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ALCO  
HAZMAT

94 APR 25 PM 2:48

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1331 North California Boulevard, Sixth Floor  
Walnut Creek, California 94596  
Telephone (510) 935-7755 Facsimile (510) 935-1553

#  
4610

Please Reply To  
WALNUT CREEK

April 22, 1994

Barney Chan  
Alameda County Health  
Care Services Agency  
Dept. of Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

*looks like significant  
gasoline contamination  
at this time, unknown  
source*

Re: Hausauer v. Robertson  
Property: 3927 E. 14th Street, Oakland  
Our File No.: 1023-0031

3/9/94 GWS/led

Dear Mr. Chan:

Please find enclosed a report by John P. Cummings & Associates on the monitoring wells and soil borings installation at the above-referenced property.

Please call Art Fisher if you have any questions concerning the enclosed.

Very truly yours,

KING, SHAPIRO, MITTELMAN & BUCHMAN

*Roleen Lou Johnson*  
Roleen Lou Johnson  
Secretary to Arthur E. Fisher

RLJ  
Enclosure(s)

# John P. Cummings & Associates

Environmental Consultants

Ph. (510) 505-0722  
Fax (510) 791-3306

P.O. Box 2847  
Fremont, CA 94536-2847

File No. 0193002.01  
April 8, 1994

**PERSONAL AND CONFIDENTIAL**

Mr. Ruben Hausauer  
6017 14th Street  
Oakland CA 94601

Subject; Report on Monitoring Well and  
Soil Borings Installation  
3927 E. 14th Street, Oakland CA

Dear Mr. Hausauer,

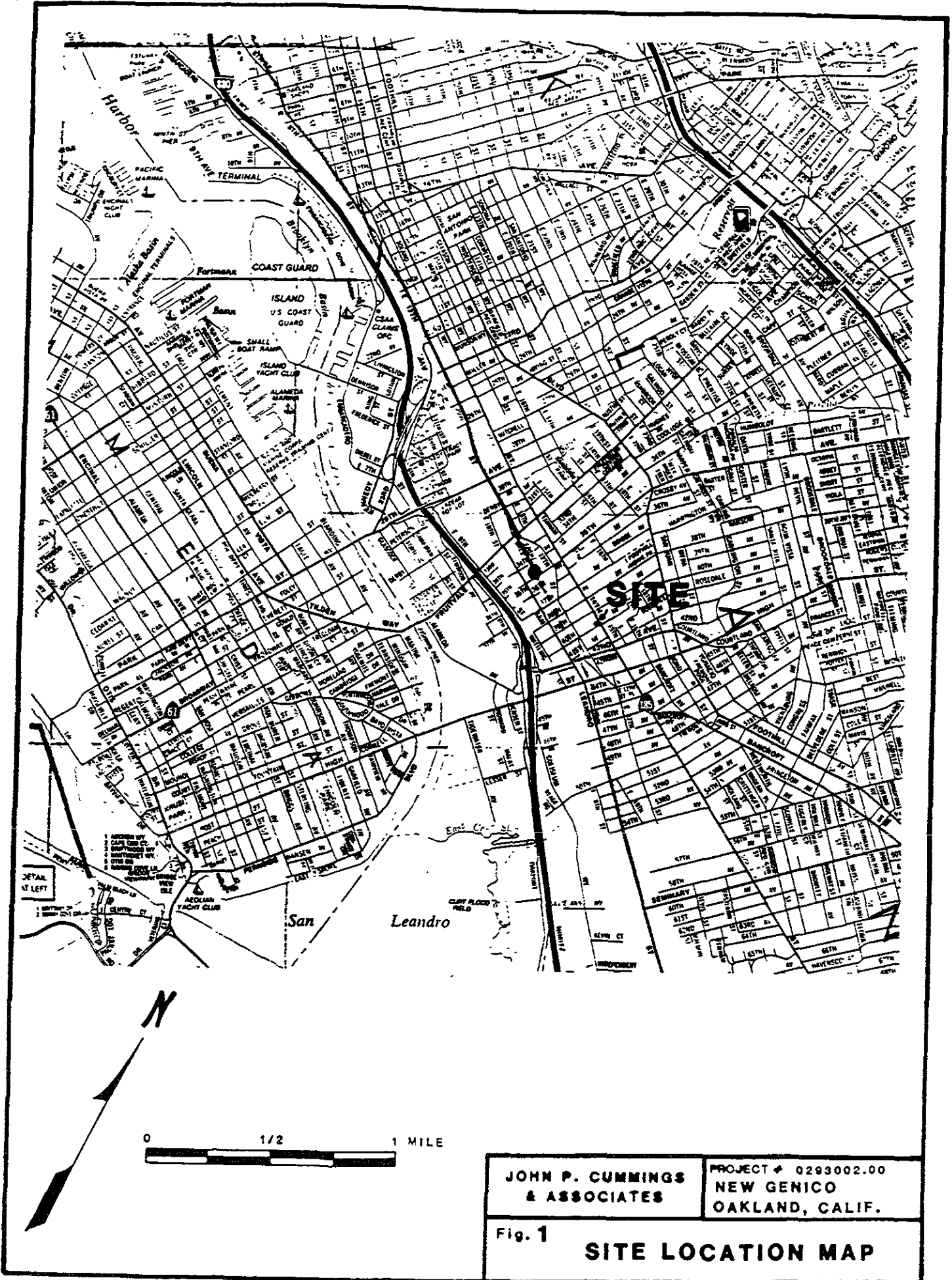
John P. Cummings & Associates (JPCA) is pleased to present the following report on the investigation of the site conditions and other work performed in accordance with the proposal dated February 4, 1994. The site is located at 3927 E. 14th Street, Oakland, CA. A former waste oil Underground Service Tank (UST) was filled in place beneath the sidewalk on this site. Figure 1 is a site location map.

