Facility's Phone: (415) 543-4835

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RESIDUE GASOLINE TANK NON-RCRA HAZARDOUS WASTE SOLID	0 0 1	T P	0 2 0 0 0	P	State 512 / EPA/Other
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
EMPTY 2,000 gallon tank/last containing gasoline.
Tank inerted with dry ice for transport.
PROFILE #A2771

K. Handling Codes for Wastes Listed Above
a. 01 b.
c. d.

15. Special Handling Instructions and Additional Information
JOB #12848
24 Hr. Emergency Contact: H & H #(415) 543-4835
APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
JAMES P. REED FOR SHAMROCK FORE	James P. Reed	0 6	2 3	9

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
ROBERT M. BREWSTER	Robert M. Brewster	0 6	2 3	9

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Month	Day	Year
Reston Shallow		0 6	2 3	9

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

DTSC 8022A (12/91)
EPA 8700—22

White TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS
To: P.O. Box 3000, Sacramento, CA 95812

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-94)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of pa

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [illegible]
Manifest Document No.: [illegible]
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: 92215728

B. State Generator's ID

3. Generator's Name and Mailing Address
SHAMROCK FORD
7499 Dublin Blvd Dublin CA 94568

4. Generator's Phone (510) 829-5211

C. State Transporter's ID 401998

D. Transporter's Phone (415) 543-4835

5. Transporter 1 Company Name
H & H Ship Service Company

6. US EPA ID Number
CAD004771168

E. State Transporter's ID

F. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

G. State Facility's ID

H. Facility's Phone (510) 235-1393

9. Designated Facility Name and Site Address
Erickson Inc.
255 Parr Blvd.
Richmond Ca. 94801

10. US EPA ID Number
CAD009466392

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. WASTE EMPTY STORAGE TANK NON-RCRA HAZARDOUS WASTE SOLID	001	TP	01000	P	State 512 EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
Dry-[illegible] Empty Storage Tank(s) [illegible] Tank(s) have been [illegible] with 15 lbs. Dry Ice per 1000 Gals. capacity

K. Handling Codes for Wastes Listed Above
01

15. Special Handling Instructions and Additional Information
Keep away from sources of ignition. Always wear hardhats when working around U.S.T.'s. 24 Hr. Contact Name H & H Phone #(415) 543-4835. JOB #12848

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	06	23	93

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
ROBERT M. BREWSTER	Robert M Brewster	06	23	93

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
DAVID SATO	DAVE SATO	06	25	93

GENERATOR / TRANSPORTER / FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL [illegible]

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (12/91)

Green: HAULER RETAINS

State of California—Environmental Protection Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-94)
Please print or type Form designed for use on elite (12 pitch) typewriter

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C A D 9 8 1 7 1 1 9 2
Manifest Document No.: 1 5 7 2 1
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SHAMROCK FORD
7499 Dublin Blvd., Dublin, CA. 94568
4. Generator's Phone (510) 829-5211

A. State Manifest Document Number 92215721
B. State Generator's ID

5. Transporter 1 Company Name: H & H Ship Service Company
6. US EPA ID Number: C A D 0 0 4 7 7 1 1 6 8
C. State Transporter's ID 402006
D. Transporter's Phone (415) 543-4835

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
PRC PATTERSON, INC.
13331 N. Highway 33
Patterson, CA. 95363
10. US EPA ID Number: C A D 0 8 3 1 6 6 7 2 8
G. State Facility's ID: C A D 0 8 3 1 6 6 7 2 8
H. Facility's Phone (800) 874-4444

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. OIL AND WATER NON-RCRA HAZARDOUS WASTE LIQUID	001	TT	01800	G	State 223; EPA/Other
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

1105.02 1105

J. Additional Descriptions for Materials Listed Above
OIL AND WATER

K. Handling Codes for Wastes Listed Above
a. 01 b. c. d.

15. Special Handling Instructions and Additional Information
JOB #12847
24 Hr. Emergency Contact: H & H #(415) 543-4835
APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
[illegible handwriting]	[signature]	06	23	9

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
ESTEBAN H. PENALVER	[signature]	06	23	9

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR / TRANSPORTER / FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (12/91)
EPA 8700—22

Yellow: GENERATOR RETAINS

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-94)
Please print or type — Form designed for use on elite (12-pitch) typewriter

See Instructions on back page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. C A D 9 8 1 1 7 1 1 9 2 — Manifest Document No. 1 5 7 3 4
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SHAMROCK FORD
7499 Dublin Blvd., Dublin, CA. 94568

4. Generator's Phone (510) 829-5211

A. State Manifest Document Number: 92215734

B. State Generator's ID:

C. State Transporter's ID: 402006

D. Transporter's Phone: (415) 543-4835

E. State Transporter's ID:

F. Transporter's Phone:

G. State Facility's ID: C A D 0 8 3 1 6 6 7 2 8

H. Facility's Phone: (800) 874-4444

5. Transporter 1 Company Name: H & H Ship Service Company
6. US EPA ID Number: C A D 0 0 4 7 7 1 1 6 8

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
PRC PATTERSON, INC.
13331 N. Highway 33
Patterson, CA. 95363
10. US EPA ID Number: C A D 0 8 3 1 6 6 7 2 8

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
OIL AND WATER NON-RCRA HAZARDOUS WASTE LIQUID	0 0 1	T T	0 1 1 0 0	G	State 223
b.					EPA/Other
c.					State
d.					EPA/Other
					State
					EPA/Other

1105-02

J. Additional Descriptions for Materials Listed Above
OIL AND WATER

K. Handling Codes for Wastes Listed Above
a. 01 b. c. d.

15. Special Handling Instructions and Additional Information
JOB #12847
24 Hr. Emergency Contact: H & H #(415) 543-4835
APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and futu threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the b waste management method that is available to me and that I can afford.

Printed/Typed Name: [illegible] Signature: [signature] Month 0 6 Day 2 4

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] M. PENALVER Signature: [signature] Month 0 6 Day 2 4

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Month Day

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Signature: Month Day

DO NOT WRITE BELOW THIS LINE.

GENERATOR

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

92215734

DTSC 8022A (12/91)
EPA 8700—22

Yellow: GENERATOR RETAIN

BFI Waste Systems™
BROWNING-FERRIS INDUSTRIES

No 1023077

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name SUNNYVALE FORD | Generating Location DUBLIN CA

Address 7499 DUBLIN BLVD | Address SAME

Phone No. 510-924-5211 | Phone No. ___

BFI Waste Code CA 405 | 071393 | 60551

Description of Waste: NON-HAZARDOUS PETROLEUM HYDROCARBON CONTAMINATED SOILS

Quantity	Units	Containers No.	Containers Type
19	Y	01	T

Type: D - Drum, C - Carton, B - Bag, T - Truck, P - Pounds, Y - Yards, O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name | Signature | Shipment Date 071493

TRANSPORTER

Truck No. 1905 | Phone No. (209) 836-5610

Transporter Name CONRAD TRUCKING | Driver Name (Print) [illegible]

Address 9493 S. ESCALON/BELLOTA | Vehicle License No./State [illegible]

ESCALON, CA 95320 | Vehicle Certification ___

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature | Shipment Date 071493

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature | Delivery Date 071593

DESTINATION

Site Name BFI LANDFILL | Phone No. 510-447-0491

Address 4001 N. VASCO ROAD LIVERMORE CA 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent | Signature | Receipt Date 071593

Job # 1105.01

PASS CODE ___

/86

BFI260-720

GENERATOR RETAIN

JUD 05.01

BFI Waste Systems™
BROWNING-FERRIS INDUSTRIES

No. 1023078

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name: SHAMROCK FORD
Generating Location: DUBLIN, CA

Address: 7499 DUBLIN BLVD
Address: SAME

Phone No. 510 - 829 5211
Phone No.

BFI Waste Code: CA 405 071393 60551

Description of Waste	Quantity	Units	Containers No.	Containers Type
NON-HAZARDOUS PETROLEUM HYDROCARBON CONTAMINATED SOIL	18	Y	01	T

Type: D - Drum, C - Carton, B - Bag, T - Truck, P - Pounds, Y - Yards, O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name: JAMES P. ROSS
Signature: [signature]
Shipment Date: 071493

TRANSPORTER

Truck No.: 1968
Phone No.: (209) 586-5610

Transporter Name: CONRAD TRUCKING
Driver Name (Print): [illegible]

Address: 9493 S. ESCALON/BELLOTA ESCALON CA 95320
Vehicle License No./State: [illegible] CA

Vehicle Certification:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature: [signature]
Shipment Date: 071493

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature: [signature]
Delivery Date: 071493

DESTINATION

Site Name: BFI LANDFILL
Phone No. 510 - 447 0491

Address: 4001 N. VASCO ROAD LIVERMORE CA 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent
Signature
Receipt Date: 7 14 93

J# 1105.01

PASS CODE

GENERATOR RETAIN

BFI Waste Systems™
BROWNING-FERRIS INDUSTRIES

VOB
1105.01

No. 1023076

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name: SHAMROCK FORD | Generating Location: DUBLIN, CA

Address: 4411 DUBLIN BLVD | Address: SAME

Phone No.: 510-[illegible]5211 | Phone No.:

BFI Waste Code: CA 405 071313 605511

Description of Waste: NON HAZARDOUS PETROLEUM HYDROCARBON CONTAMINATED SOILS

Quantity	Units	Containers No.	Containers Type
13	Y	01	T

Type: D - Drum, C - Carton, B - Bag, T - Truck, P - Pounds, Y - Yards, O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

[illegible] FORD | [signature] | 071493

Generator Authorized Agent Name | Signature | Shipment Date

TRANSPORTER

Truck No.: 1[illegible]15 | Phone No.: (209) 886-5610

Transporter Name: CONRAD TRUCKING | Driver Name (Print): DENNIS CONRAD

Address: 1431 S. ESCALON/BELLOTA, ESCALON CA 95320 | Vehicle License No./State: [illegible] CA

Vehicle Certification:

I hereby certify that the above named material was picked up at the generator site listed above.

[signature] | 071493

Driver Signature | Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

[signature] | 071493

Driver Signature | Delivery Date

DESTINATION

Site Name: BFI LANDFILL | Phone No.: 510-447049[illegible]

Address: 4001 N. VASCO ROAD LIVERMORE CA 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent | Signature | Receipt Date

#1105.01

PASS CODE

10/86

GENERATOR RETAIN

BFI260-72

APPENDIX B

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF CUSTODY FORMS

June 28, 1993
Sample Log 6748

Barbara Sieminski
Geostrategies, Inc.
2150 W Winton Ave.
Hayward, CA 94545

Subject: Analytical Results for 4 Soil Samples
Identified as: Project # 6100.01 (Shamrock Ford, Dublin CA)
Received: 06/24/93

Dear Ms. Sieminski:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on June 25, 1993 and describes procedures used to analyze the samples.

The sample(s) were received in:

Stainless steel sleeves with endcaps

Each sample was transported and received under documented chain of custody, assigned a consecutive log number and stored at 4 degrees Celsius until analysis commenced.

Sample(s) were analyzed using the following method(s):

"BTEX" (EPA Method 8020/Purge-and-Trap)
"TPH as Gasoline" (Modified EPA Method 8015/Purge-and-Trap)
"TPH as Diesel,Motor Oil,Jet/Kerosene" (Mod. 8015/Extraction)
"Oil and Grease" (ASTM Method 5520 E,F)
"Volatile Organic Priority Pollutants" (EPA Method 8240)

Please refer to the following table(s) for summarized analytical results and contact us at 916-757-4650 if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:

Joel Kiff
Senior Chemist

The following abbreviations and qualifiers may be present in the analytical reports to follow:

ug/L : Micrograms of target analyte in 1 Liter of sample.

mg/kg : Milligrams of target analyte in 1 kg of sample.

B : This data qualifier indicates that a method blank from the analytical batch contained this compound and the level found in the sample is within 5 times that level. Use data with caution.

J : This data qualifier indicates that the compound was detected at a level below the required reporting limit.

E : This data qualifier indicates that the compound was detected at a level above that defined by the highest level calibration standard.

C : This data qualifier indicates that the presence of the compound has been confirmed by GC/MS.

TCLP : Toxicity Characteristic Leaching Procedure

MS : Matrix Spike

MSD : Matrix Spike Duplicate

RPD : Relative Percent Difference (the difference between two values divided by the mean, expressed as a percentage.

% REC : Percent Recovery (the ratio between the measured value and the expected value for a spiked sample, expressed as a percentage.

