

June 2, 1994

Chevron U.S.A. Products Company

2410 Camino Ramon San Ramon, CA 94583 PO Box 5004 San Ramon, CA 94583-0804

Marketing Department Phone 510 842 9500

Ms. Juliet Shin Alameda County Health Care Services Department of Environmental Health 80 Swan Way, Room 200 Oakland, CA 94621

Re: Chevron Service Station #9-0504

15900 Hesperian Boulevard, San Lorenzo, CA

Dear Ms. Shin:

Enclosed is the Soil Sampling and Disposal report dated March 30, 1994, prepared by our consultant Weiss Associates for the above referenced site. On January 6, 1994, the existing product piping was removed and soil samples were collected along every 20 linear feet of piping in accordance with Tri-Regional Guidelines. The soil samples collected were analyzed for total petroleum hydrocarbons as gasoline and BTEX.

Laboratory results indicate that trace concentrations of these constituents were detected in samples D-2 and D-3A. All other samples collected beneath the former product lines reported concentrations of these constituents below method detection limits.

Based on field observations and analytic results it appears that the impact to soils is limited. No further soils work is warranted at this time. We will continue to operate and evaluate the effectiveness of the ground water extraction system

If you have any questions or comments, please do not hesitate to contact me at (510) 842-8134.

Sincerely,

CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller

Site Assessment and Remediation Engineer

cc: Mr. Eddy So, RWQCB - Bay Area

Mr. S.A. Willer

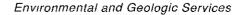
Mr. Bruce E. Prigoff, Esq. Steefel, Levitt & Weiss

One Embarcadero Center, 29th Floor

San Francisco, CA 94111

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File: 9-0504 LR RPT1





5500 Shellmound Street, Emeryville, CA 94608-2411

Fax: 510-547-5043 Phone: 510-450-6000

March 30, 1994

Mark Miller Chevron U.S.A. Products Company P.O. Box 5004 San Ramon, California 94583-0804

> Re: Soil Sampling and Disposal Chevron Service Station #9-0504 15900 Hesperian Blvd.

San Lorenzo, California WA Job #4-551-09

Dear Mr. Miller:

Weiss Associates (WA) is pleased to present you with this letter documenting the sampling and disposal of soils generated while replacing the pumps and product piping during January and March 1994 at the site referenced above.

SOIL SAMPLING

Pipeline Trench Sampling

On January 6, 1994, WA collected six soil samples along the former product lines to confirm that the old product lines had not leaked (Figure 1). Ms. Madhulla Logan from the Alameda County Department of Environmental Health was onsite and approved the six sampling locations. The soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 8015, and benzene, ethylbenzene, toluene, and xylenes (BETX) by EPA Method 8020 by Superior Precision Analytical (SPA), Inc., San Francisco, California. Samples D-2 and D-3A had slight detections of TPH-G, benzene, ethylbenzene and total xylenes. Later during construction, these locations were over excavated to install the new product lines. The analytic results are summarized in Table 1 and the analytic reports are presented in Attachment A.



Soil Stockpile Sampling

On January 6, 1994, soil samples SP-1/SP-2 were collected from a stockpile of fill excavated to collect native soil samples, T1 and T2, from under the pipeline trenches. Soil samples T1 and T2 were analyzed for TPH-G by EPA Method 8015, and BETX by EPA Method 8020 by SPA. No hydrocarbons were detected in these two samples.

On January 14, 1994, WA collected nine additional soil samples from additional soil stockpiles, SP1 and SP2, generated during excavation of the new product pipeline trenches. Soil stockpiles SP1 and SP2 contained approximately 60 and 195 cubic yards of soil each, respectively. The soil stockpile samples were composited at the laboratory and analyzed for TPH-G by EPA Method 8015, TPH as diesel (TPH-D) by EPA Method 8015 and BETX by EPA Method 8020 by SPA. Each composite sample was also analyzed for STLC/lead and TCLP using EPA Method 8240 by GTEL Environmental Laboratories, Inc of Concord, California. Soil from stockpile SP1 was also analyzed for reactivity by Sequoia Analytical of Redwood City, California and flammability and pH by SPA.

On March 2, 1994, WA collected 4 soil samples from a third stockpile (SP3) generated during further excavation along the southern end of each of the dispensers. The stockpile contained approximately 55 cubic yards of soil. The soil stockpile samples were composited at the laboratory and analyzed for TPH-G by EPA Method 8015, TPH as diesel (TPH-D) by EPA Method 8015 and BETX by EPA Method 8020, STLC/lead, TCLP using EPA Method 8240, reactivity, ignitability and pH by GTEL Environmental Laboratories, Inc of Concord, California.

SOIL DISPOSAL

On January 28, 1994, Allwaste Transportation from San Martin, California delivered soil stockpile SP1 to the BFI (Vasco Road) Class III facility in Livermore, California. Based on the analytic results for STLC/lead, soil stockpile SP2, was disposed of at BFI (Keller Canyon Road) Class II facility in Pittsburg, California on January 31, 1994.

On March 11, 1994, Grifall Trucking from San Jose, California delivered soil stockpile SP3 to the BFI (Vasco Road) Class III facility in Livermore, California.



We appreciate this opportunity to provide environmental services to Chevron and trust this submittal meets your needs. Please call if you have any questions or comments.

