



May 12, 2008

CQI Report to Stakeholders

## Subject: March 2008 Condensate Results

As of January 1, 2008, the Crude Quality Monitoring Project has modified its condensate testing program. We acknowledge that industry requirements and specifications are different for condensates than for other types of crude. As such, we have updated our condensate testing program in an effort to provide the industry with reliable, accurate, and usable information specifically relevant to condensates. We believe that this information will be valuable for numerous industry purposes, such as better blending data and formulating condensate specifications and guidelines. Should you have any questions regarding this report, or the modified condensate testing program, please contact Crude Quality Inc. at (780) 991-9900 or at lywood@crudequality.com.

### Observations:

Attached are detailed liquid hydrocarbon and trace sulphur analyses, as well as historical data from crudemonitor.ca pertaining to typical light ends and bulk properties for Condensate Blend (CRW).

In addition to the attached, we note the following testing results:

	Sample Date	Batch #	Sulphur (wt%)	API Gravity (degree)	Absolute Density (kg/m <sup>3</sup> )	MCR (wt%)	Viscosity @ 7.5° C (cSt)	RVP (kPa)	Total Mercaptans (ppm)	Olefins (wt%)
Current Data	3/17/2008	CRW-768	0.21	65.4	717.9	0.30	0.83	73.9	90	-
Average To Date			0.17	64.7	720.6	0.23	0.79	74.8	105	4 x ND
Std Dev.			0.7	2.1	7.8	0.14	0.06	1.2	21	-
Avg+StdDev			0.23	66.8	728.4	0.38	0.85	76.0	125	-
Avg-StdDev			0.10	62.6	712.9	0.09	0.72	73.6	84	-

Sulphur, density, and MCR data in March were consistent with historical data. More data will need to be collected to comment on the attached hydrocarbon and trace sulphur analyses.



# C30+ COMPOSITIONAL ANALYSIS

A815253:J40817

MaxxID

Client ID

Meter Number

Laboratory Number

CRUDE QUALITY INC.

Operator Name

LSD

Well ID

CRUDE QUALITY INC.

ENBRIDGE

Well Name

Initials of Sampler

Sampling Company

CONDENSATE BLEND CRW-768

1L CAN

Field or Area

Pool or Zone

Sample Point

Container Identity

Percent Full

Test Recovery

Interval 1 Interval 2 Interval 3

Elevations (m)

Sample Gathering Point

Solution Gas

Test Type No. Multiple Recovery

From: To:

KB GRD

Well Fluid Status

Well Status Mode

Production Rates

Gauge Pressures kPa

Temperature °C

Well Status Type

Well Type

Water m3/d Oil m3/d Gas 1000m3/d

Source As Received

Source As Received

Gas or Condensate Project

Licence No.

2008/03/17

2008/04/04

2008/05/01

GM1

Date Sampled Start

Date Sampled End

Date Received

Date Reported

Date Reissued

Analyst

## COMPOSITION

COMPONENT	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
N2			
CO2			
H2S			
C1	0.0000	0.0000	0.0000
C2	Trace	Trace	Trace
C3	0.0034	0.0015	0.0021
IC4	0.0085	0.0048	0.0061
NC4	0.0434	0.0244	0.0302
IC5	0.1441	0.1008	0.1167
NC5	0.1414	0.0989	0.1132
C6	0.1570	0.1315	0.1423
C7+	0.5022	0.6381	0.5894
TOTAL	1.0000	1.0000	1.0000

## PROPERTIES

RESIDUE	RELATIVE DENSITY @ 15 °C		RELATIVE MOLECULAR MASS		DATA SUMMARY		
	OBSERVED	CALCULATED	OBSERVED	CALCULATED	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
C5+		0.728		106	0.9447	0.9693	0.9616
C6+		0.760		120	0.6592	0.7696	0.7317
C7+	0.782		134	131	0.5022	0.6381	0.5894
C10+					0.1588	0.2945	0.2551
C12+					0.0856	0.1947	0.1620
TOTAL		0.723		103			

Calculated Absolute Density Total Sample:  
Gas Equivalent Factor:

722.3 kg/m3 @ 15°C  
163.29 m3 Gas/m3 Liquid

\*\* Information not supplied by client -- data derived from LSD information

Results relate only to items tested

Remarks:



# C30+ COMPOSITIONAL ANALYSIS

CRUDE QUALITY INC.

