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# GeoStrategies Inc.

2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545 90, 17

(510) 352-4800

March 26, 1992

Mr. Dennis J. Byrne
Alameda County Health Agency Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Reference: Shell Service Station

4411 Foothill Boulevard Oakland, California WIC #204-5508-3400

Mr. Byrne:

As requested by Mr. Stan Roller of Shell Oil Company, we are forwarding a copy of the March 26, 1992 Waste Oil Tank Removal Observation Report for the above referenced location.

Should you have any questions or comments, please do not hesitate to call.

Sincerely

Clyde J. Galantine

Geologist

enclosure

cc: Mr. Stan Roller, Shell Oil Company

Mr. Dan Kirk, Shell Oil Company

Mr. Antonio Edayan, Oakland Fire Prevention Bureau

Infantine



WASTE OIL TANK REMOVAL OBSERVATION REPORT

Shell Service Station 4411 Foothill Boulevard Oakland, California, California WIC #204-5508-3400

2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

(510) 352-4800

March 26, 1992

Shell Oil Company P.O. Box 4023 Concord, California 94520

Attn: Stan Roller

Re: WASTE OIL TANK REMOVAL OBSERVATION REPORT

Shell Service Station 4411 Foothill Boulevard Oakland, California WIC #204-5508-3400

### Gentlemen:

This Waste Oil Tank Removal Observation Report by GeoStrategies Inc. (GSI) summarizes our observations at the above referenced site during the recent waste oil tank removal (Plate 1). Field excavation work was performed by Delta/Bay Builders Inc. of Antioch, California in February 1992. Field sampling was performed by GSI to comply with procedures in the State of California Water Resources Control Board (SWRCB) Leaking Underground Fuel Tank (LUFT) Field Manual and local regulations. A GSI geologist was present on-site to observe the UST removal and to collect soil samples from the waste oil tank excavation and soil stockpiles. A description of field procedures and sampling results are discussed in this report.

### SITE DESCRIPTION

This site is currently occupied by a Shell Service Station. The waste oil tank was located west of the station building (Plate 2). The waste oil tank has not been in use since February 1991.

### WORK DESCRIPTION

The waste oil tank was removed and sampled on February 5, 1992. The waste oil tank removal was witnessed by representatives from the Oakland Fire Department and the Alameda County Health Agency Division of Hazardous Materials (Alameda County). After removal of the waste oil tank, a soil sample was collected from beneath the tank. Soil sampling was witnessed by the Alameda County representative.

Shell Oil Company March 26, 1992 Page 2

A soil stockpile sample was collected February 5, 1992. Upon receipt of the chemical analytical data, the stockpile was transported to the appropriate landfill.

### FIELD METHODS AND PROCEDURES

Soil samples were collected by pushing a clean stainless steel sample tube into the soil until completely full. The tube was removed, covered at both ends with teflon tape and sealed with plastic end caps. The samples were labeled, placed in a cooler on blue ice, entered on a Chain-of-Custody form and transported to Sequoia Analytical Laboratory, a State-certified environmental laboratory located in Redwood City, California.

The sample beneath the waste oil tank was collected by using a backhoe bucket. The top 1 to 3 inches of soil was removed, then the sample was collected as described above.

The soil stockpile sample was collected by removing the top 6 to 12 inches of soil, then collecting the sample as described above. Four subsamples were collected for approximately 50 cubic yards of soil. The subsamples were later composited in the laboratory.

### Waste Oil Tank Excavation

Soil sample SW-1 was collected at the bottom of the excavation at a depth of approximately 11 feet below grade. The location of this sample is shown on Plate 3.

The sample was analyzed for Total Petroleum Hydrocarbons calculated as Gasoline (TPH-Gasoline), Diesel (TPH-Diesel) and Oil (TPH-Oil) according to EPA Method 8015 (Modified), benzene, toluene, ethylbenzene and xylenes (BTEX) according to EPA Method 8020, Oil and Grease (O&G) according to ASTM Method 5520 E&F, Halogenated Volatile Organics (CL HC) according to EPA Method 8240 and ICAP Metals by atomic absorption (EPA Method 7000).

