

STID  
1038

**W.A. CRAIG, INC.**  
Environmental Consulting & Construction  
6940 Tremont Rd.  
Dixon, CA 95620  
(707) 693-2929  
fax (707) 693-2922

# Fax

**To:** Amir Ghoufani **From:** Tim Cook

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**Fax:** (510) 337-9335 **Pages (including this one):** 23

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**Phone:** **Date:** May 3, 2001

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**Re:** Interim Remedial Action Plan, 2951 High Street, Oakland

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Urgent     For Review     Please Comment     Please Reply     Please Recycle

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• **Comments:**

Amir,

Attached is the Interim Remedial Action Plan for soil excavation at the subject site. Please call me at (707) 693-2929 if you have questions or comments.

Regards,

Tim Cook, PE  
Principal Engineer

**W. A. CRAIG, INC.**

Environmental Contracting and Consulting

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Dixon, California 95620

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**May 3, 2001****Project No. 3936**Mr. Aziz Kandahari  
Himalaya Trading Company  
2951 High Street  
Oakland, CA 94619Subject: **Interim Remedial Action Plan**  
**2951 High Street**  
**Oakland, California**

*Abby*  
*5/9/01*  
*AG*

Dear Mr. Kandahari:

At your request, W.A. Craig, Inc. collected soil samples from the site on two occasions to confirm the presence of petroleum hydrocarbons and delineate their extent. Six soil samples were collected from the bottom of a pipe trench on February 28, 2001. Six soil borings were advanced on April 26, 2001. Soil samples were collected from 5 feet and 10 feet below grade (fbg). A grab groundwater sample was also collected from borings where groundwater was encountered. Alameda County Health Care Services approved the work plan for the installation of nine soil borings in a letter dated April 25, 2001. As of this date, six of the nine borings have been installed and sampled. Results from the remaining borings will be submitted as an appendix to this report. Sample locations are presented on the attached Figure 1. The results of the February 28, 2001 investigation was submitted previously in a report dated March 9, 2001 and are included in this Interim Remedial Action Plan (IRAP) to provide a summary of our present understanding of site conditions.

Gasoline was present in several low spots in the pipe trench. Hydrocarbon odors and detectable photo-ionization readings were recorded in the pipe trench and in all six soil borings. Results of the soil samples are summarized in **Table 1**. Only two of the six soil borings advanced yielded sufficient groundwater to collect water samples. Soil encountered in the boring was primarily clayey gravel with some low-plasticity clay observed above 5 fbg. Results of the groundwater samples are summarized in **Table 2**. Complete laboratory analytical reports are in **Attachment A**. Boring logs from the six soil borings are in **Attachment B**.

Interim Remedial Action Plan  
2951 High Street  
Oakland, California

May 3, 2001  
Project No. 3936  
Page 2

Soil and groundwater sample results were compared to Site Specific Threshold Levels (SSTLs) established in the *Addendum to Risk Assessment for Zima Center Corporation, 2951 High Street, Oakland, August 22, 1997*. In addition to the SSTLs previously established in the risk assessment, we propose to use a SSTL of 100 mg/kg for TPH-g. This cleanup level was established by the San Francisco Bay Regional Water Quality Control Board (RWQCB) for surface soils ( $\leq 3\text{m fbg}$ ) where groundwater is a current or potential source of drinking water (RWQCB, 2000).

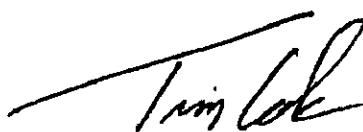
Based on field observations and the laboratory results, there has been an uncontrolled release of petroleum hydrocarbons from the pump dispenser area in front of the store. Groundwater samples from borings TB-1 and TB-3 yielded MtBE, benzene, toluene, ethylbenzene and xylenes significantly in excess of the SSTLs. The approximate extent of soils above the SSTLs is presented on **Figure 1**. We estimate that approximately 800 tons of soil from the pump dispenser area will require excavation and offsite disposal. This estimate does not include soil from the existing underground storage tank pit.

The soil will be handled and transported as non-RCRA waste and will be disposed of at the B&J Landfill in Vacaville, California. A report of remedial activities including verification soil samples, non-hazardous waste manifests, weight tickets, recommendations for further groundwater investigation and other supporting documentation will be submitted to the ACHCS upon completion of remedial activities.

A copy of this IRAP is being forwarded to the City of Oakland and Alameda County Health Care Services (ACHCS) for review and approval prior to commencing remedial activities. Please call me at (707) 693-2929 if you have any questions or concerns in regard to this project.

Sincerely,

W.A. Craig, Inc.