A815253:J40817

Operator Name

Laboratory Number

CRUDE QUALITY INC.

CONDENSATE BLEND CRW-768

Well Name

Sample Point

ENBRIDGE

Sampling Company

MaxxID

Client ID

2008/03/17

2008/04/04

2008/05/01

GM1

Date Sampled Start

Date Sampled End

Date Received

Date Reported

Date Reissued

Analyst

COMPONENT	BOILING POINT (°C)	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
Nitrogen	-196			
Carbon Dioxide	-79			
Hydrogen Sulphide	-60			
Methane	-162	0.0000	0.0000	0.0000
Ethane	-89	Trace	Trace	Trace
Propane	-42	0.0034	0.0015	0.0021
Iso-Butane	-12	0.0085	0.0048	0.0061
n-Butane	0	0.0434	0.0244	0.0302
Iso-Pentane	28	0.1441	0.1008	0.1167
n-Pentane	36	0.1414	0.0989	0.1132
Hexanes	37-69	0.1570	0.1315	0.1423
Heptanes	70-98	0.1512	0.1365	0.1353
Octanes	99-126	0.1238	0.1273	0.1233
Nonanes	127-151	0.0684	0.0798	0.0757
Decanes	152-174	0.0434	0.0573	0.0548
Undecanes	175-196	0.0298	0.0425	0.0383
Dodecanes	197-216	0.0188	0.0293	0.0260
Triadecanes	217-236	0.0126	0.0213	0.0186
Tetradecanes	237-253	0.0084	0.0154	0.0133
Pentadecanes	254-271	0.0062	0.0123	0.0105
Hexadecanes	272-287	0.0046	0.0101	0.0085
Heptadecanes	288-302	0.0042	0.0097	0.0081
Octadecanes	303-317	0.0033	0.0081	0.0067
NonaDecanes	318-331	0.0029	0.0072	0.0060
Eicosanes	332-343	0.0024	0.0063	0.0051
Heneicosanes	344-357	0.0024	0.0067	0.0055
Docosanes	358-369	0.0020	0.0057	0.0045
Triacosanes	370-380	0.0020	0.0060	0.0048
Tetracosanes	381-391	0.0019	0.0057	0.0045
Pentacosanes	392-402	0.0018	0.0057	0.0045
Hexacosanes	403-412	0.0015	0.0051	0.0040
Heptacosanes	413-422	0.0014	0.0050	0.0039
Octacosanes	423-432	0.0012	0.0046	0.0036
Nonacosanes	433-441	0.0012	0.0045	0.0035
triacontanes+	442-449+	0.0068	0.0260	0.0204
Totals		1.0000	1.0000	1.0000
neoHexane	50	0.0000	0.0000	0.0000
Methylcyclopentane	70	0.0324	0.0264	0.0250
Benzene	80	0.0091	0.0069	0.0055
Cyclohexane	81	0.0250	0.0203	0.0185
Methylcyclohexane	101	0.0357	0.0339	0.0314
Toluene	111	0.0154	0.0137	0.0113
Ethylbenzene	136	0.0036	0.0037	0.0031
m&p-Xylene	139	0.0124	0.0128	0.0105
o-Xylene	144	0.0034	0.0035	0.0028
1,2,4-Trimethylbenzene	169	0.0051	0.0061	0.0049

\*\* Information not supplied by client -- data derived from LSD information

Results relate only to items tested

Remarks:



# TRACE SULPHUR ANALYSIS

A815253:J40818

MaxxID		Client ID		Meter Number		Laboratory Number	
CRUDE QUALITY INC.				LSD		Well ID	
Operator Name				ENBRIDGE		Sampling Company	
CRUDE QUALITY INC.				CONDENSATE BLEND CRW-768		1L CAN	
Well Name				Initials of Sampler		Container Identity	
Field or Area		Pool or Zone		Sample Point		Percent Full	
Test Recovery		Interval 1 Interval 2 Interval 3		Elevations (m)		Sample Gathering Point	
From:		To:		KB GRD		Well Fluid Status	
Test Type No. Multiple Recovery		Gauge Pressures kPa		Temperature °C		Well Status Mode	
Production Rates		Source As Received		23.0		Well Status Type	
Water m3/d Oil m3/d Gas 1000m3/d		Source As Received		Source As Received		Well Type	
2008/03/17		2008/04/04		2008/05/01		2008/05/01	
Date Sampled Start		Date Sampled End		Date Received		Date Reported	
						AG	
						Analyst	

