



**W. A. CRAIG, INC.**  
Environmental Contracting and Consulting

RO 2570

10/2/03  
Alameda County  
OCT 05 2003  
Environmental Health

## TRANSMITTAL

<b>To: Amir Gholami</b> <b>Alameda County Environmental Health</b> <b>1311 Harbor Bay Parkway, Ste 250</b> <b>Alameda, CA 94502-6577</b>	<b>Date: February 12, 2003</b>  <b>Job No: 4104</b>
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We are sending you:  **Attached**     Under separate cover    Via: Postal Service

The following items:

- Drawings     Prints     Plans     Samples     **Report**  
 Letter     Change Order     Specifications

Item #	Date	Copies	Description
1	3/25/03	1	Final Closure Report for Underground Storage Tank Removal, A-Paratransit Corporation, 829 54 <sup>th</sup> Avenue, Oakland, CA

These are transmitted as indicated below:

- For approval     For your information     For your use  
 As requested     For review and comment     Returned for corrections  
 Handle as Required     Returned after loan

Remarks: Per your request for Case #2570

by: Tim Cook

cc:



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

Environmental Contracting and Consulting

6940 Tremont Road  
Dixon, California 95620

Contractor and Hazardous Substances License #455752  
(800) 522-7244

Dixon (707) 693-2929

Napa (707) 252-3353

Fax: (707) 693-2922

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**May 28, 2003**

**Project No. 4104**

Mr. Leroy Griffin  
City of Oakland  
Fire Services Agency  
One Frank H. Ogawa Plaza  
Oakland, CA 94612

**Subject: UST Closure Report  
A-Paratransit Site  
829 54<sup>th</sup> Street, Oakland California.**

Dear Mr. Griffin:

Enclosed is the closure report for underground storage tanks (USTs) formerly located at 829 54<sup>th</sup> Street in Oakland, California. At present, there is a large stockpile of contaminated soil in the location indicated on Figure 1 of the report. A-Paratransit is applying to the UST Cleanup Fund for reimbursement of cleanup costs. The application will require a letter from the local oversight agency directing the cleanup. When we spoke this morning you indicated that you would forward this report to the Alameda County Health Care Services Agency. I spoke with Donna Drogos of the ACHCS this morning and she is anticipating that you will forward this report to her.

Thank your for your attention to this matter. Please call me at (707) 693-2929 if you have any questions or concerns in regard to this site.

Sincerely,

**W. A. Craig, Inc.**

Tim Cook, P.E.  
Principal Engineer

cc: Shiv Kumar, A-Paratransit Corporation



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***FINAL CLOSURE REPORT FOR UNDERGROUND  
STORAGE TANK REMOVAL***

**PROJECT SITE:  
A-Paratransit Corporation  
829 54<sup>th</sup> Avenue  
Oakland, CA**

**PREPARED FOR:  
Mr. Shiv Kumar, President  
A-Paratransit Corporation  
22990 Clawiter Rd.  
Hayward, CA 94545**

**SUBMITTED TO:  
Mr. Leroy Griffin  
City of Oakland  
Fire Services Agency  
One Frank H. Ogawa Plaza  
Oakland, CA 94612**

**PREPARED BY:  
W. A. Craig, Inc.  
6940 Tremont Road  
Dixon, CA 95620-9603**

**Project No. 4104**

**March 25, 2003**

Alameda County  
OCT 03 2003  
Environmental Health



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

Environmental Contracting and Consulting

6940 Tremont Road

Dixon, California 95620

Contractor and Hazardous Substances License #455752

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Fax: (707) 693-2922

***FINAL CLOSURE REPORT FOR UNDERGROUND  
STORAGE TANK REMOVAL***

**PROJECT SITE:**

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829 54<sup>th</sup> Avenue  
Oakland, CA**

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One Frank H. Ogawa Plaza  
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**PREPARED BY:**

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**Project No. 4104**

**March 25, 2003**

Alameda County  
JUL 17 2003  
Environmental Health  
Alameda County  
JUL 17 2003  
Environmental Health

### TANK REMOVAL INFORMATION

**Date Removed:** February 5<sup>th</sup> and February 7<sup>th</sup>, 2003

**Reason for Removal:** Three underground gasoline, one diesel fuel and one waste oil tanks were decommissioned to bring the client into compliance with state regulations.

**Tank Transporter:** Ecology Control Industries  
255 Parr Blvd.  
Richmond, CA 94801

**Disposal of Tank:** Ecology Control Industries  
255 Parr Blvd.  
Richmond, CA 94801

**Soil Sample Processing:** Soil samples were analyzed by:  
  
McC Campbell Analytical  
110 2<sup>nd</sup> Ave. South  
Pacheco, CA 94553  
State Certification Number: 1644

(Note: sample processing and associated method preparation numbers are noted on the lab results, which are attached.)

**Location of the tanks:** A total of five tanks were removed from 829 54<sup>th</sup> Ave. Oakland, CA. A map "Figure 1" is attached which shows the location of the tanks, roads, north direction, and buildings on site.

**Sampling:** Soil sampling was performed by WAC Project Manager Peter Maloney. A total of seven soil samples were collected from beneath the tanks. One sample was collected from beneath each end of the underground storage tanks (UST), at approximately 12 feet below grade surface (bgs) in native soil ("Figure 2"). A composite sample was also taken from the stockpile.

