

ENVIRONMENTAL  
PROTECTION  
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**W. A. CRAIG, INC.**  
**Environmental Consulting and Contracting**  
P. O. Box 448  
Napa, California 94559-0448  
Contractor and Hazardous Substances License #455752  
Cal/OSHA Statewide Annual Excavation Permit #559351  
(800) 522-7244

Berkeley (510) 525-2780  
Napa (707) 252-3353  
Fax: (707) 252-3385

**GROUNDWATER MONITORING REPORT  
MARCH 1996**

**DAMELE PROPERTY  
4401 Market Street  
Oakland, California**

July 24, 1996  
W.A. Craig, Inc.  
Project No. 3365-D

*aj* 12/4/96

**W. A. CRAIG, INC.**  
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**P. O. Box 448**  
**Napa, California 94559-0448**  
**Contractor and Hazardous Substances License #435752**  
**Cal/OSHA Statewide Annual Excavation Permit #S59351**  
**(800) 522-7244**

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**Fax: (707) 252-3385**

July 24, 1996

Mr. and Mrs. Casimiro Damele  
3750 Victor Avenue  
Oakland, California 94619  
510/ 531-0778

**Attention:** Mr. and Mrs. Damele

**Project No. 3365-D**

**Subject: REPORT - Groundwater Monitoring**  
**March 1996**  
**Damele Property**  
**4401 Market Street**  
**Oakland, California**

Dear Mr. and Mrs. Damele:

W. A. Craig, Inc. (WAC), is pleased to submit this Groundwater Monitoring Report for sampling conducted on March 7, 1996 at the Damele Property site located at 4401 Market Street, Oakland, California. The site location is shown on **Figure 1**. This is the sixth quarter of groundwater monitoring since the installation of three groundwater monitoring wells at the site in October, 1994. This work was performed in accordance with the scope of work presented in WAC's Work Plan dated February 10, 1994.

**Scope of Work**

The scope of work conducted by WAC during this period included the following tasks:

- Measuring static water levels in three monitoring wells;
- Purging and sampling groundwater from the three monitoring wells at the site;
- Analyzing groundwater samples for total petroleum hydrocarbons as gasoline range organic compounds (TPH-g), and benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary butyl ether (MTBE); and
- Preparation of this report.

## **Groundwater Elevations**

On March 7, 1996, WAC technical staff measured water levels in the monitoring wells using an electronic water level indicator. The monitoring wells were surveyed by a State-Licensed surveyor in November, 1994. The surveyed elevations and the field water level measurements were used to interpret the groundwater surface elevations at the site. The groundwater elevations indicate groundwater generally flows to the southwest. The average groundwater elevations were approximately 3.2-feet higher than previously measured during the December, 1995 sampling event. Groundwater elevations for this and previous monitoring events are presented in **Table 1**. The locations of the monitoring wells and a depiction of the site groundwater elevation contours are shown in **Figure 2**.

## **Groundwater Sampling**

Three well casing volumes were purged from each monitoring well prior to collecting groundwater samples. Field parameters including temperature, pH, conductivity, and turbidity were intermittently monitored during purging of the wells. Groundwater samples were collected using disposable polyethylene bailers. The field groundwater sampling logs are included as **Attachment A**.

The samples were submitted under chain-of-custody control to McCampbell Analytical, Inc. (MAI), of Pacheco, California. The purged groundwater is currently stored on-site in labeled, DOT approved, 55-gallon, steel drums.

## **Analytical Results**

The groundwater samples were analyzed by MAI for TPH-g using EPA Method 8015 (modified) and purgeable aromatic hydrocarbons (BTEX) and MTBE using EPA Method 8020. MAI is certified by the State of California to perform the required analyses. The results of the analyses are summarized on **Table 2**. Copies of the laboratory analytical report and chain-of-custody documents are in **Attachment B**.