Sincerely,

Weiss Associates

Joyce Adams

Senior Staff Geologist

ouce adams

Michael Cooke

Project Geologist

JA/MC/:jea

Attachments:

J:\HC _ENG\CHEVRON\SANL-551\551L1FE4.WP

Figure 1 - Soil Sample and Stockpile Locations Table 1 - Analytical Results for Soil

A - Analytic Results

B - Waste Manifests for January and March Soil Disposal

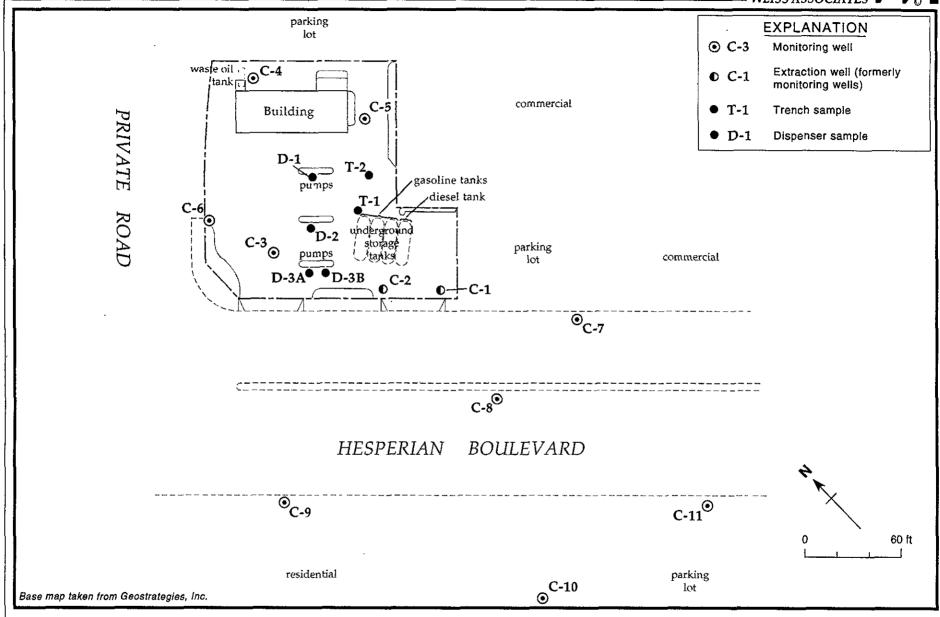


Figure 1. Soil Sample Locations - January 1994 - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California

Table 1. Analytic Results for Soil - Chevron Service Station, #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California

and and	B. A.	TPH-G	TPH-D	В	E	Т	x
Soil Sample Location	Date Sampled	<u> </u>		parts per mil	lion (mg/kg)		>
T-1	1-6-94	<1	NA	<0.005	<0.005	<0.005	<0.005
T-2	1-6-94	<1	NA	<0.005	<0.005	<0.005	<0.005
D-1	1-6-94	<1	NA	<0.005	<0.005	<0.005	<0.005
D-2	1-6-94	2	NA	0.01	0.011	<0.005	0.23
D-3A	1-6-94	5	NA	0.018	0.061	<0.005	0.14
D-3B	1-6-94	<1	NA	<0.005	<0.005	<0.005	<0.005
SP1/SP2	1-6-94	<20	NA	<0.1	<0.1	<0.1	<0.1
SP1A,1B,1C,SP1 ^a	1-14-94	2	580	<0.005	0.019	0.007	0.033
SP2A,2B,2C,2D ^b	1-14-94	<1	10	<0.005	<0.005	<0.005	0.019
SP2E,2F,SP2 ^C	1-14-94	15	110	<0.05	<0.05	0.07	0.22
sp3 ^d	3-2-94	<1	<10	<0.05	<0.05	<0.05	<0.05

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

TPH-D = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

B = Benzene by EPA Method 8020

E = Ethylbenzene by EPA Method 8020

T = Toluene by EPA Method 8020

X = Xylenes by EPA Method 8020

ppm = parts per million

NA = Not analyzed

<n = Not detected at detection limits of n ppm</pre>

Notes:

a = Flash point was >100, pH=7.9, lead - 0.9 mg/l, sulfide - <13 mg/kg, cyanide - <0.5 mg/kg, negative reaction with water, TCLP by 8240 - <0.05 mg/l.

b = Lead - 1.6 mg/l, TCLP by 8240 - <0.05 mg/l.

c = Lead - 1.1 mg/l, TCLP by 8240 - <0.05 mg/l.

d = Flash point was >160, pH=8.3, lead - 0.6 mg/l, sulfide - <1 mg/kg, cyanide - <1 mg/kg, TCLP by 8240 - <0.05 mg/l.



ATTACHMENT A

ANALYTIC RESULTS



Superior Precision Analytical, Inc.

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

Weiss Associates Attn: Mike Cooke Project 4-551-09 Reported 01/12/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
15086- 1	T-1	01/06/94	01/12/94 Soil
15086- 2	T-2	01/06/94	01/11/94 Soil
15086- 3	D-1	01/06/94	01/11/94 Soil
15086- 4	D-2	01/06/94	01/11/94 Soil
15086- 5	D-3A	01/06/94	01/11/94 Soil
15086- 6	D-3B	01/06/94	01/11/94 Soil
15086- 7	SP-1+SP-2	01/06/94	01/11/94 Soil

RESULTS OF ANALYSIS

Laboratory Number: 15086-1 15086-2 15086-3 15086-4 1508	Laboratory Nur	ber: 15086-1	1 15086- 2	15086-3	15086- 4	15086- 5
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Gasoline: Benzene: Toluene: Ethyl Benzene: Total Xylenes:	ND<1 ND<.005 ND<.005 ND<.005 ND<.005	ND<1 ND<.005 ND<.005 ND<.005 ND<.005	ND<1 ND<.005 ND<.005 ND<.005 ND<.005	2 0.01 ND<.005 0.011 0.23	5 0.018 ND<.005 0.061 0.14
Concentration:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
- · · · · · · · · · · · · · · · · · · ·	15000	15006 744			