Tim Cook, PE  
Principal Engineer

Attachments: Laboratory reports  
Boring Logs

Cc: Amir Gholami, Alameda County Health Care Services  
Hernan Gomez, City of Oakland Fire Services Agency

**Table 1. Soil Sample Results**

Sample ID	Depth (fbg)	TPH-g	MtBE	TAME	benzene	toluene	ethyl-benzene	xylenes
S-1	3	<b>180</b>	4	0.17	0.14	<b>5.8</b>	<b>3.2</b>	<b>22</b>
S-2	3	71	6.8	0.19	0.20	<b>2.8</b>	1.7	<b>6.2</b>
S-3	3	<b>370</b>	2.9	0.13	0.26	<b>2.1</b>	<b>2.5</b>	<b>15</b>
S-4	3	<b>180</b>	0.3	<0.01	0.12	<b>0.95</b>	1.3	<b>16</b>
S-5	3	<b>3,600</b>	2.3	<1	<b>2.6</b>	<b>15</b>	<b>49</b>	<b>340</b>
S-6	3	<b>730</b>	<b>85</b>	4.7	<b>4.0</b>	<b>49</b>	<b>8.6</b>	<b>62</b>
TB-1	5	<b>320</b>	2.3	<0.050	0.57	1.3	<b>5.4</b>	<b>30</b>
TB-1	10	39	2.4	0.042	0.045	0.20	0.71	<b>3.3</b>
TB-2	5	34	0.38	0.024	0.031	0.19	0.50	1.5
TB-2	10	2.8	3.1	0.071	0.025	0.012	0.14	0.11
TB-3	5	<b>4,000</b>	4.0	<0.5	0.88	<b>21</b>	<b>82</b>	<b>410</b>
TB-3	10	<1	4.3	0.054	<0.005	<0.005	<0.005	0.014
TB-4	5	21	0.24	<0.005	<0.005	0.11	0.032	0.21
TB-4	10	2.9	1.8	0.039	0.010	0.014	0.055	0.056
TB-6	5	9.3	<0.005	<0.005	<0.005	0.052	0.020	<0.005
TB-6	10	<b>840</b>	<b>12</b>	<0.35	14	<b>7.7</b>	<b>17</b>	<b>76</b>
TB-9	5	<1	4.0	0.037	<0.005	<0.005	<0.005	<0.005
TB-9	10	1.1	1.5	0.044	<0.005	<0.005	<0.005	<0.005
SSTL		100	9.7	NE	2.6	1.6	1.9	2.8

Notes: units are mg/kg

Results higher than SSTLs are in bold

SSTLs for all constituents except TPH-g were established in *Addendum to Risk Assessment for Zima Center Corporation, 2951 High Street, Oakland, CA.*, Christopher M. Palmer Consulting Hydrogeologist, August 22, 1997.

The TPH-g action level is a Tier 1 action level established in *Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater (Interim Final)*, California Regional Water Quality Control Board, San Francisco Bay Region, August 2000.