< : Less than
> : Greater than

June 28, 1993
Sample Log 6748

Sample : S-7-T1-1
From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93 Received : 06/24/93
Matrix : Soil
Units : mg/kg Report As : Wet Weight

Metals

Parameter	MRL*	Date Digested	EPA Method	Date Analyzed	Conc.
Cadmium	(0.2)	06/25/93	6010	06/28/93	1.5
Chromium	(0.5)	06/25/93	6010	06/28/93	49
Lead	(10)	06/25/93	6010	06/28/93	13
Nickel	(1.0)	06/25/93	6010	06/28/93	34
Zinc	(1.0)	06/25/93	6010	06/28/93	86

* MRL = Method Reporting Limit

Joel Kiff
Senior Chemist

June 28, 1993
Sample Log 6748

Sample: S-7-T1-1

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93
Received : 06/24/93
Matrix : Soil

Parameter	(MRL) mg/kg	Measured Value mg/kg
Oil/Grease (5520E,F)	(50)	<50

Joel Kiff
Senior Chemist

June 28, 1993
Sample Log 6748

Sample: S-7-T1-1

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93 Received : 06/24/93
Matrix : Soil Analyzed : 06/25/93

8240 - Volatile Organic Priority Pollutants

Parameter	(MRL) ug/kg	Measured Value ug/kg	Flag
Chloromethane	(0.01)	<0.01	
Bromomethane	(0.01)	<0.01	
cis-1,2-Dichloroethene	(0.01)	<0.01	
trans-1,2-Dichloroethene	(0.01)	<0.01	
Vinyl Chloride	(0.01)	<0.01	
Chloroethane	(0.01)	<0.01	
Methylene Chloride	(0.01)	<0.01	
Acetone	(0.10)	<0.10	
Carbon Disulfide	(0.01)	<0.01	
1,1-Dichloroethene	(0.01)	<0.01	
1,1-Dichloroethane	(0.01)	<0.01	
Chloroform	(0.01)	<0.01	
1,2-Dichloroethane	(0.01)	<0.01	
2-Butanone	(0.10)	<0.10	
1,1,1-Trichloroethane	(0.01)	<0.01	
Carbon Tetrachloride	(0.01)	<0.01	
Bromodichloromethane	(0.01)	<0.01	
1,2-Dichloropropane	(0.01)	<0.01	
cis-1,3-Dichloropropene	(0.01)	<0.01	
Trichloroethene	(0.01)	<0.01	
Dibromochloromethane	(0.01)	<0.01	
1,1,2-Trichloroethane	(0.01)	<0.01	
Benzene	(0.01)	<0.01	
trans-1,3-Dichloropropene	(0.01)	<0.01	
Bromoform	(0.01)	<0.01	
4-Methyl-2-Pentanone	(0.01)	<0.01	
2-Hexanone	(0.01)	<0.01	
Tetrachloroethene	(0.01)	<0.01	
1,1,2,2-Tetrachloroethane	(0.01)	<0.01	
Toluene	(0.01)	<0.01	
Chlorobenzene	(0.01)	<0.01	
Ethylbenzene	(0.01)	<0.01	
Styrene	(0.01)	<0.01	
P,M-Xylene	(0.01)	<0.01	
O-Xylene	(0.01)	<0.01	

Joel Kiff
Senior Chemist

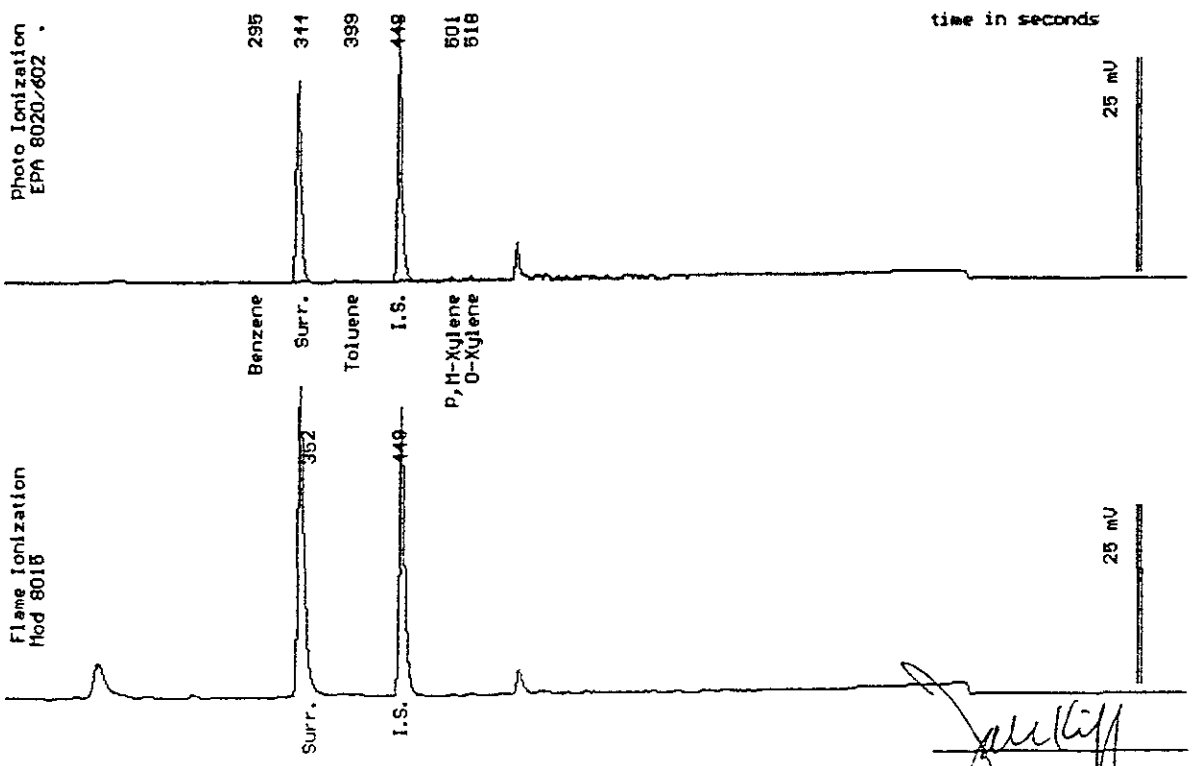
Sample Log 6748

6748-1

Sample: S-7-T1-1

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93
Dilution : 1:1 QC Batch : 6029h
Matrix : Soil

Parameter	(MRL) ug/kg	Measured Value ug/kg
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(.50)	<.50
Surrogate Recovery		78 %



Date Analyzed: 06-25-93
Column : 0.53mm ID X 30m DB5 (J&W Scientific)

Joel Kiff
Senior Chemist

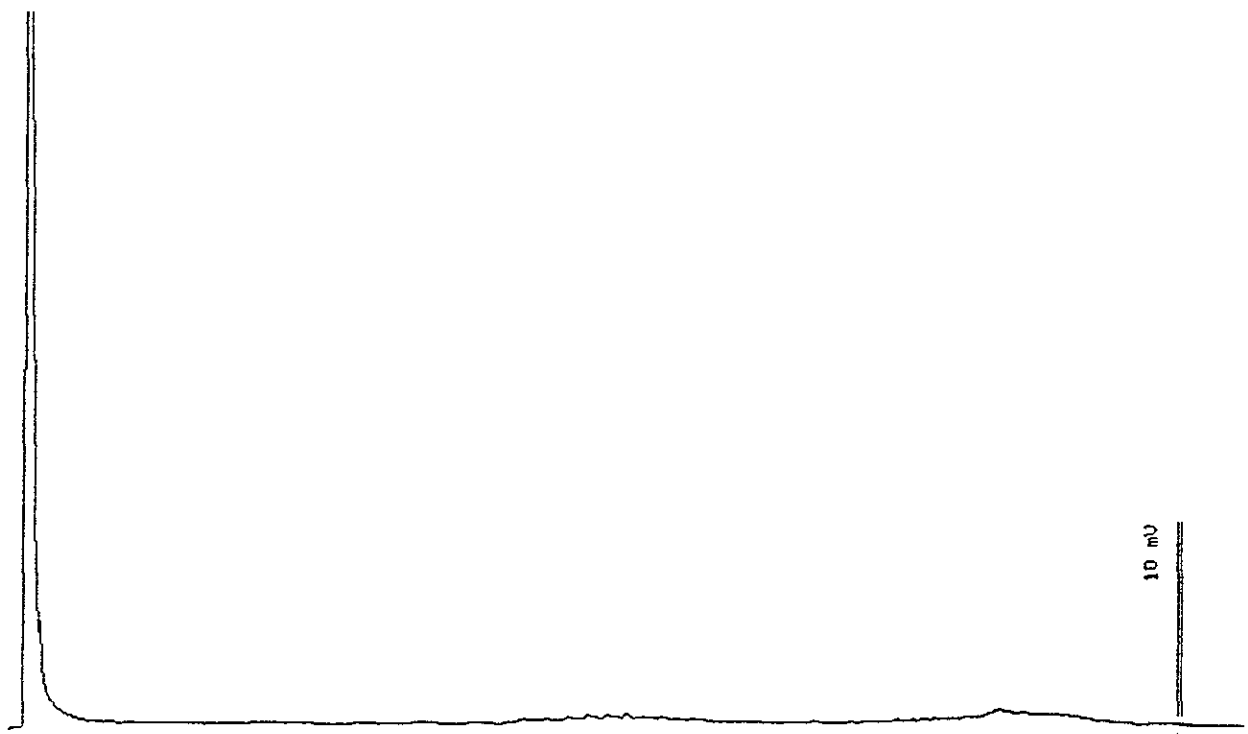
Sample Log 6748

6748-1

Sample: S-7-T1-1

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93
Extracted: 06/24/93
Dilution : 1:1 QC Batch : 7132h
Matrix : Soil

Parameter	(MDL) mg/kg	Measured Value mg/kg
TPH as Diesel	(10)	<10
TPH as Motor Oil	(10)	<10



EPA Mod 8015

Date: 06-25-93 Time: 06:00:31
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Steuart Podolsky
Senior Chemist

June 28, 1993
Sample Log 6748

Sample : S-7-T1-2
From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93 Received : 06/24/93
Matrix : Soil
Units : mg/kg Report As : Wet Weight

Metals

Parameter	MRL*	Date Digested	EPA Method	Date Analyzed	Conc.
Cadmium	(0.2)	06/25/93	6010	06/28/93	1.3
Chromium	(0.5)	06/25/93	6010	06/28/93	51
Lead	(10)	06/25/93	6010	06/28/93	14
Nickel	(1.0)	06/25/93	6010	06/28/93	37
Zinc	(1.0)	06/25/93	6010	06/28/93	56

* MRL = Method Reporting Limit

Joel Kiff
Senior Chemist

June 28, 1993
Sample Log 6748

Sample: S-7-T1-2

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93
Received : 06/24/93
Matrix : Soil

Parameter	(MRL) mg/kg	Measured Value mg/kg
Oil/Grease (5520E,F)	(50)	<50

Joel Kiff
Senior Chemist

June 28, 1993
Sample Log 6748

Sample: S-7-T1-2

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93 Received : 06/24/93
Matrix : Soil Analyzed : 06/25/93

8240 - Volatile Organic Priority Pollutants

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Chloromethane	(0.01)	<0.01	
Bromomethane	(0.01)	<0.01	
cis-1,2-Dichloroethene	(0.01)	<0.01	
trans-1,2-Dichloroethene	(0.01)	<0.01	
Vinyl Chloride	(0.01)	<0.01	
Chloroethane	(0.01)	<0.01	
Methylene Chloride	(0.01)	<0.01	
Acetone	(0.10)	<0.10	
Carbon Disulfide	(0.01)	<0.01	
1,1-Dichloroethene	(0.01)	<0.01	
1,1-Dichloroethane	(0.01)	<0.01	
Chloroform	(0.01)	<0.01	
1,2-Dichloroethane	(0.01)	<0.01	
2-Butanone	(0.10)	<0.10	
1,1,1-Trichloroethane	(0.01)	<0.01	
Carbon Tetrachloride	(0.01)	<0.01	
Bromodichloromethane	(0.01)	<0.01	
1,2-Dichloropropane	(0.01)	<0.01	
cis-1,3-Dichloropropene	(0.01)	<0.01	
Trichloroethene	(0.01)	<0.01	
Dibromochloromethane	(0.01)	<0.01	
1,1,2-Trichloroethane	(0.01)	<0.01	
Benzene	(0.01)	<0.01	
trans-1,3-Dichloropropene	(0.01)	<0.01	
Bromoform	(0.01)	<0.01	
4-Methyl-2-Pentanone	(0.01)	<0.01	
2-Hexanone	(0.01)	<0.01	
Tetrachloroethene	(0.01)	<0.01	
1,1,2,2-Tetrachloroethane	(0.01)	<0.01	
Toluene	(0.01)	<0.01	
Chlorobenzene	(0.01)	<0.01	
Ethylbenzene	(0.01)	<0.01	
Styrene	(0.01)	<0.01	
P,M-Xylene	(0.01)	<0.01	
O-Xylene	(0.01)	<0.01	