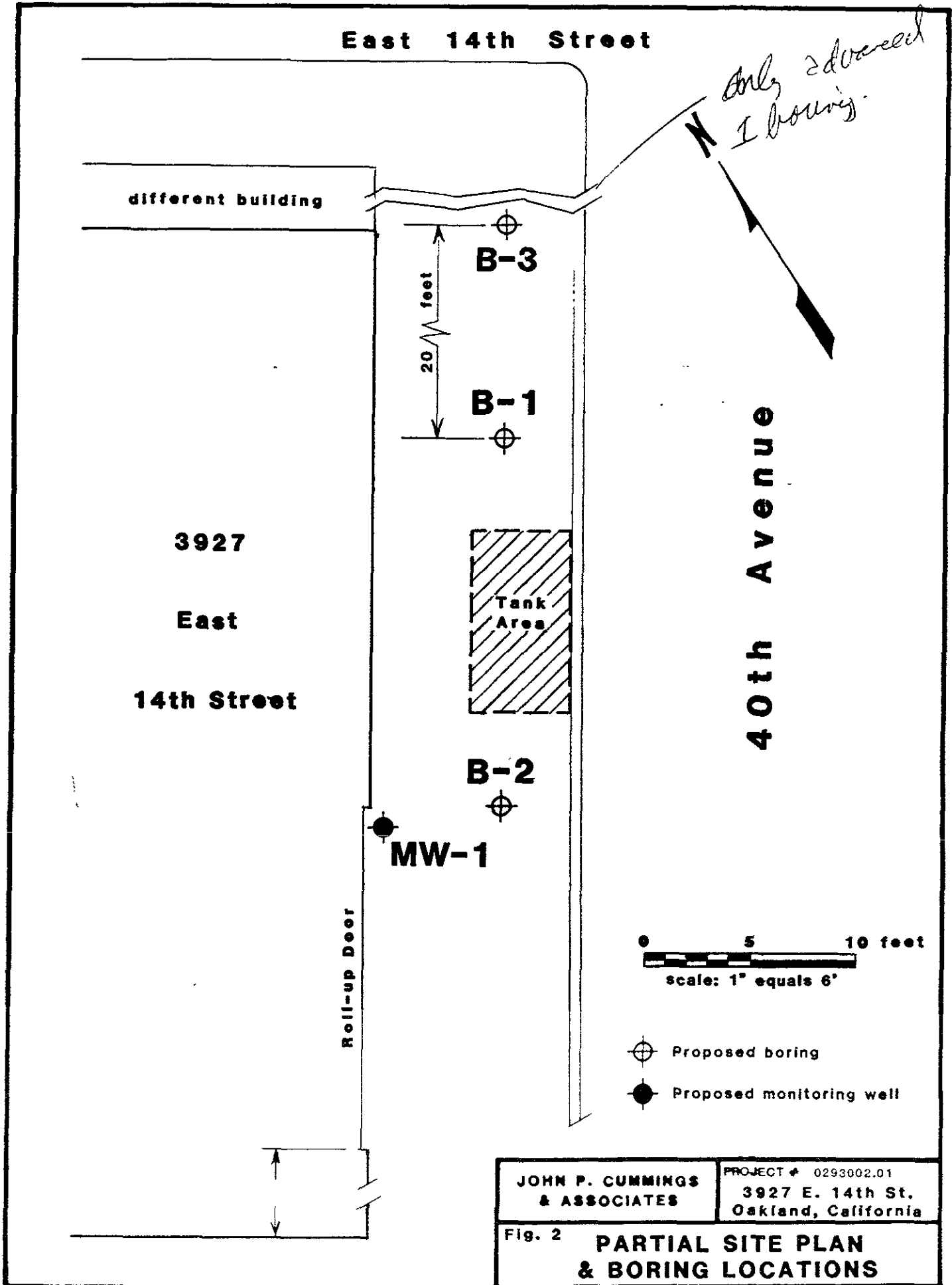
Two borings were drilled during November 1993, under the supervision of JPCA, at approximately 45 degrees to allow for soil sample collection in the native soil beneath the UST. Based on the placement of the UST, discussions with the present property owner and people working in the area, the tank appears to have been a waste oil tank. *or gasoline*

A review of the Alameda County Department of Environmental Health (ACDEH) files for the "OWENS" Site at 1234 40th Ave, the SHELL Site at 3750 E. 14th Street and the UNOCAL Site at 4241 E. 14th Street was conducted. Copies of the "OWENS" file and pertinent portions of the SHELL and UNOCAL files were sent to Robert W. Shapiro, Esq. and James D. Mayol, Esq. *"Cross" at best*

The review of the "OWENS" file for Motors Partners whose address is 1234 40th Avenue, Oakland CA, (the "OWENS" site is directly across 40th Avenue and "up" gradient from the Hausauer property) shows very high levels of contamination, both in the soil and groundwater, in the former UST excavation area. The gasoline pit was re-excavated on January 11, 1994 and was reported to have "floating product" on the water in the excavation as well as a strong hydrocarbon odor.

A workplan for characterization of the soil and groundwater beneath this site was written. A permit for the monitoring well and





JOHN P. CUMMINGS  
& ASSOCIATES

PROJECT # 0293002.01  
3927 E. 14th St.  
Oakland, California

Fig. 2 PARTIAL SITE PLAN  
& BORING LOCATIONS

borings was obtained. The permit is included in Appendix A. A site specific Health and Safety Plan was completed. US Alert was contacted prior to drilling.

#### FIELD WORK

On March 4, 1994, John N. Alt and John P. Cummings of JPCA were on site. A permit to conduct the drilling of the borings had been received from the Zone 7 Water Agency. Clearance was received telephonically from U S Alert a week earlier. The utilities had been marked.

The well (MW 1) is located approximately 10 feet westerly of the exit port of the UST on the site. Boring (B-3) is in the sidewalk approximately 20 feet northeast of B-1. The location of the boring identified as B-3 and Monitoring Well (MW-1) are shown in Figure 2. The second boring anticipated to be completed at this time could not be placed because the sidewalk area was blocked and the drilling rig could not access the site. The UST location is also clearly identified in Figure 2. The prior borings B-1 and B-2 are also identified in Figure 2.

SOILS EXPLORATION SERVICES INC. was the driller for the boring and the well and provided the well supplies. The Boring Logs were prepared by the Certified Engineering Geologist, who directed the installation and recorded the observations of the geologic materials encountered on site during the drilling. Soil Samples were collected at five foot intervals. These samples were collected for a description of the subsurface soil conditions. Four soil samples were collected for chemical analysis. The Boring and Well Logs are contained in Appendix A.

The soil encountered in Boring 3 (B-<sup>3</sup>~~1~~) was a plastic, stiff, moist black clay at the surface and became stiffer as the boring was advanced. The color changed from black to brown to blue-green, with sand at six feet, to olive green and green as the boring was advanced to approximately 10 feet. A strong hydrocarbon odor was encountered at approximately 9 feet and the soil, composed of green sand with gravel in the clay matrix, appeared to be saturated with hydrocarbon.