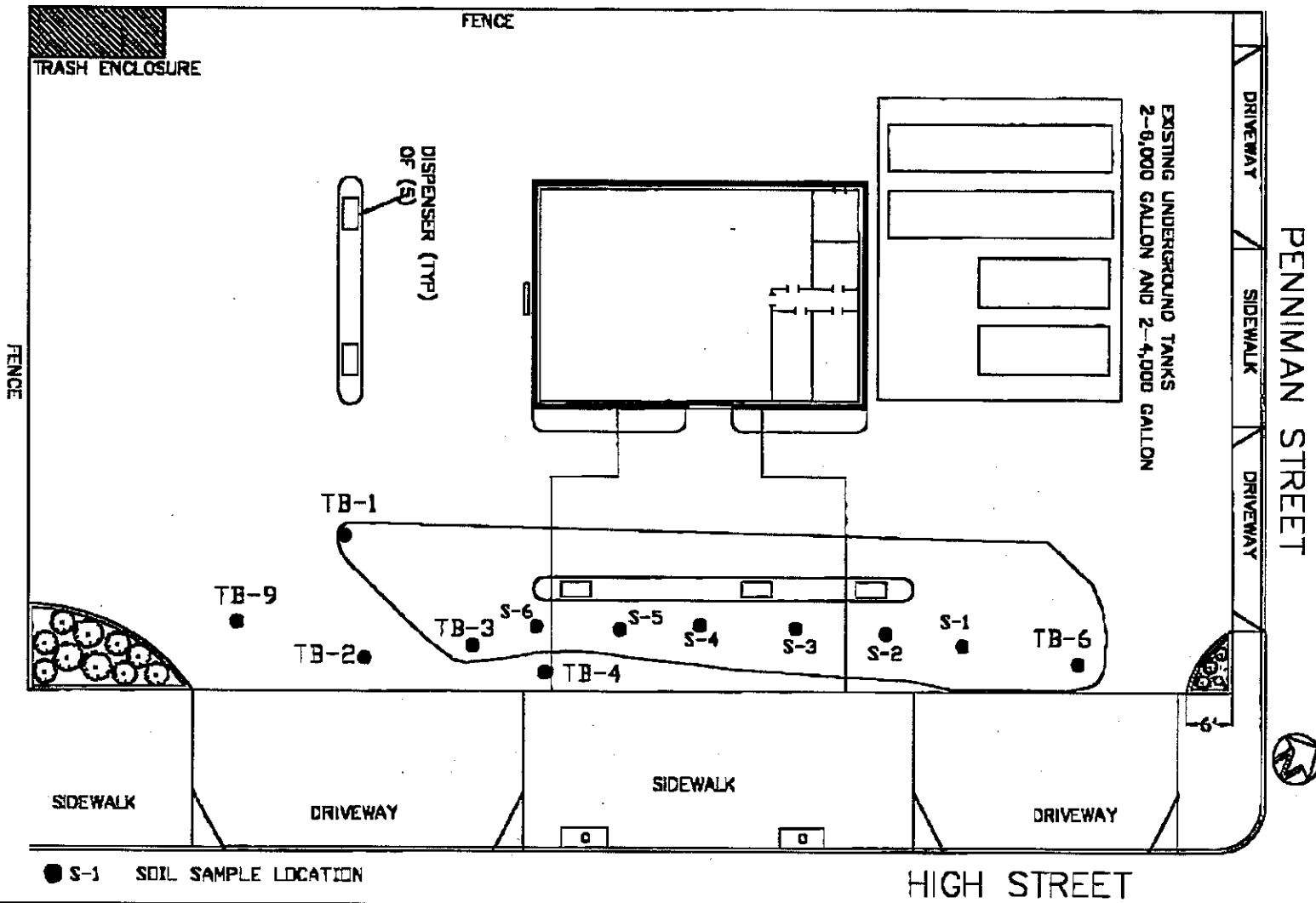
**Table 2. Groundwater Sample Results**

Sample ID	TPH-g	MtBE	TAME	benzene	toluene	ethyl-benzene	xylenes
TB-1	<b>78,000</b>	<b>37,000</b>	1,500	<b>880</b>	<b>490</b>	<b>3,200</b>	<b>15,000</b>
TB-3	44,000	<b>52,000</b>	<1,700	<b>390</b>	<b>53</b>	<b>2,600</b>	<b>8,900</b>
SSTL	NE	8,400	NE	200	270	180	470

Notes: units are ug/l

Results higher than SSTLs are in bold

SSTLs were established in *Addendum to Risk Assessment for Zima Center Corporation, 2951 High Street, Oakland, CA.*, Christopher M. Palmer Consulting Hydrogeologist, August 22, 1997



**W.A. Craig, Inc.**  
 6940 Tremont Road LIC# 455752  
 Dixon, California 95820-9803  
 PH# (707) 693-2929

**Sample Locations**  
 2951 High Street  
 Oakland California

Project: 3936	Figure:
Date: 05/03/01	1
Scale: 1" = 20'	

**ATTACHMENT A**  
**LABORATORY ANALYTICAL REPORTS**



McCAMPBELL ANALYTICAL INC.

 110 2nd Avenue South, #127, Pacheco, CA 94553-5560  
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<http://www.mccampbell.com> E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)

W. A. Craig, Inc. 6940 Tremont Road Dixon, CA 95620-9603	Client Project ID: #3936; High St.	Date Sampled: 04/26/01
		Date Received: 04/26/01
	Client Contact: Tim Cook	Date Extracted: 04/26/01
	Client P.O:	Date Analyzed: 04/26/01

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with Methyl tert-Butyl Ether\* & BTEX\***

EPA methods 5030, modified 8015, and 8020 or 802; California RWQCL (SF Bay Region) method GCFLD(5030)

Lab ID	Client ID	Matrix	TPH(g)*	MtBE	Benzene	Toluene	Ethyl-benzene	Xylenes	% Recovery Surrogate
66248	B9 @ 5'	S	ND	3.2	ND	ND	ND	ND	104
66249	B9 @ 10'	S	1.1.bj	2.0	ND	ND	ND	ND	---
66250	B2 @ 5'	S	34.a	0.48	0.031	0.19	0.50	1.5	---
66251	B2 @ 10'	S	2.8.a	2.6	0.025	0.012	0.14	0.11	---
66252	B1 @ 5'	S	320.a	ND<3.5	0.57	1.3	5.4	30	104
66253	B1 @ 10'	S	39.a	1.8	0.045	0.20	0.71	3.3	---
66254	B1	W	78,000.a.i	32,000	880	490	3200	15,000	104
66255	B3 @ 5'	S	4000.b.j	ND<10	0.88	21	82	410	---
66256	B3 @ 10'	S	ND	3.1	ND	ND	ND	0.012	103
66257	B3	W	44,000.a.i	17,000	390	53	2600	8900	103
66258	B4 @ 5'	S	21.b.j	0.38	ND	0.11	0.032	0.21	---
66259	B4 @ 10'	S	2.9.a	1.8	0.010	0.014	0.055	0.056	---
66260	B6 @ 5'	S	9.3.g.j	ND	ND	0.052	0.020	ND	100
66261	B6 @ 10'	S	840.a	14	14	7.7	17	76	108
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/l	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

\* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L.

\* clustered chromatogram: sample peak coelutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) (lighter than water immiscible) diesel is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director



McCAMPBELL ANALYTICAL INC.