Laboratory Number: 15086- 6 15086- 7**

Gasoline:	ND<1	ND<20
Benzene:	ND<.005	ND<0.1
Toluene:	ND<.005	ND<0.1
Ethyl Benzene:	ND<.005	ND<0.1
Total Xylenes:	ND<.005	ND<0.1
Concentration:	mg/kg	mg/kg

**HIGHER DETECTION LIMITS DUE TO MATRIX INTERFERENCE

Page 1 of 2



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CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2 QA/QC INFORMATION SET: 15086

NA = ANALYSIS NOT REQUESTED

ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT

mg/kg = parts per million (ppm)

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

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

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

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

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	102/106	4	75-125
Benzene:	81/87	8	75-125
Toluene:	84/90	7	75-125
Ethyl Benzene:	83/89	7	75 - 125
Total Xylenes:	90/96	7	75-125

Senior Chemist Account Manager

Fax cop	y of	Lab	Кер	ort c	ınd	COC to	Che	vron	Со	ntac	t: Ľ					C	haii	n-c	1-(Jus	tody	-Ke	cord
Chevron U.S P.O. BOX San Ramon, (FAX (415)84	5004 A 94583	Cone Cone	onsultant Project Number 7-33 1 onsultant Name Live: 55 ASSOCIALES Address 5500 Shellmonal St. Fetneryville Project Contact (Name) Mile Cooke (FID) 450-6000 (Fax Number) 547-5043												Chevron Contact (Name) Mark Miller (Phone) 510-842-8134 Laboratory Name Superior Laboratory Release Number 75838/D Samples Collected by (Name) Signature Signature August Classics								
Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcool	Type G = Grab C = Composite D = Discrete	Tim⊕	Sample Preservation	iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)		9 600	Purgeoble Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni ClCAP or AA)	,			U g		1	čemarke ì	
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Superior Precision Analytical, Inc.

-1555 Burke, Unit ! • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

Weiss Associates Attn: Mike Cooke Project 4-551-09 Reported 01/18/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
15120- 1	SP-1A,1B,1C,1 COMP	01/14/94	01/18/94 Soil
15120- 2	SP2-A,B,C,D COMP	01/14/94	01/18/94 Soil
15120- 3	SP2-E,F,2 COMP	01/14/94	01/18/94 Soil

RESULTS OF ANALYSIS

Laboratory Number: 15120- 1 15120- 2 15120- 3

Page 1 of 2

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CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2 QA/QC INFORMATION SET: 15120

NA = ANALYSIS NOT REQUESTED

ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT

mg/kg = parts per million (ppm)

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

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

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

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

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	92/90	2%	75-125
Benzene:	84/88	5%	72-125
Toluene:	85/91	7%	75-125
Ethyl Benzene:	81/82	1%	75-125
Total Xylenes:	89/92	3%	75-125
Diesel:	108/108	0%	47-164

Senior Chemist Account Manager

Chevron U.S P.O. BOX San Ramon, C FAX (415)84	5.A. Inc. 5004 CA 94583	Cone Cone	ron Facili Facili ultant Pr ultant Na uddress	ty Number ty Address oject Num me		-050 \$900 4-55 4:55 \$fells Mi 50-600	1-0 As	50e 60	cian cia	Blue Les	<i>ŧ,</i> ≤.	-0fe	Cr	Chevron Contact (Name) Mark Miller (Phone) 510 - 842-8134 Laboratory Name Super: or Laboratory Release Number 3583810 Samples Collected by (Name) Joyce Adams Collection Date 114194 Signature Goyce Adams									
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Superior Precision Analytical, Inc.

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

CERTIFICATE OF ANALYSIS

Laboratory No.: 15131 Client : Weiss Associates Client job No.: 4-551-09

Date received: 01/19/94 Date reported: 01/21/94

FLASHPOINT BY EPA METHOD 1010

Lab Sample ID	Date Sampled	Date Analyzed	Analyte	Result	Unit	
1 SP1A, 1B, 1C, 1	01/14/94	01/21/94	FLASHPOINT	>100	°C	

Senior Chemist Account Manager

Page 1/1



Superior Precision Analytical, Inc.

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

CERTIFICATE OF ANALYSIS

Laboratory No.: 15131 Client: Weiss Associates Client job No.: 4-551-09 Date received: 01/19/94

Date reported : 01/24/94

Lab Sample ID	Date Sampled	Date Analyzed	Analyte	Result	
1 SP1A 1R 1C 1	01/14/94	01/20/94	PH	7.9	

Senior Chemist Account Manager

Page 1/1

Superior Precision Analytical Client Project ID: 15131, Chevron 9-0504 1555 Burke St., Unit 1 Sample Descript: Soil, 15131-1

Sampled: Jan 14, 1994.