COMPOSITION			Boiling Pt. (°C)	Sulphur mole ppm	Sulphur mass ppm	PROPERTIES
Component	Common Name					
Hydrogen Sulphide	H2S		-60.4	<0.5	<0.5	Molecular Wt. (gmole) Measured
Carbonyl Sulphide	COS		-50	<0.5	<0.5	
Methanethiol	Methyl mercaptan		6.2	2.3	0.6	
Ethanethiol	Ethyl mercaptan		35	56.5	15.7	Molecular Wt. (gmole) Calculated
Dimethyl Sulphide	DMS		38	23.4	6.5	
Carbon Disulphide	CS2		46.5	4.3	1.2	
Iso-Propanethiol	Iso-propyl mercaptan		58	117.5	32.7	Onsite H2S ppm(mole) mole%
t-Butanethiol	tert-butyl mercaptan		64	22.9	6.4	
Methyl Ethyl Sulphide	MES		67	14.5	4.0	
n-Propanethiol	Propyl mercaptan		70	15.5	4.3	
Unknown			36-69	<0.5	<0.5	
Thiophene/sec-Butanethiol	Thiophene/sec-Butyl mercaptan		84/90	74.8	20.8	
Diethyl Sulphide	DES		92.1	7.1	2.0	
Iso-Butanethiol	Iso-butyl mercaptan		99	3.3	0.9	
n-Butanethiol	Butyl mercaptan		98	6.0	1.7	
Unknown			71-97	6.5	1.8	
Dimethyl Disulphide	DMDS		110	21.6	6.0	
n-Pentanethiol	Pentyl mercaptan		127	2.1	0.6	
Unknown			100-126	67.4	18.7	
n-Hexanethiol	Hexyl mercaptan		151	20.4	5.7	
Unknown			127-150	86.5	24.1	
n-Heptanethiol	Heptyl mercaptan		177	2.3	0.6	
Unknown			152-176	123.0	34.2	
Total Sulphur				4118	1146.0	
Mercaptan Sulphur on Naphtha fraction (IBP 204°C) ASTM D3227 (mass%) Naphtha IBP 204°C (volume %) Elemental Sulphur (mass ppm)						

\*\* Information not supplied by client -- data derived from LSD information

Results relate only to items tested

Remarks:

## Light Crude Quality Project Analyses Summary (December 2007)

Crude	Sample Date	No. Samples or Batch #	Sulphur (wt%)	API Density (degree)	Absolute Density (kg/m3)	Sediment (ppmw)	MCR (wt%)	Salt (ptb)	TAN (mgKOH/g)	Nickel (mg/L)	Vanadium (mg/L)
<b>CRW Condensate Blend</b>											
	2005 Q2	3	0.17	62.9	727.0		0.2			43.5	4.8
	2005 Q3	3	0.16	63.3	725.8		0.4			17.9	2.4
	2005 Q4	3	0.17	63.6	724.6		0.3				3.6
	2006 Q1	4	0.16	64.8	720.2		0.3				6.8
	2006 Q2	3	0.21	63.3	725.9		0.3				1.4
	2006 Q3	2	0.17	62.1	730.2		0.2				1.2
	2006 Q4	2	0.13	67.0	712.2		0.1				
	2007 Q1	3	0.13	65.4	718.1		0.2				
	2007 Q2	3	0.10	67.6	710.3		0.1				
	2007 Q3	3	0.13	65.7	717.0		0.2				
	2007 Q4	3	0.22	64.8	720.3		0.2				1.6
	2008 Q1	1	0.39	65.1	719.2		0.4				
	12/1/2007	CRW-753	0.15	67.6	710.2		0.1				
	1/1/2008	CRW-757	0.39	65.1	719.2		0.4				
	<b>Average</b>		<b>0.17</b>	<b>64.6</b>	<b>721.0</b>		<b>0.2</b>			<b>35.0</b>	<b>3.2</b>
	<b>Std Dev</b>		<b>0.07</b>	<b>2.1</b>	<b>7.7</b>		<b>0.1</b>			<b>13.1</b>	<b>2.0</b>
	<b>Avg + StdDev</b>		<b>0.24</b>	<b>66.7</b>	<b>728.7</b>		<b>0.4</b>			<b>48.1</b>	<b>5.2</b>
	<b>Avg - StdDev</b>		<b>0.10</b>	<b>62.5</b>	<b>713.3</b>		<b>0.1</b>			<b>21.9</b>	<b>1.2</b>