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<http://www.mccampbell.com> E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)

W. A. Craig, Inc. 6940 Tremont Road Dixon, CA 95620-9603	Client Project ID: #3936; High St.	Date Sampled: 04/26/01
	Client Contact: Tim Cook	Date Received: 04/26/01
	Client P.O:	Date Extracted: 04/26-04/30/01
		Date Analyzed: 04/26-04/30/01

EPA method 8260 modified Seven Oxygenated Volatile Organics By GC/MS

Lab ID	66248	66249	66250	66251	Reporting Limit	
	B9 @ 5'	B9 @ 10'	B2 @ 5'	B2 @ 10'	ug/kg	ug/l
Client ID						
Matrix	S	S	S	S	S	W
Compound	Concentration*				ug/kg	ug/l
Di-isopropyl Ether (DIPE)	ND<25	ND<25	ND	ND<25	5.0	1.0
Ethyl tert-Butyl Ether (ETBE)	ND<25	ND<25	ND	ND<25	5.0	1.0
Methyl tert-Butyl Ether (MTBE)	4000	1500	380	3100	5.0	1.0
tert-Amyl Methyl Ether (TAME)	37	44	24	71	5.0	1.0
tert-Butanol	ND<125	ND<125	ND	ND<125	25	5.0
Methanol	ND<12,500	ND<12,500	ND	ND<12,500	2500	500
Ethanol	ND<1250	ND<1250	ND	ND<1250	250	50

## Surrogate Recoveries (%)


Surrogate	66248	66249	66250	66251
Dibromofluoromethane	81	84	84	109
Comments:				

\* water samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / STLC / SPI.P extracts in ug/L  
 ND means not detected above the reporting limit. N/A means surrogate not applicable to this analysis  
 (h) lighter than water immiscible phase is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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W. A. Craig, Inc. 6940 Tremont Road Dixon, CA 95620-9603	Client Project ID: #3936: High St.	Date Sampled: 04/26/01
	Client Contact: Tim Cook	Date Received: 04/26/01
	Client P.O:	Date Extracted: 04/26-04/30/01
		Date Analyzed: 04/26-04/30/01

EPA method 8260 modified

## Seven Oxygenated Volatile Organics By GC/MS

Lab ID	66252	66253	66254	66255	Reporting Limit	
	Client ID	B1 @ 5'	B1 @ 10'	B1	B3 @ 5'	S
Matrix	S	S	W	S	S	W
Compound	Concentration*				ug/kg	ug/l
Di-isopropyl Ether (DIPE)	ND<50	ND<10	ND<1000	ND<500	5.0	1.0
Ethyl tert-Butyl Ether (ETBE)	ND<50	ND<10	ND<1000	ND<500	5.0	1.0
Methyl tert-Butyl Ether (MTBE)	2300	2400	37,000	4000	5.0	1.0
tert-Amyl Methyl Ether (TAME)	ND<50	42	1500	ND<500	5.0	1.0
tert-Butanol	ND<250	ND<50	ND<5000	ND<2500	25	5.0
Methanol	ND<25,000	ND<5000	ND<500,000	ND<250,000	2500	500
Ethanol	ND<2500	ND<500	ND<50,000	ND<25,000	250	50

## Surrogate Recoveries (%)

Surrogate	66252	66253	66254	66255
Dibromofluoromethane	98	109	95	94
Comments:			i	

\* water samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/l.  
 ND means not detected above the reporting limit; N/A means surrogate not applicable to this analysis

(h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content




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W. A. Craig, Inc. 6940 Tremont Road Dixon, CA 95620-9603	Client Project ID: #3936; High St.			Date Sampled: 04/26/01		
	Client Contact: Tim Cook			Date Received: 04/26/01		
	Client P.O:			Date Extracted: 04/26-04/30/01		
				Date Analyzed: 04/26-04/30/01		
EPA method 8260 modified						
Seven Oxygenated Volatile Organics By GC/MS						
Lab ID	66256	66257	66258	66259	Reporting Limit	
Client ID	B3 @ 10'	B3	B4 @ 5'	B4 @ 10'		
Matrix	S	W	S	S	S	W
Compound	Concentration*				ug/kg	ug/L
Di-isopropyl Ether (DIPE)	ND<25	ND<1700	ND	ND<10	5.0	1.0
Ethyl tert-Butyl Ether (ETBE)	ND<25	ND<1700	ND	ND<10	5.0	1.0
Methyl tert-Butyl Ether (MTBE)	4300	52,000	240	1800	5.0	1.0
tert-Amyl Methyl Ether (TAME)	54	ND<1700	ND	39	5.0	1.0
tert-Butanol	ND<125	ND<8500	91	ND<50	25	5.0
Methanol	ND<12,500	ND<850,000	ND	ND<5000	2500	500
Ethanol	ND<1250	ND<85,000	ND	ND<500	250	50
Surrogate Recoveries (%)						
Dibromofluoromethane	84	95	112	84		
Comments:						
<p>* water samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L          ND means not detected above the reporting limit; N/A means surrogate not applicable to this analysis          (h) lighter than water immiscible shown is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content</p>						

DHS Certification No. 1644

Edward Hamilton, Lab Director

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		Date Analyzed: 04/26-04/30/01

EPA method 8260 modified **Seven Oxygenated Volatile Organics By GC/MS**

Lab ID	66260	66261	Reporting Limit		
			S	W	
Client ID	B6 @ 5'	B6 @ 10'			
Matrix	S	S			
Compound	Concentration*			ug/kg	ug/L
	Di-isopropyl Ether (DIPE)	ND	ND<350	5.0	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	ND<350	5.0	1.0	
Methyl tert-Butyl Ether (MTBE)	ND	12,000	5.0	1.0	
tert-Amyl Methyl Ether (TAME)	ND	ND<350	5.0	1.0	
tert-Butanol	ND	ND<1750	25	5.0	
Methanol	ND	ND<175,000	2500	500	
Ethanol	ND	ND<17,500	250	50	

