



**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

Edd Clark & Associates, Inc.  320 Professional Center Ste. 215  Rohnert Park, CA 94928	Client Project ID: #0585, 002; 1530-1540 Solano Ave	Date Sampled: 12/13/07
	Client Contact: Etta Jon Vanden Bosch	Date Received: 12/14/07
	Client P.O.:	Date Reported: 12/21/07
		Date Completed: 12/21/07

**WorkOrder: 0712499**

December 21, 2007

Dear Etta:

Enclosed within are:

- 1) The results of the **7** analyzed samples from your project: **#0585, 002; 1530-1540 Solano Ave,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.



Edd Clark & Associates, Inc.  
Environmental Consultants

0712499

### Chain of Custody Report

P.O. Box 3039, Rohnert Park, CA 94927  
Tel: (707) 792-9500 (800) 474-1448 Fax: (707) 792-9504

E-mail in EDF for Upload to Geotracker:  
Yes  No  Initials EJVB

Samplers Signature: Etta Jon Vandenberg

### Analysis

EC&A job # 0585,002		Facility Name & Location:									Remarks
Global I.D. # _____		1530-1540 Solano Ave. Albany, CA					HVOCs (8010)	TPH <sub>g</sub> /BTEX MnTBE (2015/8021)	TPH <sub>m</sub> , TPH <sub>d</sub> (8015)	Total Lead	
Field Point Name	Date	Time	Sample ID (depth)	Sample Type	Media	# of Items					
B-1	12/13/07	1155	B-1d5.5	discrete	S	1	X				
		1210	B-1d10.5			1	X				
		1225	B-1d15.0			1	X				
		1250	B-1d20.0	↓	↓	1	X				
↓	↓	1430	B-1W	grab	W	4/1	X				
DR-S	↓	1450	DR-1-S	comp	S	3	X	X	X	X	← Please Comp. in lab
DR-W	↓	1500	DR-1-W	aliquot	W	3/1	X	X	X		<del>XXXXXXXXXX</del> (EJ)

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
<u>Etta Jon Vandenberg</u>	<u>12/14/07</u>	<u>1145</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>12/14/07</u>	<u>430</u>	<u>[Signature]</u>
Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
					<u>12/16</u>		

ICE/GOOD CONDITION  
HEAD SPACE ABSENT  
DECHLORINATED IN LAB  
PRESERVATION

APPROPRIATE CONTAINERS PRESERVED IN LAB

VOAS O&G METALS OTHER

# McC Campbell Analytical, Inc.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 0712499

ClientID: ECAR

EDF   
  Excel   
  Fax   
  Email   
  HardCopy   
  ThirdParty

Report to:	Etta Jon Vanden Bosch	Email: corpmail@ecaenviron.com	Bill to:	Accounts Payable	Requested TAT: 5 days
	Edd Clark & Associates, Inc.	TEL: (707) 792-9500 FAX: (707) 792-9504		Edd Clark & Associates, Inc.	Date Received: 12/14/2007
	320 Professional Center Ste. 215	ProjectNo: #0585, 002; 1530-1540 Solano Ave		320 Professional Center Ste.215	Date Printed: 12/14/2007
	Rohnert Park, CA 94928	PO:		Rohnert Park, CA 94928	

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0712499-001	B-1d5.5	Soil	12/13/2007	<input type="checkbox"/>	A												
0712499-002	B-1d10.5	Soil	12/13/2007	<input type="checkbox"/>	A												
0712499-003	B-1d15.0	Soil	12/13/2007	<input type="checkbox"/>	A												
0712499-004	B-1d20.0	Soil	12/13/2007	<input type="checkbox"/>	A												
0712499-005	B-1W	Water	12/13/2007	<input type="checkbox"/>		A											
0712499-006	DR-1-S	Soil	12/13/2007	<input type="checkbox"/>	A		A		A	A							
0712499-007	DR-1-W	Water	12/13/2007	<input type="checkbox"/>		B		A			C						

**Test Legend:**

1	8010BMS_S	2	8010BMS_W	3	G-MBTEX_S	4	G-MBTEX_W	5	PB_S
6	TPH(DMO)_S	7	TPH(DMO)_W	8		9		10	
11		12							

Prepared by: Elisa Venegas

**Comments:**

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.