San Francisco, CA 94124

Received: Jan 20, 1994. Analyzed: Jan 21, 1994;

Attention: Cecilia Joaquin Lab Number: 4AA1801 Reported: Jan 24, 1994

REACTIVITY

Analyte	Detection Limit	Sample Results
Reactivity: Sulfide, mg/kg Cyanide, mg/kg	13 0.50 N.A.	 N.D. N.D. Negative

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

SEQUOIA/ANALYTICAL

Peggy A. Penner roject Manager

Superior Precision Analytical Client Project ID: 15131, Chevron 9-0504

§1555 Burke St., Unit 1

Matrix:

San Francisco, CA 94124

Attention: Cecilia Joaquin QC Sample Group: 4AA180 QC Sample Group: 4AA1801 Reported: Jan 24, 1994. 447 - 1 July

QUALITY CONTROL DATA REPORT

ANALYTE	Reactive	Reactive			
	Cyanide	Sulfide			
Method:	SW-846	SW-846			
Analyst:	M. Nguyen	K. Newberry		 	

Date Analyzed:

1/21/94

1/21/94

Sample #:

4A43801

4A43801

Sample

Concentration:

N.D.

N.D.

Sample

Duplicate Concentration:

N.D.

N.D.

% RPD:

0.0

0.0

% RPD:

Control Limits:

80-120

80-120

ANALYTICAL

Peggy A. Penner **Project Manager**

4AA1801.SSS <2>



4080 Pike Lane Concord, CA 94520 (510) 685-7852 (800) 544-3422 Inside CA (800) 423-7143 Outside CA (510) 825-0720 FAX

Client Number: WSS02CHV08 Consultant Project Number: 4-551-09 Facility Number: 9-0504

Project ID: 15900 Hesperian Blvd.

. Lorenzo

Work Order Number: C4-01-0276

January 27, 1994

Mike Cooke Weiss Associates 5500 Shellmound Street Emeryville, CA 94608

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 01/14/94.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

GTEL Environmental Laboratories, Inc.

Rashmi Shah

Laboratory Director

Client Number: WSS02CHV08
Consultant Project Number: 4-551-09
Facility Number: 9-0504
Project ID: 15900 Hesperian Blvd.
S. Lorenzo
Work Order Number: C4-01-0276

Table 1

ANALYTICAL RESULTS Volatile Organics in TCLP Leachate^a EPA Method 8240^b

GTEL Sample Number		01	02	03	012494 ZHE-1
Client Identification		SP 1A, 1B, 1C, 1	SP 2A, 2B, 2C, 2D	SP 2E, 2F, 2	METHOD BLANK
Date Sampled	·· ····	01/14/94	01/14/94	01/14/94	
Date Leached		01/24/94	01/24/94	01/24/94	01/24/94
Date Analyzed	/zed 01/25/94 01/25/94 01			01/25/94	01/25/94
Analyte	Detection Limit, mg/L		Concentration,	mg/L	
Benzene	0.05	< 0.05	<0.05	< 0.05	< 0.05
Toluene	0.05	< 0.05	<0.05	< 0.05	< 0.05
Ethylbenzene	0.05	<0.05	<0.05	< 0.05	< 0.05
Xylene	0.05	< 0.05	<0.05	< 0.05	< 0.05
Detection Limit Multiplier		1	1	1 _	1

Note: Samples were received at 7°C.



Federal Register, March 29, 1990, 40 CFR, Part 261, Appendix II - Method 1311. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986. a. b.

Client Number: WSS02CHV08
Consultant Project Number: 4-551-09
Facility Number: 9-0504
Project ID: 15900 Hesperian Blvd.
S. Lorenzo
Work Order Number: C4-01-0276

Table 1

ANALYTICAL RESULTS

Extractable CAM Metals (STLC Soil)

GTEL Sample Number			01	02	03	012294 MET
Client Identification			SP 1A, 1B, 1C, 1	SP 2A, 2B, 2C, 2D	SP 2E, 2F, 2	METHOD BLANK
Date Sampled			01/14/94	01/14/94	01/14/94	
Date Prepared			01/22-24/94	01/22-24/94	01/22-24/94	01/22-24/94
Date Analyzed (Method 60)10)		01/24/94	01/24/94	01/24/94	01/24/94
Analyte	Methoda	Detection Limit, mg/L		Extract Conce	ntration, mg/	/L
Lead	EPA 6010	0.5	0.9	1.6	1.1	<0.5
Detection Limit Multiplier	1	1	1	1		

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample extraction per Wet Extraction Test, California Administrative Code, Title 22, Chapter 30, Article 11, Section 66700.

Note: Samples were received at 7°C.



Client Number: WSS02CHV08
Consultant Project Number: 4-551-09
Facility Number: 9-0504
Project ID: 15900 Hesperian Blvd.
S. Lorenzo
Work Order Number: C4-01-0276

QC Matrix Spike and Duplicate Spike Results

Matrix: Water

Analyte	Sample ID	Spike Amount	Units	Recovery,	Duplicate Recovery, %	RPD, %	Control Limits
EPA 8240:							
1,1-Dichloroethene	C4010302-02	50.0	ug/L	81.6	75.0	8.4	61 - 145
Trichloroethene	C4010302-02	50.0	ug/L	93.6	99.6	6.2	71 - 120
Benezene	C4010302-02	50.0	ug/L	94.8	96.6	1.9	76 - 127
Toluene	C4010302-02	50.0	ug/L	93.6	94.2	0.6	76 -125
Chlorobenzene	C4010302-02	50.0	ug/L	97.8	96.8	1.0	75 - 130
Metals:							
Lead	C4010276-03	50000	ug/L	101	103	1.73	80 - 120





Northwest Region

4080 Pike Lane Suite C Concord, CA 94520 (510) 685-7852 (800) 544-3422 Inside CA FAX (510) 825-0720

Client Number: WSS02CHV08 Consultant Project Number: 4-551-09 Facility Number: 9-0504

Project ID: 15900 Hesperian Blvd. San Lorenzo

Work Order Number: C4-03-0053

March 8, 1994

Mike Cooke Weiss Associates 5500 Shellmound St. Emeryville, CA 94608

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 03/02/94.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

GTEL Environmental Laboratories, Inc.