Groundwater samples from monitoring well MW-1 were reported to contain 77 micrograms per liter ( $\mu\text{g/l}$ ) TPH-g. BTEX and MTBE were not detected above the laboratory limit of detection in the groundwater samples from monitoring well MW-1. The following constituents were detected in the groundwater samples from monitoring well MW-2: TPH-g - 12,000  $\mu\text{g/l}$ ; benzene - 790  $\mu\text{g/l}$ ; toluene - 170  $\mu\text{g/l}$ ; ethylbenzene - 440  $\mu\text{g/l}$ ; xylenes - 2,000  $\mu\text{g/l}$ ; and MTBE - 18  $\mu\text{g/l}$ . TPH-g, BTEX, or MTBE were not detected above the laboratory limits of detection in the groundwater samples collected from monitoring well MW-3.

## **Conclusions**

Groundwater elevations were approximately 3.2-feet higher than previously measured during the December, 1995 sampling event. **The groundwater flow in the general site area is consistently toward the southwest.**

Analytical results for monitoring well MW-1 have remained below the detectable reporting limits for BTEX for two sampling periods but concentrations of TPH-g have reappeared. MW-2 results have continued to increase suggesting the source of contamination has not been entirely removed. MW-3 concentrations continue to be below the laboratory limits of detection.

## **Recommendations**

On the basis of the review of the information from six quarterly groundwater monitoring events and the results of previous investigations, WAC recommends the following:

- **Install additional down gradient monitoring wells to assess the vertical and horizontal extent of the remaining plume of contamination;**
- Review inventory and delivery records to check if the gasoline additive MTBE was included in the products delivered to the site; and
- Continue the existing groundwater monitoring program;

## **Professional Certification**

This report has been prepared by the staff of W. A. Craig, Inc., under the professional supervision of the persons whose seals and signatures appear hereon. No warranty, either expressed or implied, is made as to the professional advice presented herein. The analysis, conclusions and recommendations contained in this report are based upon site conditions as they existed at the time of quarterly monitoring and sampling and they are subject to change.

The conclusions presented in this report are professional opinions based solely upon visual observations of the site and vicinity, and interpretation of available information as described in this report. W.A. Craig, Inc., recognizes that the limited scope of services performed in execution of this scope of work may not be appropriate to satisfy the needs, or requirements of other state agencies, or of other users. Any use or reuse of this document or its findings, conclusions or recommendations presented herein is at the sole risk of said user. There is no other warranty, either expressed or implied.

### Closing Statement

The next quarterly sampling event is scheduled for June, 1996. We appreciate this opportunity to be of service to you on this groundwater monitoring project. Should you have any questions regarding this report please give us a call at (707) 252-3353.

Sincerely,

W.A. Craig, Inc.,



*G.A. Fiedler*  
Geoffery A. Fiedler, R.G.  
Principal Geologist



*William A. Craig, II*  
William A. Craig, II, R.E.A. 01414  
President

WAC/ GAF:snk

- Attachments:**
- Table 1 - Groundwater Elevations
  - Table 2 - Groundwater Sample Analytical Results
  - Figure 1 - Site Location Map
  - Figure 2 - Groundwater Contour Map
  - A - Groundwater Sampling Logs
  - B - Laboratory Analytical Reports

cc:Ms. Susan Hugo, Alameda County Department of Environmental Management

A:\DAMELE6Q\DAMELE.6QT

**TABLE 1**  
**Groundwater Elevations**  
**4401 Market Street, Oakland, California**

Well Number	Date	Well Elevation	Depth to Water	Elevation
MW-1	02/14/95	71.12	12.65	58.47
	06/07/95	71.12	14.62	56.50
	08/29/95	71.12	15.04	56.08
	12/08/95	71.12	15.94	55.18
	<b>03/07/96</b>	<b>71.12</b>	<b>12.36</b>	<b>58.76</b>
MW-2	02/14/95	70.62	12.12	58.50
	06/07/95	70.62	14.38	56.24
	08/29/95	70.62	14.40	56.22
	12/08/95	70.62	15.22	55.40
	<b>03/07/96</b>	<b>70.62</b>	<b>12.04</b>	<b>58.58</b>
MW-3	02/14/95	71.79	13.45	58.34
	06/07/95	71.79	14.64	57.15
	08/29/95	71.79	14.94	56.85
	12/08/95	71.79	15.82	55.97
	<b>03/07/96</b>	<b>71.79</b>	<b>12.89</b>	<b>58.90</b>

Note: Groundwater elevations are referenced to Mean Sea Level.