Sample SW-1 contained no detectable (ND) concentrations for the previously mentioned constituents except for 6.7 parts per million (ppm) total lead. Chemical analytical data are summarized in Table 1.

### Soil Stockpile

Approximately 62 cubic yards of soil were stockpiled south and west of the excavation (Plate 3). Soil sample SWS-1A-D was collected from this stockpile.

10 8270 cm

768101-1

Shell Oil Company March 26, 1992 Page 3

Sample SWS-1A-D was analyzed for the above listed compounds (ie: the same as sample SW-1). In addition, the stockpile was analyzed for CAM wet 17 metals and Reactivity, Corrosivity and Ignitability for acceptance at an appropriate landfill.

Sample SWS-1A-D contained 5.2 ppm TPH-Gasoline, 0.011 ppm benzene, 14 ppm TPH-Diesel and 200 ppm O&G. Chemical analytical data are summarized in Table 1.

### SOIL STOCKPILE DISPOSITION

Upon receipt of the chemical analytical results, appproximately 62 cubic yards of soil represented by sample SWS-1A-D were transported by U.S. Services to the Browning Ferris Inc. landfill, located in Livermore, California.

If you have any questions, please call.

GeoStrategies Inc. by,

Clyde J. Galantine

Geologist

John F. Vargas/ Senior Geologist

R.G. 5046

CJG/JFV/dls

Plate 1. Vicinity Map

Plate 2. Site Plan

Plate 3. Soil Sample and Stockpile Map

Appendix A: Analytical Laboratory Report and Chain-of-Custody Form

NO. 5046

QC Review: RAL

768101-1

TABLE 1

### SOIL ANALYTICAL DATA

### **EXCAVATION AND STOCKPILE**

TOTAL SAMPLE DEPTH SAMPLE **ANALYZED** TPH-G BENZENE TOLUENE ETHYLBENZENE XYLENES TPH-D 0&G LEAD (FT') DATE DATE (PPM) (PPM) (PPM) (PPM) (PPM) (PPM) (PPM) PPM SW-1 05 - Feb - 92 21-Feb-92 <1.0 <0.0050 <0.0050 < 0.0050 <0.0050 <1.0 6.7 05-Feb-92 21-Feb-92 5.2 0.011 0.0080 0.012 0.018 14 130

notice.

 $\label{eq:continuous} \mbox{TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline}$ 

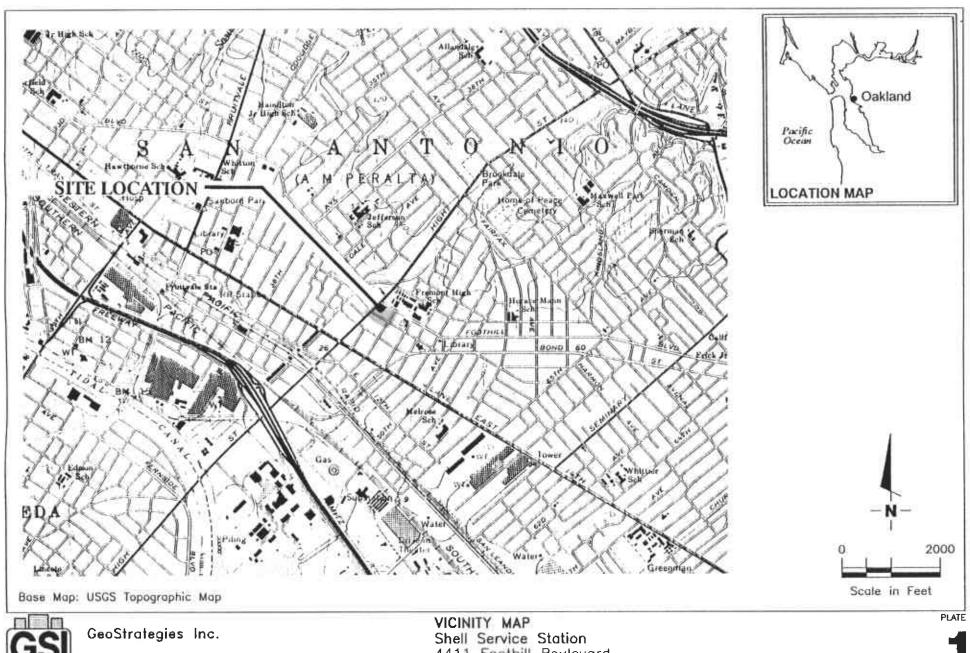
TPH-D = Total Petroleum Hydrocarbons calculated as Diesel