The soil encountered in the Monitoring Well (MW-1) was a plastic, stiff, moist black clay at the surface and became stiffer as the boring was advanced. The color changed from black to light grey to blue-green sandy clay at approximately 6 feet. A slight odor was encountered at this level. The clay changed to olive green with medium to coarse grained green sand and some pebbles as the boring was advanced to approximately 20 feet. A strong hydrocarbon odor was encountered beyond approximately 6 feet and continued to persist to the bottom of the boring. The saturated zone was encountered at approximately 9 feet.

Two soil samples were acquired from B-3, one at approximately 5.5 feet and the second at approximately 10 feet below grade. The samples collected from B-1 at 5.5 and 10 feet were identified as B-3-1 and B-3-2 respectively. The samples collected from MW-1 at approximately 5.5, and 10.5 feet were identified as MW-1-1 and MW-1-2 respectively. The samples were collected in clean brass tubes, capped and sealed, labeled, held in a cooler at approximately 4 degrees Centigrade, until analysis by a State Certified laboratory and transported under Chain-of-Custody documentation.

After the soil samples were collected the boring was slurry filled with cement. The soil cuttings from the boring and well were stored on site in a 55-gallon DOT drum.

On the morning of March 7, 1994, three days after the installation of the well prior to purging and sampling, the depth to groundwater was measured by an electronic probe. The water depth was measured at 5.78 feet from the mark located on the top of the casing. Permission to measure the other wells nearby has not been granted to date. Field notes are contained in Appendix A. The Site Plan is Figure 1.

Approximately 3.5 gallons of groundwater was removed from MW 1, by a pump which pumped the well to dryness. The water so removed was stored in a 55 gallon drum, awaiting analysis.

The well was allowed to recharge for about two hours. A groundwater sample collected by a clean dedicated bailer. The groundwater sample was put in clean glass containers, sealed with Teflon closures, labeled, placed in a cooler chest with Ice and transported to a state certified laboratory under COC documentation for analyses.

## **ANALYTICAL RESULTS**

The soil (4) and groundwater (1) samples were analyzed for Total Petroleum Hydrocarbons, as gasoline (TPHG) and Total Petroleum Hydrocarbons, as diesel (TPHD); Benzene, Toluene, Ethylbenzene and Xylene (BTEX) via EPA Modified Method 8020/8015 ; Total Oil and Grease (TOG) via the GC FID method; and for the metals Cadmium, Chromium, Lead, Nickel and Zinc (CAM 5) using the WET method. These analyses are those required in the "Tri-Regional Guidelines" which are directives of the Regional Water Quality Control Board and requested by the ACDEH.

### Soil Samples

The results for the soil samples, in parts per million (ppm), for TPHD, TPHG and BTEX are shown in Table 1. below. The laboratory

data sheets with detection limits and COC documentation are contained in Appendix B.

**TABLE 1.**

Sample ID	ppm					
	TPHD	TPHG	B	T	E	X
B-3-5	ND	ND	ND	ND	ND	ND
B-3-9.5	31	800	ND	1.8	1.4	5.8
MW-1-5	ND	110	ND	ND	0.19	0.16
MW-1-10	33	1000	ND	2.8	6.9	11

ND=Not Detected

The results, in ppm, of the analysis of the soil samples, utilizing the GC FID method requested by ACDEH, for Total Hydrocarbons and TOG are shown in Table 2. below. The laboratory data sheets with detection limits and COC documentation are contained in Appendix B.

**TABLE 2.**

Sample ID	ppm	
	Total Oil and Grease	Hydrocarbons
B-3-5	ND	ND
B-3-9.5	550	550
MW-1-5	ND	<1 ← ND
MW-1-10	1200	1200

ND=Not Detected

The results for the soil samples, in ppm, for 5 California Action Metals (CAM 5) are shown in Table 3. below. The laboratory data sheets with detection limits and COC documentation are contained in Appendix B.

**TABLE 3.**

Sample ID	ppm				
	Cadmium	Chromium	Lead	Nickel	Zinc
B-3-5	ND	0.285	ND	3.58	0.36
B-3-9.5	ND	0.265	ND	0.76	0.83
MW-1-5	ND	0.235	ND	3.53	0.365
MW-1-10	0.135	0.635	2.18	3.28	0.48

ND=Not Detected

## Groundwater Sample

The results for the groundwater sample, in parts per billion (ppb), for TPHD, TPHG and BTEX are shown in Table 4. below. The laboratory data sheets with detection limits and COC documentation are contained in Appendix B.

**TABLE 4.**

**ppb**

<u>Sample ID</u>	<u>TPHD</u>	<u>TPHG</u>	<u>B</u>	<u>T</u>	<u>E</u>	<u>X</u>
MW-1 Water	4600	64000	3200	740	1800	2100

The results for TOG in the water sample collected from MW-1 was 360 ppm. The laboratory data sheets with detection limits and COC documentation are contained in Appendix B.

The groundwater (MW-1) sample's analytical results for 5 California Action Metals (CAM 5) were Not Detectable for Cadmium, Chromium and Lead. The results for Nickel and Zinc were 0.45 and 0.345 ppm respectively. The laboratory data sheets with detection limits and COC documentation are contained in Appendix B.

## **SUMMARY, CONCLUSIONS AND RECOMMENDATIONS**

No Benzene was detected in the soil samples.

The soil sample analysis for boring, B-3 and monitoring well, MW-1 indicate background levels of Cadmium, Chromium, Lead, Nickel and Zinc (the CAM-5 Metals). These background level results were consistent with the data obtained from the previous analysis for the soil samples analyzed from B-1 and B-2.

The soil samples collected at the 5 foot depth in MW-1 and B-1 show nondetectable or minor concentrations of TPHG, TPHD and BTEX, however the soil samples from the approximately 10 foot depth show much greater concentrations of TPHG, TPHD and Toluene, Ethylbenzene and Xylene.

The groundwater samples have actionable levels of TPHG and BTEX. The concentrations of these contaminants found in the groundwater indicate a gasoline source. Based on the analytical data, regional groundwater gradient and the "OWENS" file, it appears that the Motor Partners site (directly across 40th Ave from the subject



*Pls send chromatograms*

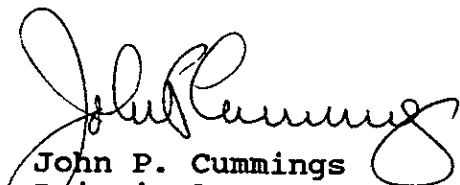
site) is a significant source of the gasoline contamination found under the Hausauer property.