**Surrogate Recoveries (%)**

Dibromofluoromethane	107	94		
Comments:				

\* water samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L  
 ND means not detected above the reporting limit; N/A means surrogate not applicable to this analysis  
 (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content



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	Client P.O.:	Date Extracted: 04/26-04/30/01
		Date Analyzed: 04/26-04/30/01

EPA method 8260  
Ethylene Dibromide (1,2-Dibromoethane) and 1,2-Dichloroethane (1,2-DCA)

Lab ID	Client ID	Matrix	EDB	1,2-DCA	% Recovery Surrogate
66248	B9 @ 5'	S	ND<25j	ND<25	81
66249	B9 @ 10'	S	ND<25j	ND<25	84
66250	B2 @ 5'	S	ND	ND	84
66251	B2 @ 10'	S	ND<25j	ND<25	109
66252	B1 @ 5'	S	ND<50j	ND<50	98
66253	B1 @ 10'	S	ND<10j	ND<10	81
66254	B1	W	ND<1000,j,i	ND<1000	95
66255	B3 @ 5'	S	ND<500j	ND<500	94
66256	B3 @ 10'	S	ND<25j	ND<25	84
66257	B3	W	ND<1700,j,i	ND<1700	95
66258	B4 @ 5'	S	ND	ND	112
66259	B4 @ 10'	S	ND<10j	ND<10	84
66260	B6 @ 5'	S	ND	ND	107
66261	B6 @ 10'	S	ND<350j	ND<350	94
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	1.0 ug/l.	1.0		
	S	5.0 ug/kg	5.0		

\* water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

h) lighter than water immiscible liquid is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content.

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Edward Hamilton, Lab Director


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<http://www.mccampbell.com> E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)
**INVOICE FOR ANALYTICAL SERVICES**

Attention: Accounts Payable

W. A. Craig, Inc. 6940 Tremont Road Dixon, CA 95620-9603	Client Project ID: #3936; High St.	Date Sampled: 04/26/01
	Client Contact: Tim Cook	Date Received: 04/26/01
	Client P.O.:	Date Extracted: 04/26/01
		Date Analyzed: 04/26/01

Billing Date: 05/03/2001

Invoice #25615

Number of Samples	Analysis	TAT	Unit Price	Sub-Total
12	TPH(g)-BTEX MTBE	48hr	\$67.50	\$810
2	TPH(g)-BTEX MTBE	5d	\$45	\$90
0	Oil & Grease (418.1 or 5520 or 1664)	5d	\$45	\$0
0	EPA 601 / 8010 / EDB	5d	\$60	\$0
0	EPA 624 / 8240 / 8260	5d	\$125	\$0
2	7 Fuel Oxygenate + Lead Scavengers By EPA 8260	5d	\$90	\$180
12	7 Fuel Oxygenate + Lead Scavengers By EPA 8260	48hr	\$135	\$1620
0	EPA 625 / 8270	5d	\$180	\$0
0	PCB / Chlorinated Pesticides, EPA 608 / 8080	5d	\$50 / \$75	\$0
0	RCI	5d	\$70	\$0
0	TSS	5d	\$20	\$0
0	13 Priority Pollutant Metals	5d	\$110	\$0
0	RCRA 8 Metals	5d	\$80	\$0
0	5 LUFT Metals	5d	\$50	\$0
0	Individual Metal (AA Flame, Furnace, ICP)	5d	\$15	\$0
0	Organic Lead	5d	\$55	\$0
0	STLC Extraction	5d	\$50	\$0
0	ZHE TCLP Extraction	5d	\$100	\$0
0	Semi-Volatile TCLP Extraction	5d	\$50	\$0
0		Subbed	\$0	\$0
<b>INVOICE TOTAL : \$2700</b>				

Please include the invoice number(s) with your check and remit to:

 McCampbell Analytical Inc.  
 110 2nd Avenue South, #D7  
 Pacheco, CA 94553-5560

Terms are net 30 days from the billing date. After this period 1.5% interest per month will be charged. Overdue accounts are responsible for all legal and collection fees. If you have any questions about billing please contact Accounts Receivable at McCampbell Analytical.