**TABLE 2**  
**Groundwater Sample Analytical Results**  
**4401 Market Street,**  
**Oakland, California**  
**(reported in  $\mu\text{g/l}$ )**

Well Number	Sample Date	MTBE	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes
MW-1	11/08/94	NT	54	ND	ND	ND	1.2
	02/14/95	NT	71	ND	ND	ND	0.97
	06/07/95	NT	540	0.60	ND	1.7	1.3
	08/29/95	NT	440	ND	ND	1.3	1.1
	12/08/95	NT	ND	ND	ND	ND	ND
	03/07/96	44	77	ND	ND	ND	ND
	MW-2	11/08/94	NT	20,000	1,400	960	980
02/14/95		NT	8,600	380	210	410	2,000
06/07/95		NT	6,200	500	78	270	1,200
08/29/95		NT	4,100	330	61	210	980
12/08/95		NT	9,400	360	190	440	2,000
03/07/96		18	12,000	790	170	440	2,000
MW-3		11/08/94	NT	ND	0.71	0.84	1.2
	02/14/95	NT	ND	ND	ND	ND	ND
	06/07/95	NT	ND	ND	ND	ND	1.6
	08/29/95	NT	ND	ND	ND	ND	ND
	12/08/95	NT	ND	ND	ND	ND	ND
	03/07/96	ND	ND	ND	ND	ND	ND
	California EPA MCLs	40 *	None Listed	1.0	150	700	1750

MCL = Maximum Contaminant Level, Drinking Water Standards and Health Advisories Table, EPA Document dated August, 1995.

ND = Not detected above the laboratory limit of detection.

NT = Not Tested

$\mu\text{g/l}$  = micrograms per liter

\* California water quality objective is 40  $\mu\text{g/l}$  for MTBE



Mag 14.00 Scale 1:31,250 (at center)  
 Fri Sep 13 12:46 1996 2000 Feet



Project No. 3365.4  
 July 1996

**SITE LOCATION MAP**  
 Damele Site  
 4401 Market Street  
 Oakland, CA

**Figure 1**

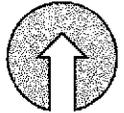
Checked by:



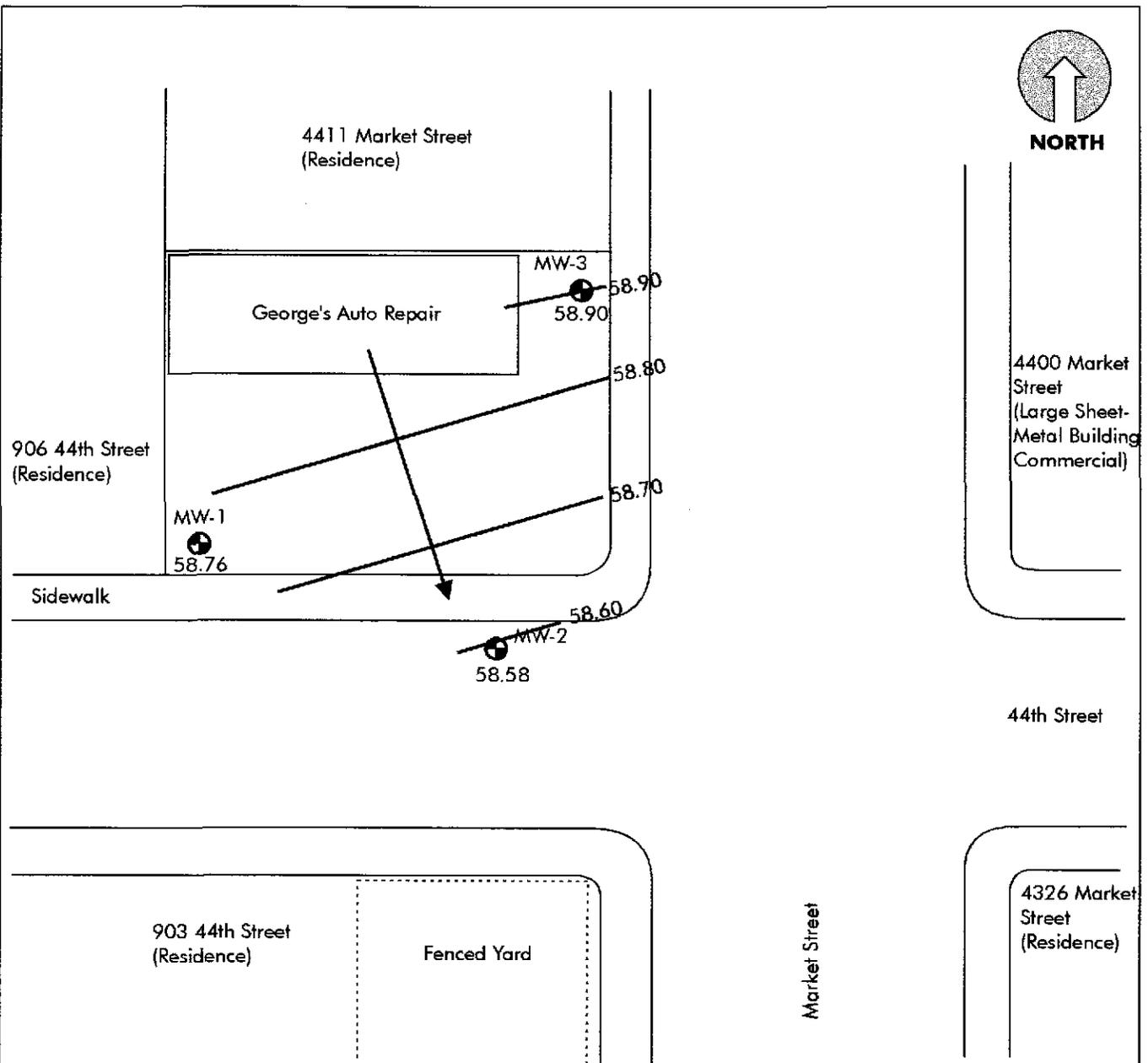
**W. A. CRAIG, INC.**  
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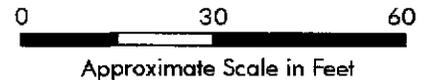


**NORTH**



EXPLANATION

- Fence
- ⊕ Monitoring well location
- Groundwater Elevation Contour Interval 0.1 Feet
- 58.90 Groundwater Elevation
- Direction of Groundwater Flow (3/7/96)



Project No. 3365-D

**GROUNDWATER ELEVATION CONTOURS**

July 1996

**Damele Property  
4401 Market Street  
Oakland, CA**

**Figure 2**

Checked by:



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

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**ATTACHMENT A**

**GROUNDWATER SAMPLING LOGS**

## GROUNDWATER SAMPLING WELL DEVELOPMENT LOG

WELL NUMBER: MW-1      FIELD PERSON(S): Russell Bentley  
 DATE STARTED: 6/19/96  
 TIME STARTED: \_\_\_\_\_      JOB NUMBER: 3365  
 DATE COMPLETED: \_\_\_\_\_      JOB NAME: Damela  
 TIME COMPLETED: \_\_\_\_\_

DEPTH TO BOTTOM OR CASING LENGTH				WELL INSIDE DIAMETER		
TOTAL DEPTH TO BOTTOM	<u>24.58'</u>	DEPTH TO WATER	<u>13.70</u>	= Δ(FT)	<u>10.88'</u>	
Δ H (FT)	<u>10.88'</u>	X (V.F.)	<u>0.163</u>	WELL CASING VOLUME (GAL)	<u>1.77</u>	
				VOLUME FACTOR	1"=0.041	4"=0.653
				V.F. = GAL/FT	1-1/2"=0.092	6"=1.469
					2"=0.163	8"=2.611
					3"=0.367	12"=5.875
DATE(S) PURGED: _____				WELL DEWATERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
PURGE METHOD: <u>Drip Hand Bailor</u>				DATE SAMPLED: <u>6/19/96</u>		
INITIAL DEPTH TO WATER: _____				TIME SAMPLED: <u>1405</u>		
TOTAL VOLUME REMOVED (GAL): <u>5.50</u>				SAMPLING METHOD: <u>Bailor</u>		
CASING VOLUMES REMOVED: <u>3+</u>				WEATHER CONDITIONS: <u>Sun Hot breeze</u>		
PURGE RATE (GPM): _____				PURGES/SAMPLED BY: <u>RB</u>		
DEPTH TO WATER AFTER RECOVERY <u>14.96</u> (FT) = <u>80+</u> % RECOVERED PRIOR TO SAMPLING						