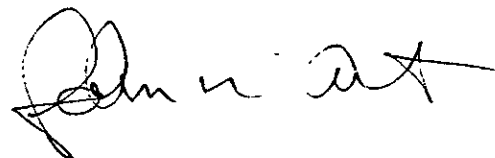
According to the analytical report, the laboratory data showed "weathering", for the TPHG and BTEX chromatograms which indicates these contaminants have been in the soil for a very long time.

This report has been prepared specifically for Mr. Ruben Hausauer with specific application to a hazardous waste investigation. The report has been prepared with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, either expressed or implied, is made as to the professional advice presented.

If you have any questions, please call JPCA at (510) 505-0722.

Sincerely,

  
John P. Cummings  
Principal

  
John N. Alt  
CEG

cc: Robert W. Shapiro, Esq.  
Arthur E. Fisher, Esq.

# APPENDIX A



# ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600

FAX (510) 462-3914

## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 3927 East 14th Street  
Oakland CA Sidewalk area

PERMIT NUMBER 94048  
LOCATION NUMBER \_\_\_\_\_

### CLIENT

Name Ruben Hausauer  
Address 6017 East 14th Street Voice \_\_\_\_\_  
City Oakland CA Zip 94601

### PERMIT CONDITIONS

Circled Permit Requirements Apply

### APPLICANT

Name John P. Cummings and Associates  
Fax (510) 791 3306  
Address P O Box 2847 Voice (510) 505 0722  
City Fremont CA Zip 94536

### A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

### TYPE OF PROJECT

Well Construction	Geotechnical Investigation
Cathodic Protection _____	General _____
Water Supply _____	Contamination <u>XX</u>
Monitoring _____	Well Destruction _____

### B. WATER WELLS, INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

### PROPOSED WATER SUPPLY WELL USE N/A

Domestic _____	Industrial _____	Other _____
Municipal _____	Irrigation _____	

### C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

### DRILLING METHOD:

Mud Rotary \_\_\_\_\_ Air Rotary \_\_\_\_\_ Auger XX  
Cable \_\_\_\_\_ Other \_\_\_\_\_

### D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

DRILLER'S LICENSE NO. Great Sierra /C57 #610487

### E. WELL DESTRUCTION. See attached.

### WELL PROJECTS

Drill Hole Diameter	<u>8</u> in.	Maximum	
Casing Diameter	<u>2</u> in.	Depth	<u>25</u> ft.
Surface Seal Depth	_____ ft.	Number	<u>1</u>

### GEOTECHNICAL PROJECTS

Number of Borings	<u>2</u>	Maximum	
Hole Diameter	<u>8</u> in.	Depth	<u>11</u> ft.

ESTIMATED STARTING DATE 1 Feb 1994

ESTIMATED COMPLETION DATE 3 Feb 1994

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

Approved Wymad Hong Date 26 Jan 94  
Wymad Hong

APPLICANT SIGNATURE John P. Cummings Date Jan 21, 1994

BORING LOCATION 40th Ave. west of 14th St., Oakland.		ELEVATION AND DATUM	
DRILLING CONTRACTOR Soil Exploration Services		DRILLER Moe, Dolly	DATE STARTED 3/4/94
DRILLING EQUIPMENT limited access rig		COMPLETION DEPTH (FT) 10 1/2	DATE FINISHED 3/4/94
DIAMETER OF BORING 7 3/4 inches		NO. OF SAMPLES 2	ROCK DEPTH (FT) CORE
PURPOSE OF BORING soil sampling		WATER DEPTH (FT) 8 1/2	COMPL.
SAMPLING EQUIPMENT California modified split spoon		LOGGED BY: J. Alt	CHECKED BY:
COMMENTS			

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG LITHOLOGY	SAMPLES				REMARKS
			NO.	TYPE	BLOW COUNT	DRILLING RATE/TIME	
	4 inch concrete sidewalk						
	black CLAY, moist, plastic.						
5	medium-brown CLAY, moist, plastic.		1		7 17 29		
	blueish-green CLAY with sand, sand is scattered greater than 10%, slightly moist, plastic.						
	olive-green CLAY.						
10	green SAND with gravel, saturated with old gasoline (?), clay in matrix.	∇	2		11 22 45		
15							
20							
25							
30							

Project	LOG OF BORING B-3
Project No.	

# WELL LOG

Project	<u>Hauser Property</u>	Well Number	<u>MW-1</u>
Location	<u>40th Ave. west of 14th St., Oakland.</u>	Diameter of Boring	<u>7 3/4 inches</u>
Project #	_____	Total Depth of Boring	<u>20 feet</u>
Geologist	<u>J. Alt, CEG</u>	Date Started	<u>March 4, 1994</u>
Drill Company	<u>Soil Exploration Services</u>	Date Completed	<u>March 4, 1994</u>
Comments	_____		

Depth in Feet	WELL CONSTRUCTION DETAIL	Sample #	Blow Counts	Graphic Log	DESCRIPTION	
0					6 inch concrete pad	
1					black CLAY, moist, plastic,	
2						
3						
4						light gray CLAY, moist, plastic.
5						
6			1	12 22 33		blueish-green sandy CLAY, moist, matrix is plastic, greater than 10% sand, fine to coarse; tan motteling.
7						
8						
9					▽	<i>gas odor?</i> olive-green CLAY.
10						
11			2	9 24 36		green SAND with gravel, gravel greater than 15% with pebbles up to 1/2", moist to wet, sand is medium- to coarse-grained.
12						
13						
14						
15						
16			3	15 29 37		as above, except about 20% gravel with cobbles to 1/2", saturated - grading to a sandy CLAY.
17						
18						
19						
20					bottom of boring	

John P. Cummings and Associates  
 P O Box 2847  
 38750 Paseo Padre Pkwy B-4  
 Fremont, CA 94536

Well Data Sheet  
 Monitoring Well  
 Sampling

Date: 3/7/99 Well No.: MW-1

Project Name: Nea Genica Project No.: 0293002.04

Project Location: 40th Ave / ~~40th~~ 3927 E 14th

Possible Contaminants: TN, TP, HD, BTEX, O+G, Metals, Coas.