### Sample Receipt Checklist

Client Name: **Edd Clark & Associates, Inc.**

Date and Time Received: **12/14/2007 7:08:49 PM**

Project Name: **#0585, 002; 1530-1540 Solano Ave**

Checklist completed and reviewed by: **Elisa Venegas**

WorkOrder N°: **0712499** Matrix Soil/Water

Carrier: Rob Pringle (MAI Courier)

#### Chain of Custody (COC) Information

- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Sample IDs noted by Client on COC? Yes  No
- Date and Time of collection noted by Client on COC? Yes  No
- Sampler's name noted on COC? Yes  No

#### Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes  No  NA
- Shipping container/cooler in good condition? Yes  No
- Samples in proper containers/bottles? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No

#### Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes  No
- Container/Temp Blank temperature Cooler Temp: 19.6°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes  No  No VOA vials submitted
- Sample labels checked for correct preservation? Yes  No
- TTLC Metal - pH acceptable upon receipt (pH<2)? Yes  No  NA

Client contacted:

Date contacted:

Contacted by:

Comments:



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	Client Contact: Etta Jon Vanden Bosch	Date Received: 12/14/07
	Client P.O.:	Date Extracted: 12/14/07
		Date Analyzed 12/16/07-12/17/07

**Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0712499

Lab ID	0712499-001A	0712499-002A	0712499-003A	0712499-004A	Reporting Limit for DF =1	
Client ID	B-1d5.5	B-1d10.5	B-1d15.0	B-1d20.0	S	W
Matrix	S	S	S	S		
DF	1	1	5	1		

Compound	Concentration				mg/kg	µg/L
Bromodichloromethane	ND	ND	ND<0.025	ND	0.005	NA
Bromoform	ND	ND	ND<0.025	ND	0.005	NA
Bromomethane	ND	ND	ND<0.025	ND	0.005	NA
Carbon Tetrachloride	ND	ND	ND<0.025	ND	0.005	NA
Chlorobenzene	ND	ND	ND<0.025	ND	0.005	NA
Chloroethane	ND	ND	ND<0.025	ND	0.005	NA
2-Chloroethyl Vinyl Ether	ND	ND	ND<0.050	ND	0.01	NA
Chloroform	ND	ND	ND<0.025	ND	0.005	NA
Chloromethane	ND	ND	ND<0.025	ND	0.005	NA
Dibromochloromethane	ND	ND	ND<0.025	ND	0.005	NA
1,2-Dichlorobenzene	ND	ND	ND<0.025	ND	0.005	NA
1,3-Dichlorobenzene	ND	ND	ND<0.025	ND	0.005	NA
1,4-Dichlorobenzene	ND	ND	ND<0.025	ND	0.005	NA
Dichlorodifluoromethane	ND	ND	ND<0.025	ND	0.005	NA
1,1-Dichloroethane	ND	ND	ND<0.025	ND	0.005	NA
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND<0.025	ND	0.005	NA
1,1-Dichloroethene	ND	ND	ND<0.025	ND	0.005	NA
cis-1,2-Dichloroethene	ND	ND	ND<0.025	ND	0.005	NA
trans-1,2-Dichloroethene	ND	ND	ND<0.025	ND	0.005	NA
1,2-Dichloropropane	ND	ND	ND<0.025	ND	0.005	NA
cis-1,3-Dichloropropene	ND	ND	ND<0.025	ND	0.005	NA
trans-1,3-Dichloropropene	ND	ND	ND<0.025	ND	0.005	NA
Methylene chloride	ND	ND	ND<0.025	ND	0.005	NA
1,1,2,2-Tetrachloroethane	ND	ND	ND<0.025	ND	0.005	NA
Tetrachloroethene	ND	0.16	0.43	ND	0.005	NA
1,1,1-Trichloroethane	ND	ND	ND<0.025	ND	0.005	NA
1,1,2-Trichloroethane	ND	ND	ND<0.025	ND	0.005	NA
Trichloroethene	ND	ND	ND<0.025	ND	0.005	NA
Trichlorofluoromethane	ND	ND	ND<0.025	ND	0.005	NA
Vinyl Chloride	ND	ND	ND<0.025	ND	0.005	NA

**Surrogate Recoveries (%)**

%SS1:	109	106	103	105
%SS2:	100	100	99	101
%SS3:	103	104	103	103

**Comments**

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

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

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



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	Client Contact: Etta Jon Vanden Bosch	Date Received: 12/14/07
	Client P.O.:	Date Extracted: 12/14/07
		Date Analyzed: 12/16/07-12/17/07