### FIELD PARAMETERS:

TIME (24 HR CLOCK)	VOLUME REMOVED (GAL)	TEMPERATURE	X100 ELECTRICAL CONDUCTIVITY	PH	TURBIDITY (NTU)
<u>1351</u>	<u>1.75</u>	<u>71.7</u>	<u>4.79</u>	<u>6.87</u>	<u>Clear</u>
<u>1356</u>	<del>1.75</del> <u>3.75</u>	<u>69.4</u>	<del>4.68</del> <u>4.68</u>	<del>6.78</del> <u>6.78</u>	<u>Slight</u>
<u>1400</u>	<u>5.50</u>	<u>68.4</u>	<u>4.62</u>	<u>6.96</u>	<u>Slight</u>

COMMENTS: Slight odor, no sheen detected.  
Medium odor as hand purging progressed.

## GROUNDWATER SAMPLING WELL DEVELOPMENT LOG

WELL NUMBER: MW-2 FIELD PERSON(S): Russell Gentry  
 DATE STARTED: 6/19/96  
 TIME STARTED: \_\_\_\_\_ JOB NUMBER: 3365  
 DATE COMPLETED: \_\_\_\_\_ JOB NAME: Damole  
 TIME COMPLETED: \_\_\_\_\_

DEPTH TO BOTTOM OR CASING LENGTH				WELL INSIDE DIAMETER			
TOTAL DEPTH TO BOTTOM	<u>24.54'</u>	DEPTH TO WATER	<u>13.38'</u>	= Δ(FT)	<u>11.16'</u>	VOLUME FACTOR V.F. = GAL/FT	1"=0.041 1-1/2"=0.092 2"=0.163 3"=0.367 4"=0.653 6"=1.469 8"=2.611 12"=5.875
Δ H (FT)	<u>11.16'</u>	X (V.F.)	<u>0.163</u>	= WELL CASING VOLUME (GAL)	<u>1.82</u>		
DATE(S) PURGED: _____				WELL DEWATERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
PURGE METHOD: <u>Disp. Hand Pump</u>				DATE SAMPLED: <u>6/19/96</u>			
INITIAL DEPTH TO WATER: _____				TIME SAMPLED: <u>1420</u>			
TOTAL VOLUME REMOVED (GAL): <u>5.5</u>				SAMPLING METHOD: <u>Baker</u>			
CASING VOLUMES REMOVED: <u>3+</u>				WEATHER CONDITIONS: <u>Sun, warm, breeze</u>			
PURGE RATE (GPM): _____				PURGES/SAMPLED BY: <u>RG</u>			
DEPTH TO WATER AFTER RECOVERY <u>13.60</u> (FT) = <u>80+</u> % RECOVERED PRIOR TO SAMPLING							

### FIELD PARAMETERS:

TIME (24 HR CLOCK)	VOLUME REMOVED (GAL)	TEMPERATURE	X100 ELECTRICAL CONDUCTIVITY	PH	TURBIDITY (NTU)
<u>1247</u>	<u>2.00</u>	<u>72.8</u>	<u>7.60</u>	<u>6.91</u>	<u>Medium</u>
<u>1251</u>	<u>3.75</u>	<u>72.2</u>	<u>7.51</u>	<u>6.66</u>	<u>Slight</u>
<u>1257</u>	<u>5.50</u>	<u>72.1</u>	<u>7.43</u>	<u>6.64</u>	<u>Clear</u>

COMMENTS: medium odor, no sheen detected.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## GROUNDWATER SAMPLING WELL DEVELOPMENT LOG