**Sampling methodology:** The soil samples were obtained by driving clean brass cylinders (2" id x 3" length) into native soil that was excavated from the tank pit, and/or product line trench. The tubes were driven with a wooden mallet. The tubes were then sealed with Teflon™ tape and plastic end caps. The tubes were labeled then placed in a plastic zip lock bag. The samples were placed on ice, then transported under chain of custody to a state certified lab for processing. A copy of the chain of custody form with the requested tests and all test results for the samples is attached as "Exhibit A".

**Pit Closure:** The tank pit was lined with plastic and backfilled immediately with clean imported fill compacted in lifts and leveled to the surface of the surrounding parking lot.

### SPECIFIC INFORMATION REGARDING THE TANKS

#### Tank #1:

**Size/capacity:** 300 gallons

**Former contents of the tank:** Waste Oil

**Construction of the tank:** Single wall steel

**Age of the tank:** Approximately 30+ years

**Condition of the tank upon removal:** The tank was found in excellent condition with no holes.

**Material sampled:** Soil

**Soil Analysis:** Attached as "Exhibit A"

#### Tank #2:

**Size/capacity:** 1,800 gallons

**Former contents of the tank:** Gasoline

**Construction of the tank:** Single wall steel

**Age of the tank:** Approximately 30+ years

**Condition of the tank upon removal:** The tank was found in excellent condition with no visible holes.

**Material sampled:** Soil

**Soil Analysis:** Attached as "Exhibit A"

#### Tank #3:

**Size/capacity:** 1,800 gallons

**Former contents of the tank:** Diesel Fuel

**Construction of the tank:** Single wall steel

**Age of the tank:** Approximately 30+ years

**Condition of the tank upon removal:** The tank was found in excellent condition with no visible holes.

**Material sampled:** Soil

**Soil Analysis:** Attached as "Exhibit A"

**Tank #4:**

**Size/capacity:** 1,800 gallons

**Former contents of the tank:** Gasoline

**Construction of the tank:** Single wall steel

**Age of the tank:** Approximately 30+ years

**Condition of the tank upon removal:** The tank was found in excellent condition with no visible holes.

**Material sampled:** Soil

**Soil Analysis:** Attached as "Exhibit A"

**Tank #5:**

**Size/capacity:** 1,800 gallons

**Former contents of the tank:** Gasoline

**Construction of the tank:** Single wall steel

**Age of the tank:** Approximately 30+ years

**Condition of the tank upon removal:** The tank was found in excellent condition with no visible holes.

**Material sampled:** Soil

**Soil Analysis: Attached as "Exhibit A"**

I declare under penalty of perjury that the foregoing information is true and correct.

Executed: March 24, 2003

Nature of Business: Environmental Consulting and Contracting

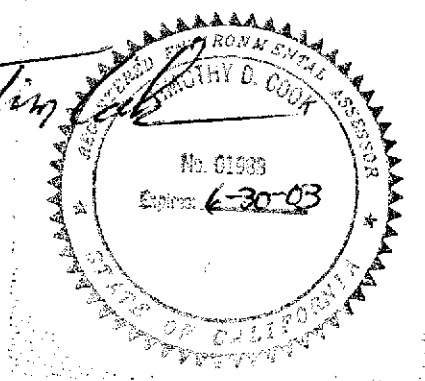
Name of Business: W. A. Craig, Inc.

Address of Business: 6940 Tremont Road  
Dixon, CA 95620-9603

Printed name and title of responsible professional:

Tim Cook  
REA #01988

Signature:

*Tim Cook*  


Date: 5-27-03



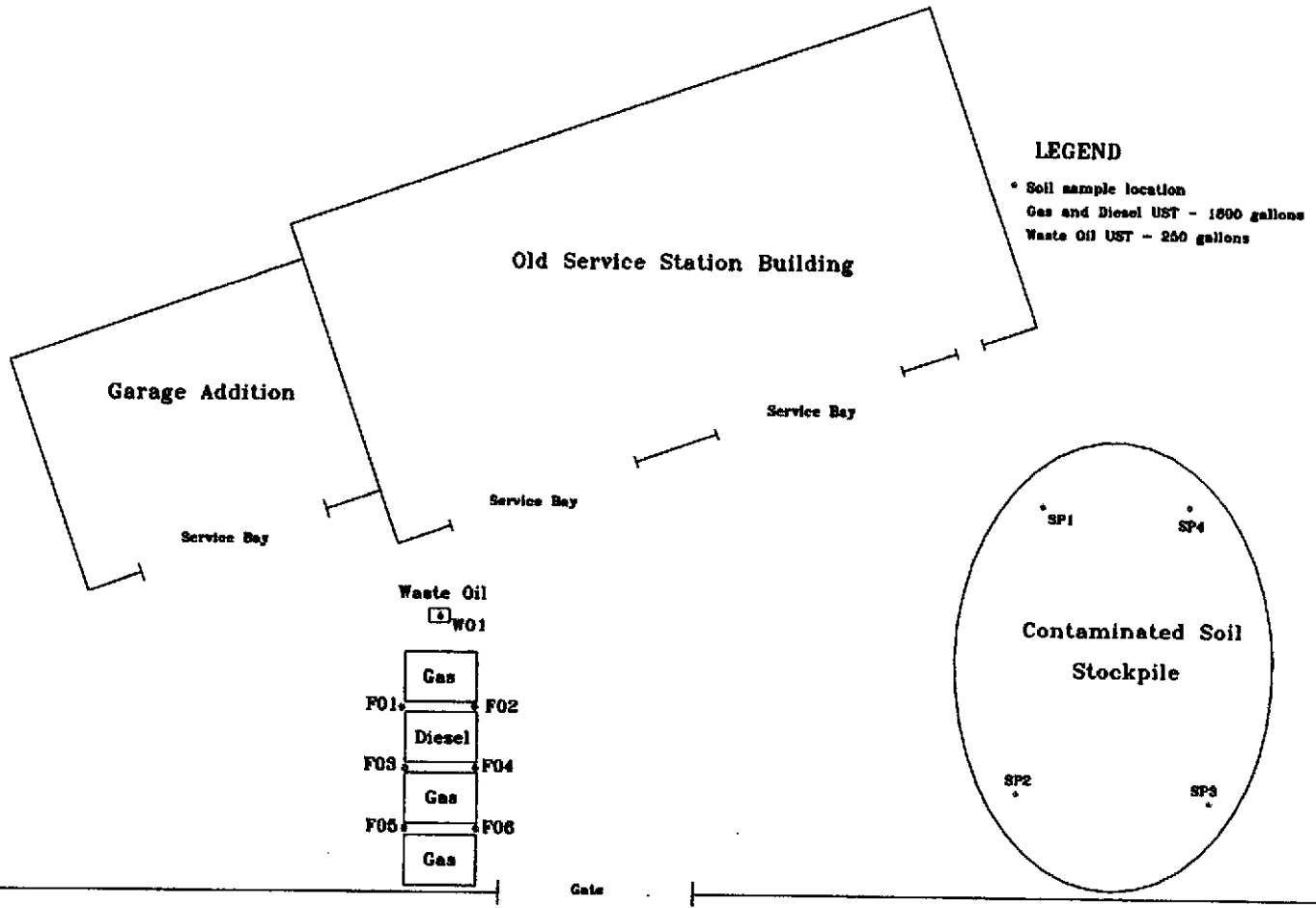


**LEGEND**

- Soil sample location
- Gas and Diesel UST - 1800 gallons
- Waste Oil UST - 250 gallons



Trailer



Old Service Station Building

Garage Addition

Service Bay

Service Bay

Service Bay

Waste Oil

WO1

Gas

F01 F02

Diesel

F03 F04

Gas

F05 F06

Gas

Contaminated Soil  
Stockpile

SP1

SP4

SP2

SP3

Gate

54th Avenue

San Leandro Street



**W.A. Craig, Inc.**

6940 Tremont Road LIC# 455752  
Dixon, California 95620-9603  
PH# (707) 693-2929 Fax# (707) 693-2922

Site Map  
829 54th Avenue  
Oakland, California

Project #: 4104  
Date: 4/02/03  
Scale: not to scale

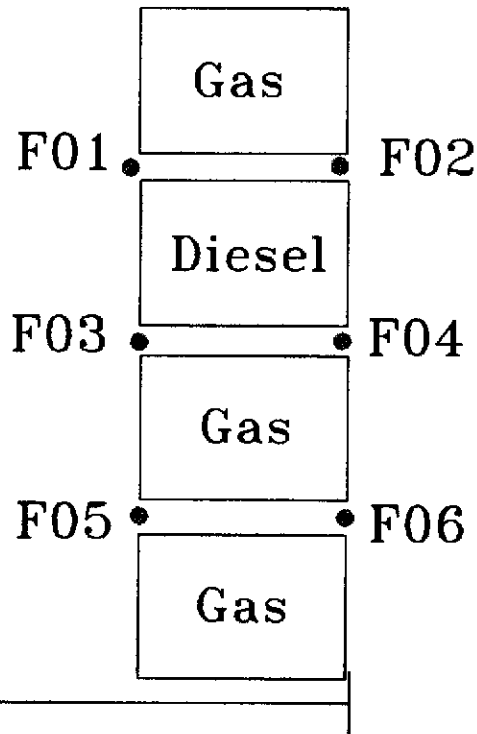
Figure:  
**1**

Service Bay

Waste Oil



W01



### LEGEND

- Soil sample location
- Gas and Diesel UST - 1800 gallons
- Waste Oil UST - 250 gallons

Gate

54th Avenue



**W.A. Craig, Inc.**

6940 Tremont Road LIC# 455752  
 Dixon, California 95620-9603  
 PH# (707) 693-2929 Fax# (707) 693-2922

**Soil Sample Locations**

829 54th Avenue  
 Oakland, California

Project #: 4104

Figure:

Date: 4/02/03

Scale: not to scale

2

**EXHIBIT A**



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
<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: #4104	Date Sampled: 02/07/03
		Date Received: 02/07/03
	Client Contact: Peter Maloney	Date Reported: 02/14/03
	Client P.O.:	Date Completed: 02/14/03

WorkOrder: 0302087

February 14, 2003

Dear Peter:

Enclosed are:

- 1). the results of 8 analyzed samples from your #4104 project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McC Campbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager



McC Campbell Analytical Inc.