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0712499

Lab ID	0712499-006A				Reporting Limit for DF = 1	
Client ID	DR-1-S				S	W
Matrix	S					
DF	1					

Compound	Concentration				mg/kg	µg/L
Bromodichloromethane	ND				0.005	NA
Bromoform	ND				0.005	NA
Bromomethane	ND				0.005	NA
Carbon Tetrachloride	ND				0.005	NA
Chlorobenzene	ND				0.005	NA
Chloroethane	ND				0.005	NA
2-Chloroethyl Vinyl Ether	ND				0.01	NA
Chloroform	ND				0.005	NA
Chloromethane	ND				0.005	NA
Dibromochloromethane	ND				0.005	NA
1,2-Dichlorobenzene	ND				0.005	NA
1,3-Dichlorobenzene	ND				0.005	NA
1,4-Dichlorobenzene	ND				0.005	NA
Dichlorodifluoromethane	ND				0.005	NA
1,1-Dichloroethane	ND				0.005	NA
1,2-Dichloroethane (1,2-DCA)	ND				0.005	NA
1,1-Dichloroethene	ND				0.005	NA
cis-1,2-Dichloroethene	ND				0.005	NA
trans-1,2-Dichloroethene	ND				0.005	NA
1,2-Dichloropropane	ND				0.005	NA
cis-1,3-Dichloropropene	ND				0.005	NA
trans-1,3-Dichloropropene	ND				0.005	NA
Methylene chloride	ND				0.005	NA
1,1,2,2-Tetrachloroethane	ND				0.005	NA
Tetrachloroethene	0.030				0.005	NA
1,1,1-Trichloroethane	ND				0.005	NA
1,1,2-Trichloroethane	ND				0.005	NA
Trichloroethene	ND				0.005	NA
Trichlorofluoromethane	ND				0.005	NA
Vinyl Chloride	ND				0.005	NA

#### Surrogate Recoveries (%)

%SS1:	104				
%SS2:	102				
%SS3:	102				

#### Comments

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

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

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



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	Client Contact: Etta Jon Vanden Bosch	Date Received: 12/14/07
	Client P.O.:	Date Extracted: 12/17/07-12/21/07
		Date Analyzed: 12/17/07-12/21/07

**Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0712499

Lab ID	0712499-005A	0712499-007B			Reporting Limit for DF =1	
Client ID	B-1W	DR-1-W			S	W
Matrix	W	W				
DF	1	2				

Compound	Concentration				µg/kg	µg/L
Bromodichloromethane	ND	ND<1.0			NA	0.5
Bromoform	ND	ND<1.0			NA	0.5
Bromomethane	ND	ND<1.0			NA	0.5
Carbon Tetrachloride	ND	ND<1.0			NA	0.5
Chlorobenzene	ND	ND<1.0			NA	0.5
Chloroethane	ND	ND<1.0			NA	0.5
2-Chloroethyl Vinyl Ether	ND	ND<2.0			NA	1.0
Chloroform	ND	ND<1.0			NA	0.5
Chloromethane	ND	ND<1.0			NA	0.5
Dibromochloromethane	ND	ND<1.0			NA	0.5
1,2-Dichlorobenzene	ND	ND<1.0			NA	0.5
1,3-Dichlorobenzene	ND	ND<1.0			NA	0.5
1,4-Dichlorobenzene	ND	ND<1.0			NA	0.5
Dichlorodifluoromethane	ND	ND<1.0			NA	0.5
1,1-Dichloroethane	ND	ND<1.0			NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND<1.0			NA	0.5
1,1-Dichloroethene	ND	ND<1.0			NA	0.5
cis-1,2-Dichloroethene	ND	ND<1.0			NA	0.5
trans-1,2-Dichloroethene	ND	ND<1.0			NA	0.5
1,2-Dichloropropane	ND	ND<1.0			NA	0.5
cis-1,3-Dichloropropene	ND	ND<1.0			NA	0.5
trans-1,3-Dichloropropene	ND	ND<1.0			NA	0.5
Methylene chloride	ND	ND<1.0			NA	0.5
1,1,2,2-Tetrachloroethane	ND	ND<1.0			NA	0.5
Tetrachloroethene	2.9	ND<1.0			NA	0.5
1,1,1-Trichloroethane	ND	ND<1.0			NA	0.5
1,1,2-Trichloroethane	ND	ND<1.0			NA	0.5
Trichloroethene	ND	ND<1.0			NA	0.5
Trichlorofluoromethane	ND	ND<1.0			NA	0.5
Vinyl Chloride	ND	ND<1.0			NA	0.5