WELL NUMBER: MW-3 FIELD PERSON(S): Russell Gentry  
 DATE STARTED: 6/19/96  
 TIME STARTED: \_\_\_\_\_ JOB NUMBER: 3365  
 DATE COMPLETED: \_\_\_\_\_ JOB NAME: Damole  
 TIME COMPLETED: \_\_\_\_\_

DEPTH TO BOTTOM OR CASING LENGTH				WELL INSIDE DIAMETER		
TOTAL DEPTH TO BOTTOM	<u>24.62'</u>	DEPTH TO WATER	<u>13.94'</u>	$\Delta$ (FT)	<u>10.68'</u>	
$\Delta$ H (FT)	<u>10.68'</u>	X (V.F.)	<u>0.163</u>	WELL CASING VOLUME (GAL)	<u>1.24</u>	
				VOLUME FACTOR		
				1"=0.041	4"=0.653	
				1-1/2"=0.092	6"=1.469	
				2"=0.163	8"=2.611	
				3"=0.367	12"=5.875	
DATE(S) PURGED: _____				WELL DEWATERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
PURGE METHOD: <u>Disp. Hand. Bailor</u>				DATE SAMPLED: <u>6/19/96</u>		
INITIAL DEPTH TO WATER: _____				TIME SAMPLED: <u>1330</u>		
TOTAL VOLUME REMOVED (GAL): <u>5.25</u>				SAMPLING METHOD: <u>Bailor</u>		
CASING VOLUMES REMOVED: <u>3+</u>				WEATHER CONDITIONS: <u>Sun, warm, breeze</u>		
PURGE RATE (GPM): _____				PURGES/SAMPLED BY: <u>RJ</u>		
DEPTH TO WATER AFTER RECOVERY <u>16.00'</u> (FT) = <u>80</u> % RECOVERED PRIOR TO SAMPLING						

### FIELD PARAMETERS:

TIME (24 HR CLOCK)	VOLUME REMOVED (GAL)	TEMPERATURE	X100 ELECTRICAL CONDUCTIVITY	PH	TURBIDITY (NTU)
<u>13.18</u>	<u>1.75</u>	<u>70.2</u>	<u>3.87</u>	<u>7.23</u>	<u>Clear</u>
<u>13.21</u>	<u>3.50</u>	<u>67.9</u>	<u>3.69</u>	<u>7.26</u>	<u>Slight</u>
<u>13.26</u>	<u>5.25</u>	<u>68.1</u>	<u>3.60</u>	<u>7.18</u>	<u>Slight</u>

COMMENTS: No sheen or odor detected.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**ATTACHMENT B**

**LABORATORY ANALYTICAL REPORTS**

W.A. Craig, Inc. P.O. Box 448 Napa, CA 94559-0448	Client Project ID: # 3365-D; Danele	Date Sampled: 03/07/96
		Date Received: 03/07/96
	Client Contact: Bill Craig	Date Extracted: 03/08-03/09/96
	Client P.O:	Date Analyzed: 03/08-03/09/96

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with MTBE & BTEX\***

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) <sup>+</sup>	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
62230	MW-3	W	ND	ND	ND	ND	ND	ND	101
62231	MW-1	W	77,b	44	ND	ND	ND	ND	99
62232	MW-2	W	12,000,a	18	790	170	440	2000	111 <sup>#</sup>
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	0.5	
	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	0.005	

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

# cluttered 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 sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

## QC REPORT FOR HYDROCARBON ANALYSES

Date: 03/08/96-03/09/96

Matrix: Water

Analyte	Concentration (ug/L) Sample (#62031)			Amount Spiked	% Recovery		RPD
	MS	MSD			MS	MSD	
TPH (gas)	0.0	97.5	95.7	100.0	97.5	95.7	1.9
Benzene	0.0	8.8	8.7	10.0	88.0	87.0	1.1
Toluene	0.0	9.1	9.2	10.0	91.0	92.0	1.1
Ethyl Benzene	0.0	9.3	9.3	10.0	93.0	93.0	0.0
Xylenes	0.0	27.5	27.9	30.0	91.7	93.0	1.4
TPH (diesel)	0	157	157	150	104	105	0.1
TRPH (oil & grease)	0	19500	21200	23700	82	89	8.4