## Light Crude Quality Project Light Ends Summary (December 2007)

Crude Sample Date	Count of Batches or Batch No.	Ethane (vol%)	Propane (vol%)	Butanes (vol%)	Pentanes (vol%)	Hexanes (vol%)	Heptanes (vol%)	Octanes (vol%)	Nonanes (vol%)	Decanes (vol%)	Benzene (vol%)	Toluene (vol%)	Ethyl Benzene (vol%)	Xylenes (vol%)	
<b>CRW Condensate Blend</b>															
2005 Q2	3	0.02	0.32	3.54	23.63	21.20	15.23	10.08	5.12	2.28	1.15	2.10	0.23	1.86	
2005 Q3	3	0.02	0.23	3.23	23.45	21.28	16.37	10.77	5.51	2.45	1.23	2.34	0.25	2.03	
2005 Q4	3	0.02	0.23	3.15	21.79	21.60	16.33	11.80	6.09	2.40	1.16	2.26	0.30	2.13	
2006 Q1	4	0.02	0.19	2.76	22.50	22.77	14.89	10.86	6.18	2.49	1.23	2.07	0.28	1.92	
2006 Q2	3	0.02	0.27	3.42	22.51	19.93	15.65	10.90	5.69	2.30	1.06	2.08	0.26	1.86	
2006 Q3	2	0.02	0.28	2.96	20.36	19.74	16.38	11.82	6.08	2.52	1.06	2.19	0.29	2.06	
2006 Q4	2	0.02	0.22	3.37	25.43	22.50	15.32	10.35	5.29	2.09	1.13	2.00	0.25	1.82	
2007 Q1	3	0.02	0.24	3.33	24.64	24.26	15.17	10.54	5.29	2.17	1.27	2.10	0.27	1.93	
2007 Q2	3	0.02	0.20	3.22	25.40	23.30	15.51	10.59	5.37	1.96	1.25	2.15	0.27	1.86	
2007 Q3	3	0.02	0.24	3.42	23.97	20.53	15.46	10.25	5.10	2.08	1.08	2.13	0.25	1.82	
2007 Q4	3	0.02	0.26	3.49	24.77	21.60	16.06	11.39	5.70	2.22	1.08	2.15	0.30	1.97	
2008 Q1	1	0.02	0.21	3.06	25.40	21.80	16.14	11.48	5.53	2.05	1.07	2.13	0.31	1.99	
12/1/2007	CRW-753	0.02	0.18	2.89	26.08	22.84	16.97	11.76	5.53	2.07	1.14	2.22	0.3	1.94	
1/1/2008	CRW-757	0.02	0.21	3.06	25.4	21.8	16.14	11.48	5.53	2.05	1.07	2.13	0.31	1.99	
<b>Average</b>		<b>0.02</b>	<b>0.24</b>	<b>3.25</b>	<b>23.56</b>	<b>21.77</b>	<b>15.65</b>	<b>10.85</b>	<b>5.59</b>	<b>2.27</b>	<b>1.16</b>	<b>2.14</b>	<b>0.27</b>	<b>1.93</b>	
<b>Std Dev</b>		<b>0.01</b>	<b>0.06</b>	<b>0.34</b>	<b>2.28</b>	<b>1.95</b>	<b>0.94</b>	<b>0.96</b>	<b>0.65</b>	<b>0.30</b>	<b>0.12</b>	<b>0.16</b>	<b>0.04</b>	<b>0.16</b>	
<b>Avg + StdDev</b>		<b>0.03</b>	<b>0.30</b>	<b>3.59</b>	<b>25.84</b>	<b>23.72</b>	<b>16.59</b>	<b>11.82</b>	<b>6.24</b>	<b>2.56</b>	<b>1.28</b>	<b>2.30</b>	<b>0.31</b>	<b>2.09</b>	
<b>Avg - StdDev</b>		<b>0.01</b>	<b>0.18</b>	<b>2.91</b>	<b>21.28</b>	<b>19.82</b>	<b>14.71</b>	<b>9.89</b>	<b>4.94</b>	<b>1.97</b>	<b>1.04</b>	<b>1.99</b>	<b>0.23</b>	<b>1.78</b>	