

## **Detterman, Mark, Env. Health**

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**From:** Foss, Bob (Robert) [bfoss@croworld.com]  
**Sent:** Friday, February 04, 2011 12:26 PM  
**To:** Detterman, Mark, Env. Health  
**Cc:** versaillesrx@aol.com  
**Subject:** 4th quarter 2010 analytic results for MW-4, Former Olympic Station (RO0000373)  
**Attachments:** 629100-4Q10 Analytical\_1012475.pdf

Mr. Detterman:

I have discussed with Eric Syrstad, former CRA PM for this site, the agreement previously reached regarding the quarterly sampling of newly installed well MW-4. Eric told me that you and he (or perhaps Steven Plunkett and he) agreed that well MW-4 would be sampled quarterly for a period of one year, but that the results of the sampling would be included in the semi-annual reports and not as a separate report submittal. Your letter of January 28, 2011 requests submittal of the Third (sic) Quarter Groundwater Monitoring Report (MW-4 only) by February 18, 2011. To fulfill your request, I am attaching the analytic report of the December 14, 2010 sampling of well MW-4 for your review. All four wells were sampled on February 4 (yesterday) and we will submit the First 2011 Semi-Annual Groundwater Monitoring Report upon its completion. We will submit to you for review a Sub-Slab Vapor Survey Workplan by the requested date of April 1. However, as you are aware, permitting and scheduling occasionally cause delays in implementation so "60 Days After Workplan Approval" may not be realistic for submittal of the investigation report. We will advise you ahead of time if this deadline cannot be met.

Please feel free to contact me if you have any questions regarding the analytic data attached.

**Robert C. Foss, P.G.**  
**Conestoga-Rovers & Associates (CRA)**  
**5900 Hollis Street, Suite A**  
**Emeryville, CA 94608**  
**(510) 420-3348 office**  
**(925) 413-8707 cell**  
**(510) 420-9170 fax**



**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

Conestoga-Rovers & Associates  5900 Hollis St, Suite A  Emeryville, CA 94608	Client Project ID: #629100; Encinal Properties-Former Olympic Station	Date Sampled: 12/14/10
		Date Received: 12/14/10
	Client Contact: Bob Foss	Date Reported: 12/20/10
	Client P.O.:	Date Completed: 12/20/10

**WorkOrder: 1012475**

December 20, 2010

Dear Bob:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **#629100; Encinal Properties-Former Olympic Station**
- 2) A QC report for the above sample,
- 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.



**McCAMPBELL ANALYTICAL, INC.**

1534 WILLOW PASS ROAD  
PITTSBURG, CA 94565-1701

Website: [www.mccampbell.com](http://www.mccampbell.com) Email: [main@mccampbell.com](mailto:main@mccampbell.com)  
Telephone: (877) 252-9262 Fax: (925) 252-9269

1012475

Bub Fosus per email

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME

RUSH  24 HR  48 HR  72 HR  5 DAY

GeoTracker EDF  PDF  Excel  Write On (DW)

Check if sample is effluent and "J" flag is required

Report To: <u>Eric Syrstad</u>		Bill To: <u>Conestoga-Revers &amp; Associates</u>		Analysis Request										Other	Comments																				
Company: <u>Conestoga-Revers &amp; Associates</u>		E-Mail: <u>esyrstad@conestoga.com</u>													**Indicate here if these samples are potentially dangerous to handle:																				
5900 Hill St, Ste A Emerville, CA		Fax: (510) 420-9170																																	
Tele: (510) 420-3317		Project Name: <u>Enclina Properties Former Olympic Station</u>																																	
Project #: <u>629100</u>		Project Location: <u>1436 Grant Ave, San Lorenzo, CA</u>																																	
Project Location: <u>1436 Grant Ave, San Lorenzo, CA</u>		Sampler Signature: <u>Muskan Environmental Sampling</u>																																	
SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED		BTEX & TPH as Gas (602 / 8021 + 8015) TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505 / 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFF 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis	MTE bt 826013						
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL																		HNO <sub>3</sub>	Other				
✓ MW-4		12/14/10	14:05	3	VOL	X					X	X																							

\*\*MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: <u>[Signature]</u>	Date: <u>12/14/10</u>	Time: <u>1529</u>	Received By: <u>[Signature]</u>	COMMENTS: ICE# <u>9.6</u> GOOD CONDITION <input checked="" type="checkbox"/> HEAD SPACE ABSENT <input checked="" type="checkbox"/> DECHLORINATED IN LAB <input checked="" type="checkbox"/> APPROPRIATE CONTAINERS <input checked="" type="checkbox"/> PRESERVED IN LAB <input type="checkbox"/>  VOAS <input checked="" type="checkbox"/> O&G METALS OTHER PRESERVATION <input checked="" type="checkbox"/> pH < 2
Relinquished By: <u>[Signature]</u>	Date:	Time:	Received By:	
Relinquished By:	Date:	Time:	Received By:	