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 Telephone : 925-798-1620 Fax : 925-798-1622  
 http://www.mcccampbell.com E-mail: main@mcccampbell.com

W. A. Craig Inc.  
 6940 Tremont Road  
 Dixon, CA 95620-9603

Client Project ID: #4104

Date Sampled: 02/07/03

Date Received: 02/07/03

Client Contact: Peter Maloney

Date Extracted: 02/07/03

Client P.O.:

Date Analyzed: 02/07/03-02/11/03

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0302087

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	W01	S	300,a	ND<2.0	1.5	1.1	0.60	1.2	40	117
002A	F01	S	730,a	ND<2.0	6.7	1.0	11	18	40	107
003A	F02	S	1600,a	ND<10	11	3.7	30	5.6	200	95.6
004A	F03	S	590,a	ND<10	3.8	2.2	11	6.1	200	113
005A	F04	S	150,a	ND<2.0	2.1	0.32	4.0	0.63	40	114
006A	F05	S	840,a	ND<2.0	5.6	2.9	18	21	40	92.5
007A	F06	S	490,a	ND<2.0	4.0	0.49	1.4	1.6	40	111
008A	SP1-4-SP4-4	S	150,a	ND<0.50	0.12	0.28	0.24	1.5	10	110

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	NA	NA	NA	NA	NA	1	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	1	mg/Kg

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell 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 (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644

*[Signature]* Angela Rydelius, Lab Manager



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W. A. Craig Inc.  
 6940 Tremont Road  
 Dixon, CA 95620-9603

Client Project ID: #4104

Date Sampled: 02/07/03

Date Received: 02/07/03

Client Contact: Peter Maloney

Date Extracted: 02/07/03

Client P.O.:

Date Analyzed: 02/08/03

**Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel\***

Extraction method: SW3550C

Analytical methods: SW8015C

Work Order: 0302087


Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0302087-001A	W01	S	54,d,g	1	107
0302087-002A	F01	S	240,d,g	1	105
0302087-003A	F02	S	290,d,g	1	105
0302087-004A	F03	S	130,d,g	1	104
0302087-006A	F05	S	200,d	5	94.6
0302087-007A	F06	S	64,d	1	106
0302087-008A	SP1-4-SP4-4	S	170,n,g	5	90.2

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

\* water and vapor samples are reported in µg/L, wipe samples in ug/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all TCLP / STLC / SPLP extracts in µg/L

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent / mineral spirit.

 Angela Rydelius, Lab Manager



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 6940 Tremont Road  
 Dixon, CA 95620-9603

Client Project ID: #4104

Date Sampled: 02/07/03

Date Received: 02/07/03

Client Contact: Peter Maloney

Date Extracted: 02/07/03

Client P.O.:

Date Analyzed: 02/07/03

**Petroleum Oil & Grease with Silica Gel Clean-Up\***

Analytical Method: SM5520E/F

Work Order: 0302087

Lab ID	Client ID	Matrix	POG
0302087-001A	W01	S	53
0302087-008A	SPI-4-SP4-4	S	600

Method Accuracy and Reporting Units	W	NA
	S	50 mg/Kg

DHS Certification No. 1644

*Angela Rydelius*  
 Angela Rydelius, Lab Manager



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W. A. Craig Inc.  
 6940 Tremont Road  
 Dixon, CA 95620-9603

Client Project ID: #4104  
 Client Contact: Peter Maloney  
 Client P.O.:

Date Sampled: 02/07/03  
 Date Received: 02/07/03  
 Date Extracted: 02/07/03  
 Date Analyzed: 02/09/03-02/12/03

**Semi-Volatile Organics by GC/MS (Basic Target List)\***

Extraction Method: SW3550C

Analytical Method: SW8270D

Work Order: 0302087

Lab ID	0302087-001A
Client ID	W01
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Anthracene	ND	1.0	0.33	Benzidine	ND	1.0	1.6
Benzoic Acid	ND	1.0	1.6	Benz(a)anthracene	ND	1.0	0.33
Benzo(b)fluoranthene	ND	1.0	0.33	Benzo(k)fluoranthene	ND	1.0	0.33
Benzo(g,h,i)perylene	ND	1.0	0.33	Benzo(a)pyrene	ND	1.0	0.33
Benzyl Alcohol	ND	1.0	0.66	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	1.0	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	0.83	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	2-Nitrophenol	ND	1.0	1.6
4-Nitrophenol	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

**Surrogate Recoveries (%)**

%SS1:	102	%SS2:	89.0
%SS3:	98.3	%SS4:	102
%SS5:	92.9	%SS6:	94.8

**Comments:**

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit, N/A means analyte not applicable to this analysis.

# surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.





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W. A. Craig Inc.  
 6940 Tremont Road  
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Client Project ID: #4104

Date Sampled: 02/07/03

Date Received: 02/07/03

Client Contact: Peter Maloney

Date Extracted: 02/07/03

Client P.O.:

Date Analyzed: 02/09/03-02/12/03

**Semi-Volatile Organics by GC/MS (Basic Target List)\***

Extraction Method: SW3550C

Analytical Method: SW8270D

Work Order: 0302087

Lab ID	0302087-008A
Client ID	SPI-4-SP4-4
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Anthracene	ND	1.0	0.33	Benzo(a)anthracene	ND	1.0	1.6
Benzoic Acid	ND	1.0	1.6	Benzo(k)fluoranthene	ND	1.0	0.33
Benzo(b)fluoranthene	ND	1.0	0.33	Benzo(a)pyrene	ND	1.0	0.33
Benzo(g,h,i)perylene	ND	1.0	0.33	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Benzyl Alcohol	ND	1.0	0.66	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
Butylbenzyl Phthalate	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
4-Chloro-3-methylphenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
1,4-Dichlorobenzene	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dichlorophenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	2,4-Dinitrophenol	ND	1.0	1.6
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,6-Dinitrotoluene	ND	1.0	0.33
2,4-Dinitrotoluene	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachloroethane	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Isophorone	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
2-Methylnaphthalene	4.2	1.0	0.33	Naphthalene	2.0	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
2-Nitroaniline	ND	1.0	1.6	2-Nitrophenol	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
4-Nitrophenol	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
N-Nitrosodiphenylamine	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Pentachlorophenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33				
2,4,6-Trichlorophenol	ND	1.0	0.33				

**Surrogate Recoveries (%)**

%SS1:	90.0	%SS2:	
%SS3:	105	%SS4:	81.9
%SS5:	107	%SS6:	99.1
Comments:			85.6

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

*Angela Rydelius*  
 Angela Rydelius, Lab Manager



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W. A. Craig Inc. 6940 Tremont Road Dixon, CA 95620-9603	Client Project ID: #4104	Date Sampled: 02/07/03
		Date Received: 02/07/03
	Client Contact: Peter Maloney	Date Extracted: 02/07/03
	Client P.O.:	Date Analyzed: 02/10/03-02/13/03

**CAM / CCR 17 Metals\***

Lab ID	0302087-001A	0302087-002A	0302087-003A	0302087-004A	Reporting Limit for DF =1; ND means not detected above the reporting limit	
Client ID	W01	F01	F02	F03	S	W
Matrix	S	S	S	S		
Extraction Type	TTLC	TTLC	TTLC	TTLC	mg/Kg	mg/L

**ICP Metals, Concentration\***

Analytical Method: 6010C

Extraction Method: SW3050B

Work Order: 0302087

Dilution Factor	1	1	1	1	1	1
Antimony	ND	ND	ND	ND	2.5	NA
Barium	150	140	120	120	2.5	NA
Beryllium	ND	ND	ND	ND	0.5	NA
Cadmium	ND	ND	ND	ND	0.5	NA
Chromium	35	34	19	38	0.5	NA
Cobalt	10	9.9	6.7	9.0	2.0	NA
Copper	26	15	11	25	2.0	NA
Lead	13	6.1	9.3	6.3	3.0	NA
Molybdenum	ND	ND	ND	ND	2.0	NA
Nickel	44	37	14	46	2.0	NA
Silver	ND	ND	ND	ND	1.0	NA
Vanadium	34	26	18	28	2.0	NA
Zinc	55	35	15	45	1.0	NA
%SS:	108	103	103	104		

**GFAA Metals, Concentration\***

Analytical Method: SW7010

Extraction Method: SW3050B

Dilution Factor	1	1	1	1	1	1
Arsenic	4.2	ND	ND	ND	2.5	NA
Selenium	ND	ND	ND	ND	2.5	NA
Thallium	ND	ND	ND	ND	2.5	NA

**Cold Vapor Metals, Concentration\***

Analytical Method: SW7471B

Extraction Method: SW7471B

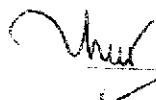
Dilution Factor	1	1	1	1	1	1
Mercury	ND	ND	ND	ND	0.06	NA

\* water and liquid samples are reported in mg/L, soil/sludge/solid/product samples in mg/kg, wipes in µg/wipe and all TCLP / STLC / DISTLC / SPLP extracts in mg/L.

# means surrogate recovery outside of acceptance range due to matrix interference; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water- Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010 (sludge/soil/solid/oil/product/wipes - As, Se, Tl); 7471B (Hg).

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations; j) reporting limit raised due to insufficient sample amount; k) quantitated value base on provided total air volume per client; y) estimated values due to low surrogate recovery; z) reporting limit raised due to matrix interference.

 Angela Rydelius, Lab Manager



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W. A. Craig Inc. 6940 Tremont Road Dixon, CA 95620-9603	Client Project ID: #4104	Date Sampled: 02/07/03
	Client Contact: Peter Maloney	Date Received: 02/07/03
	Client P.O.:	Date Extracted: 02/07/03
		Date Analyzed: 02/10/03-02/13/03

**CAM / CCR 17 Metals\***

Lab ID	0302087-005A	0302087-006A	0302087-007A	0302087-008A	Reporting Limit for DF =1; ND means not detected above the reporting limit	
Client ID	F04	F05	F06	SP1-4-SP4-4	S	W
Matrix	S	S	S	S	mg/Kg	mg/L
Extraction Type	TTLIC	TTLIC	TTLIC	TTLIC		

**ICP Metals, Concentration\***

Analytical Method: 6010C

Extraction Method: SW3050B

Work Order: 0302087

Dilution Factor	1	1	1	1	1	1
Antimony	ND	ND	ND	21	2.5	NA
Barium	130	130	130	130	2.5	NA
Beryllium	ND	ND	ND	ND	0.5	NA
Cadmium	ND	ND	ND	ND	0.5	NA
Chromium	36	42	32	29	0.5	NA
Cobalt	8.5	11	8.6	5.9	2.0	NA
Copper	30	25	19	59	2.0	NA
Lead	9.0	11	6.4	600	3.0	NA
Molybdenum	ND	ND	ND	ND	2.0	NA
Nickel	53	52	46	31	2.0	NA
Silver	ND	ND	ND	ND	1.0	NA
Vanadium	32	32	30	22	2.0	NA
Zinc	39	44	34	480	1.0	NA
%SS:	104	108	105	105		