Joel Kiff
Senior Chemist

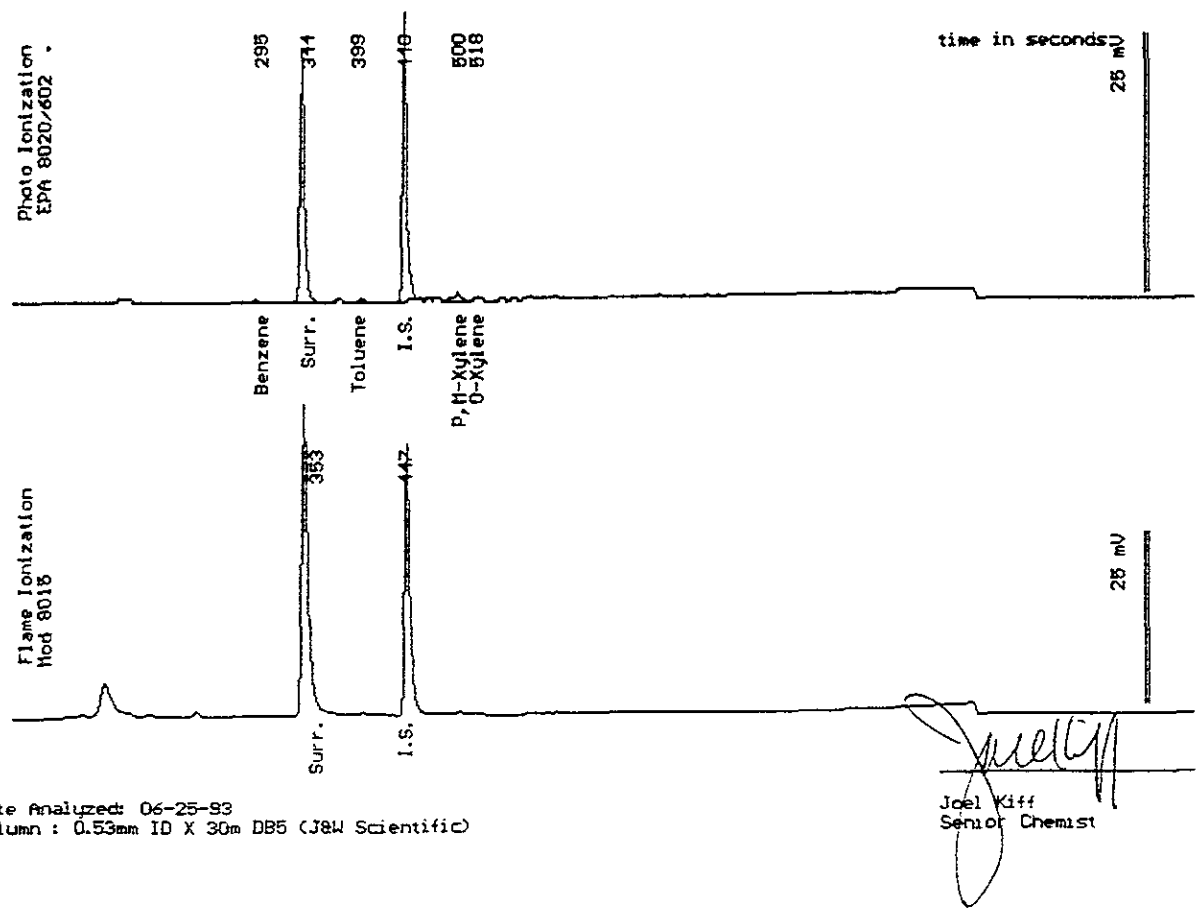
Sample Log 6748

6748-2

Sample: S-7-T1-2

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93
Dilution : 1:1 QC Batch : 6029h
Matrix : Soil

Parameter	(MRL) mg/kg	Measured Value mg/kg
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(.50)	<.50
Surrogate Recovery		81 %



Date Analyzed: 06-25-93
Column : 0.53mm ID X 30m DB5 (J&W Scientific)

Joel Kiff
Senior Chemist

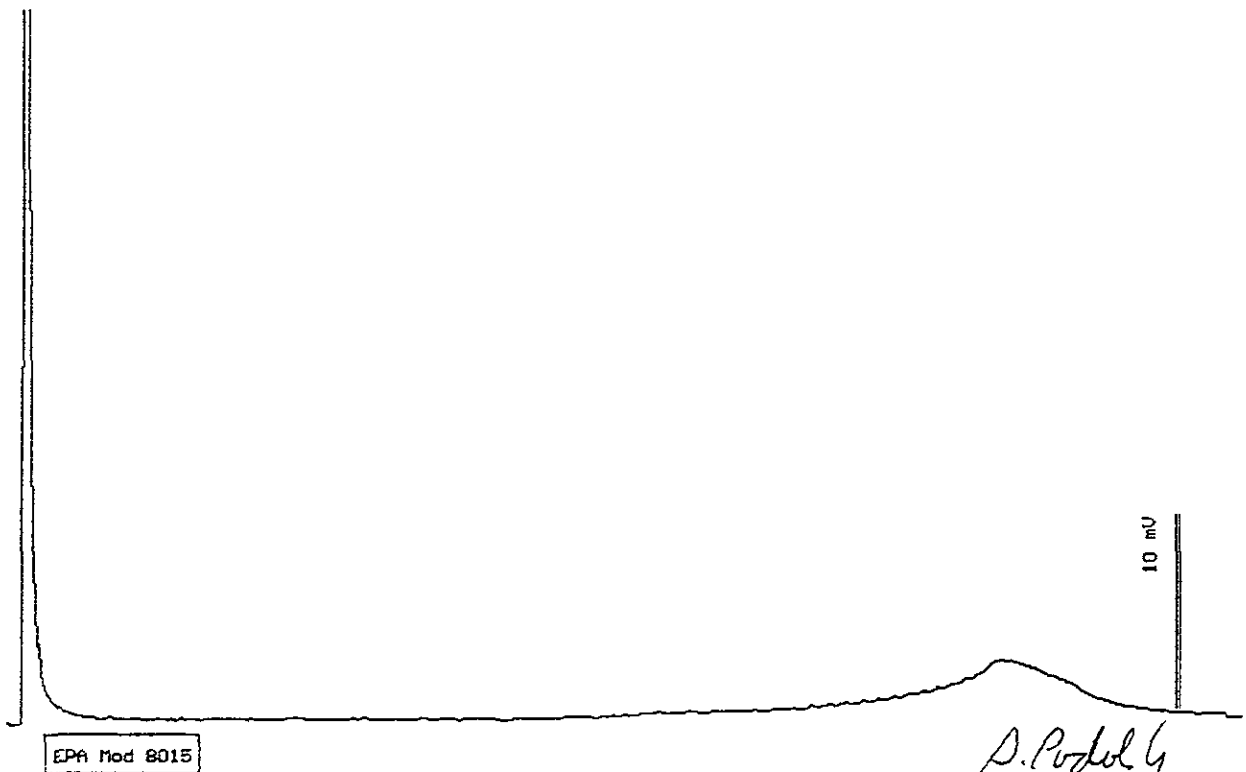
Sample Log 6748

6748-2

Sample: S-7-T1-2

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93
Extracted: 06/24/93
Dilution : 1:1 QC Batch : 7132h
Matrix : Soil

Parameter	(MDL) mg/kg	Measured Value mg/kg
TPH as Diesel	(10)	<10
TPH as Motor Oil	(10)	<10



EPA Mod 8015

Date: 06-25-93 Time: 06:34:58
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky
Senior Chemist

June 28, 1993
Sample Log 6748

Sample : S-7-T2-1
From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93 Received : 06/24/93
Matrix : Soil
Units : mg/kg Report As : Wet Weight

Metals

Parameter	MRL*	Date Digested	EPA Method	Date Analyzed	Conc.
Lead	(10)	06/25/93	6010	06/28/93	12

* MRL = Method Reporting Limit

Joel Kiff
Senior Chemist

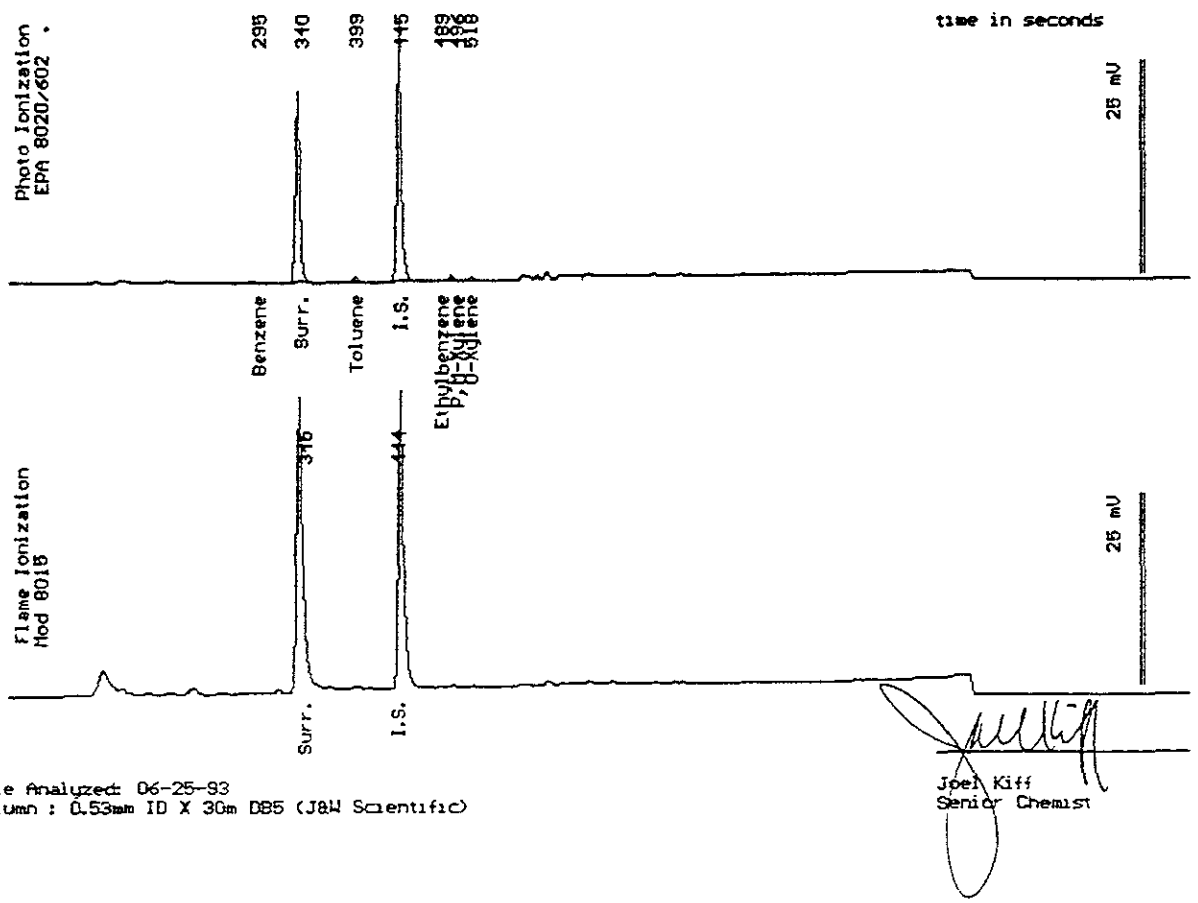
Sample Log 6748

6748-3

Sample: S-7-T2-1

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93
Dilution : 1:1 QC Batch : 6029h
Matrix : Soil

Parameter	(MRL) mg/kg	Measured Value mg/kg
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(.50)	<.50
Surrogate Recovery		68 %



Date Analyzed: 06-25-93
Column : 0.53mm ID X 30m DB5 (J&W Scientific)

Joel Kiff
Senior Chemist

June 28, 1993
Sample Log 6748

Sample : S-7-T2-2
From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93 Received : 06/24/93
Matrix : Soil
Units : mg/kg Report As : Wet Weight

Metals

Parameter	MRL*	Date Digested	EPA Method	Date Analyzed	Conc.
Lead	(10)	06/25/93	6010	06/28/93	<10

* MRL = Method Reporting Limit

Joel Kiff
Senior Chemist

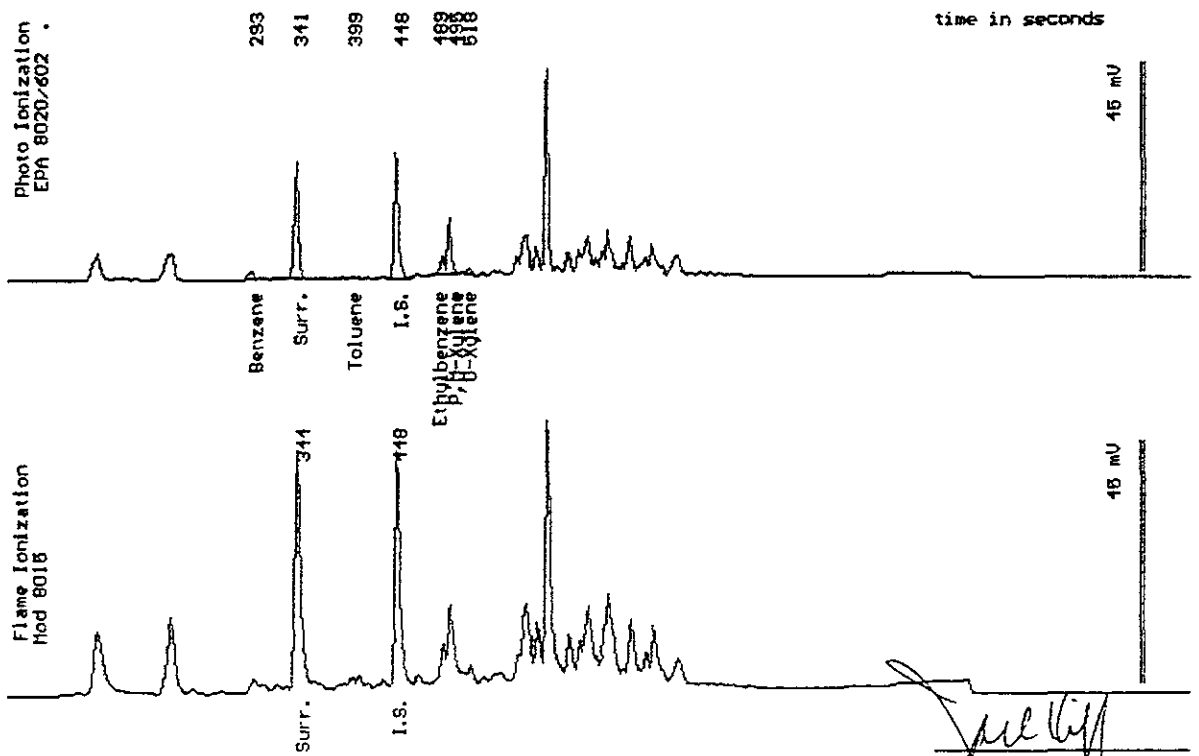
Sample Log 6748

6748-4

Sample: S-7-T2-2

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93
Dilution : 1:1 QC Batch : 6029h
Matrix : Soil