Rashmi Shah **Laboratory Director**

Edwi Poolul

Client Number: WSS02CHV08
Consultant Project Number: 4-551-09
Facility Number: 9-0504
Project ID: 15900 Hesperian Blvd.
San Lorenzo
Work Order Number: C4-03-0053

Table 1

ANALYTICAL RESULTS

TPH as Gasoline in Soil

EPA Method 8015a

GTEL Sample Number		01	A030294	
Client Identification		SP-3	METHOD BLANK	
Date Sampled		03/02/94		
Date Extracted		03/02/94	03/02/94	
Date Analyzed		03/02/94	03/02/94	
Analyte	Detection Limit, mg/Kg		Concentrat	tion, mg/Kg
TPH as gasoline	1	<1	<1	
Detection Limit Multiplier		1	11	
Percent Solids		87.8	NA	
BFB surrogate, % recovery		77.8	93.5	

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits are 72.1-127%. NA = Not Applicable.



Client Number: W\$\$02CHV08

Consultant Project Number: 4-551-09
Facility Number: 9-0504
Project ID: 15900 Hesperian Blvd.
San Lorenzo
Work Order Number: C4-03-0053

Table 1

ANALYTICAL RESULTS

Total Petroleum Hydrocarbons as Diesel Fuel in Soil Modified EPA Methods 3550/8015a

- Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Results reported on a wet weight basis. NA = Not Applicable.
- Uncategorized compounds not characteristic of diesel.

GTEL Sample Number		01p	GCI 030494		
Client Identification		SP-3	METHOD BLANK		
Date Sampled		03/02/94			
Date Extracted		03/03/94	03/03/94		
Date Analyzed	Date Analyzed		03/03/94		
Analyte	Detection Limit, mg/Kg		Concentration	n, mg/Kg	
TPH as diesel fuel	10	<10	<10		
Detection Limit Multiplier		1	1		····
Percent solids		87.8	NA		
OTP surrogate, % recovery		90.8	93.1		



Client Number: WSS02CHV08
Consultant Project Number: 4-551-09
Facility Number: 9-0504
Project ID: 15900 Hesperian Blvd.
San Lorenzo
Work Order Number: C4-03-0053

ANALYTICAL RESULTS

Matrix: Soil

			Sa	01	030394		_	
			Sample Identification			METHOD BLANK		
				Date Sampled	03/02/94			
Test Description	Units	Detection Limit	Method	Date Analyzed		Test	Result	
Ignitability	F	65	EPA 1010	03/03/94	NF <u><</u> 160	NA		
Reactivity Screen Cyanide	mg/Kg	1	ASTM (D5049-90/C)	03/03/94	<1	<1		
Reactivity Screen Sulfide	mg/Kg	1	ASTM (D4978-89/A)	03/03/94	<1	<1		
рН	pН	NA	EPA 9045	03/03/94	8.3	NA		

Note: Test Methods for Evaluating Solid Waste, SW-846, 3rd edition, Rev. O, U.S. EPA, November, 1986.

Note: Test Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, March, 1983.

ASTM = American Society for Testing and Materials, 1990.

NF≤160 = No flash at temperature less than or equal to 160°.

NA = Not Applicable.



Client Number: WSS02CHV08
Consultant Project Number: 4-551-09
Facility Number: 9-0504
Project ID: 15900 Hesperian Blvd.

San Lorenzo

Work Order Number: C4-03-0053

Table 1

ANALYTICAL RESULTS

Extractable CAM Metals (STLC Soil)

GTEL Sample Number			01	030594 MET		
Client Identification			SP-3	METHOD BLANK		
Date Sampled		•	03/02/94			
Date Prepared			03/05-07/94	03/05-07/94		
Date Analyzed (Method 74	21)		03/08/94	03/08/94		
Analyte	Methoda	Detection Limit, mg/L	E:	xtract Concer	ntration, mg,	/L
Leadb	EPA 7421	0.5	0.6	<0.5		
Detection Limit Multiplier			1	1		<u></u>

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample extraction per Wet Extraction Test, California Administrative Code, Title 22, Chapter 30, Article 11, Section 66700.



Estimated concentration: Matrix spike recovery for this analyte demonstrated matrix effect. Laboratory Control Sample Indicated that the analysis was within control limits.

Client Number: WSS02CHV08
Consultant Project Number: 4-551-09
Facility Number: 9-0504
Project ID: 15900 Hesperian Blvd.
San Lorenzo
Work Order Number: C4-03-0053
Date Reissued: 03-10-94

Table 1

ANALYTICAL RESULTS

Volatile Organics in TCLP Leachatea

EPA Method 8240b

GTEL Sample Number		01	0303VTCLP-1	<u> </u>		
Client Identification		SP-3	METHOD BLANK			
Date Sampled		03/02/94				
Date Leached		03/03/94	03/03/94			
Date Analyzed		03/04/94	03/04/94			
Analyte	Detection Limit, mg/L	Concentration, mg/L				
Benzene	0.05	<0.05	< 0.05			
Toluene	0.05	<0.05	< 0.05			
Ethylbenzene	0.05	<0.05	< 0.05			
Xylenes, total	0.05	<0.05	< 0.05			
Carbon tetrachloride	0.05	<0,05	< 0.05			
Chlorobenzene	0.05	< 0.05	< 0.05			
Chloroform	0.05	<0.05	< 0.05			
1,2-Dichloroethane	0.05	< 0.05	< 0.05			
1,1-Dichloroethylene	0.05	<0.05	< 0.05			
Methyl ethyl ketone	1	<1	<1			
Tetrachloroethylene	0.05	< 0.05	< 0.05			
Trichloroethylene	0.05	<0.05	< 0.05			
Vinyl chloride	0.05	<0.05	< 0.05			
Detection Limit Multiplier		1	1			
1,2-Dichlorobenzene-d ₄ Surrogate, ⁴	% recovery	102	97.4			
Toluene-d ₈ Surrogate, % recovery		96.4	96.4			
BFB Surrogate, % recovery		100	98.4			