**GFAA Metals, Concentration\***

Analytical Method: SW7010

Extraction Method: SW3050B

Dilution Factor	1	1	1	1	1	1
Arsenic	3.1	3.8	ND	4.0	2.5	NA
Selenium	ND	ND	ND	ND	2.5	NA
Thallium	ND	ND	ND	ND	2.5	NA

**Cold Vapor Metals, Concentration\***

Analytical Method: SW7471B

Extraction Method: SW7471B


Dilution Factor	1	1	1	1	1	1
Mercury	0.064	ND	ND	0.17	0.06	NA

\* water and liquid samples are reported in mg/L, soil/sludge/solid/product samples in mg/kg, wipes in µg/wipe and all TCLP / STLC / DISTLC / SPLP extracts in mg/L.

# means surrogate recovery outside of acceptance range due to matrix interference; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water- Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010 (sludge/soil/solid/oil/product/wipes - As, Se, Tl); 7471B (Hg).

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations; j) reporting limit raised due to insufficient sample amount; k) quantitated value base on provided total air volume per client; y) estimated values due to low surrogate recovery; z) reporting limit raised due to matrix interference.

 Angela Rydelius, Lab Manager



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W. A. Craig Inc.  6940 Tremont Road  Dixon, CA 95620-9603	Client Project ID: #4104	Date Sampled: 02/07/03
		Date Received: 02/07/03
	Client Contact: Peter Maloney	Date Extracted: 02/19/03-02/21/03
	Client P.O.:	Date Analyzed: 02/24/03

**Lead by ICP\***

Extraction method: CA Title 22

Analytical methods: SW6010C

Work Order: 0302087

Lab ID	Client ID	Matrix	Extraction	Lead	DF	% SS
0302087-008A	SP1-4-SP4-4	S	STLC	20	1	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TTLC	NA	mg/L
	S	STLC	0.2	mg/L

\* water samples are reported in mg/L, soil/sludge/solid/product samples in mg/kg, wipes in µg/wipe and all TCLP / STLC / DISTLC / SPLP extracts in mg/L.


ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water- Sb, As, Pb, Se, Ti); 245.1 (Hg); 7010 (sludge/soil/solid/oil/product/wipes - As, Se, Ti); 7471B (Hg).

DISTLC extractions are performed using STLC methodology except that deionized water is substituted for citric acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations; z) reporting limit raised due to matrix interference.

DHS Certification No. 1644

 Angela Rydelius, Lab Manager



### QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0302087

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 5820			Spiked Sample ID: N/A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(gas)	N/A	0.60	N/A	N/A	N/A	112	104	7.81	80	120
MTBE	N/A	0.10	N/A	N/A	N/A	92.2	86.8	6.04	80	120
Benzene	N/A	0.10	N/A	N/A	N/A	105	104	0.990	80	120
Toluene	N/A	0.10	N/A	N/A	N/A	111	105	5.56	80	120
Ethylbenzene	N/A	0.10	N/A	N/A	N/A	104	103	1.34	80	120
Xylencs	N/A	0.30	N/A	N/A	N/A	110	110	0	80	120
%SS:	N/A	100	N/A	N/A	N/A	99.4	94.7	4.87	80	120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

% Recovery =  $100 * (MS - Sample) / (Amount Spiked)$ ; RPD =  $100 * (MS - MSD) / (MS + MSD) * 2$ .

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



### QC SUMMARY REPORT FOR SW8015C

Matrix: S

WorkOrder: 0302087

EPA Method: SW8015C		Extraction: SW3550C			BatchID: 5844		Spiked Sample ID: 0302100-001A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	ND	150	114	120	5.21	94.4	94.6	0.155	70	130
%SS:	77.5	100	106	106	0.0396	93.5	99.1	5.87	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

% Recovery =  $100 * (MS - Sample) / (Amount\ Spiked)$ ;  $RPD = 100 * (MS - MSD) / (MS + MSD) * 2$ .

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



### QC SUMMARY REPORT FOR SW8015C

Matrix: S

WorkOrder: 0302087

Compound	Extraction: SW3550C		BatchID: 5819			Spiked Sample ID: 0302048-048A				
	Sample mg/Kg	Spiked mg/Kg	MS* % Rec.	MSD* % Rec.	MS-MSD* % RPD	LCS % Rec.	LCSD % Rec.	LCS-LCSD % RPD	Acceptance Criteria (%)	
									Low	High
TPH(d)	ND	150	113	119	5.07	95.3	94.3	1.11	70	130
%SS:	96.5	100	106	106	0.702	92.1	91.5	0.638	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / (MS + MSD) \* 2.