Parameter	(MRL) ug/kg	Measured Value ug/kg
Benzene	(.0050)	.015
Toluene	(.0050)	.0060
Ethylbenzene	(.0050)	.030
Total Xylenes	(.0050)	.094
TPH as Gasoline	(.50)	2.4
Surrogate Recovery		82 %



Date Analyzed: 06-25-93
Column : 0.53mm ID X 30m DB5 (J&W Scientific)

Joel Kiff
Senior Chemist

June 28, 1993
Sample Log 6748

QC Report for EPA 8020 & Modified EPA 8015

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sample(s) Received : 06/24/93

Parameter	Method Spike % Recovery	Method Spike Duplicate % Recovery	RPD *
Benzene	78	71	10
Ethylbenzene	85	77	11
TPH as Gasoline	78	80	3

* RPD = Relative Percent Difference

Parameter	Method Blank
Benzene	<0.005 mg/kg
Toluene	<0.005 mg/kg
Ethylbenzene	<0.005 mg/kg
Total Xylenes	<0.005 mg/kg
TPH as Gasoline	<0.50 mg/kg

Stewart Podolsky
Senior Chemist

June 28, 1993
Sample Log 6748

EPA 8240 System Monitoring Compound Recovery

Sample	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
S-7-T1-1	100	104	96		0
S-7-T1-2	98	99	93		0

	QC Limits
SMC1 (TOL) = Toluene-d8	(84-138)
SMC2 (BFB) = Bromofluorobenzene	(59-113)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of QC limits

D System Monitoring Compound diluted out

Joel Kiff
Senior Chemist

June 25, 1993
Sample Log 6747

Barbara Sieminski
Geostrategies, Inc.
2150 W Winton Ave.
Hayward, CA 94545

RECEIVED
JUL 1 - 1993
GeoStrategies Inc.

Subject: Analytical Results for 1 Water Sample
Identified as: Project # 6100.01 (Shamrock Ford, Dublin CA)
Received: 06/24/93

Dear Ms. Sieminski:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on June 25, 1993 and describes procedures used to analyze the samples.

The sample(s) were received in:

40ml voa vials sealed with TFE-lined septae
1-L polyethylene bottle sealed with polyethylene caps

Each sample was transported and received under documented chain of custody, assigned a consecutive log number and stored at 4 degrees Celsius until analysis commenced.

Sample(s) were analyzed using the following method(s):

"BTEX" (EPA Method 602/Purge-and-Trap)
"TPH as Gasoline" (Modified EPA Method 8015/Purge-and-Trap)
"Total Lead" (EPA 7421-GFAA)

Please refer to the following table(s) for summarized analytical results and contact us at 916-757-4650 if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:

Joel Kiff
Senior Chemist

June 25, 1993
Sample Log 6747

The following abbreviations and qualifiers may be present in the analytical reports to follow:

ug/L : Micrograms of target analyte in 1 Liter of sample.

mg/kg : Milligrams of target analyte in 1 kg of sample.

B : This data qualifier indicates that a method blank from the analytical batch contained this compound and the level found in the sample is within 5 times that level. Use data with caution.

J : This data qualifier indicates that the compound was detected at a level below the required reporting limit.

E : This data qualifier indicates that the compound was detected at a level above that defined by the highest level calibration standard.

C : This data qualifier indicates that the presence of the compound has been confirmed by GC/MS.

TCLP : Toxicity Characteristic Leaching Procedure

MS : Matrix Spike

MSD : Matrix Spike Duplicate

RPD : Relative Percent Difference (the difference between two values divided by the mean, expressed as a percentage.

% REC : Percent Recovery (the ratio between the measured value and the expected value for a spiked sample, expressed as a percentage.

< : Less than
> : Greater than

June 25, 1993
Sample Log 6747

Sample: W-7-T2

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/24/93
Received : 06/24/93
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Total Lead	(5.0)	16

Joel Kiff
Senior Chemist

Western Environmental Science & Technology · 45133 County Road 32B · Davis, CA 95616 · 916 753-9500 · FAX: 916 757-4652

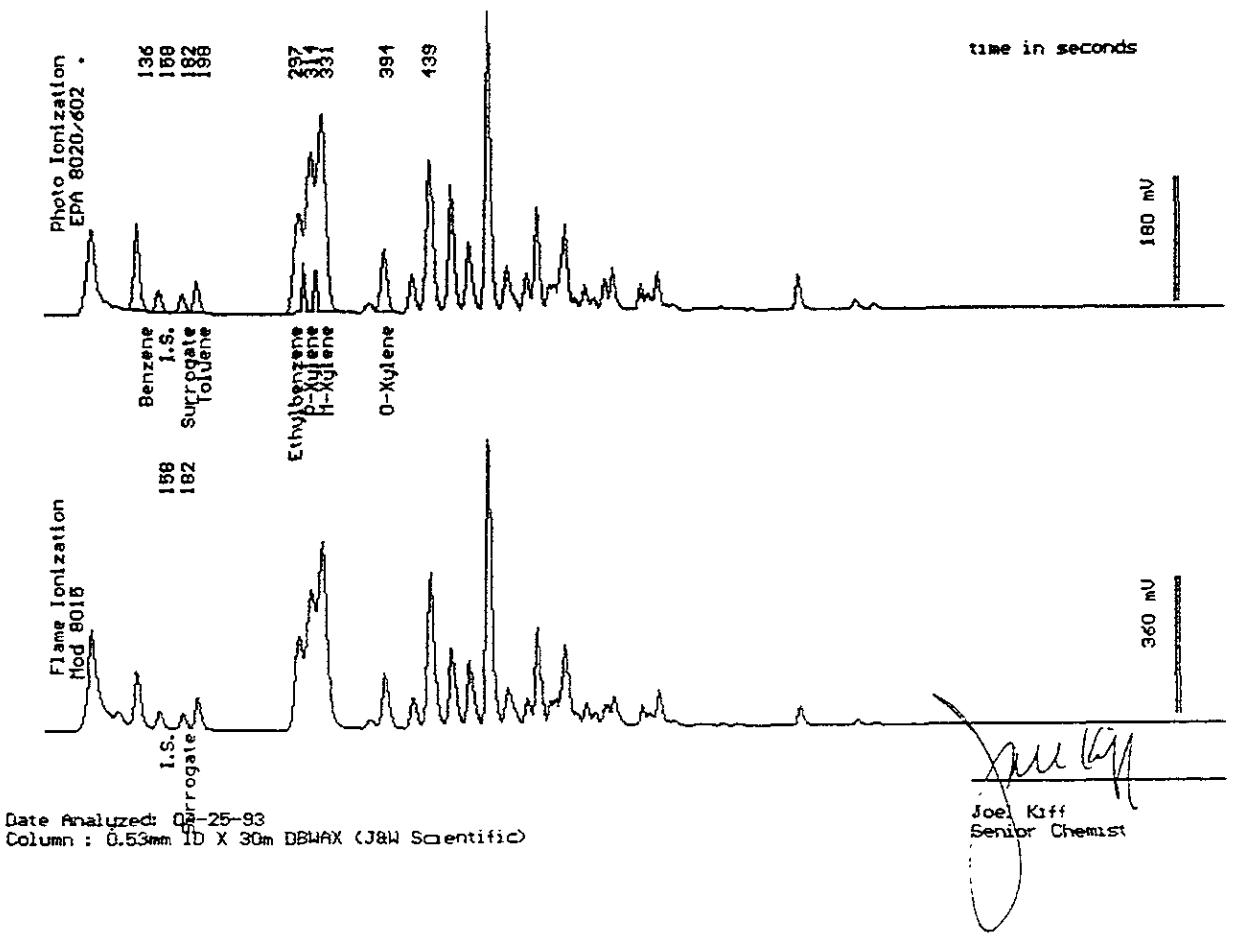
Sample Log 6747

6747-1

Sample: W-7-T2

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/24/93
Dilution : 1:1 QC Batch : 4015c
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.30)	67
Toluene	(.30)	40
Ethylbenzene	(.30)	170
Total Xylenes	(.50)	540
TPH as Gasoline	(50)	3600
Surrogate Recovery		77 %



Date Analyzed: 06-25-93
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

Gettler - Ryan Inc. — ENVIRONMENTAL DIVISION — 5102 Chain of Custod

COMPANY GEOSTRATEGIES — JOB NO 6100.01

JOB LOCATION SHAMROCK FORD, 7403 DUBLIN BLVD, DUBLIN, CA

CITY DUBLIN — PHONE NO. (510) 352-4800

AUTHORIZED Barbara Sieminski — DATE 06/23/93 — P.O. NO.

SAMPLE ID	NO. OF CONTAINERS	SAMPLE MATRIX	DATE/TIME SAMPLED	ANALYSIS REQUIRED	SAMPLE CONDITION LAB ID
W-7-T1	VOAs	water	6/24/93	TPH-Gas & BTEX (5030/8015/8020) Cl. HC (624)	
W-7-T1	2 x 1L	water	6/24/93	TPH-Diesel (3510)	
W-7-T1	2 x 1L	water	6/24/93	O&G (5520 B&F Grav)	
W-7-T1	1 x 1L	water	6/24/93	Pb, Cr, Cd, Ni, Zn	
W-7-T2	3 VOAs	water	6/24/93	TPH-Gas & BTEX (5030/8015/8020)	
W-7-T2	1 x 1L	water	6/24/93	Total Lead	

RELINQUISHED BY: B. Sieminski 6/24/93 5:29 PM — RECEIVED BY:

RELINQUISHED BY: — RECEIVED BY:

RELINQUISHED BY: — RECEIVED BY LAB: 6/24/93 5:29

DESIGNATED LABORATORY: Western Envir. Science & Tech DHS #: 1343

REMARKS: 24 hr turnaround time

Note: headspace in all VOAs upon arrival at Lab

RECEIVED by W.E.S.T. date 5/24/93

DATE COMPLETED — FOREMAN

ORIGINAL

July 2, 1993
Sample Log 6782

Barbara Sieminski
Geostrategies, Inc.
2150 W Winton Ave.
Hayward, CA 94545

Subject: Analytical Results for 1 Water Sample
Identified as: Project # 6100.01 (Shamrock Ford, 7499 Dublin)
Received: 06/29/93

Dear Ms. Sieminski:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on July 2, 1993 and describes procedures used to analyze the samples.

The sample(s) were received in:

40ml voa vials sealed with TFE-lined septae
1-L glass bottles sealed with TFE-lined caps
1-L polyethylene bottles sealed with polethylene caps

Each sample was transported and received under documented chain of custody, assigned a consecutive log number and stored at 4 degrees Celsius until analysis commenced.

Sample(s) were analyzed using the following method(s):

"BTEX" (EPA Method 602/Purge-and-Trap)
"TPH as Gasoline" (Modified EPA Method 8015/Purge-and-Trap)
"TPH as Diesel,Motor Oil,Jet/Kerosene" (Mod. 8015/Extraction)
"Metals by Atomic Absorption/ICAP" (EPA Methods 7000/6010/200.7)
"Oil and Grease" (ASTM Method 5520 B,F)
"Volatile Organic Proirity Pollutants" (EPA Method 624)

Please refer to the following table(s) for summarized analytical results and contact us at 916-757-4650 if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:

Joel Kiff
Senior Chemist

July 2, 1993
Sample Log 6782

The following abbreviations and qualifiers may be present in the analytical reports to follow:

ug/L : Micrograms of target analyte in 1 Liter of sample.

mg/kg : Milligrams of target analyte in 1 kg of sample.

B : This data qualifier indicates that a method blank from the analytical batch contained this compound and the level found in the sample is within 5 times that level. Use data with caution.

J : This data qualifier indicates that the compound was detected at a level below the required reporting limit.

E : This data qualifier indicates that the compound was detected at a level above that defined by the highest level calibration standard.

C : This data qualifier indicates that the presence of the compound has been confirmed by GC/MS.

TCLP : Toxicity Characteristic Leaching Procedure

MS : Matrix Spike

MSD : Matrix Spike Duplicate

RPD : Relative Percent Difference (the difference between two values divided by the mean, expressed as a percentage.

% REC : Percent Recovery (the ratio between the measured value and the expected value for a spiked sample, expressed as a percentage.