Well Diameter: 2" Well Depth: 19.5 ft

Depth To Groundwater: 5.78' Approximate Casing Volume: 2.4 gal

Purge Method: Pump

Evidence of Floating Product: Yes  No ; if yes, thickness           

Sheen: Yes  No ; Odor: Yes  No

TIME	PURGE VOLUME	CUMULATIVE PURGE	TEMP °F	COND.	pH	COMMENTS
1140	3.5	3.5 gal	71.5	—	7.3	Pumped Dry out at 3.5 gal

Sampling Method: Bailer

Comments: Pumped to dryness at 3.5 gallons / Summary Hydrocarbon results

Signature: [Handwritten Signature]

17  
 19  
 168  
 74

## **APPENDIX B**

**8020/8015 Modified Analysis Report**

Attention: Mr. John P. Cummings      Date Sampled: Mar 4, 1994  
John P. Cummings & Associates      Date Received: Mar 9, 1994  
P.O. Box 2847      Date Analyzed: Mar 18, 1994      TPHg & BTEX  
Fremont, CA 94536-2847      Date Analyzed: Mar 11, 1994      TPHdiesel

Project #: 0293002.0T      Project Name: NU Genico

Client ID: MW-1-5'      LAB ID: ST94-03-130A      TPHg & BTEX  
ST94-03-131A      TPHdiesel

Matrix: Soil      Dilution: 1: 20      TPHg & BTEX

Name	Amount	Detection Limit	Units
Benzene	ND *	0.10	ug/g
Toluene	ND *	0.10	ug/g
Ethylbenzene	0.19	0.10	ug/g
Xylenes	0.16	0.10	ug/g
TPHgas	110 *	20	ug/g
TPHdiesel	ND	1.0	ug/g
<b>Surrogate % Recovery of Trifluorotoluene =</b>		<b>107%</b>	

ppb = parts per billion = ug/kg = micrograms per kilogram  
ppm = parts per million = ug/g = micrograms per gram  
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.  
NR = Analysis not requested

**\* Weathered Product**



R. L. James, Principal Chemist

Mar 21, 1994

Date

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA  
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY  
(Certification No. 1814)



### 8020/8015 Modified Analysis Report

Attention:	Mr. John P. Cummings John P. Cummings & Associates P.O. Box 2847 Fremont, CA 94536-2847	Date Sampled:	Mar 4, 1994	Date Received:	Mar 9, 1994	Date Analyzed:	Mar 18, 1994	TPHg & BTEX
		Date Analyzed:	Mar 11, 1994					TPHdiesel
Project #:	0293002.0T	Project Name:	NU Genico					
Client ID:	MW-1-10'	LAB ID:	ST94-03-134A	TPHg & BTEX				
			ST94-03-135A	TPHdiesel				
Matrix:	Soil	Dilution:	1: 100	TPHg & BTEX				

Name	Amount	Detection Limit	Units
Benzene	ND	0.50	ug/g
Toluene	2.8	0.50	ug/g
Ethylbenzene	6.9	0.50	ug/g
Xylenes	11	0.50	ug/g
TPHgas	1000	100	ug/g
TPHdiesel	33 *	1.0	ug/g

Surrogate % Recovery of Trifluorotoluene = \*\*

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested

\* High motor oil was detected.

\*\* Matrix Interference



R. L. James Principal Chemist

Mar 21, 1994

Date

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA

DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1674)

**8020/8015 Modified Analysis Report**

Attention: Mr. John P. Cummings  
John P. Cummings & Associates  
P.O. Box 2847  
Fremont, CA 94536-2847

Date Sampled: Mar 4, 1994  
Date Received: Mar 9, 1994  
Date Analyzed: Mar 16, 1994  
Date Analyzed: Mar 11, 1994

TPHg & BTEX  
TPHdiesel

Project #: 0293002.0T

Project Name: NU Genico

Client ID: B-3-5'

LAB ID: ST94-03-138A  
ST94-03-139A

TPHg & BTEX  
TPHdiesel

Matrix: Soil

Dilution: 1: 1

Name	Amount	Detection Limit	Units
Benzene	ND	0.005	ug/g
Toluene	ND	0.005	ug/g
Ethylbenzene	ND	0.005	ug/g
Xylenes	ND	0.005	ug/g
TPHgas	ND	1.0	ug/g
TPHdiesel	ND	1.0	ug/g
<b>Surrogate % Recovery of Trifluorotoluene =</b>		<b>83%</b>	

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected Compound(s) may be present at concentrations below the detection limit

NR = Analysis not requested



R. L. James, Principal Chemist

Mar 21, 1994

Date

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA

DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

License No. 1014

### 8020/8015 Modified Analysis Report

Attention:	Mr. John P. Cummings John P. Cummings & Associates P.O. Box 2847 Fremont, CA 94536-2847	Date Sampled:	Mar 4, 1994	
		Date Received:	Mar 9, 1994	
		Date Analyzed:	Mar 16, 1994	TPHg & BTEX
		Date Analyzed:	Mar 11, 1994	TPHdiesel
Project #:	0293002.0T	Project Name:	NU Genico	
Client ID:	B-3-9.5'	LAB ID:	ST94-03-142A	TPHg & BTEX
			ST94-03-143A	TPHdiesel
Matrix:	Soil	Dilution: 1:	200	TPHg & BTEX

Name	Amount	Detection Limit	Units
Benzene	ND **	1.0	ug/g
Toluene	1.8	1.0	ug/g
Ethylbenzene	1.4	1.0	ug/g
Xylenes	5.8	1.0	ug/g
TPHgas	800 **	200	ug/g
TPHdiesel	31 *	1.0	ug/g
<b>Surrogate % Recovery of Trifluorotoluene =</b>		<b>113%</b>	

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested

**\* High motor oil was detected.**

**\*\* Weathered Product**



R. L. James, Principal Chemist

Mar 21, 1994

Date

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA

DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

Certification No. 1614

### 8020/8015 Modified Analysis Report

Attention:	Mr. John P. Cummings John P. Cummings & Associates P.O. Box 2847 Fremont, CA 94536-2847	Date Sampled: Mar 7, 1994 Date Received: Mar 9, 1994 Date Analyzed: Mar 18, 1994 Date Analyzed: Mar 11, 1994	TPHgas & BTEX TPHdiesel
Project #:	0293002.0T	Project Name:	NU Genico
Client ID:	MW-1	LAB ID:	ST94-03-146A ST94-03-147A
Matrix:	Water	Dilution:	1:50

Name	Amount	Detection Limit	Units
Benzene	3200	1.5	ug/L
Toluene	740	1.5	ug/L
Ethylbenzene	1800	1.5	ug/L
Xylenes	2100	1.5	ug/L
TPHgas	64000	2500	ug/L
TPHdiesel	4600 *	50	ug/L

Surrogate % Recovery of Trifluorotoluene = 100%

ppb = parts per billion = ug/L = micrograms per Liter  
ppm = parts per million = ug/mL = micrograms per milliliter  
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit  
NR = Analysis not requested.