O&G = Oil & Grease

PPM = Parts Per Million

SW = Excavation sample

SWS = Stockpile sample



4411 Foothill Boulevard Oakland, California DATE

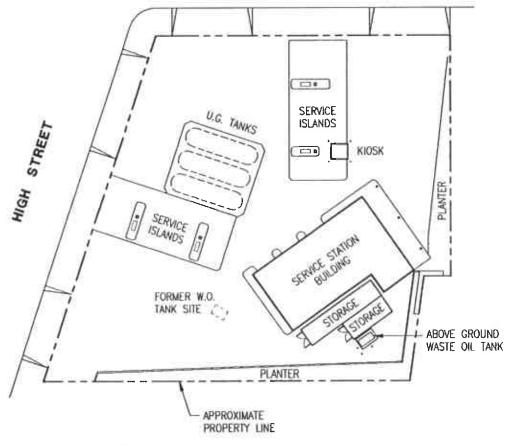
3/92

JOB NUMBER 7681

REVIEWED BY

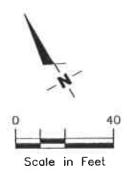
REVISED DATE

### FOOTHILL BOULEVARD





Shell Oil Company Site Plan doted 3/6/91 (Rev. 1/10/92)





GeoStrategies Inc.

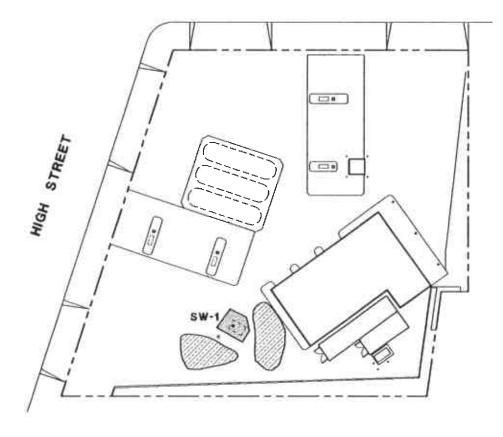
SITE PLAN
Shell Service Station
4411 Foothill Boulevard
Oakland, California

JOB NUMBER REVIEWED BY 768101-1

DATE 3/92 REVISED DATE

PLATE

# FOOTHILL BOULEVARD



**EXPLANATION** 



Approximate excavation area



Approximate soil stockpile area

Waste oil tank excavation sample

is westerly Scale in Feet

PLATE

Base Map:

Shell Oil Company Site Plan dated 3/6/91 (Rev. 1/10/92)



GeoStrategies Inc.

SOIL SAMPLE AND STOCKPILE MAP Shell Service Station 4411 Foothill Boulevard Oakland, California

DATE 3/92

JOB NUMBER 768101 - 1 REVIEWED BY

REVISED DATE

# APPENDIX A ANALYTICAL LABORATORY REPORT AND CHAIN-OF-CUSTODY FORMS





100

Gettler Ryan

2150 W. Winton Avenue Hayward, CA 94545 Attention: John Werfal GETTLER-RYAN INC.

Project: 7681.01, Shell, Oakland

Enclosed are the results from 2 soil samples received at Sequoia Analytical on February 6,1992. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
2020900	Spil, SW-1	2/5/92	EPA 3550/8015 EPA 5030/8015/8020 EPA 8240 SM 5520 E&F (Gravimetric)
2020901 A-D	Soil, SW\$1 A-D	2/5/92	EPA 3550/8015 EPA 5030/8015/8020 EPA 8240 SM 5520 E&F (Gravimetric)