< : Less than
> : Greater than

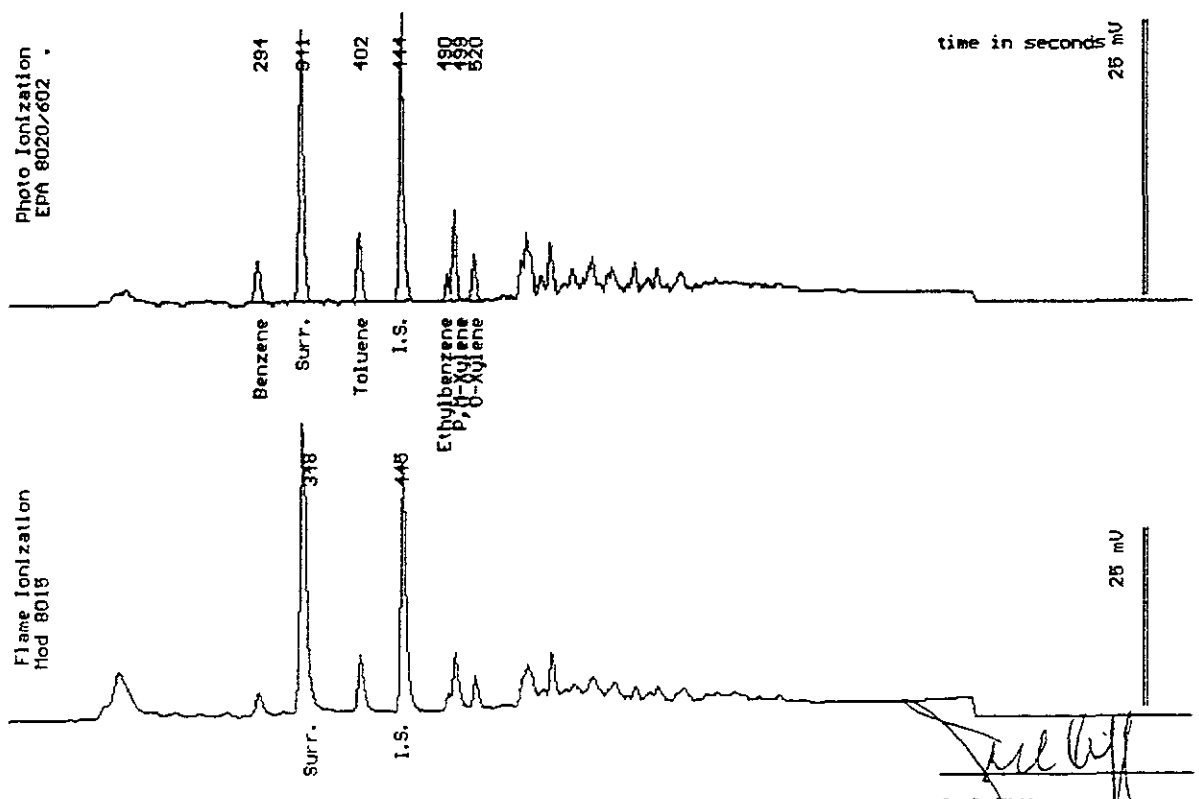
Sample Log 6782

6782-1

Sample: W-7-T1

From : Project # 6100.01 (Shamrock Ford, 7499 Dublin)
Sampled : 06/29/93
Dilution : 1:1 QC Batch : 6031b
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L	
Benzene	(.30)	3.4	
Toluene	(.30)	6.5	
Ethylbenzene	(.30)	2.2	
Total Xylenes	(.50)	11	
TPH as Gasoline	(50)	150	
Surrogate Recovery		106	%



Date Analyzed: 06-30-93
Column : 0.53mm ID X 30m DB5 (J&W Scientific)

Joel Kiff
Senior Chemist

Sample Log 6782

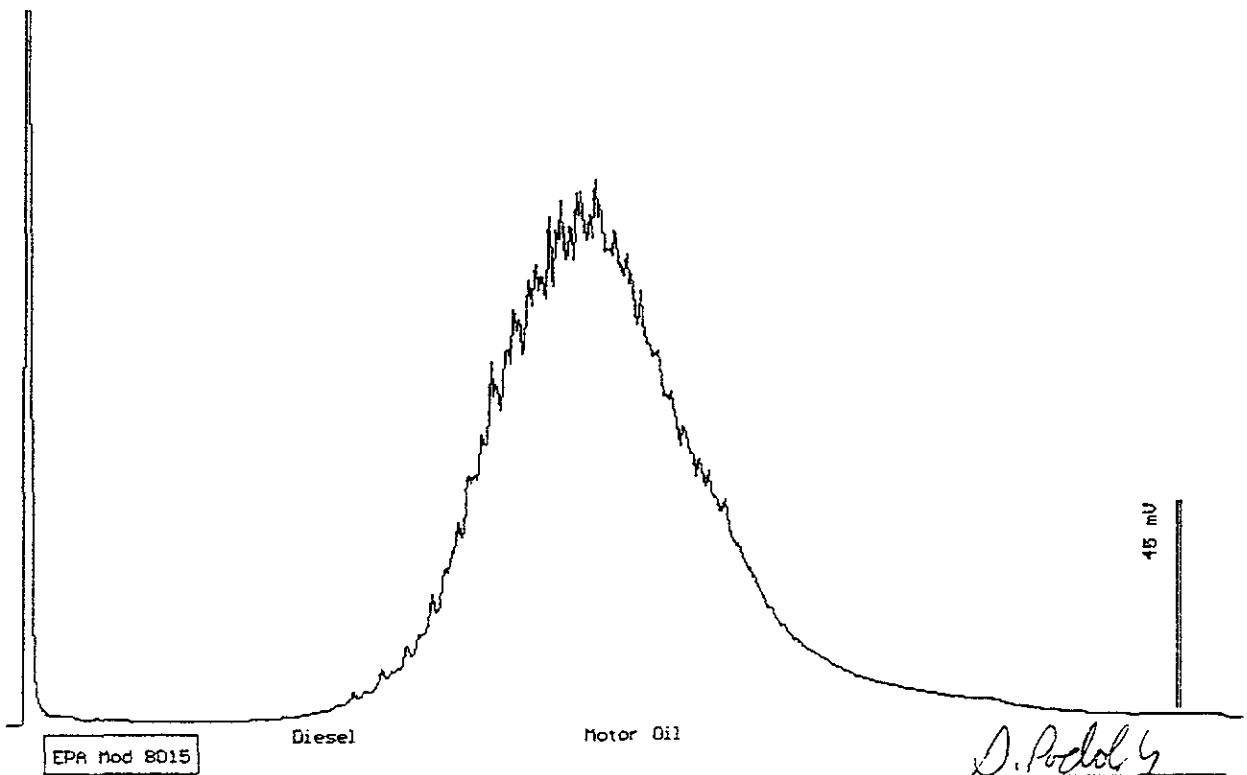
6782-1

Sample: W-7-T1

From : Project # 6100.01 (Shamrock Ford, 7499 Dublin)
Sampled : 06/29/93
Extracted: 06/29/93
Dilution : 1:1 QC Batch : 7134D
Matrix : Water

Parameter	(MDL) ug/L	Measured Value ug/L
TPH as Diesel	(100)	<100 *
TPH as Motor Oil	(50)	8600

* Increased reporting limit due to oil interference.



Date: 06-30-93 Time: 13:53:19
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

D. Podolsky

Stewart Podolsky
Senior Chemist

Western Environmental Science & Technology · 45133 County Road 32B · Davis, CA 95616 · 916 753-9500 · FAX: 916 757-4652

July 2, 1993
Sample Log 6782

Sample: W-7-T1

From : Project # 6100.01 (Shamrock Ford, 7499 Dublin)
Sampled : 06/29/93
Received : 06/29/93
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Cadmium	(2.0)	17
Chromium	(5.0)	460
Lead	(5.0)	850
Zinc	(10)	530
Nickel	(10)	1200
Oil/Grease (5520B,F)	(1000)	2200

Joel Kiff
Senior Chemist

Western Environmental Science & Technology · 45133 County Road 32B · Davis, CA 95616 · 916 753-9500 · FAX 916 757-4652

July 2, 1993
Sample Log 6782

Sample: W-7-T1

From : Project # 6100.01 (Shamrock Ford, 7499 Dublin)
Sampled : 06/29/93 Received : 06/29/93
Matrix : Water Analyzed : 07/01/93

624 - Volatile Organic Priority Pollutants

Parameter	(MRL) ug/L	Measured Value ug/L	Flag
Chloromethane	(2.0)	< 2.0	
Bromomethane	(2.0)	< 2.0	
cis-1,2-Dichloroethene	(2.0)	< 2.0	
trans-1,2-Dichloroethene	(2.0)	< 2.0	
Vinyl Chloride	(2.0)	< 2.0	
Chloroethane	(2.0)	< 2.0	
Methylene Chloride	**(2.0)**	**4.4**	**B**
Acetone	**(20)**	**34**	**B**
Carbon Disulfide	(2.0)	< 2.0	
1,1-Dichloroethene	(2.0)	< 2.0	
1,1-Dichloroethane	(2.0)	< 2.0	
Chloroform	(2.0)	< 2.0	
1,2-Dichloroethane	(2.0)	< 2.0	
2-Butanone	(20)	< 20	
1,1,1-Trichloroethane	(2.0)	< 2.0	
Carbon Tetrachloride	(2.0)	< 2.0	
Bromodichloromethane	(2.0)	< 2.0	
1,2-Dichloropropane	(2.0)	< 2.0	
cis-1,3-Dichloropropene	(2.0)	< 2.0	
Trichloroethene	(2.0)	< 2.0	
Dibromochloromethane	(2.0)	< 2.0	
1,1,2-Trichloroethane	(2.0)	< 2.0	
Benzene	**(2.0)**	**2.6**	
trans-1,3-Dichloropropene	(2.0)	< 2.0	
Bromoform	(2.0)	< 2.0	
4-Methyl-2-Pentanone	(2.0)	< 2.0	
2-Hexanone	(2.0)	< 2.0	
Tetrachloroethene	(2.0)	< 2.0	
1,1,2,2-Tetrachloroethane	(2.0)	< 2.0	
Toluene	**(2.0)**	**6.1**	
Chlorobenzene	(2.0)	< 2.0	
Ethylbenzene	(2.0)	< 2.0	
Styrene	(2.0)	< 2.0	
P,M-Xylene	(2.0)	5.6	
O-Xylene	(2.0)	3.2	

Joel Kiff
Senior Chemist

Western Environmental Science & Technology · 45133 County Road 32B · Davis, CA 95616 · 916 753-9500 · FAX: 916 757-4652

July 2, 1993
Sample Log 6782

EPA 624 System Monitoring Compound Recovery

Sample	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
W-7-T1	99	87	82		0

	QC Limits
SMC1 (TOL) = Toluene-d8	(88-120)
SMC2 (BFB) = Bromofluorobenzene	(86-120)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of QC limits

D System Monitoring Compound diluted out

Joel Kiff
Senior Chemist

Western Environmental Science & Technology · 45133 County Road 32B · Davis, CA 95616 · 916 753-9500 · FAX: 916 757-4652

Gettler - Ryan Inc. ENVIRONMENTAL DIVISION — 5108 Chain of Custody

COMPANY _____ JOB NO 6100.01

JOB LOCATION Shamrock ~~Ford~~, 7499 Dublin Blvd, Dublin, CA

CITY DUBLIN PHONE NO. _____

AUTHORIZED Barbara Sieminski DATE 06/29/93 P.O. NO. _____

SAMPLE ID	NO OF CONTAINERS	SAMPLE MATRIX	DATE/TIME SAMPLED	ANALYSIS REQUIRED	SAMPLE CONDITION LAB ID
W-7-T1	3	water	6/29/93	TPH-Gas & BTEX (5030/8015/8020)	
W-7-T1	2	water	6/29/93	Cl HC (624)	
W-7-T1	2	water	6/29/93	TPH-Diesel (3510)	
W-7-T1	2	water	6/29/93	O&G (5520 B&F, Gravi)	
W-7-T1	1	water	6/29/93	Metals: Cd, Cr, Pb, Zn, Ni	

RELINQUISHED BY: Barbara Sieminski 6/29/93 15:50

RECEIVED BY: Ivy L. Luyun 6-29-93 15:50

RELINQUISHED BY: Ivy L. Luyun 6-29-93 17:50

RECEIVED BY: _____

RELINQUISHED BY: _____

RECEIVED BY LAB: Mike Powell 6-29-93 17:46

DESIGNATED LABORATORY: _____ DHS #: _____

REMARKS: 48 hr turnaround time.

RECEIVED by W.E.S.T. date 6/29/93 0°C

DATE COMPLETED _____ FOREMAN _____

ORIGINAL

July 8, 1993
Sample Log 6749

Barbara Sieminski
Geostrategies, Inc.
2150 W Winton Ave.
Hayward, CA 94545

Subject: Analytical Results for 1 Soil Sample
Identified as: Project # 6100.01 (Shamrock Ford, Dublin CA)
Received: 06/24/93

Dear Ms. Sieminski:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on June 28, 1993 and describes procedures used to analyze the samples.

The sample(s) were received in:

Stainless steel sleeves with endcaps

Each sample was transported and received under documented chain of custody, assigned a consecutive log number and stored at 4 degrees Celsius until analysis commenced.