**Surrogate Recoveries (%)**

%SS1:	115	92		
%SS2:	97	98		
%SS3:	105	95		

**Comments** j

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

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

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



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	Client Contact: Etta Jon Vanden Bosch	Date Received: 12/14/07
	Client P.O.:	Date Extracted: 12/14/07-12/18/07
		Date Analyzed: 12/17/07-12/18/07

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0712499

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
006A	DR-1-S	S	ND	ND	ND	0.017	ND	0.0099	1	87
007A	DR-1-W	W	ND	ND	ND	ND	ND	ND	1	112

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg

\* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/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 ~1 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; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.





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Client Project ID: #0585, 002; 1530-1540  
Solano Ave

Client Contact: Etta Jon Vanden Bosch

Client P.O.:

Date Sampled: 12/13/07

Date Received: 12/14/07

Date Extracted: 12/14/07

Date Analyzed 12/17/07

### Lead by ICP\*

Extraction method SW3050B

Analytical methods 6010C

Work Order: 0712499

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS
0712499-006A	DR-1-S	S	TOTAL	14	1	95

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	µg/L
	S	TOTAL	5.0	mg/Kg

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

# means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.

WET = Waste Extraction Test (STLC).

DI WET = Waste Extraction Test using de-ionized water.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TOTAL metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.



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	Client P.O.:	Date Analyzed 12/18/07-12/20/07
		Date Extracted: 12/14/07

## Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

Extraction method: SW3510C/SW3550C Analytical methods: SW8015C Work Order: 0712499

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0712499-006A	DR-1-S	S	2.0,g,b,f	7.0	1	108
0712499-007C	DR-1-W	W	ND	ND	1	116

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	1.0	5.0	mg/Kg

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported 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 (cooking oil?); h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil range (?); no recognizable pattern; m) fuel oil; n) stoddard solvent/mineral spirits; p) see attached narrative.



### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0712499

Analyte	Extraction SW5030B		BatchID: 32529						Spiked Sample ID: 0712402-002A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND	0.050	128	125	2.43	123	124	0.426	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	94.6	91.3	3.58	86.8	93.2	7.08	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	109	103	5.68	112	118	5.54	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	100	96.9	3.54	99.4	104	4.89	70 - 130	30	70 - 130	30
%SS1:	107	0.050	95	87	8.11	89	93	4.48	70 - 130	30	70 - 130	30
%SS2:	103	0.050	89	88	1.77	79	81	2.01	70 - 130	30	70 - 130	30
%SS3:	105	0.050	85	84	0.876	87	87	0	70 - 130	30	70 - 130	30

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

#### BATCH 32529 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712499-001A	12/13/07 11:55 AM	12/14/07	12/16/07 2:28 PM	0712499-002A	12/13/07 12:10 PM	12/14/07	12/16/07 3:14 PM
0712499-003A	12/13/07 12:25 PM	12/14/07	12/17/07 10:05 PM	0712499-004A	12/13/07 12:50 PM	12/14/07	12/16/07 4:45 PM
0712499-006A	12/13/07 2:50 PM	12/14/07	12/16/07 5:30 PM				

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

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

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

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.



### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0712499

Analyte	EPA Method SW8260B			Extraction SW5030B			BatchID: 32586			Spiked Sample ID: 0712499-007B			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)				
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
Chlorobenzene	ND<1.0	10	126	125	0.432	129	126	1.82	70 - 130	30	70 - 130	30	
1,2-Dichloroethane (1,2-DCA)	ND<1.0	10	90.8	97.1	6.70	90.5	97.8	7.71	70 - 130	30	70 - 130	30	
1,1-Dichloroethene	ND<1.0	10	93.7	104	10.5	95.9	94.8	1.21	70 - 130	30	70 - 130	30	
Trichloroethene	ND<1.0	10	100	105	5.09	104	108	4.32	70 - 130	30	70 - 130	30	
%SS1:	92	10	87	91	3.64	93	96	3.46	70 - 130	30	70 - 130	30	
%SS2:	98	10	86	86	0	87	89	2.07	70 - 130	30	70 - 130	30	
%SS3:	95	10	84	84	0	85	84	0.445	70 - 130	30	70 - 130	30	

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

#### BATCH 32586 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712499-005A	12/13/07 2:30 PM	12/17/07	12/17/07 10:50 PM	0712499-007B	12/13/07 3:00 PM	12/21/07	12/21/07 11:21 AM

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

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

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

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.