**\* High motor oil was detected.**



R. L. James, Principal Chemist

Mar 21, 1994

Date

**8020 Modified Laboratory Control Spike (LCS) &  
Laboratory Control Spike Duplicate (LCSD) BTEX Analysis Report**

Attention: Mr. John P. Cummings      Date Sampled: Mar 7, 1994  
John P. Cummings & Associates      Date Received: Mar 9, 1994  
P.O. Box 2847  
Fremont, CA 94536-2847

Project ID: 0293002.0T      Project Name: NU Genico  
Client ID: LCS/LCSD      LAB ID: ST94-03-018 LCS  
ST94-03-018 LCSD  
Matrix: Soil      Dilution:

Name	Conc. Spike Added	Sample Result	LCS Result	LCSD Result	Units	LCS % Recovery	LCSD % Recovery	% RPD Recovery
Benzene	30 ppb	ND	30	30	ug/kg	100%	100%	0%
Toluene	30 ppb	ND	31	30	ug/kg	103%	100%	3%
Ethylbenzene	30 ppb	ND	31	30	ug/kg	103%	100%	3%
Xylenes	30 ppb	ND	29	31	ug/kg	97%	103%	7%

Surrogate % Recovery of Trifluorotoluene =      100% LCS      97% LCSD

ppb = parts per billion = ug/kg = micrograms per kilogram  
ppm = parts per million = ug/g = micrograms per gram  
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit



R. L. James Principal Chemist

Mar 21, 1994  
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA  
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY  
(Certification No. 1614)

**8020 Modified Matrix Spike (MS) & Matrix Spike Duplicate (MSD)  
BTEX Analysis Report**

Attention: Mr. John P. Cummings Date Sampled: Mar 7, 1994  
John P. Cummings & Associates Date Received: Mar 9, 1994  
P.O. Box 2847  
Fremont, CA 94536-2847

Project ID: 0293002.0T Project Name: NU Genico  
Client ID: MS/MSD LAB ID: ST94-03-018 MS  
ST94-03-018 MSD  
Matrix: Soil Dilution:

Name	Conc. Spike Added	Sample Result	MS Result	MSD Result	Units	MS % Recovery	MSD % Recovery	% RPD Recovery
Benzene	30 ppb	ND	29	30	ug/kg	97%	100%	3%
Toluene	30 ppb	ND	29	30	ug/kg	97%	100%	3%
Ethylbenzene	30 ppb	ND	29	30	ug/kg	97%	100%	3%
Xylenes	30 ppb	ND	29	30	ug/kg	97%	100%	3%

Surrogate % Recovery of Trifluorotoluene = 97% MS 97% MSD

ppb = parts per billion = ug/kg = micrograms per kilogram  
ppm = parts per million = ug/g = micrograms per gram  
ND = Not Detected Compound(s) may be present at concentrations below the detection limit.



R. L. James Principal Chemist

Mar 21, 1994

DATE

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA  
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(Certification No. 1614)

**8015 Modified Laboratory Control Spike (LCS) &  
Laboratory Control Spike Duplicate (LCSD)  
TPHdiesel Analysis Report**

Attention: Mr. John P. Cummings  
John P. Cummings & Associates  
P.O. Box 2847  
Fremont, CA 94536-2847

Date Sampled: Mar 7, 1994  
Date Received: Mar 9, 1994  
Date Analyzed: Mar 11, 1994

Project ID: 0293002.0T

Project Name: NU Genico

Client ID: LCS/LCSD

LAB ID: ST94-03-011 LCS  
ST94-03-011 LCSD

Matrix: Soil

Dilution:

Name	Conc. Spike Added	Sample Result	LCS Result	LCSD Result	Units	LCS % Recovery	LCSD % Recovery	% RPD Recovery
TPHdiesel	125 ppm	ND	129	128	ug/g	103%	102%	1%

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected Compound(s) may be present at concentrations below the detection limit



R. L. James, Principal Chemist

Mar 21, 1994

Date Reported

**Metals (STLC)  
EPA Method: WET**

Attention:	Mr. John P. Cummings John P. Cummings & Assoc. P.O. Box 2847 Fremont, CA 94536-2847	Date Sampled:	Mar 4, 1994
		Date Received:	Mar 9, 1994
		Date Analyzed:	Mar 14, 1994
Project #:	0293002.0T	Project Name:	NU Genico
Client ID:	MW-1-5'	LAB ID:	ST94-03-133A
Matrix:	Soil	Dilution:	1:4

Name	Amount	Reporting Limit	Units
Cadmium (Cd)	ND	0.05	mg/L
Chromium (Cr)	0.235	0.1	mg/L
Lead (Pb)	ND	1.0	mg/L
Nickel (Ni)	3.53	0.4	mg/L
Zinc (Zn)	0.365	0.2	mg/L

ppm = parts per million = mg/Kg = milligram per Liter

ND = Not Detected Compound(s) may be present at concentrations below the detection limit



R. L. James Principal Chemist

Mar 16, 1994

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA  
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY  
Certification No. 10216



**Metals (STLC)  
EPA Method: WET**

Attention:	Mr. John P. Cummings John P. Cummings & Assoc. P.O. Box 2847 Fremont, CA 94536-2847	Date Sampled:	Mar 4, 1994
		Date Received:	Mar 9, 1994
		Date Analyzed:	Mar 14, 1994
Project #:	0293002.0T	Project Name:	NU Genico
Client ID:	MW-1-10'	LAB ID:	ST94-03-137A
Matrix:	Soil	Dilution:	1:4

Name	Amount	Reporting Limit	Units
Cadmium (Cd)	0.135	0.05	mg/L
Chromium (Cr)	0.635	0.1	mg/L
Lead (Pb)	2.18	1.0	mg/L
Nickel (Ni)	3.28	0.4	mg/L
Zinc (Zn)	0.48	0.2	mg/L

ppm= parts per million = mg/Kg = milligram per Liter

ND = Not Detected Compound(s) may be present at concentrations below the detection limit