257015 ZWBC 487 **nush**

**McCAMPBELL ANALYTICAL INC.**

110 2<sup>nd</sup> AVENUE SOUTH, #D7  
PACHECO, CA 94353-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME  RUSH  24 HOUR  48 HOUR  5 DAY

RUSH 24 HOUR 48 HOUR 5 DAY

Report To: Tom Coak Bill To: 5736 04/26/01  
 Company: W. A. Craig  
6940 Tremont Road  
Dixon, CA 95620-9603  
 Tele: (707) 693-2979 Fax: (707) 693-2922  
 Project #: 3736 Project Name: Hugh St.  
 Project Location: CANLAND  
 Sampler Signature: Sam O'Malley

SAMPLE ID	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED					Other	Comments															
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO <sub>3</sub>	Other	STEX & TPH as Gas (42/4020 + 10/15) MTBE			TPH as Diesel (8015)	Total Petroleum-Oil & Grease (5520 EA/PY/SP)	Total Petroleum Hydrocarbons (118.1)	EPA 601 / 8010	STEX ONLY (EPA 802 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB ONLY	EPA 821 / 8210 / 824 / 8240 / 826 / 8260 / 8270 / 8270	PAH / 6170 / 6170 EPA 821 / 8210 / 824 / 8240 / 826 / 8260 / 8270 / 8270	CAM-17 Metals	LUFF 5 Metals	Lead (72407/229/24010)	RCI		
B <sub>1</sub> @ 5'		04/26				Y									X																	66248
B <sub>2</sub> @ 10'						X									X																	66249
<del>B<sub>1</sub> @ 5'</del>						*					*	*	*	*	*																	CANCEL
B <sub>2</sub> @ 5'						Y									X																	66250
B <sub>2</sub> @ 10'						X									X																	66251
<del>B<sub>1</sub> @ 5'</del>						*					*	*	*	*	*																	CANCEL
B <sub>1</sub> @ 5'						Y									X																	66252
B <sub>1</sub> @ 10'						X									X																	66253
B <sub>2</sub> @ 5'						X									X																	66254
B <sub>2</sub> @ 10'						X									X																	66255
B <sub>3</sub>						X									X																	66256
* <del>1st one</del>						X									X																	66257

Relinquished By: Sam O'Malley Date: 04/26/01 Time: 5:53 Received By: [Signature] V MAD  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

Remarks: \_\_\_\_\_ VOAS/C&G METALS OTHER  
 ICE/✓ PRESERVATION  
 GOOD CONDITION ✓ APPROPRIATE  
 HEAD SPACE ABSENT ✓ CONTAINERS ✓

\* NOT RECEIVED

# KUSH

2565

## McCAMPBELL ANALYTICAL INC.

110 2<sup>ND</sup> AVENUE SOUTH, #D7  
PACHECO, CA 94531-3560

Telephone: (925) 798-1620

Fax: (925) 798-1622

Report To: *Tim Crowl*

Bill To: # 3936 04/24/01

Company: W. A. Craig

6940 Tremont Road

Dixon, CA 95620-9603

Tele: (707) 693-2929

Fax: (707) 693-2922

Project #: 3936

Project Name: *W-11 St.*

Project Location: *Chico Blvd*

Sampler Signature: *Sam O'Hairly*

## CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HOUR  48 HOUR  5 DAY

### Analysis Request

Other Comments

SAMPLE ID	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED			Other	Comments		
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO <sub>3</sub>			Other	
																	TPH & TPH as Gas (8620/20) - 8015/15
9405'		04/24				X					X						66258
94010'						X					X						66259
8605'						X					X						5-24
86010'						X					X						5-26
																	66260
																	66261

Relinquished By: *Sam O'Hairly* Date: *04/24* Time: *5:53* Received By: *Always ✓ (signature)*

Relinquished By: *J* Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

Remarks:

ICE#  PRESERVATION   
 GOOD CONDITION  APPROPRIATE CONTAINERS   
 HEAD SPACE ABSENT

VCAS/CS/MS/METALS/OTHER

**ATTACHMENT B**  
**BORING LOGS**



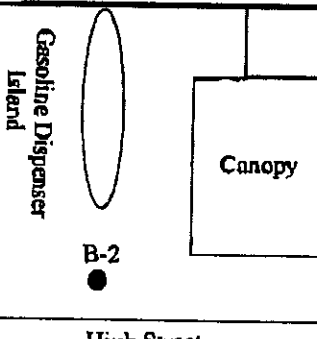

### DRILLING LOG

Gasoline Dispenser Island  B-1 ●  ●  High Street	Canopy	<b>W. A. Craig, Inc.</b> Environmental Contracting and Consulting		6940 Trenton Road Dixon, California 95620 Cal License #455752	(707) 693-2929 FAX (707) 693-2922
		PROJECT: 2951 High Street	PROJECT number 3936	BORING NO: B-1	
		DRILLING CONTRACTOR: Gregg Drilling	START TIME: 12:00 pm	DATE: 04/26/01	
		DRILLING METHOD: Direct-Push	FINISH TIME: 12:35 pm	TOTAL DEPTH: 10'	DEPTH TO WATER:
		SAMPLER:	SCREEN INT:	CASING:	
HAMMER WEIGHT:	DROP:	FIELD GEOLOGIST: O'Grady			

DEPTH	No. of SAMPLES	SANDS & GRAVELS	BLOW/ FEET	LTD (ft)	BORING/WELL CONSTRUCTION	LITHOLOGIC LOG	LITHOLOGIC DESCRIPTION <small>Description, Color, Density, Moisture</small>
5	B-1 @ 5'	█		20	▽		AC pavement with Class II AB
10	B-1 @ 10'	█		20			(CL) Clay, green, moist-wet, medium plasticity, cohesive. Strong odor/mottling present.
				20			(GC) Gravel/medium-grained sand/clay, moist, brown/green, low plasticity, cohesive. Strong odor/mottling.
							(GC) Moist-wet, no plasticity, somewhat cohesive. Strong odor/mottling.
							TD 10'
25							Soil sampled @ 12:17 and 12:29 pm Water sampled @ 4:27 pm.
30							
35							
40							