Federal Register, March 29, 1990, 40 CFR, Part 261, Appendix II - Method 1311. a.

b. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986.



Client Number: WSS02CHV08
Consultant Project Number: 4-551-09
Facility Number: 9-0504
Project ID: 15900 Hesperian Blvd.
San Lorenzo
Work Order Number: C4-03-0053

QC Matrix Spike and Duplicate Spike Results

Matrix: Soil

Analyte `	Sample ID	Spike Amount	Units	Recovery, %	Duplicate Recovery, %	RPD, %	Control Limits
Modified EPA 8020:							
Benzene	C4020420-08	0.050	mg/Kg	80.2	83.0	3.4	48.8 - 129
Toluene	C4020420-08	0.050	mg/Kg	75.4	77.0	2.1	52.0 - 123
Ethylbenzene	C4020420-08	0.050	mg/Kg	82.4	87.6	6.1	55.4 - 122
Xylene, total	C4020420-08	0.150	mg/Kg	85.3	91.3	6.8	55.1 - 130
GC-FID:							
Diesel	C4030053-01	150	ug/Kg	109	107	1.85	58 - 144
EPA 8240:							
1,1-Dichloroethene	C4030053-01	50.0	ug/L	105	93.2	11.9	59 - 172
Trichloroethene	C4030053-01	50.0	ug/L	108	98.4	9.49	62 - 137
Benzene	C4030053-01	50.0	ug/L	112	105	6.45	66 - 142
Toluene	C4030053-01	50.0	ug/L	106	91.4	14.7	59 - 139
Chlorobenzene	C4030053-01	50.0	ug/L	106	100	5.82	60 - 133
Wet Chemistry:							
Reactivity Screen Cyanide	C4030053-01	1.00	mg/L	Positive	Positive	NA	80 - 120
Reactivity Screen Sulfides	C4030053-01	1.00	mg/L	Positive	Positive	NA	80 - 120
Metals:							
Leada	C4030053-01	500.0	ug/L	50.4	53.6	1.83	75 - 125

Matrix spike recovery for this analyte demonstrated matrix effect. Laboratory Control Sample indicated that the analysis was within control limits. NA = Not Applicable.



Fax cop	y of l	_ab	Кер	ort d	ind (JUC to	Che	vron	Cor	itac	ţ; l	140)			U	gall	<u>n-o</u>	1-6	ust	ody-Kecord
Chevron U.S P.O. BOX S San Ramon, C FAX (415)84	5004 A 94583	Chevron Focility Number 9-0504 Facility Address 15900 HESPERIAN BIUD, SAN LORENZI Consultant Project Number 4-551-09 Consultant Name WEISS ASSOCIATES 5500 SHELL MYNAMD ST. EMERYVILLE (A 44608)							208	Chevron Contact (Name) MARK MILER (Phone) (SIO) 342-8134 Laboratory Name (STE) Laboratory Release Number 4543510 Samples Collected by (Name) HERBTOST Collection Date 3/2/94											
Sample Number	Lob Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Лтө	Sample Precentation	load (Yes or No)	8TEX + TPH GAS (8020 + 8015)	TPH Diesed (8015)				Purgooble Organics 3 (8240) TCLP - 6		Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	l	TPH-GAS-	STLC lead -			(_j [©] Remarke
SP-3	OL	4	5	G	1306	None	У		\times				X			\times	X	\times			Please Composite All Samples
																					-
																					0 1/1
Relinquished By Herb 3 Relinquished By	1001		U	ganization JE15		Date/Time 3/2/94/51 Date/Time		polved E	aII	ulle	6		Organizat	1/21	_ \\ \frac{121}{2}	e/Time	\ \\$7(%)		Turn Ar	(2.4 46	me (Circle Choice) Hra Hra Doys
Relinquiehed By	(Signature)		Org	ponization		Date/Time	Re			ratory (Santa Angelo	Dat 3/:/-	o/11rno 14 4	. 5 C		, power	10	Daye ontrooted

ATTACHMENT B

WASTE MANIFEST FOR JANUARY AND MARCH SOIL DISPOSAL



NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENE	RATOR
Generator Name Chevron U.S.A.	Generating Location 15900 Hesporian Blud
Address 2410 Camino lanon, Sar lawn Ch	Address San Lorenzo, CA
Phone No. 5 1 D - 8 4 2 8 1 3 4	Phone No.
BFI Waste Code C A U D 5 0 1 Z 7 9 4 Description of Waste	O S Z Z O Containers Type D - Drum
	C - Carton B - Bag
•	T - Truck P - Pounds
	Y - Yards O - Other
	n free liquid as defined by 40 CFR Part 260.10 or any applicable rt 261 or any applicable state law, has been properly described, tation according to applicable regulations.
Sendrator Authorized Agent Name Signature Signature	
	PORTER
Truck No.	Phone No.
Fransporter Name	Driver Name (Print)
Address	Vehicle License No./State
	Vehicle Certification
hereby certify that the above named material was picked up at the generator site listed above.	I hereby certify that the above named material was delivered without incident to the destination listed below:
Driver Signature Shipment Date	Driver Signature Delivery Date
DESTI	NATION "
Site Name BF1, Vasco Livermore	Phone No. 5 1 0 — 4 4 7 0 9 9 1
Address	
hereby certify that the above named material has been accepted a	and to the best of my knowledge the foregoing is true and accurate.
Name of Authorized Agent Signature	Receipt Date
	PASS CODE



NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERA	TOR
	enerating Location 15900 He Sperican 15/vd
Address 2410 Camino lamon, San Rumon, CA	ddress San Locenzo, CA
Phone No. 5 1 0 - 8 4 2 8 1 3 9 .P. BFI Waste Code C A 4 5 0 1 2 7 9 4 Description of Waste	hone No. Containers Quantity / Q Units No. 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 from state law, is not a hazardous waste as defined by 40 CFR Part 20 classified and packaged, and is in proper condition for transportation. Of a Alaux for Chousen USA Alaux for Signature	61 or any applicable state law, has been properly described,
TRANSPO	hone No. 1-800-321-1030
	river Name (Print)
• '	ehicle License No./State S/147 42
I hereby certify that the above named material was picked up	hereby certify that the above named material was delivered with- ut incident to the destination listed below.
Driver Signature Shipment Date Dr	iver Signature Delivery Date
DESTINA	TION
Site Name BFI Vasco Livernore	Phone No. 5 1 0 — 4 4 7 0 4 9 1
Address	
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

PASS CODE _



Waste Systems MON-HAZARD BROWNING-FERRIS INDUSTRIES	∾ 907090 OUS SPECIAL WASTE MANIFEST
	RATOR
Generator Name Chevron U.SA. Address 2410 Camine lamon, Son Roman	<u> </u>
state law, is not a hazardous waste as defined by 40 CFR Par	
classified and packaged, and is in proper condition for transport OULE Hans for (WULONUSA) Generator Authorized Agent Name TRANS	
Truck No5	Phone No. 1-800 321-1030
A 1 1	Driver Name (Print)
Address 17175 (agaz cul	Vehicle License No./State 903/4/34
I hereby certify that the above named material was picked up	Vehicle Certification I hereby certify that the above named material was delivered with-
at the generator site listed above. Driver Signature Shipment Date	out incident to the destination listed below. Driver Signature Desirery Date
DESTI	NATION
	Phone No. 5 1 P _ 4 7 0 4 9 1
Address	
I hereby certify that the above named material has been accepted a	nd to the best of my knowledge the foregoing is true and accurate.
Name of Authorized Agent Signature	Receipt Date

PASS CODE .



NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENE	RATOR
Generator Name CHEVRON USA	Generating Location 15900 HESPERIAN CLYD.
Address 2410 CAMINE RAMON,	Address SAN LONENZO, CA
	Quantity Units No. Type C - Carton B - Bag T - Truck P - Pounds Y - Yards O - Other If free liquid as defined by 40 CFR Part 260.10 or any applicable t 261 or any applicable state law, has been properly described, ation according to applicable regulations.
Tichaul Cooke USA Marka Con Generator Authorized Agent Name Signature	The USA 020194 Shipment Date
Fruck No	PORTER Phone No.
Transporter Name	Driver Name (Print)
Address	Vehicle License No./State Vehicle Certification
hereby certify that the above named material was picked up at the generator site listed above.	I hereby certify that the above named material was delivered without incident to the destination listed below.
Driver Signature Shipment Date	Driver Signature Delivery Date
DESTIN	NATION
Site Name E.F.I. Keller Canyon	Phone No. SIO-4559600
Address hereby certify that the above named material has been accepted a	nd to the best of my knowledge the foregoing is true and accurate.
Name of Authorized Agent Signature	Receipt Date



NON-HAZARDOUS SPECIAL WASTE MANIFEST

	GENE	RATOR	
Generator Name <u>C Hにくにいい</u> い	AZ	Generating Location 15100 HESTERIAN	BLVD
Address 2410 CAMING RAMO	M	Address AN LORENZO CA	
JAN IZATIN, CA			· · · · · · · · · · · · · · · · · · ·
Phone No. 5 1 0 - 9 4 2 9		Phone No.	
BFI Waste Code CA Description of	3 ○		rs Type -ype D - Drum C - Carton
			B - Bag
			P - Pounds Y - Yards
			O - Other
state law, is not a hazardous waste a	as defined by 40 CFR Par	n free liquid as defined by 40 CFR Part 260.10 or rt 261 or any applicable state law, has been prop	any applicable erly described,
FOR CHEVE	61	tation according to applicable regulations.	
Cocke OSA Generator Authorized Agent Name	Mules Cos	€ USA C Z C T T T T T T T T T	
	TRANS	PORTER	
Truck No.		Phone No.	·
Transporter Name		Driver Name (Print)	
Address		Vehicle License No./State	
		Vehicle Certification	
I hereby certify that the above named mat at the generator site listed above.	erial was picked up	I hereby certify that the above named material wad out incident to the destination listed below.	as delivered with-
Div. Carehan	Shipment Date	Driver Signature	Delivery Date
Driver Signature	·		John Date
	DESTI	NATION	
Site Name [F] Kyllov	Canyon	Phone No. 510 -458	7800
Address			
hereby certify that the above named mat	erial has been accepted a	and to the best of my knowledge the foregoing is true	ue and accurate.
			Bassist Sati
Name of Authorized Agent	Signature		Receipt Date