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Vickie Tague Project Manager

681-A

Sampled: Client Project ID: 7681.01, Snell, Oaldano Feb 5, 199 «Gettier Ryan Feb 6, 199 Received: 2150 W. Winton Avenue Matrix Descript: Analyzed: Feb 7, 199 ®Hayward, CA 94545 Analysis Method: EPA 5030/8015/8020 Feb 21, 199 Attention: John Werfall Reported: First Sample #: 202-0900

# TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Low/Medium B.P. Description Hydrocarbons mg/kg (ppm)		Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
202-0900	SW-1	N.D.	N.D.	N.D.	N.D.	N.D.
2020901 A-D	SWS1 A-D	5.2	0.011	0.0080	0.012	0.018

	<del></del>				
Detection Limits:	1.0	0.0050	0.0050	0.0050	0.0050

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie Tague Project Manager



Gettler Ryan 2150 W. Winton Avenue Hayward, CA 94545

Client Project ID:

7681.01, Shell, Oakland

Sampled: Received: Feb 5, 199. Feb 6, 199,

Matrix Descript: Analysis Method:

EPA 3550/8015

Extracted: Analyzed: Feb 7, 199. Feb 7, 199

Attention: John Werfal

First Sample #:

202-0900

Soil

Feb 21, 199 Reported:

# TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number

Sample Description High B.P.

Hydrocarbons

mg/kg

(ppm)

202-0900

SW-1

N.D.

2020901 A-D

SWS1 A-D

14

**Detection Limits:** 

1.0

High Boiling Point Hydrocarbons are quantitated against a diese! fuel standard. Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie Tağue Project Manager Please Note:

Sample SWS1 A-D does not appear to contain diesel fuel. Higher boiling point compounds predominate.

2020900.GET <2>



7681.01, Shell, Oakland Feb 5, 199 Sampled: Client Project ID: Gettler Ryan Received: Feb 6, 199 2150 W. Winton Avenue Matrix Descript: Soli Feb 10, 199 SM 5520 E&F (Gravimetric) Extracted: Hayward, CA 94545 Analysis Method: Feb 10, 199 Analyzed: Attention: John Werfal First Sample #: 202-0900 Feb 21, 199 Reported: 

### TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)
202-0900	SW-1	N.D.
2020901 A-D	SWS1 A-D	130

Detection Limits:

Analytes reported as N.D. were not present above the stated limit of detection.

30

SEQUOIA ANALYTICAL

Vickie Tague Project Manager Gettler Ryan 2150 W. Winton Avenue Hayward, CA 94545 Attention: John Werfal Client Project ID: 7681.0 Sample Descript: Soli, S

7681.01, Shell, Oaldand Soll, SW-1 Sampled: Received: Feb 5, 199: Feb 6, 199:

Analysis Method: EPA 8240 Lab Number: 202-0900 Analyzed: Reported: Feb 10, 1992 Feb 21, 1992