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



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### QC SUMMARY REPORT FOR SM5520E/F

Matrix: S

WorkOrder: 0302087

EPA Method: SM5520E/F		Extraction: PR9071_SG_S		BatchID: 5799		Spiked Sample ID: 0302013-008A					
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD		Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High	
POG	ND	200	97	100	3.05	98	100	2.02	70	130	
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE											

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

% Recovery =  $100 * (MS - Sample) / (Amount\ Spiked)$ ; RPD =  $100 * (MS - MSD) / (MS + MSD) * 2$ .

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery





### QC SUMMARY REPORT FOR SW8270D

Matrix: S

WorkOrder: 0302087

Compound	EPA Method: SW8270D		Extraction: SW3550C			BatchID: 5841		Spiked Sample ID: 0302087-001A		
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Acenaphthene	ND	2	81.9	80.1	2.15	76.9	77.9	1.20	30	130
4-Chloro-3-methylphenol	ND	4	90.1	87.8	2.64	83.5	84.4	1.05	30	130
2-Chlorophenol	ND	4	83.8	83.5	0.335	88.3	88	0.323	30	130
1,4-Dichlorobenzene	ND	2	85	85.3	0.294	81.6	82.9	1.69	30	130
2,4-Dinitrotoluene	ND	2	87	86	1.13	81.3	81.9	0.723	30	130
4-Nitrophenol	ND	4	85.2	83.5	2.06	80.1	80.9	0.976	30	130
N-Nitrosodi-n-propylamine	ND	2	103	102	1.76	80.7	85.4	5.59	30	130
Pentachlorophenol	ND	4	66.5	68.5	2.89	66	65.8	0.311	30	130
Phenol	ND	4	80.4	80.3	0.0684	82.5	81.3	1.42	30	130
Pyrene	ND	2	74.2	74.8	0.779	70.2	70.6	0.539	30	130
1,2,4-Trichlorobenzene	ND	2	78.1	77.8	0.385	80.3	81.9	2.07	30	130
%SS5:	92.9	100	109	106	2.42	90.1	90.6	0.610	30	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

% Recovery =  $100 * (MS - Sample) / (Amount Spiked)$ ; RPD =  $100 * (MS - MSD) / (MS + MSD) * 2$ .

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



### QC SUMMARY REPORT FOR 6010C

Matrix: S

WorkOrder: 0302087

EPA Method: 6010C		Extraction: SW3050B		BatchID: 5846		Spiked Sample ID: N/A				
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Antimony	N/A	500	N/A	N/A	N/A	102	92.7	9.72	70	130
Barium	N/A	500	N/A	N/A	N/A	89.5	89.1	0.449	70	130
Beryllium	N/A	500	N/A	N/A	N/A	112	103	8.77	70	130
Cadmium	N/A	500	N/A	N/A	N/A	106	97.6	8.22	70	130
Chromium	N/A	500	N/A	N/A	N/A	101	93.7	7.44	70	130
Cobalt	N/A	500	N/A	N/A	N/A	106	87.4	19.4	70	130
Copper	N/A	500	N/A	N/A	N/A	92.3	89.2	3.43	70	130
Lead	N/A	500	N/A	N/A	N/A	105	89.3	16.3	70	130
Molybdenum	N/A	500	N/A	N/A	N/A	98.4	96	2.54	70	130
Nickel	N/A	500	N/A	N/A	N/A	99.5	91.3	8.64	70	130
Silver	N/A	50	N/A	N/A	N/A	82.5	85.8	3.93	70	130
Vanadium	N/A	500	N/A	N/A	N/A	96.8	92.2	4.82	70	130
Zinc	N/A	500	N/A	N/A	N/A	104	91.3	13.3	70	130
%SS:	N/A	100	N/A	N/A	N/A	101	108	6.46	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

MS = Matrix Spike, MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

% Recovery =  $100 * (MS - Sample) / (Amount Spiked)$ ;  $RPD = 100 * (MS - MSD) / (MS + MSD) * 2$ .

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



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### QC SUMMARY REPORT FOR SW7010

Matrix: S

WorkOrder: 0302087

EPA Method: SW7010		Extraction: SW3050B			BatchID: 5845		Spiked Sample ID: N/A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Arsenic	N/A	5	N/A	N/A	N/A	97.1	106	8.51	70	130
Arsenic	N/A	5	N/A	N/A	N/A	109	117	7.02	70	130
Thallium	N/A	5	N/A	N/A	N/A	114	107	5.87	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

% Recovery =  $100 * (MS - Sample) / (Amount\ Spiked)$ ; RPD =  $100 * (MS - MSD) / (MS + MSD) * 2$ .

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery



### QC SUMMARY REPORT FOR SW7010

Matrix: S

WorkOrder: 0302087

EPA Method: SW7010		Extraction: SW3050B			BatchID: 5827			Spiked Sample ID: N/A		
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Arsenic	N/A	5	N/A	N/A	N/A	125	130	3.56	70	130
Selenium	N/A	5	N/A	N/A	N/A	95.9	104	200	70	130
Thallium	N/A	5	N/A	N/A	N/A	98.2	99.2	0.972	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

% Recovery =  $100 * (MS - Sample) / (Amount\ Spiked)$ ; RPD =  $100 * (MS - MSD) / (MS + MSD) * 2$ .