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## QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0712499

EPA Method 6010C			Extraction SW3050B			BatchID: 32507			Spiked Sample ID 0712366-003A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	9.6	50	86.2	90	3.54	10	93.9	91.8	2.34	75 - 125	20	80 - 120	20
%SS:	92	250	92	97	6.15	250	95	95	0	70 - 130	20	70 - 130	20

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

### BATCH 32507 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712499-006A	12/13/07 2:50 PM	12/14/07	12/17/07 12:47 PM				

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

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

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

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



### QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0712499

EPA Method 6010C	Extraction SW3050B			BatchID: 32507			Spiked Sample ID: 0712366-003A					
	Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	9.6	10	86.2	90	3.54	93.9	91.8	2.34	75 - 125	20	80 - 120	20
%SS:	92	250	92	97	6.15	95	95	0	70 - 130	20	70 - 130	20

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

BATCH 32507 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712499-006A	12/13/07 2:50 PM	12/14/07	12/17/07 12:47 PM				

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

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

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

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.



### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0712499

Analyte	EPA Method SW8021B/8015Cm		Extraction SW5030B			BatchID: 32538			Spiked Sample ID: 0712402-002A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) <sup>£</sup>	ND	0.60	107	112	4.31	114	117	2.36	70 - 130	30	70 - 130	30
MTBE	ND	0.10	112	117	4.03	104	121	15.5	70 - 130	30	70 - 130	30
Benzene	ND	0.10	99.6	101	1.63	102	111	8.09	70 - 130	30	70 - 130	30
Toluene	ND	0.10	89.7	91.6	2.10	92.9	98.9	6.20	70 - 130	30	70 - 130	30
Ethylbenzene	ND	0.10	101	105	3.55	104	107	3.04	70 - 130	30	70 - 130	30
Xylenes	ND	0.30	96.3	100	3.74	103	103	0	70 - 130	30	70 - 130	30
%SS:	86	0.10	103	101	1.17	89	95	6.14	70 - 130	30	70 - 130	30

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

#### BATCH 32538 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712499-006A	12/13/07 2:50 PM	12/14/07	12/17/07 3:14 PM				

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

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

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.



### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0712499

EPA Method SW8021B/8015Cm		Extraction SW5030B			BatchID: 32590			Spiked Sample ID: 0712552-001A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) <sup>£</sup>	ND	60	83.6	110	27.0	99.6	100	0.913	70 - 130	30	70 - 130	30
MTBE	ND	10	95.9	100	4.67	98.6	96.6	2.00	70 - 130	30	70 - 130	30
Benzene	ND	10	97.7	87.1	11.5	100	97.9	2.58	70 - 130	30	70 - 130	30
Toluene	ND	10	103	103	0	104	104	0	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	106	104	1.91	106	108	2.37	70 - 130	30	70 - 130	30
Xylenes	ND	30	96.7	113	15.9	96.7	96.7	0	70 - 130	30	70 - 130	30
%SS:	99	10	108	88	20.6	113	111	1.33	70 - 130	30	70 - 130	30

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

#### BATCH 32590 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712499-007A	12/13/07 3:00 PM	12/18/07	12/18/07 12:54 AM				

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

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

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.





### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0712499

EPA Method SW8015C		Extraction SW3550C			BatchID: 32516			Spiked Sample ID: 0712382-001A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	ND	20	95.8	95.3	0.487	112	116	2.85	70 - 130	30	70 - 130	30
%SS:	101	50	101	101	0	129	119	7.91	70 - 130	30	70 - 130	30

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

#### BATCH 32516 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712499-006A	12/13/07 2:50 PM	12/14/07	12/20/07 2:51 PM				

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

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

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

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.



### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0712499

EPA Method SW8015C		Extraction SW3510C			BatchID: 32588			Spiked Sample ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	N/A	1000	N/A	N/A	N/A	113	112	1.69	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	116	117	1.43	N/A	N/A	70 - 130	30

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

#### BATCH 32588 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712499-007C	12/13/07 3:00 PM	12/14/07	12/18/07 7:25 PM				

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

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

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

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.