R. L. James Principal Chemist

Mar 16 1994

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA  
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY  
Certification No. 1614

**Metals (STLC)  
EPA Method: WET**

Attention: Mr. John P. Cummings      Date Sampled: Mar 4, 1994  
John P. Cummings & Assoc.      Date Received: Mar 9, 1994  
P.O. Box 2847      Date Analyzed: Mar 14, 1994  
Fremont, CA 94536-2847

Project #: 0293002.0T      Project Name: NU Genico  
Client ID: B-3-5'      LAB ID: ST94-03-141A  
Matrix: Soil      Dilution: 1:4

Name	Amount	Reporting Limit	Units
Cadmium (Cd)	ND	0.05	mg/L
Chromium (Cr)	0.285	0.1	mg/L
Lead (Pb)	ND	1.0	mg/L
Nickel (Ni)	3.56	0.4	mg/L
Zinc (Zn)	0.36	0.2	mg/L

ppm= parts per million = mg/Kg = milligram per Liter  
ND = Not Detected Compound(s) may be present at concentrations below the detection limit



R. L. James Principal Chemist

Mar 16 1994

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA  
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY  
(Certificate No. 1814)

**Metals (STLC)  
EPA Method: WET**

Attention: Mr. John P. Cummings      Date Sampled: Mar 4, 1994  
John P. Cummings & Assoc.      Date Received: Mar 9, 1994  
P.O. Box 2847      Date Analyzed: Mar 14, 1994  
Fremont, CA 94536-2847

Project #: 0293002.0T      Project Name: NU Genico  
Client ID: B-3-9.5'      LAB ID: ST94-03-145A  
Matrix: Soil      Dilution: 1:4

Name	Amount	Reporting Limit	Units
Cadmium (Cd)	ND	0.05	mg/L
Chromium (Cr)	0.265	0.1	mg/L
Lead (Pb)	ND	1.0	mg/L
Nickel (Ni)	0.76	0.4	mg/L
Zinc (Zn)	0.83	0.2	mg/L

ppm= parts per million = mg/Kg = milligram per Liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit



R. L. James Principal Chemist

Mar 16 1994

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA  
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY  
Certification No. 1614

**Metals (STLC)  
EPA Method: WET**

Attention:	Mr. John P. Cummings John P. Cummings & Assoc. P.O. Box 2847 Fremont, CA 94536-2847	Date Sampled:	Mar 7, 1994
		Date Received:	Mar 9, 1994
		Date Analyzed:	Mar 14, 1994
Project #:	0293002.0T	Project Name:	NU Genico
Client ID:	MW-1	LAB ID:	ST94-03-149A
Matrix:	Water	Dilution:	

Name	Amount	Reporting Limit	Units
Cadmium (Cd)	ND	0.05	mg/L
Chromium (Cr)	ND	0.1	mg/L
Lead (Pb)	ND	1.0	mg/L
Nickel (Ni)	0.45	0.4	mg/L
Zinc (Zn)	0.345	0.2	mg/L

ppm = parts per million = mg/Kg = milligram per Liter

ND = Not Detected Compound(s) may be present at concentrations below the detection limit



R. L. James Principal Chemist

Mar 16, 1994

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA  
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY  
(Certification No. 1614)

**Metals, CAM 5 (STLC)  
 MS / MSD Recoveries**

Attention:	Mr. John P. Cummings John P. Cummings & Assoc. P.O. Box 2847 Fremont, CA 94536-2847	Date Sampled:	Mar 4, 1994
		Date Received:	Mar 9, 1994
		Date Analyzed:	Mar 14, 1994
Project #:	0293002.0T	Project Name:	NU Genico
Client ID:	MS/MSD	LAB ID:	ST94-03-014 MS ST94-03-014 MSD
Matrix:	Soil	Dilution:	

Units: (mg/L)

Element	Sample Conc.	Spike Conc.	MS	MS % Recovery	MSD	MSD % Recovery	% RSD
Cadmium (Cd)	ND	2.5	2.58	103%	2.44	98%	5%
Chromium (Cr)	0.235	2.5	2.92	107%	2.76	101%	6%
Lead (Pb)	ND	12.5	12.1	97%	11.5	92%	5%
Nickel (Ni)	3.53	6.25	10.1	105%	9.79	100%	5%
Zinc (Zn)	0.365	1.25	1.71	108%	1.61	100%	8%

ppm= parts per million = mg/L = milligram per Liter

ND = Not Detected Compound(s) may be present at concentrations below the detection limit

NR = Not Requested



P. L. James Principal Chemist

Mar 16 1994  
 Date Reported

**Metals, CAM 5 (STLC)  
LCS / LCSD Recoveries**

Attention: Mr. John P. Cummings      Date Sampled: Mar 4, 1994  
John P. Cummings & Assoc.      Date Received: Mar 9, 1994  
P.O. Box 2847      Date Analyzed: Mar 14, 1994  
Fremont, CA 94536-2847

Project #: 0293002.0T      Project Name: NU Genico  
Client ID: LCS/LCSD      LAB ID: ST94-03-014 LCS  
Matrix: Soil      Dilution: ST94-03-014 LCSD

Units : (mg/L)

Element	Spike Conc.	LCS	LCS % Recovery	LCSD	LCSD % Recovery	% RSD
Cadmium (Cd)	2.5	2.28	91%	2.33	93%	2%
Chromium (Cr)	2.5	2.46	98%	2.42	97%	2%
Lead (Pb)	12.5	13.0	104%	12.7	102%	2%
Nickel (Ni)	6.25	5.72	92%	5.66	91%	1%
Zinc (Zn)	1.25	1.16	93%	1.17	94%	1%

ppm = parts per million = mg/L = milligram per Liter  
ND = Not Detected Compound(s) may be present at concentrations below the detection limit.  
NR = Not Requested



R. L. James, Principal Chemist

Mar 16 1994  
Date Reported

## 5520 Modified Analysis Report

Attention:	Mr. John P. Cummings John P. Cummings & Assoc. P.O. Box 2847 Fremont, CA 94536-2847	Date Sampled:	Mar. 4, 1994
		Date Received:	Mar. 9, 1994
		Date Analyzed:	Mar. 10, 1994
Project #:	0293002.0T	Project Name:	NU Genico
Client ID:	MW-1-5'	LAB ID:	ST94-03-132A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Detection Limit	Units
Oil & Grease	ND	50	ug/g