# **VOLATILE ORGANICS by GC/MS (EPA 8240)**

Analyte	Detection Limit µg/kg		Sample Results µg/kg
Acetone	500	******************************	N.D.
Benzene	100	***************************************	N.D.
Bromodichloromethane	100		N.D.
Bromoform	100		N.D.
Bromomethane	100		N.D.
2-Butanone	<b>50</b> 0	***************************************	N.D.
Carbon disulfide	100	***************************************	N.D.
Carbon tetrachloride	100		N.D.
Chiorobenzene	100	***************************************	N.D.
Chioroethane	100	******************************	N.D.
2-Chloroethyl vinyl ether	500	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	N.D.
Chloroform	100	**************************	N.D.
Chloromethane	100	*****************************	N.D.
Dibromochloromethane	100	****************************	N.D.
1.1-Dichioroethane	100		N.D.
1,2-Dichloroethans			N.D.
1.1-Dichloroethens	100	***************************************	N.D.
cis-1,2-Dichloroethene			N,D.
trans-1,2-Dichloroethene	100	<b></b>	N.D.
1,2-Dichloropropane	100	**************************	N.D.
cis-1,3-Dichloropropene	100		N.D.
trans-1,3-Dichloropropene	100	****************************	N,D.
Etnylbenzene		***************************************	N.D.
2-Hexanone		***************************************	N.D.
Methylene chloride		***************************************	N.D.
4-Methyl-2-pentanone			N.D.
Styrene	100		N.D.
1,1,2,2-Tetrachioroethane	= =		N.D.
Tetrachloroethene			N.D.
Toluene		***************************************	N.D.
1.1.1-Trichloroethane			N.D.
1,1,2-Trichloroethane			N.D.
• •	100		N.D.
Trichlorofluoromethane	100	***************************************	N.D.
	400	******************************	N.D.
Vinyi acetate			N.D.
Vinyl chloride	100	***************************************	N.D.
Total Xylenes	,00	***************************************	

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie Tague Project Manager

Client Project ID:

7681.01, Shell, Oakland

Sampled:

Feb 24, 1992

2150 W. Winton Avenue

Sample Descript:

Received: Extracted: Feb 27, 1992 Feb 27, 1992

Hayward, CA 94545 Attention: John Werfall

Lab Number:

202-4158  Reported:

Mar 4, 1992

# INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

Soluble Threshold Limit Concentration Waste Extraction Test

Total Threshold Limit Concentration

Analyte	STLC Detection Analysis  Max. Limit Limit Result  (mg/L) (mg/L) (mg/L)		TTLC Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)	
Antimony Arsenic Barium Beryllium Cadmium Chromium (VI) Chromium (III) Cobalt Copper Lead Mercury Molybdenum Nickel Selenium Silver	(mg/L)  15 5.0 100 0.75 1.0 5.0 560 80 25 5.0 0.20 350 20 1.0 5.0 7.0	(mg/L)  0.10 0.10 0.10 0.010 0.010 0.0050 0.010 0.050 0.010 0.050 0.010 0.050 0.050 0.050 0.050 0.010 0.010	(mg/L)  0.15  N.D. 6.9  N.D. N.D. 0.056  1.1  1.3  0.28  N.D. N.D. 0.54  N.D. N.D. N.D. N.D.	500 500 10,000 75 100 500 2,500 8,000 2,500 1,000 20 3,500 2,000 100 500 700	5.0 5.0 5.0 0.50 0.50 0.50 2.5 0.50 5.0 0.010 2.5 2.5 5.0 0.50	
Thallium Vanadium Zinc	24 250	0.050 0.010	0.69 0.47	2,4 <b>0</b> 0 5,000	2.5 0.50	-
Asbestos Fluoride	180	10 0.10	-	10,000 18,000	100 1.0	

TTLC results are reported as mg/kg of wet weight. Asbestos results are reported as fibers/g. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

∀ickie Tague Project Manager

2024158.GET <2>



Client Project ID: 7681.01, Shell, Oaklant

2150 W. Winton Avenue Hayward, CA 94545 Attention: John Werfal

QC Sample Group: 202-4158

Reported: Mar 4, 1992

# QUALITY CONTROL DATA REPORT

ANALYTE	рН	Sulfide	Cyanide	
Method: Analyst: Reporting Units: Date Analyzed: QC Sample #:	EPA 9040 Y. Aneags units Feb. 27, 1992 202-4157	EPA 9030 Samra/Colon mg/kg Mar 2, 1992 202-4158	EPA 9010 L. Colon mg/L Feb 24, 1992 202-3224	
Sample Conc.:	6.8	N.D.	N.D.	
Spike Conc. Added:	N.A.	1300	0.8	
Conc. Matrix Spike:	N.A.	1000	6.6	
Matrix Spike % Recovery:	N.A.	77	82	
Conc. Matrix Spike Dup.:	6.8	1000	6.7	
Matrix Spike Duplicate % Recovery:	N.A.	77	84	
Relative % Difference:	0.0	0.0	1.5	