Sample(s) were analyzed using the following method(s):

"BTEX" (EPA Method 8020/Purge-and-Trap)
"TPH as Gasoline" (Modified EPA Method 8015/Purge-and-Trap)
"Total Recoverable Petroleum Hydrocarbons" (EPA 418.1)
"Volatile Organic Priority Pollutants" (EPA Method 8260)
"Semi-Volatile Organic Priority Pollutants" (EPA Method 8270)
"Metals" (EPA 6010,7000)
"RCI" (Reactivity, Corrosivity, Ignitability)
"Waste Extraction Test for Lead"

Please refer to the following table(s) for summarized analytical results and contact us at 916-757-4650 if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:

Joel Kiff
Senior Chemist

The following abbreviations and qualifiers may be present in the analytical reports to follow:

ug/L : Micrograms of target analyte in 1 Liter of sample.

mg/kg : Milligrams of target analyte in 1 kg of sample.

B : This data qualifier indicates that a method blank from the analytical batch contained this compound and the level found in the sample is within 5 times that level. Use data with caution.

J : This data qualifier indicates that the compound was detected at a level below the required reporting limit.

E : This data qualifier indicates that the compound was detected at a level above that defined by the highest level calibration standard.

C : This data qualifier indicates that the presence of the compound has been confirmed by GC/MS.

TCLP : Toxicity Characteristic Leaching Procedure

MS : Matrix Spike

MSD : Matrix Spike Duplicate

RPD : Relative Percent Difference (the difference between two values divided by the mean, expressed as a percentage.

% REC : Percent Recovery (the ratio between the measured value and the expected value for a spiked sample, expressed as a percentage.

< : Less than
> : Greater than

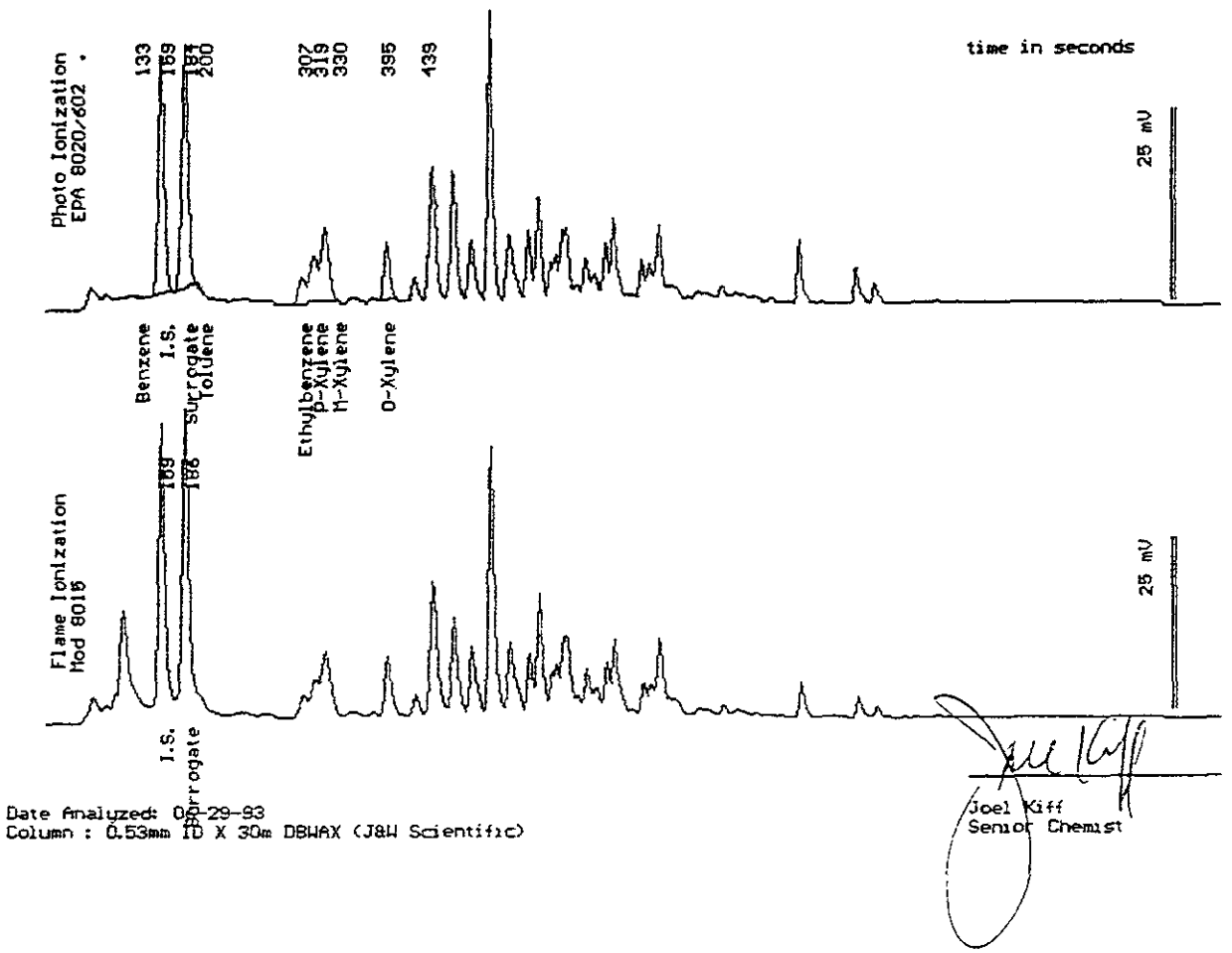
Sample Log 6749

6749-1

Sample: SP-1A,B,C,D

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93
Dilution : 1:1 QC Batch : 4016B
Matrix : Soil

Parameter	(MRL) mg/kg	Measured Value mg/kg
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	.012
Total Xylenes	(.0050)	.076
TPH as Gasoline	(.50)	1.1
Surrogate Recovery		108 %



Date Analyzed: 06-29-93
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

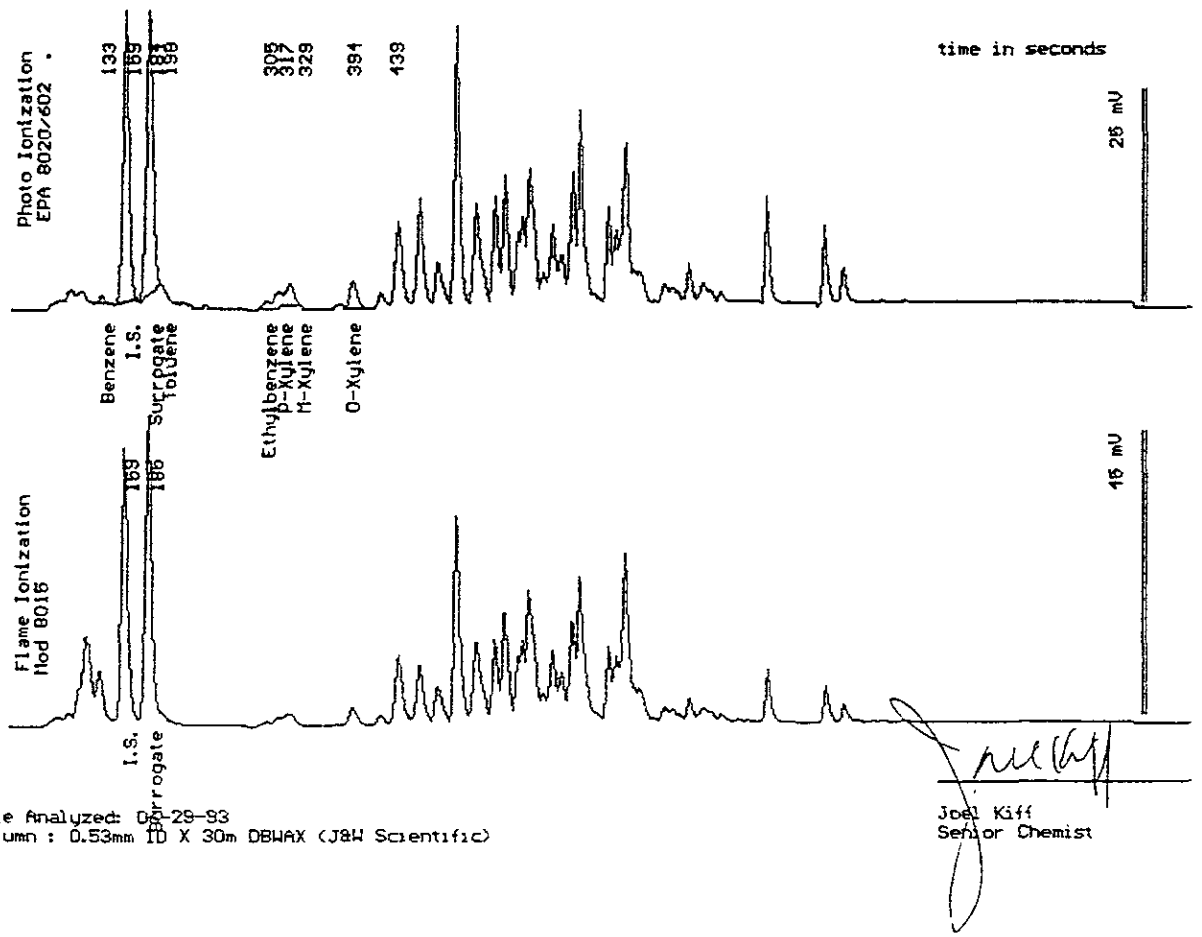
Sample Log 6749

6749-1

Sample: SP-1A,B,C,D

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93
Dilution : 1:1 QC Batch : 4016B
Matrix : TCLP Extract

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.30)	<.30
Toluene	(.30)	<.30
Ethylbenzene	(.30)	<.30
Total Xylenes	(.50)	1.4
TPH as Gasoline	(50)	61
Surrogate Recovery		109 %



Date Analyzed: 06-29-93
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

June 29, 1993
Sample Log 6749

Sample: SP-1A,B,C,D

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93
Received : 06/24/93
Matrix : Soil

Parameter	(MRL) mg/kg	Measured Value mg/kg
Reactive Cyanide	(1.0)	<1.0
Reactive Sulfide	(10)	<10
pH		8.8 pH
Flashpoint		> 140 F
Pb in WET Extract	(.005 mg/L)	0.19 mg/L

Joel Kiff
Senior Chemist

July 8, 1993
Sample Log 6749

Sample : SP-1A,B,C,D
From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93 Received : 06/24/93
Matrix : Citric Acid Extract of Soil

CCR 17 Metals

Parameter	MRL*	EPA Method	Measured Value	Units
Antimony	(.030)	6010	<.030	mg/L
Arsenic	(.10)	7060	.28	mg/L
Barium	(.0050)	6010	6.2	mg/L
Beryllium	(.0010)	6010	.0045	mg/L
Cadmium	(.0020)	6010	.016	mg/L
Chromium	(.0050)	6010	.066	mg/L
Cobalt	(.0050)	6010	.21	mg/L
Copper	(.010)	6010	.16	mg/L
Lead	(.010)	7421	.17	mg/L
Mercury	(.0050)	7471	<.0050	mg/L
Molybdenum	(.010)	6010	<.010	mg/L
Nickel	(.010)	6010	.44	mg/L
Selenium	(.020)	7740	.025	mg/L
Silver	(.0050)	6010	<.0050	mg/L
Thallium	(.010)	7841	<.010	mg/L
Vanadium	(.0050)	6010	.36	mg/L
Zinc	(.010)	6010	1.0	mg/L

* MRL = Method Reporting Limit

Joel Kiff
Senior Chemist

July 8, 1993
Sample Log 6749

Sample: SP-1A,B,C,D

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93 Received : 06/24/93
Matrix : Soil Analyzed : 07/07/93

8240 - Volatile Organic Priority Pollutants

Parameter	(MRL) ug/kg	Measured Value ug/kg	Flag
Chloromethane	(0.01)	<0.01	
Bromomethane	(0.01)	<0.01	
cis-1,2-Dichloroethene	(0.01)	<0.01	
trans-1,2-Dichloroethene	(0.01)	<0.01	
Vinyl Chloride	(0.01)	<0.01	
Chloroethane	(0.01)	<0.01	
Methylene Chloride	(0.01)	<0.01	
Acetone	(0.10)	<0.10	
Carbon Disulfide	(0.01)	<0.01	
1,1-Dichloroethene	(0.01)	<0.01	
1,1-Dichloroethane	(0.01)	<0.01	
Chloroform	(0.01)	<0.01	
1,2-Dichloroethane	(0.01)	<0.01	
2-Butanone	(0.10)	<0.10	
1,1,1-Trichloroethane	(0.01)	<0.01	
Carbon Tetrachloride	(0.01)	<0.01	
Bromodichloromethane	(0.01)	<0.01	
1,2-Dichloropropane	(0.01)	<0.01	
cis-1,3-Dichloropropene	(0.01)	<0.01	
Trichloroethene	(0.01)	<0.01	
Dibromochloromethane	(0.01)	<0.01	
1,1,2-Trichloroethane	(0.01)	<0.01	
Benzene	(0.01)	<0.01	
trans-1,3-Dichloropropene	(0.01)	<0.01	
Bromoform	(0.01)	<0.01	
4-Methyl-2-Pentanone	(0.01)	<0.01	
2-Hexanone	(0.01)	<0.01	
Tetrachloroethene	(0.01)	<0.01	
1,1,2,2-Tetrachloroethane	(0.01)	<0.01	
Toluene	(0.01)	<0.01	
Chlorobenzene	(0.01)	<0.01	
Ethylbenzene	(0.01)	<0.01	
Styrene	(0.01)	<0.01	
P,M-Xylene	(0.01)	.011	
O-Xylene	(0.01)	.010	