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

ND = Not Detected Compound(s) may be present at concentrations below the detection limit



R. L. James, Principal Chemist

Mar 10 1994

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA

DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

Certificate No. 1514

## 5520 Modified Analysis Report

Attention:	Mr. John P. Cummings John P. Cummings & Assoc. P.O. Box 2847 Fremont, CA 94536-2847	Date Sampled:	Mar. 4, 1994
		Date Received:	Mar. 9, 1994
		Date Analyzed:	Mar. 10, 1994
Project #:	0293002.0T	Project Name:	NU Genico
Client ID:	MW-1-10'	LAB ID:	ST94-03-136A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Detection Limit	Units
Oil & Grease	1200	50	ug/g

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

ND = Not Detected Compound(s) may be present at concentrations below the detection limit



R. L. James, Principal Chemist

Mar 10, 1994

Date Reported



## 5520 Modified Analysis Report

Attention:	Mr. John P. Cummings John P. Cummings & Assoc. P.O. Box 2847 Fremont, CA 94536-2847	Date Sampled:	Mar. 4, 1994
		Date Received:	Mar. 9, 1994
		Date Analyzed:	Mar. 10, 1994
Project #:	0293002.0T	Project Name:	NU Genico
Client ID:	B-3-5'	LAB ID:	ST94-03-140A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Detection Limit	Units
Oil & Grease	ND	50	ug/g

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

ND = Not Detected Compound(s) may be present at concentrations below the detection limit



R. L. James Principal Chemist

Mar 10 1994

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA

DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

DATE: 03/10/1994

## 5520 Modified Analysis Report

Attention:	Mr. John P. Cummings John P. Cummings & Assoc. P.O. Box 2847 Fremont, CA 94536-2847	Date Sampled:	Mar. 4, 1994
		Date Received:	Mar. 9, 1994
		Date Analyzed:	Mar. 10, 1994
Project #:	0293002.0T	Project Name:	NU Genico
Client ID:	B-3-9.5'	LAB ID:	ST94-03-144A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Detection Limit	Units
Oil & Grease	550	50	ug/g

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit



R. L. James, Principal Chemist

Mar. 10, 1994

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA,  
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY  
CERTIFICATION NO. 1014

## 5520 Modified Analysis Report

Attention:	Mr. John P. Cummings John P. Cummings & Assoc. P.O. Box 2847 Fremont, CA 94536-2847	Date Sampled:	Mar 7, 1994
		Date Received:	Mar 9, 1994
		Date Analyzed:	Mar 10, 1994
Project #:	0293002.0T	Project Name:	NU Genico
Client ID:	MW-1	LAB ID:	ST94-03-148A
Matrix:	Water	Dilution:	1: 1

Name	Amount	Detection Limit	Units
Oil & Grease	360	50	ug/L

ppb = parts per billion = ug/L = micrograms per Liter  
ppm = parts per million = ug/mL = micrograms per milliliter  
ND = Not Detected Compound(s) may be present at concentrations below the detection limit



R. L. James Principal Chemist

Mar 10 1994

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA  
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Certificate No. 1814

3/38

# John P. Cummings & Associates

Environmental Consultants

Ph. (510) 505-0722  
Fax (510) 791-3306

P.O. Box 2847  
Fremont, CA 94536-2847

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## CHAIN OF CUSTODY

Laboratory: <i>Jorge Technology</i>
Contact: <i>Ray James</i>

Contact: <i>John P. Cummings</i>	Sampler: <i>J. A. H.</i>
Project Name: <i>NU GENICO</i>	No. <i>02930020</i>
Date: <i>3/4/94</i>	

Sample I.D.	Date/Time Sampled	Matrix Desc.	Container No. of	Type	Lab. #	Analyses Requested							Comments
						TPH/Gasoline	BTEX	TPH/Diesel	601/8010	602/8020	TOG *	5 Metals	
1. MW-1-5'	3/4 AM	Soil	1	cross tube		X	X	X			X	X	
2. MW-1-10'	"	"	1	"		X	X	X			X	X	
3. B-3-5'	3/4 PM	"	1	"		X	X	X			X	X	
4. B-3-9 1/2'	"	"	1	"		X	X	X			X	X	
5.													
6.													
7.													
8.													
9.													
10.													

Relinquished by: <i>[Signature]</i>	Date: <i>3/4/94</i>	Time: <i>18:02</i>	Received by: <i>[Signature]</i>	Date: <i>3/4/94</i>	Time: <i>18:02</i>
Relinquished by: <i>[Signature]</i>	Date: <i>3/9/94</i>	Time: <i>11:45</i>	Received by: <i>[Signature]</i>	Date: <i>3/9/94</i>	Time: <i>11:45 am</i>
Relinquished by: <i>[Signature]</i>	Date: <i> </i>	Time: <i> </i>	Received by: <i> </i>	Date: <i> </i>	Time: <i> </i>

Turnaround Time: *None*

Additional Comments: *\* TOG by GC: FID method / Metals by WET Method*  
*5 metals - Cadmium, Chromium, Lead, Nickel, Zinc*

Page 1 of 1

# John P. Cummings & Associates

Environmental Consultants Pg 2 of 2

P.O. Box 2847  
Fremont, CA 94536-2847

Ph. (510) 505-0722  
Fax (510) 791-3306

3138

## CHAIN OF CUSTODY

Laboratory: Spryza Technology

Contact: Ray Jack

Contact: John P. Cummings Sampler: VPC

Project Name: Ny Garico No. 029300204

Date: 3/7/94

Sample I.D.	Date/Time Sampled	Matrix Desc.	Container No. of	Type	Lab. #	Analyses Requested						Comments	
						TPH/Gasoline	BTEX	TPH/Diesel	601/8010	602/8020	TOC*		CAN 5/10/15/20
1. MW-1	3/7 1153	Water	2	VDA 40ML		X	X						
2. MW-1	"	"	1	1 liter				X					
3. MW-1	"	"	1	7/12/23 1 liter						X			
4. MW-1	"	"	1	500 cc plastic							X		
5.													
6.													
7.													
8.													
9.													
10.													

Relinquished by: <u>John P. Cummings</u>	Date: <u>3/9/94</u>	Time: <u>11.45</u>	Received by: <u>[Signature]</u>	Date: <u>3/9/94</u>	Time: <u>11.45 am</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Turnaround Time: Normal

Additional Comments: TOC by GC PID Metal by UST Method

Page 1 of 1