# McC Campbell Analytical, Inc.



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

# CHAIN-OF-CUSTODY RECORD

**WorkOrder: 1012475**

**ClientCode: CETE**

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

<b>Report to:</b>		<b>Bill to:</b>	<b>Requested TAT: 5 days</b>
Bob Foss	Email: bfoss@croworld.com, chee@croworld.co	Accounts Payable	
Conestoga-Rovers & Associates	cc:	Conestoga-Rovers & Associates	<i>Date Received: 12/14/2010</i>
5900 Hollis St, Suite A	PO:	5900 Hollis St, Ste. A	<i>Date Printed: 12/15/2010</i>
Emeryville, CA 94608	ProjectNo: #629100; Encinal Properties-Former	Emeryville, CA 94608	
(510) 420-3369    FAX (510) 420-9170	Olympic Station		

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1012475-001	MW-4	Water	12/14/2010 14:05	<input type="checkbox"/>	A	B	A										

**Test Legend:**

1	G-MBTEX_W	2	MTBE_W	3	PREFD REPORT	4		5	
6		7		8		9		10	
11		12							

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
 Hazardous samples will be returned to client or disposed of at client expense.



### Sample Receipt Checklist

Client Name: **Conestoga-Rovers & Associates** Date and Time Received: **12/14/2010 4:14:20 PM**  
Project Name: **#629100; Encinal Properties-Former Olympic Statio** Checklist completed and reviewed by: **Maria Venegas**  
WorkOrder N°: **1012475** Matrix Water Carrier: Client Drop-In

#### 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: 9.6°C NA   
Water - VOA vials have zero headspace / no bubbles? Yes  No  No VOA vials submitted   
Sample labels checked for correct preservation? Yes  No   
Metal - pH acceptable upon receipt (pH<2)? Yes  No  NA   
Samples Received on Ice? Yes  No   
(Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

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Client contacted: Date contacted: Contacted by:

Comments:



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Conestoga-Rovers & Associates  5900 Hollis St, Suite A  Emeryville, CA 94608	Client Project ID: #629100; Encinal Properties-Former Olympic Station	Date Sampled: 12/14/10
	Client Contact: Bob Foss	Date Received: 12/14/10
	Client P.O.:	Date Analyzed 12/15/10
		Date Extracted: 12/15/10

### Methyl tert-Butyl Ether\*

Extraction method SW5030B

Analytical methods SW8260B

Work Order: 1012475

Lab ID	Client ID	Matrix	Methyl-t-butyl ether (MTBE)	DF	% SS	Comments
001B	MW-4	W	240	10	108	b6

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	0.5	µg/L
	S	NA	NA

\* 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/method detection limit; N/A means analyte not applicable to this analysis.

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

%SS = Percent Recovery of Surrogate Standard  
DF = Dilution Factor

b6) lighter than water immiscible sheen/product is present

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Conestoga-Rovers & Associates  5900 Hollis St, Suite A  Emeryville, CA 94608	Client Project ID: #629100; Encinal Properties-Former Olympic Station	Date Sampled: 12/14/10
	Client Contact: Bob Foss	Date Received: 12/14/10
	Client P.O.:	Date Extracted: 12/17/10
		Date Analyzed: 12/17/10

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1012475

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	MW-4	W	6800	---	260	3.7	25	2.8	5	89	d1,b6

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	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

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

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

b6) lighter than water immiscible sheen/product is present  
d1) weakly modified or unmodified gasoline is significant



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 55010

WorkOrder 1012475

EPA Method SW8021B/8015Bm		Extraction SW5030B							Spiked Sample ID: 1012468-002A			
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>f</sup>	ND	60	99.8	99.4	0.414	97.7	100	2.42	70 - 130	20	70 - 130	20
MTBE	ND	10	118	119	1.09	118	123	4.55	70 - 130	20	70 - 130	20
Benzene	ND	10	113	113	0	110	117	5.77	70 - 130	20	70 - 130	20
Toluene	ND	10	100	99.1	1.13	99	103	4.43	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	98.3	98.2	0.111	98.3	102	3.44	70 - 130	20	70 - 130	20
Xylenes	ND	30	112	111	1.11	111	115	3.15	70 - 130	20	70 - 130	20
%SS:	99	10	104	104	0	103	107	3.28	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 55010 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1012475-001A	12/14/10 2:05 PM	12/17/10	12/17/10 11:56 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.

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

NR = matrix interference and/or 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, or inconsistency in sample containers.





**QC SUMMARY REPORT FOR SW8260B**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 55032

WorkOrder 1012475

EPA Method SW8260B		Extraction SW5030B							Spiked Sample ID: 1012447-006A			
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
Methyl-t-butyl ether (MTBE)	ND	10	98.8	108	8.55	99.2	103	3.38	70 - 130	30	70 - 130	30
%SS1:	104	25	98	101	2.87	89	90	0.579	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 55032 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1012475-001B	12/14/10 2:05 PM	12/15/10	12/15/10 6:17 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.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.