Joel Kiff
Senior Chemist

July 8, 1993
Sample Log 6749

Sample: SP-1A,B,C,D

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93 Received : 06/24/93
Matrix : Soil Analyzed : 07/06/93
Extracted : 06/30/93

8270 - Semi Volatile Organic Priority Pollutants

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Acenaphthene	(0.70)	<0.70	
Acenaphthylene	(0.70)	<0.70	
Anthracene	(0.70)	<0.70	
Benzo (a) anthracene	(0.70)	<0.70	
Benzo (b) fluoranthene	(0.70)	<0.70	
Benzo (k) fluoranthene	(0.70)	<0.70	
Benzo (a) pyrene	(0.70)	<0.70	
Benzo (ghi) perylene	(0.70)	<0.70	
Butyl benzyl phthalate	(0.70)	<0.70	
bis (2-chloroethyl) ether	(0.70)	<0.70	
bis (2-chloroethoxy) methane	(0.70)	<0.70	
bis (2-ethylhexyl) phthalate	(3.4)	< 3.4	
bis (2-chloroisopropyl) ether	(0.70)	<0.70	
4-Bromophenyl phenyl ether	(0.70)	<0.70	
2-Chloronaphthalene	(0.70)	<0.70	
4-Chlorophenyl phenyl ether	(0.70)	<0.70	
Chrysene	(0.70)	<0.70	
Dibenzo (ah) anthracene	(0.70)	<0.70	
Di-n-butyl phthalate	(0.70)	<0.70	
Di-n-octyl phthalate	(0.70)	<0.70	
1,3-Dichlorobenzene	(0.70)	<0.70	
1,2-Dichlorobenzene	(0.70)	<0.70	
1,4-Dichlorobenzene	(0.70)	<0.70	
3,3'-Dichlorobenzidine	(0.70)	<0.70	
Diethyl phthalate	(0.70)	<0.70	
Dimethyl phthalate	(0.70)	<0.70	
2,4-Dinitrotoluene	(0.70)	<0.70	

Joel Kiff
Senior Chemist

July 8, 1993
Sample Log 6749

Sample: SP-1A,B,C,D

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93 Received : 06/24/93
Matrix : Soil Analyzed : 07/06/93
Extracted : 06/30/93

8270 - Semi Volatile Organic Priority Pollutants

Parameter	(MRL) ug/kg	Measured Value ug/kg	Flag
2,6-Dinitrotoluene	(0.70)	<0.70	
Fluoranthene	(0.70)	<0.70	
Fluorene	(0.70)	<0.70	
Hexachlorobenzene	(0.70)	<0.70	
Hexachlorobutadiene	(0.70)	<0.70	
Hexachloroethane	(0.70)	<0.70	
Indeno (1,2,3-cd) pyrene	(0.70)	<0.70	
Isophorone	(0.70)	<0.70	
Naphthalene	(0.70)	<0.70	
Nitrobenzene	(0.70)	<0.70	
n-Nitrosodi-n-propylamine	(0.70)	<0.70	
Phenanthrene	(0.70)	<0.70	
Pyrene	(0.70)	<0.70	
1,2,4-Trichlorobenzene	(0.70)	<0.70	
Benzidine	(17)	< 17	
Hexachlorocyclopentadiene	(0.70)	<0.70	
n-Nitrosodimethylamine	(0.70)	<0.70	
n-Nitrosodiphenylamine	(0.70)	<0.70	
4-Chloro-3-methylphenol	(0.70)	<0.70	
2-Chlorophenol	(0.70)	<0.70	
2,4-Dichlorophenol	(0.70)	<0.70	
2,4-Dimethylphenol	(0.70)	<0.70	
2,4-Dinitrophenol	(0.70)	<0.70	
2-Methyl-4,6-dinitrophenol	(0.70)	<0.70	
2-Nitrophenol	(0.70)	<0.70	
4-Nitrophenol	(0.70)	<0.70	
Pentachlorophenol	(0.70)	<0.70	
Phenol	(0.70)	<0.70	
2,4,6-Trichlorophenol	(0.70)	<0.70	

Joel Kiff
Senior Chemist

July 8, 1993
Sample Log 6749

Sample: SP-1A,B,C,D

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93
Received : 06/24/93
Matrix : Soil

Parameter	(MRL) mg/kg	Measured Value mg/kg
TRPH (418.1)	(30)	460

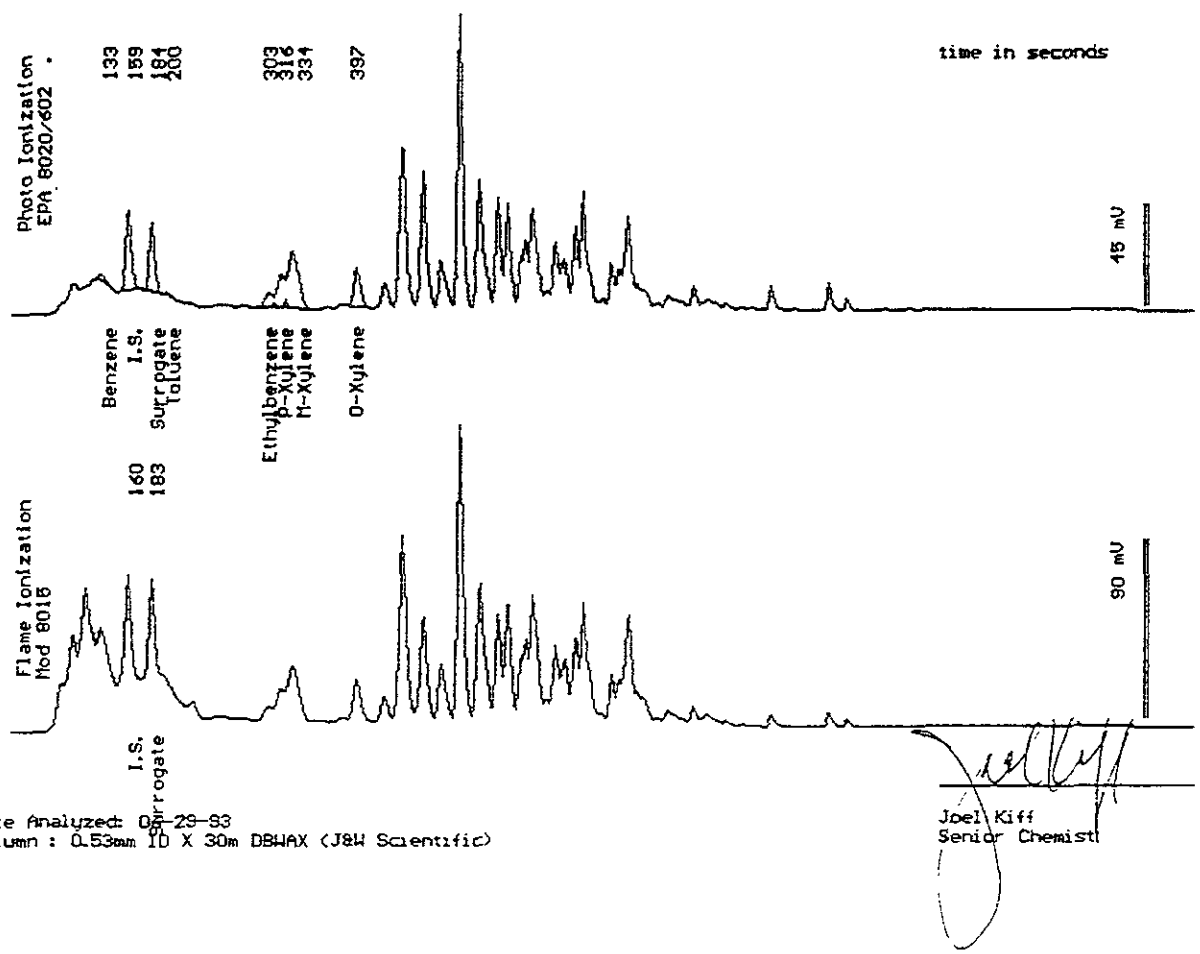
Joel Kiff
Senior Chemist

Sample Log 6749
6749-2

Sample: SP2A,B,C,D

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93
Dilution : 1:100 QC Batch : 4016D
Matrix : Soil

Parameter	(MRL) ug/kg	Measured Value ug/kg
Benzene	(.50)	.64
Toluene	(.50)	<.50
Ethylbenzene	(.50)	2.4
Total Xylenes	(.50)	22
TPH as Gasoline	(50)	460
Surrogate Recovery		78 %



Date Analyzed: 06-29-93
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

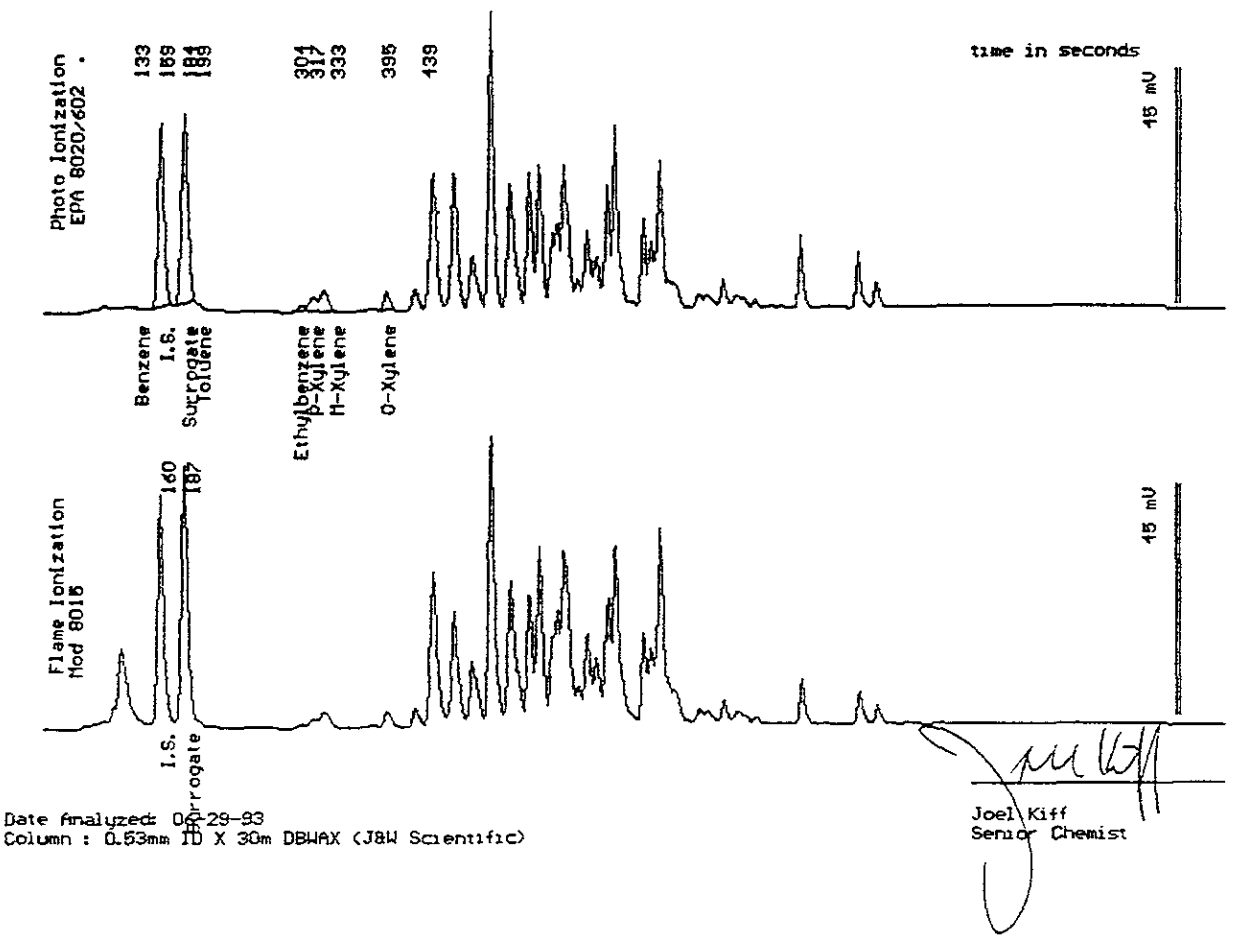
Joel Kiff
Senior Chemist

Sample Log 6749
6749-2

Sample: SP2A,B,C,D

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93
Dilution : 1:5 QC Batch : 4016B
Matrix : TCLP Extract

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(1.5)	<1.5
Toluene	(1.5)	<1.5
Ethylbenzene	(1.5)	4.7
Total Xylenes	(2.5)	36
TPH as Gasoline	(250)	1800
Surrogate Recovery		112 %



Date Analyzed: 06-29-93
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

June 29, 1993
Sample Log 6749

Sample: SP-2A,B,C,D

From : Project # 6100.01 (Shamrock Ford, Dublin CA)
Sampled : 06/23/93
Received : 06/24/93
Matrix : Soil

Parameter	(MRL) mg/kg	Measured Value mg/kg
Reactive Cyanide	(1.0)	<1.0
Reactive Sulfide	(10)	<10
pH		8.7 pH
Flashpoint		> 140 F
Pb in WET Extract	(.005 mg/L)	0.064 mg/L

Joel Kiff
Senior Chemist

July 8, 1993
Sample Log 6749

EPA 8270 System Monitoring Compound Recovery

Sample	SMC1 (NBZ)#	SMC2 (FBP)#	SMC3 (TPH)#	SMC4 (PHL)#	SMC5 (2FP)#	SMC6 (TBF)#	OTHER	TOT OUT
SP-1A,B,C,D	94	108	118	95	87	121		0

	QC Limits
SMC1 (NBZ) = Nitrobenzene-d5	(23-120)
SMC2 (FBP) = 2-Fluorobiphenyl	(30-115)
SMC3 (TPH) = Terphenyl-d14	(18-137)
SMC4 (PHL) = Phenol-d6	(24-113)
SMC5 (2FP) = 2-Fluorophenol	(25-121)
SMC6 (TBF) = 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values

* Values outside of QC limits

D System Monitoring Compound diluted out

Joel Kiff
Senior Chemist

July 8, 1993
Sample Log 6749

EPA 8240 System Monitoring Compound Recovery

Sample	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
SP-1A,B,C,D	104	115	111		0

	QC Limits
SMC1 (TOL) = Toluene-d8	(84-138)
SMC2 (BFB) = Bromofluorobenzene	(59-113)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of QC limits

D System Monitoring Compound diluted out

Joel Kiff
Senior Chemist

Gettler - Ryan Inc. ENVIRONMENTAL DIVISION

5103 **Chain of Custody**

COMPANY GEOSTRATEGIES JOB NO 6100.01

JOB LOCATION SHAMROCK FORD, 7499 DUBLIN BLVD.