Checked by: \_\_\_\_\_



# BORING LOG

Gasoline Dispenser Leland  	 <b>W. A. Craig, Inc.</b> Environmental Contracting and Consulting		6940 Tremont Road Dixon, California 95620 Cal License #455752	(707) 693-2929 FAX (707) 693-2922
	PROJECT: 2951 High Street		PROJECT#: 3936	BORING NO: B-2
	DRILLING CONTRACTOR: Gregg Drilling & Testing		START TIME: 10:35 am	DATE: 04/26/01
	DRILLING METHOD: Direct-Push		FINISH TIME: 11:07 am	TOTAL DEPTH: 22'
	SAMPLER:		SCREEN INT.:	DEPTH TO WATER:
	HAMMER WEIGHT:      DROP:		FIELD GEOLOGIST: O'Grady	CASING:

DEPTH	SAMPLING	SAMPLE	BLOWS AS FOOT	FID (ft)	BORING/WELL CONSTRUCTION	LITHOLOGIC LOG	LITHOLOGIC DESCRIPTION <small>Description, Color, Density, Moisture</small>
				7			AC Pavement over Class II AB
				20			(CL) Clay/silt, dark grey, moist, cohesive, medium plasticity. Strong petroleum odor/mottling.
5	B-2 @ 5'	█		17			(CL) Clay /silt -some medium-grained sand, light brown, damp, cohesive, low plasticity. Strong petroleum odor/ no mottling.
10	B-2 @ 10'	█		12			(GC) Gravel/clay/sand , brown, damp, cohesive, compacted, no plasticity. Some petroleum odor/ mottling.
15				4			(GC) Clayey gravel
20							(GC) Gravelly clay, light brown-brown, damp-moist, low plasticity, stiff, cohesive, compacted. No petroleum odor/some mottling.
							No recovery
						TD 22'	
25							
30							
35							Soil sampled @ 10:51 and 11:01 am.
40							

Checked by: TDC

### BORING LOG


Gasoline Dispenser Island  B-3 High Street	Main Building	 <b>W. A. Craig, Inc.</b> Environmental Contracting and Consulting		6940 Tremont Road Dixon, California 95620 Cal License #455752	(707) 693-2929 FAX (707) 693-2922	
	Canopy	PROJECT: 2951 High Street		PROJECT number 3936	BORING NO: B-3	
		DRILLING CONTRACTOR: Gregg Drilling & Testing		START TIME: 1:10 pm	DATE: 04/26/01	
		DRILLING METHOD: Direct-Push		FINISH TIME: 1:45 pm	DEPTH TO WATER: 4'	
		TOTAL DEPTH: 10'		SCREEN INT:		CASING:
SAMPLER:		HAMMER WEIGHT:		DROP:		
				FIELD GEOLOGIST: O'Grady		

DEPTH	SAMPLE No	SAMPLE	BLOWS/ FE FOOT	PID (ppm)	BORING/WELL CONSTRUCTION	LITHOLOGIC LOG	LITHOLOGIC DESCRIPTION <small>Description, Color, Density, Moisture</small>
5	B-3 @ 5'				▽		AC Pavement over Class II AB
10	B-3 @ 10'						(CL) Silty clay-some gravel, green/brown, damp-wet, medium plasticity, cohesive. Strong petroleum odor/mottling.
10							(GC) Clayey gravels, brown, moist-wet, no plasticity, cohesive. Strong petroleum odor/mottling.
10						TD 10'	
15							
20							
25							
30							
35							
40							

Soil sampled @ 1:23 and 1:39 pm.  
Water sampled @ 4:33 pm.

Checked by: TDC

### BORING LOG


Main Building  Canopy  Former Gasoline Island  Sidewalk  High Street	 <b>W. A. Craig, Inc.</b> Environmental Contracting and Consulting	6940 Tremont Road Dixon, California 95620 Cal License #455752	(707) 693-2929 FAX (707) 693-2922
	<b>PROJECT:</b> 2951 High Street	<b>PROJECT#</b> 3936	<b>BORING NO:</b> B-4
<b>DRILLING CONTRACTOR:</b> Gregg Drilling & Sampling	<b>START TIME:</b> 2:30 pm	<b>DATE:</b> 04/26/01	
<b>DRILLING METHOD:</b> Direct-Push	<b>FINISH TIME:</b> 3:15 pm	<b>TOTAL DEPTH:</b> 15'	
<b>SAMPLER:</b>	<b>SCREEN INT.:</b>	<b>DEPTH TO WATER:</b>	
<b>HAMMER WEIGHT:</b>	<b>DROP:</b>	<b>FIELD GEOLOGIST:</b> O' Grady	