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



### QC SUMMARY REPORT FOR SW7471B

Matrix: S

WorkOrder: 0302087

EPA Method: SW7471B		Extraction: SW7471B		BatchID: 5828			Spiked Sample ID: N/A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Mercury	N/A	0.25	N/A	N/A	N/A	109	94.8	14.0	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2.$

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



### QC SUMMARY REPORT FOR SW6010C

Matrix: S

WorkOrder: 0302087

EPA Method: SW6010C		Extraction: CA Title 22			BatchID: 5909			Spiked Sample ID: N/A		
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Lead	N/A	10	N/A	N/A	N/A	84	83.6	0.503	70	130
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE										

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

% Recovery =  $100 * (MS - Sample) / (Amount\ Spiked)$ ; RPD =  $100 * (MS - MSD) / (MS + MSD) * 2$ .

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

WACR

0302007

McCAMPBELL ANALYTICAL INC.

110 2<sup>ND</sup> AVENUE SOUTH, #D7  
PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

Report To: *Peter Maloney*

Bill To: W.A. Craig, Inc.

Company: W.A. Craig, Inc.

CHAIN OF CUSTODY RECORD

TURN AROUND TIME:

RUSH 24 HOUR 48 HOUR 5 DAY

EDF Required?  Yes  No

Tele: 707-693-2929

E-mail: tech@wacraig.com

Project #: 4104

Fax: 707-693-2922

Project Location: 829 54 Ave. Oakland, CA

Project Name:

Sampler Signature: *Peter Maloney*

Analysis Request

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED		BTEX & TPH as Gas (602/8020 - 8015) MTBE TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F&B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCR'S ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239 2/6010) <i>SLC</i> RCI	Other	Comments								
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl																HNO <sub>3</sub>	Other						
W01	Bottom of Waste Tank	2/7/03	10:30		Buss Tube		X						X	X	X																				
F01	Field Tank Bottom		10:45				X						X	X																					
F02			10:45				X						X	X																					
F03			11:20				X						X	X																					
F04			11:25				X						X	X																					
F05			13:15				X						X	X																					
F06			13:15				X						X	X																					
SP 1-4	Composit Sports Area		14:30				X						X	X																					
SP 2-4			14:30				X						X	X																					
SP 3-4			14:30					X						X	X																				
SP 4-4			14:30					X						X	X																				

Relinquished By:

*Peter Maloney*

Date: 2-7-03 Time: 14:40

Received By:

*Neil Rodger*

Relinquished By:

*Neil Rodger*

Date: 2-7-03 Time: 3:20

Received By:

*Neil Rodger*

Relinquished By:

Date: Time:

Received By:

Remarks:

ICRP  GOOD CONDITION  PRESERVATION APPROPRIATE  CONTAINERS PRESERVED IN LAB

HEAD SPACE ABSENT  VOAS  O&G  METALS  OTHER

DECLORINATED IN LAB

# McC Campbell Analytical Inc.



110 Second Avenue South, #D7  
 Pacheco, CA 94553-5560  
 (925) 798-1620

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 0302087

**Client:**

W. A. Craig Inc.  
 6940 Tremont Road  
 Dixon, CA 95620-9603

TEL: (707) 693-2929  
 FAX: (707) 693-2922  
 ProjectNo: #4104  
 PO:

Date Received: 2/7/03

Date Printed: 2/28/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests						
					6010C	SM5520E/F	SW6010C	SW7010	SW7471B	SW8015C	8021B/8015
0302087-001	W01	Soil	2/7/03 10:30:00 AM		A	A		A	A	A	A
0302087-002	F01	Soil	2/7/03 10:45:00 AM		A			A	A	A	A
0302087-003	F02	Soil	2/7/03 10:45:00 AM		A			A	A	A	A
0302087-004	F03	Soil	2/7/03 11:20:00 AM		A			A	A	A	A
0302087-005	F04	Soil	2/7/03 11:25:00 AM		A			A	A	A	A
0302087-006	F05	Soil	2/7/03 1:15:00 PM		A			A	A	A	A
0302087-007	F06	Soil	2/7/03 1:15:00 PM	✓	A			A	A	A	A
0302087-008	SP1-4-SP4-4	Soil	2/7/03 2:30:00 PM		A	A	A	A	A	A	A

Prepared by: Melissa Valles

Comments: STLC PB ADDED ON #008 ON NORMAL TAT PER PM ON 2/19

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.



# McC Campbell Analytical Inc.



110 Second Avenue South, #D7  
 Pacheco, CA 94553-5560  
 (925) 798-1620

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 0302087

Client:

W. A. Craig Inc.  
 6940 Tremont Road  
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TEL: (707) 693-2929  
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 ProjectNo: #4104  
 PO:

Date Received: 2/7/03

Date Printed: 2/28/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests	
					SW8270D	
0302087-001	W01	Soil	2/7/03 10:30:00 AM		A	
0302087-002	F01	Soil	2/7/03 10:45:00 AM			
0302087-003	F02	Soil	2/7/03 10:45:00 AM			
0302087-004	F03	Soil	2/7/03 11:20:00 AM			
0302087-005	F04	Soil	2/7/03 11:25:00 AM			
0302087-006	F05	Soil	2/7/03 1:15:00 PM			
0302087-007	F06	Soil	2/7/03 1:15:00 PM	<input checked="" type="checkbox"/>		
0302087-008	SP1-4-SP4-4	Soil	2/7/03 2:30:00 PM		A	

Prepared by: Melissa Valles

Comments: STLC PB ADDED ON #008 ON NORMAL TAT PER PM ON 2/19

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.