CITY DUBLIN PHONE NO. (510) 352-4800

AUTHORIZED Barbara Sieminski DATE 06/23/93 P.O. NO.

SAMPLE ID	NO. OF CONTAINERS	SAMPLE MATRIX	DATE/TIME SAMPLED	ANALYSIS REQUIRED	SAMPLE CONDITION LAB ID
SP1A (Composite)	1	Soil	6/23/93	RCI, TPH-Gas, STLC lead, TCLP-BTEX	TRPH(418.1) ~~VOPP(8200)~~ SVOPP(8270) Metals (CAM 17)
SP1B (Composite)	1	soil	6/23/93		
SP1C (Composite)	1	Soil	6/23/93		
SP1D (Composite)	1	Soil	6/23/93		
SP2A (Composite)	1	soil	6/23/93		
SP2B (Composite)	1	soil	6/23/93		
SP2C (Composite)	1	soil	6/23/93		
SP2D (Composite)	1	soil	6/23/93	V	

RELINQUISHED BY: B. Sieminski 6/24/93 5:29 PM

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY LAB: 6/24/93 5:29

DESIGNATED LABORATORY: Western Envir. Science & Tech DHS #: 1346

REMARKS: 24 hr turnaround time, composite samples SP1A through SP1D and SP2A through SP2D.

RECEIVED by W.E.S.T. date 6/24

DATE COMPLETED FOREMAN

ORIGINAL

July 13, 1993
Sample Log 6852

Barbara Sieminski
Geostrategies, Inc.
2150 W Winton Ave.
Hayward, CA 94545

Subject: Analytical Results for 1 Soil Sample
Identified as: Project # 6100.01 (Shamrock Ford, 7499 Dublin)
Received: 07/09/93

Dear Ms. Sieminski:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on July 13, 1993 and describes procedures used to analyze the samples.

The sample(s) were received in:

Stainless steel sleeves with endcaps

Each sample was transported and received under documented chain of custody, assigned a consecutive log number and stored at 4 degrees Celsius until analysis commenced.

Sample(s) were analyzed using the following method(s):

"BTEX" (EPA Method 8020/Purge-and-Trap)
"TPH as Gasoline" (Modified EPA Method 8015/Purge-and-Trap)
"TCLP" (EPA Method 1311)

Please refer to the following table(s) for summarized analytical results and contact us at 916-757-4650 if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:

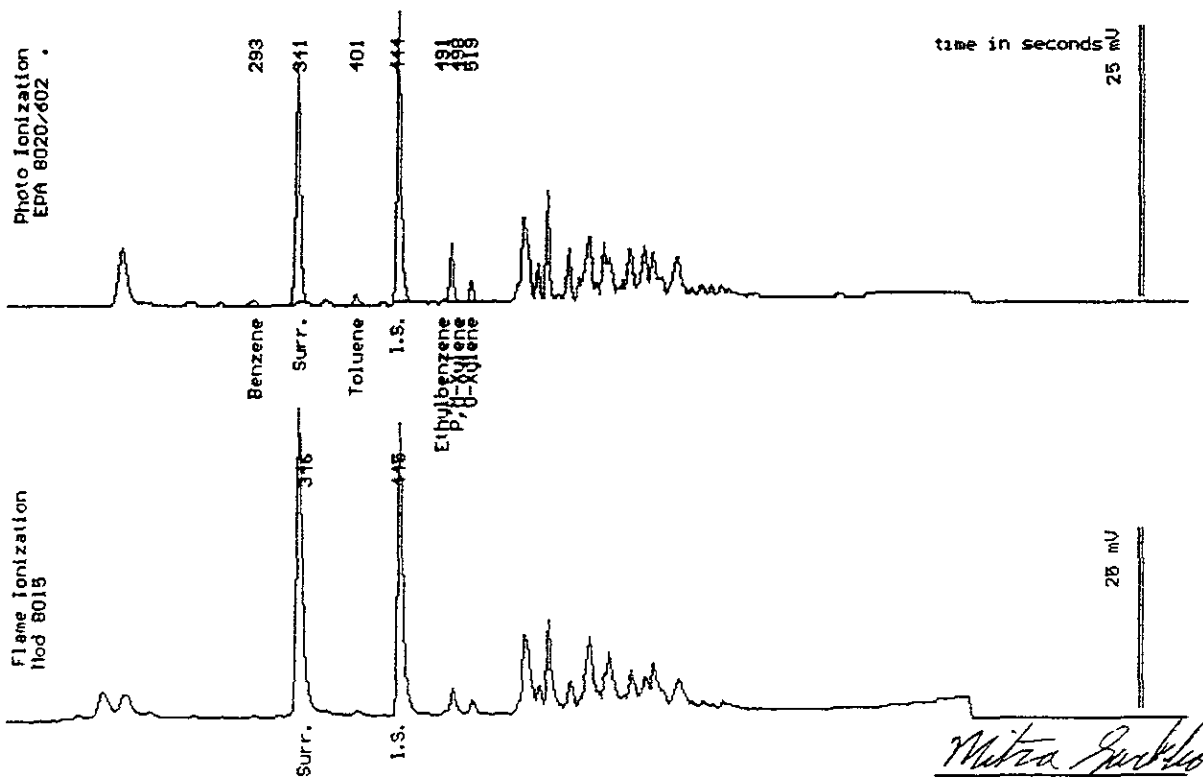
Joel Kiff
Senior Chemist

Sample Log 6852
6852-1

Sample: SP2A,B,C,D

From : Project # 6100.01 (Shamrock Ford, 7499 Dublin)
Sampled : 07/09/93
Dilution : 1:1 QC Batch : 6034a
Matrix : TCLP Extract

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.30)	<.30
Toluene	(.30)	<.30
Ethylbenzene	(.30)	<.30
Total Xylenes	(.50)	1.4
Surrogate Recovery		114 %



Date Analyzed: 07-12-93
Column : 0.53mm ID X 30m DB5 (J&W Scientific)

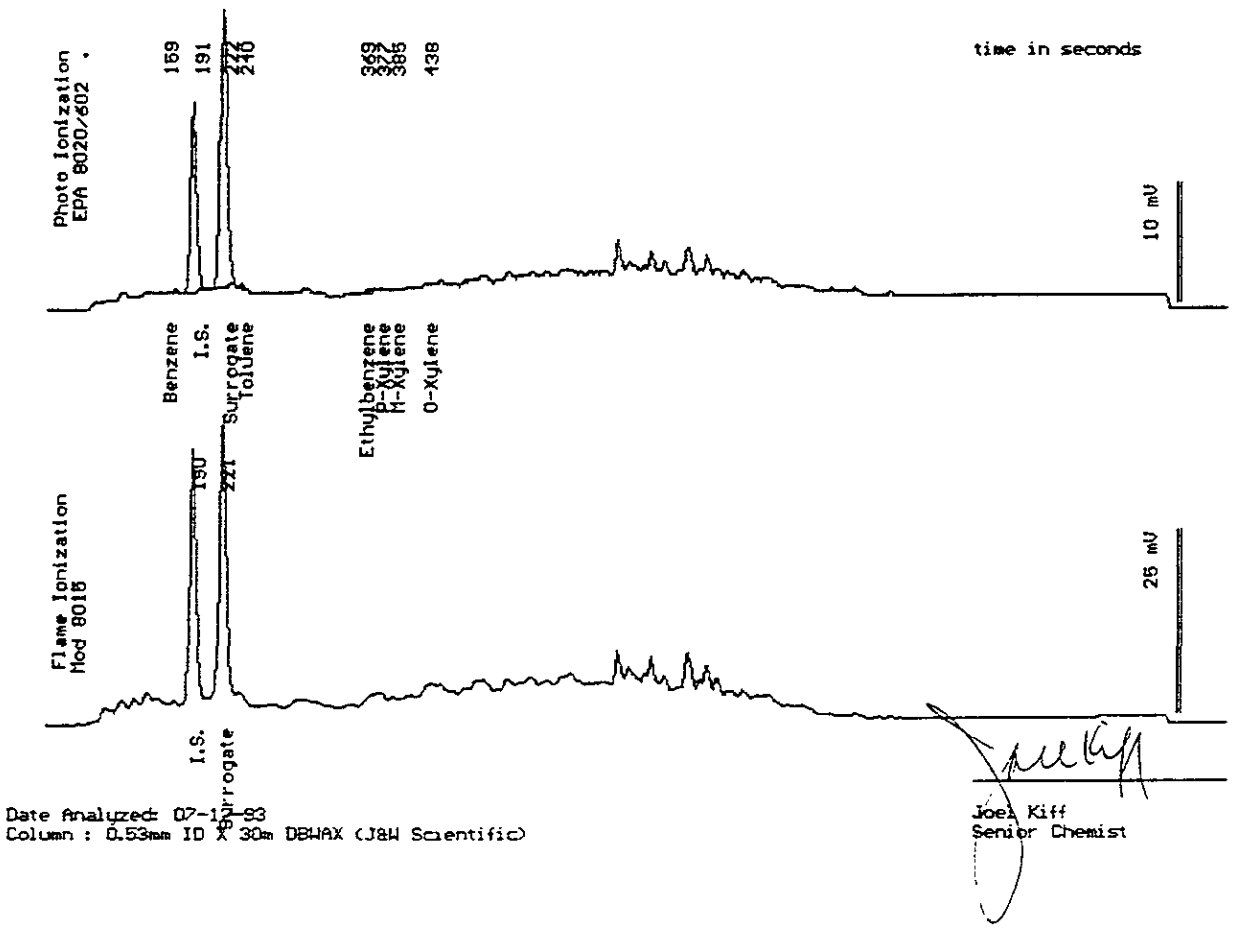
Joel Kiff
Senior Chemist

Sample Log 6852
6852-1

Sample: SP1A,B,C,D

From : Project # 6100.01 (Shamrock Ford, 7499 Dublin)
Sampled : 07/09/93
Dilution : 1:1 QC Batch : 4019C
Matrix : Soil

Parameter	(MRL) ug/kg	Measured Value ug/kg
TPH as Gasoline	(.50)	.78
Surrogate Recovery		103 %



Date Analyzed: 07-12-93
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

Gettler - Ryan Inc. ENVIRONMENTAL DIVISION

5109 Chain of Custod

COMPANY _____ JOB NO 6100.01

JOB LOCATION Shamrock Ford, 7499 Dublin Blvd

CITY Dublin PHONE NO. (510) 352-48

AUTHORIZED B Gettler DATE 07/09/93 P.O. NO. _____

SAMPLE ID	NO. OF CONTAINERS	SAMPLE MATRIX	DATE/TIME SAMPLED	ANALYSIS REQUIRED	SAMPLE CONDITION LAB ID
SP2A (composite)	1	soil	7/9/93	TPH-Gas, TCLP-BTEX	
SP2B (composite)	1	soil	7/9/93		
SP2C (composite)	1	soil	7/9/93		
SP2D (composite)	1	soil	7/9/93		

RECEIVED by W.E.S.T. date 7/9/93

RELINQUISHED BY: B Gettler 1642 7/9/93

RECEIVED BY: _____

RELINQUISHED BY: _____

RECEIVED BY: _____

RELINQUISHED BY: _____

RECEIVED BY LAB: _____ 7/9/93 1642

DESIGNATED LABORATORY: Western Envir. Science & Tech DHS #: 1346

REMARKS: 24 hr turnaround time, Composite sample

DATE COMPLETED _____ FOREMAN _____

ORIGINAL