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

5971AWACX589

CK# 8247

# W. A. CRAIG, INC.

## CHAIN-OF-CUSTODY RECORD

PROJECT NO.		PROJECT NAME		MATRIX: Soil, Water, Air, Sludge, Other	ANALYSIS						REMARKS	LABORATORY I. D. NUMBER
PURCHASE ORDER NO.		SIGNATURE OF SAMPLER			TPHgasoline (8015)	BTEX (602/8020)	TPHdiesel (8015)	TPHg & BTEX	MTBE	Preserved?		
DATE	TIME	W. A. CRAIG, INC.'S SAMPLE IDENTIFICATION										
1996												
+	3-7	12:35	MW-3 (3 Vials)	W			✓	✓	✓	(MTBE Vials)	62230	
+	3-7	13:34	MW-1	W			✓	✓	✓	(Non-preserved)	62231	
(H)	3-7	13:40	MW-2	W			✓	✓	✓		62232	

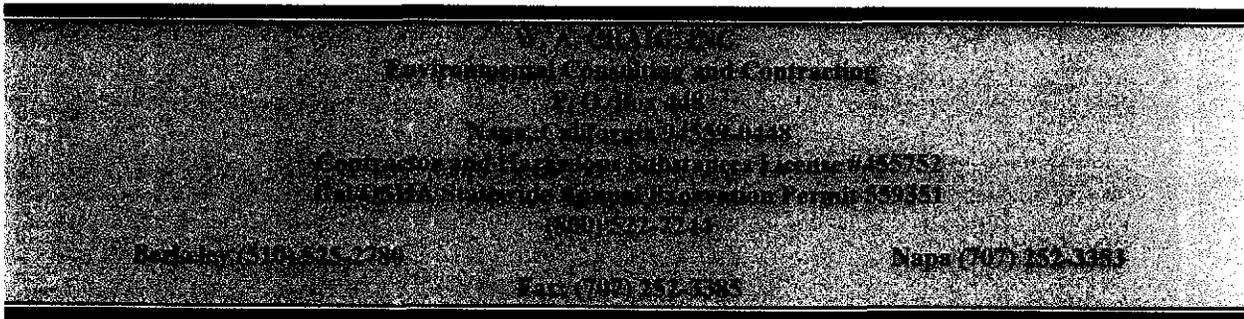
Paid

+  
+  
(H)

ICE/T  PRESERVATIVE   
 GOOD CONDITION  APPROPRIATE CONTAINERS   
 HEAD SPACE ABSENT

RELINQUISHED BY (Signature): <i>Russell Grant</i>	DATE/TIME: 3-7-96 15:30	RECEIVED BY (Signature): <i>Nick Pica</i>	LABORATORY: <i>McCampbell Analytical</i>	PLEASE SEND RESULTS TO: W. A. CRAIG, INC. P.O. BOX 448 NAPA, CA 94559-0448 (707) 252-3353
RELINQUISHED BY (Signature):	DATE/TIME:	RECEIVED BY (Signature):		
RELINQUISHED BY (Signature):	DATE/TIME:	RECEIVED BY (Signature):		ATTN:

# TRANSMITTAL



**DATE:** September 13, 1996

**PROJECT:** 3365.4

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**ATTENTION:** Mr. Casimero Damele

---

**COMPANY:** 3750 Victor Avenue  
Oakland, California 94619

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**REGARDING:** Damele Property

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**ENCLOSURE:** REPORT - Quarterly Groundwater Monitoring  
March 1996  
Damele Property  
4401 Market Street  
Oakland, California

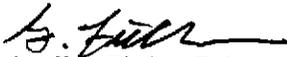
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**COMMENTS:**

Enclosed you will find a final report of the Quarterly Groundwater Monitoring - March 1996 performed at 4401 Market Street in Oakland, California.

Please note a final copy of this report has been submitted, as per your authorization, to the Alameda County Department of Environmental Health.

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**SENT BY:**   
Geoffery Fiedler, R.G.

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✓ cc: Alameda County Department of Environmental Health