SEQUOIA ANALYTICAL

Vickie Tague
Project Manager

6 Recovery:	Conc. of M.S Conc. of Sample Spike Conc. Added	x 100	_
Polotina 91 Difference	Conc. of M.S Conc. of M.S.D.	x 100	

(Conc. of M.S. + Conc. of M.S.D.) / 2

2024158.GET <3>



Gettier Ryan Client Project ID: 7681.01, Shell, Oakland

2150 W. Winton Avenue Hayward, CA 94545

Attention: John Werfal

QC Sample Group: 202-4158

Reported: Mar 4, 1992

# QUALITY CONTROL DATA REPORT

ANALYTE	STLC Barium	STLC Beryllium	STLC Cadmium	STLC Chromium	STLC Cobalt	STLC Copper		
Method: Analyst: Reporting Units: Date Analyzed: QC Sample #:	EPA 200.7 M. Mistry mg/L Mar 2, 1992 202-4529							
Sample Conc.:	N.D.	N.D.	N.D.	N.D. N.D.		N.D.		
Spike Conc. Added:	10	10	10	10 10		10		
Conc. Matrix Spike:	8.6	8.1	8.5	8.4	8.2	9.1		
Matrix Spike % Recovery:	86	81	85	84	82	91		
Conc. Matrix Spike Dup.:	8.6	8.1	8.5	8.4	8.2	9.0		
Matrix Spike Duplicate % Recovery:	86	81	85	84	82	90		
Relative % Difference:	0.0	0.0	0.0	0.0	0.0	1.1		

SEQUOIA ANALYTICAL

<del>Vic</del>kie Taque Project Manager

Conc. of M.S. - Conc. of Sample x 100 % Recovery: Spike Conc. Added x 100 Conc. of M.S. - Conc. of M.S.D. Relative % Difference: (Conc. of M.S. + Conc. of M.S.D.) / 2

2024158.GET <4>



Client Project ID: 7681.01, Shell, Oakland

2150 W. Winton Avenue Hayward, CA 94545

Attention: John Werfal QC Sample Group: 202-4158

Reported: Mar 4, 1992

# QUALITY CONTROL DATA REPORT

ANALYTE	STLC Arsenic	STLC Lead	STLC Selenium	STLC Thallium	STLC Mercury	
Method: Analyst: Reporting Units: Date Analyzed: QC Sample #:	EPA 200.7 M. Mistry rng/L Mar 2, 1992 202-4529	EPA 200.7 M. Mistry mg/L Mar 2, 1992 202-4529	EPA 200.7 M. Mistry mg/L Mar 2, 1992 202-4529	EPA 200.7 M. Mistry mg/L Mar 2, 1992 202-4529	EPA 245.1 J. Martinez mg/L Mar 3, 1992 203-0142	
Sample Conc.:	0.35	N.D.	N.D.	N.D.	N.D.	
Spike Conc. Added:	10	10	200	10	0.0020	
Conc. Matrix Spike:	10	7.9	250	8.1	0.0022	
Matrix Spike % Recovery:	97	79	125	81	110	
Conc. Matrix Spike Dup.:	10	8.0	250	8.1	0.0022	
Matrix Spike Duplicate % Recovery:	97	80	125	81	110	
Relative % Difference:	0.0	1.3	0.0	0.0	0.0	

SEQUOIA ANALYTICAL

₹ Vickie Tague Project Manager ...