Systems ** NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENER	RATOR
Generator Name Charton USA	Generating Location San Locen 20
2.16.2	Address 15900 He spenin
Sun Ramon, CH 94583-0804	Santorengo, CA
Phone No. 5 1 0 -8 -1 2 8 1 3 4	Phone No. 5 1 0 - 2 7 8 4 3 9 2
BFI Waste Code CA US S OS 1 0 7 4 Description of Waste	Quantity Units No. Type D - Drum
Soil from excavation alo gasoline Dispursor	C - Carton B - Bag T - Truck
gasoline Dispurson	P - Pounds Y - Yards
	O - Other
state law, is not a hazardous waste as defined by 40 CFR Par classified and packaged, and is in proper condition for transports	free liquid as defined by 40 CFR Part 260.10 or any applicable t 261 or any applicable state law, has been properly described, ation according to applicable regulations.
Generator Authorized Agent Name Grant Authorized Agent Name Grant Authorized Agent Name	Shipment Date
TRANSI	PORTER
Truck No. 6-5n - 6-50	Phone No. 408- 297-8868
Transporter Name Grifall Trucking	Driver Name (Print)
Address 1000 2TF 4- TAIN 7500	Vehicle License No./State 1530347 Ch.
•	Vehicle Certification
I hereby certify that the above named material was picked up at the generator site listed above.	I hereby certify that the above named material was delivered without incident to the destination listed below.
Tricke Axx D CATTIZE	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Driver Signature Shipment Date	Driver Signature Delivery Date
DESTIN	IATION
Site Name BFI Vasco RD	Phone No. 510-44770491
Address Livermore	
I hereby certify that the above named material has been accepted a	nd to the best of my knowledge the foregoing is true and accurate.
Name of Authorized Agent Signature	Receipt Date



NON-HAZARDOUS SPECIAL WASTE MANIFEST

BROWNING-FERRIS INDUSTRIES	
GENEF	RATOR
Generator Name (Novron USA	Generating Location Gen Locan-30
Address 21/10 Canino Runon	Address 15900 Hesperian
San Renton, (A 94583-0804	
Phone No. 510-8428134	Phone No. 5 / 0 - 2 7 8 4 3 7 2
BFI Waste Code C M 405 031094 Description of Waste	ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
Soil from exeaution ala	C - Carton B - Bag T - Truck
Soil from exercise ala gasoline dispussas	P - Pounds Y - Yards
	O - Other
I hereby certify that the above named material does not contain state law, is not a hazardous waste as defined by 40 CFR Particles of the proper condition for transportation of the proper condition of the proper condition of the proper condition of transportation of the proper condition of the proper	261 or any applicable state law, has been properly described, ation according to applicable regulations.
Chevion USA (Vanildans	fer (1/0 NON 03/1/94)
Generator Authorized Agent Name Signature	Snipment Date
TRANSF	PORTER
Truck No	Phone No. 465-25-5865
Transporter Name CRITAL (T2)/C	Driver Name (Print)
. —	Vehicle License No./State
5500 16 15112	Vehicle Certification
I hereby certify that the above named material was picked up at the generator site listed above.	I hereby certify that the above named material was delivered without incident to the destination listed below.
111 (6/2) (02/11)	Driver Signature Delivery Date
Driver Signature Shipment Date	
DESTIN	IATION
Site Name BFI Vasco Rd	Phone No. 5 / 0 - 4 4 7 0 4 9 /
AddressLivermore	
f hereby certify that the above named material has been accepted a	nd to the best of my knowledge the foregoing is true and accurate.
Name of Authorized Agent Signature	Receipt Date



NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENE	RATOR
Generator Name Cluvron USA	Generating Location 2m Lovery 0
Address 2410 Carriero Rancon	Address 15900 Hesperian
San Rumon, CA 94583-0809	Sur Lorenzo, CA
Phone No. 5/0-8/128/39	Phone No. 5 1 0 — 278 4392
BFI Waste Code CA US 1099 Description of Waste	Quantity Units No. Type D - Drum
Soil from excavation of question dispensor	Flong 18 Y T C-Carton B-Bag
gasoline dispenser	T - Truck P - Pounds Y - Yards O - Other
I hereby certify that the above named material does not contain state law, is not a hazardous waste as defined by 40 CFR Par classified and packaged, and is in proper condition for transport	free liquid as defined by 40 CFR Part 260.10 or any applicable t 261 or any applicable state law, has been properly described, action according to applicable regulations.
Cherron USA Loge Cloun	1 fal herron 031 199
Generator Authorized Agent Name Signature	Shipment Date
TRANS	PORTER
Truck No	Phone No. 1/13 - 227 - 8865
Transporter Name _ Knuface _ white	Driver Name (Print)
Address	Vehicle License No./State
mac, And it	Vehicle Certification 272
I hereby certify that the above named material was picked up at the generator site listed above.	I hereby certify that the above named material was delivered without incident to the destination listed below.
Driver Signature Shipment Date	Driver Signature Delivery Date
DESTU	NATION
Site Name BFI Vasco Rd	Phone No. 5 / 0 - 4 4 7 0 4 7 /
Address Livernice	
I hereby certify that the above named material has been accepted a	nd to the best of my knowledge the foregoing is true and accurate.
	Decire Chin
Name of Authorized Agent Signature	Receipt Date

PASS CODE __