DEPTH	SAMPLE NO	SAMPLE	BLOWS / 0.5 FOOT	PTD (ppes)	BORING/WELL CONSTRUCTION	LITHOLOGIC LOG	LITHOLOGIC DESCRIPTION <small>Description, Color, Density, Moisture</small>
						AC pavement with Class II AB	
5	B-4 @ 5'	█	20			(CL) Clay/silt-some gravel, green/brown, moist, cohesive, low-medium plasticity. Strong petroleum odor/mottling present.	
10	B-4 @ 10'	█	20			(GC) Clayey gravel, brown/green, damp, cohesive, no plasticity. Strong petroleum odor/some mottling. (CL) Silt/vfs/clay, brwn/gm, damp, cohesive, low plasticity. Odor/mottling present.	
15			7			(GC) Clayey gravel, brown, dry-damp, cohesive, no plasticity. Strong petroleum odor/mottling. (CL) Vfs/clay, brown, damp, cohesive, stiff, no plasticity. Odor/some mottling. (GC)	
20							
25							
30							
35							
40							

Soil sampled @ 2:50 and 3:07 pm.

Checked by: TDC

# BORING LOG

Main Building	 <b>W. A. Craig, Inc.</b> Environmental Contracting and Consulting			6940 Tremont Road Dixon, California 95620 Cal License #455752	(707) 693-2929 FAX (707) 693-2922
	Canopy	B-6	<b>PROJECT:</b> 2951 High Street	<b>PROJECT number</b> 3936	<b>BORING NO:</b> B-6
		<b>DRILLING CONTRACTOR:</b> Gregg Drilling & Sampling	<b>START TIME:</b> 3:30 pm	<b>DATE:</b> 04/26/01	
		<b>DRILLING METHOD:</b> Direct-Push	<b>FINISH TIME:</b> 4:05 pm	<b>TOTAL DEPTH:</b> 13'	
		<b>SAMPLER:</b>	<b>SCREEN INT.:</b>	<b>DEPTH TO WATER:</b>	
High Street		<b>HAMMER WEIGHT:</b>	<b>DROP:</b>	<b>FIELD GEOLOGIST:</b> O'Grady	

DEPTH	SAMPLE No	SAMPLE	BLOWS / 0.5 FOOT	PID (ppm)	BORING/WELL CONSTRUCTION	LITHOLOGIC LOG	LITHOLOGIC DESCRIPTION Description, Color, Density, Moisture
0							AC Pavement over Class II AB
5	B-6 @5'						(CL) Clay/silt, brown, damp, cohesive, low plasticity, No petroleum odor/mottling.
10	D-6 @10'						(CL) Clay/gravel (< .5", subangular), brown, damp, low plasticity, somewhat silty, cohesive. Petroleum odor/mottling present.
							(GC) Gravel/clay (>1" pebbles), brown, damp-dry, no plasticity, compacted, cohesive. Petroleum odor/mottling present.
							(GC)
15						TD 13'	Refusal @ 13'
20							
25							
30							
35							Soil sampled @ 3:47 and 4:03 pm.
40							

Checked by: TDC

### BORING LOG

Gasoline Dispenser Island  B-9  High Street	Canopy	<b>W. A. Craig, Inc.</b> Environmental Contracting and Consulting		6940 Tremont Road Dixon, California 95620 Cal License #455752	(707) 693-2929 FAX (707) 693-2922
		<b>PROJECT:</b> 2951 High Street	<b>PROJECT#</b> 3936	<b>BORING NO:</b> B-9	
		<b>DRILLING CONTRACTOR:</b> Gregg Drilling & Testing		<b>START TIME:</b> 8:45 am	<b>DATE:</b> 04/26/01
		<b>DRILLING METHOD:</b> Direct-Push		<b>FINISH TIME:</b> 9:25 am	<b>TOTAL DEPTH:</b> 22'
		<b>SAMPLER:</b>		<b>SCREEN INT.:</b>	<b>DEPTH TO WATER:</b>
<b>HAMMER WEIGHT:</b>		<b>DROP:</b>	<b>FIELD GEOLOGIST:</b> O'Grady		

DEPTH	SAMPLE No	SAMPLE BLOWN 0.4 FOOT	(SPT) (ft)	BORING/WELL CONSTRUCTION	LITHOLOGIC LOG	LITHOLOGIC DESCRIPTION Description, Color, Density, Moisture
0			1			AC Pavement over Class II AB
5	B-9 @ 5'		12			(GC) Clayey gravel, green, wet, no cohesiveness. No petroleum odor/mottling.
10	B-9 @ 10'		7			(CL) Silty clay (larger percentage clay), medium brown, cohesive, medium-high plasticity, moist-slightly wet.
15			0			(CL) Clay/gravel/sand, brown-reddish brown, damp, cohesive, low plasticity. No petroleum odor/mottling present.
20			0			(GC) Clayey gravel-some coarse grained sand, various shades of brown, cohesive, low-medium plasticity, dry-moist. Some petroleum odor/ no mottling
25			0			(GC) Clayey gravel, brown, stiff, damp, compacted, no plasticity, cohesive. No petroleum odor/mottling present.
30			0			(CL) Clay/silt -some gravel present, brown, stiff, dense, cohesive, damp, no low plasticity. No petroleum odor/mottling present.
35						
40						
TD 22'						
Soil sampled @ 9:04 and 9:15 am.						

Checked by: TDC