x 100 Conc. of M.S. - Conc. of Sample % Recovery: Spike Conc. Added

x 100 Conc. of M.S. - Conc. of M.S.D. Relative % Difference:

(Conc. of M.S. + Conc. of M.S.D.) / 2

2024158.GET <5>



Client Project ID: 7681.01, Shell, Oakland

2150 W. Winton Avenue ⊞Hayward, CA 94545 ⊕Attention: John Werfal

QC Sample Group: 202-4158

Reported: Mar 4, 1992

# QUALITY CONTROL DATA REPORT

ANALYTE	STLC STLC Malybaenum Nickel		STLC Silver	STLC Vanadium	STLC Zinc	STLC Antimony	
Method: Analyst: Reporting Units: Date Analyzed: QC Sample #:	EPA 200.7 M. Mistry mg/L Mar 2, 1992 202-4529						
Sample Conc.:	N.D.	N,D.	ND	N.D.	0.014	N.D.	
Spike Conc. Added:	10	10	10	10	10	10	
Conc. Matrix Spike:	8.7	8.0	8.3	<b>8</b> .5	8.4	8.4	
Matrix Spike % Recovery:	87	80	83	85	84	84	
Conc. Matrix Spike Dup.:	8.7	8.0	<b>8</b> .3	8.5	8.4	8.3	
Matrix Spike Duplicate % Recovery:	87	80	83	85	84	83	
Relative % Difference:	0.0	0.0	0.0	0.0	0.0	1.2	

SEQUOIA ANALYTICAL

<del>-Vi</del>ckie Tague Project Manager % Recovery: Conc. of M.S. - Conc. of Sample x 100
Spike Conc. Added

Relative % Difference:

Conc. of M.S. - Conc. of M.S.D. (Conc. of M.S. + Conc. of M.S.D.) / 2

x 100

2024158.GET <6>

SHELL OIL COMPANY RETAIL ENVIRONMENTAL ENGINEERING - WES						CHAIN OF CUSTODY RECORD Date:  Seri (100) D Page )					· · · / · ·						
Site Address: 4411 Foothill Blue	l Oak	Land_	Analysis Required						LAB: Sequoia								
WICH: 204-5508-39	100									1		CHEC	CK OH	E (1)	l	·	RN AROUND TIME
Shell Engineer:	Phone N	lo. 685-3850										Quar	Icily N	Sonito			hours []
Den Kick	FAX #: 1	0) 685-3943											Investi	-			роль []
Consultant Name & Address: Gettler-Ryan / GeoStrategles								ι.	Y				for dis	•	<b>⊠</b> 14	1 **	diyi [X] (Normil)
7681.01 2150 W. W	inton Ave Californi	a 94545				<u>_</u>		T8.F					r for d	•	Ban. *	(O)	her []
Consultant Contact:	Phone N	lo. 783-7500	[gg]	Diesel)		8240)		520	\ \ \ .	ĺ			iample	·		Ho	OTE: Notify Lab as
John Werfal	Pix I:	783-1089			(2)	∢		 ??	0,0			Othe		bic - 2	Sys O&M □ 54 □		on as possible of /48 lws. TAT.
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Dupliente of sws	T/A-10	-	3015	8015	30.	Organic	Disposal	ease	7			9	Jsed	۲/۲			SAMPLE
Comments: 240-50 yds Duplizate of 5WS Sampled By: Olyde Sul	ant		<	<	(EPA	ဦ	Dis	9	-	1-4		r Size	Preparation Used		MATERIA		CONDITION
Printed Name: Clyde Gala	utice			(EB)		Volatic	T⇔t for	.ພ ~~	7			Container	Jerret	Composite	DESCRIPTI	IUN	COMMENTS
Sample ID Date	Soil Water	Air No. of	TE.	HGI	BTEX	Vol	i.	0.	5	K		[ ষ্ট্ৰ	P.	ð			
545-14-D 2-24-92	X								$\geq$	$\geq$		1/2301		Y			2024158
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FTP 27 1992

GETTLER-RYAN INC.

GENERAL CONTRACTORS

Gettler Ryan 2150 W. Winton Avenue Hayward, CA 94545 Attention: John Werfal

Project: 7681.01, Shell, Oakland

Enclosed are the results from 1 soil sample relogged at Sequoia Analytical on February 21,1992. The requested analyses are listed below:

SAMPLE # SAMPLE DESCRIPTION DATE OF COLLECTION TEST METHOD

2020900 Soil, SW-1 2/5/92 Miscellaneous Metais

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Vickie Tague Project Manager

681-A



Gettler Ryan 2150 W. Winton Avenue Hayward, CA 94545

Attention: John Werfal

Client Project ID: Sample Descript:

Lab Number:

7681.01, Shell, Oakland Soil, SW-1 Sampled: Relogged: Feb 5, 1992 Feb 21, 1992

imple Descript: Soil

Analyzed: Reported:

Feb 24, 1992 Feb 26, 1992

# LABORATORY ANALYSIS

A2020900

Analyte

Detection Limit mg/kg

Sample Results mg/kg

 Cadmium
 0.010
 N.D.

 Chromlum
 0.010
 79

 Lead
 0.10
 6.7

 Nickel
 0.050
 180

 Zinc
 0.010
 56

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie Tague Project Manager



Client Project ID: 7681.01, Shell, Oakland

2150 W. Winton Avenue Hayward, CA 94545

Attention: John Werfal

QC Sample Group: 202-0900

Reported: Feb 26, 1992

# QUALITY CONTROL DATA REPORT

ANALYTE	Lead	Cadmium	Chromium	Nickel	Zinc	· · · · · · · · · · · · · · · · · · ·
Method: Analyst: Reporting Units: Date Analyzed: QC Sample #:	EPA 6010 M. Mistry mg/kg Feb 24, 1992 202-3215					
Sample Conc.:	N.D.	N.D.	84	50	25	
Spike Conc. Added:	50	50	50	50	50	
Conc. Matrix Spike:	51	47	130	96	72	
Matrix Spike % Recovery:	102	94	92	92	94	
Conc. Matrix Spike Dup.:	52	48	130	98	74	
Matrix Spike Duplicate % Recovery:	104	96	92	96	98	
Relative % Difference:	1.9	2.1	0.0	2.1	2.7	

SEQUOIA ANALYTICAL

Vickie Tague Project Manager % Recovery: Conc. of M.S. - Conc. of Sample x 100
Spike Conc. Added

Relative % Difference: Conc. of M.S. - Conc. of M.S.D. x 100

(Conc. of M.S. + Conc. of M.S.D.) / 2

A2020900.GET <2>

# REQUEST TO RELOG SAMPLES (Please submit to sample control with a copy of the COC)

CLIENT:		rRyan		MATRIX:	20	il	
PREVIOUSLY	/ LOGGED SA	MPLES					
<b>⊠</b> TAT	Change statu		_ Time: _	2pm	_		
CHANGE	ANALYSES						
Add Analy	yses:		Canc	el Analyses			
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: 4411 Foothil/Blud Oakland WICH: 204-5508-3400							,	Ana	ılys	lysis Required					LAB: <u>Sequoia</u>						
WIC#: 204-5508-3400								T		T	T	T	T	7	CH	ECK C	NE (I	) BOX ONLY	CT/DT	TURN AROL	іміт айс
Shell Engineer: Phone No. 685 - 1850					7						1					Monit	·	*	24 hours	<del></del>	
Dan Kirk Fax (510) 685-3943														1			· L	I	48 hours []	•	
Consultant Name & Address: Gettler-Ryan / GeoStrategies					1												I SUWS-IA-TE				
7681,01	2150 W.	Winte	on Ave	<b>.</b>							E & F	il .					dispos		5443	15 days (Normal)	
Consultant Contact: Phone No. 783-7500					<del> </del> જ	Diesel)		8240)			,					-	_	5452	Other		
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