ALS LABORATORY GROUP – COAL DIVISION
RICHMOND BC CANADA
11191 Coppersmith Place, Richmond BC V7A 5H1 Canada
Tel: +1 604 241 3166 Fax: +1 604 241 3126 Email: adrian.reifenstein@alsglobal.com

CERTIFICATE OF ANALYSIS

Preliminary Report
Final Report

31-Jul-12

Coal Valley Resources Inc.
1600 Oxford Tower
10235-101 Street
Edmonton,AB
T5J 3G1,Canada

WORKORDER: RC12020553

Hole: RT-11-339C
Seam: Arbour
Diameter: 63.5mm
Depth: 48.2m to 55.9m
Plies: A,B,D1,D2

ANALYSIS

ASTM Standard of Analysis

FLOAT SINK ANALYSIS — **AIR-DRIED BASIS**

CUMULATIVE WEIGHT % SIZE: +12.5mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.35	6.3	6.3	7.29	5.84	6503	0.0
S1.35 - F1.40	10.5	16.8	7.17	8.21	6319	0.0
S1.40 - F1.45	7.2	24.0	7.02	10.63	6148	0.0
S1.45 - F1.50	6.9	31.0	6.89	13.03	5960	0.0
S1.50 - F1.55	6.6	37.5	6.74	15.69	5768	0.0
S1.55 - F1.60	7.5	45.1	6.63	18.36	5561	0.0
S1.60 - F1.70	13.3	58.4	6.25	22.54	5208	-
S1.70 - F1.80	9.8	68.2	6.04	26.31	4920	-
S1.80 - F1.90	9.5	77.7	5.83	29.79	4621	-
S1.90 - F2.00	7.2	84.9	5.64	32.98	4392	-
S2.00	15.1	100.0	5.52	39.98	3830	-

D4371
D3172
D4239
D720

CUMULATIVE WEIGHT % SIZE: 12.5mm x 1.0mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.2	0.2	7.19	3.58	6849	0.0
S1.30 - F1.35	24.3	24.5	7.80	3.32	6584	0.0
S1.35 - F1.40	21.2	45.7	7.50	5.69	6430	0.0
S1.40 - F1.45	10.1	55.8	7.34	7.26	6322	0.0
S1.45 - F1.50	7.7	63.6	7.23	8.69	6220	0.0
S1.50 - F1.55	5.6	69.2	7.14	9.96	6127	0.0
S1.55 - F1.60	3.4	72.6	7.09	10.92	6055	0.0
S1.60 - F1.70	6.3	78.9	6.98	13.07	5893	-
S1.70 - F1.80	4.4	83.3	6.89	14.88	5756	-
S1.80 - F1.90	3.8	87.2	6.79	16.69	5615	-
S1.90 - F2.00	3.9	91.1	6.68	18.77	5452	-
S2.00	8.9	100.0	6.36	23.56	5057	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
S1.30 - F1.35	25.3	25.3	7.49	2.55	6591	0.0
S1.35 - F1.40	22.1	47.4	7.29	4.04	6490	0.0
S1.40 - F1.45	7.9	55.3	7.20	5.13	6414	0.0
S1.45 - F1.50	5.1	60.4	7.13	6.00	6352	0.0
S1.50 - F1.55	4.9	65.3	7.08	6.91	6282	0.0
S1.55 - F1.60	3.3	68.5	7.05	7.70	6222	0.0
S1.60 - F1.70	4.4	72.9	7.00	9.16	6107	-
S1.70 - F1.80	3.3	76.2	6.94	10.58	5997	-
S1.80 - F1.90	2.5	78.8	6.90	11.87	5897	-
S1.90 - F2.00	2.8	81.6	6.84	13.47	5773	-
S2.00	18.4	100.0	6.21	24.62	4821	-

FROTH FLOTATION

CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm						
TIME	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
15 SEC (P2)	1.3	1.3	5.29	11.84	6311	0.0
30 SEC (P3)	0.5	1.8	-	12.15	-	0.0
60 SEC (P4)	0.3	2.2	-	12.36	-	0.0
90 SEC (P5)	0.2	2.4	-	12.56	-	0.0
Tails (T2)	2.8	5.2	-	34.34	-	0.0
Tails (T1)	94.8	100.0	-	64.25	-	0.0

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm		
Mois %	Ash %	CV (kcal/kg)
5.16	77.13	833

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
Laboratory Manager

Robb Trend Project

Coal Sample Results – 2012 Core Program

RT-11-420C

Arbour Seam

Sample Horizon: 35.7 to 41.3

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WORKORDER: RC12020558

Hole: RT-11-420C
Seam: Arbour
Diameter: 63.5mm
Depth: 35.7m to 41.3m
Plies:

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	1755	8.3
-50	19295	91.7

We certify the analysis reported hereon was determined in accordance with the modified procedure for Drop Shatter Testing.

<original signed by>

Brett Warden
Laboratory Manager

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WORKORDER: RC12020558

Hole: RT-11-420C
Seam: Arbour
Diameter: 63.5mm
Depth: 35.7m to 41.3m
Plies:

DRY SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	2429	11.5	11.5
-31.5+25	1351	6.4	18.0
-25+16	2488	11.8	29.8
-16+8	3318	15.8	45.5
-8+4	3023	14.4	59.9
-4+2	2851	13.5	73.4
-2	5591	26.6	100.0

***All losses allocated to -2mm fraction**

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

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WORKORDER: RC12020558

Hole: RT-11-420C
Seam: Arbour
Diameter: 63.5mm
Depth: 35.7m to 41.3m
Plies:

WET SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	783	5.0	5.0
+25	453	2.9	7.9
+16	928	5.9	13.8
+12.5	631	4.0	17.8
+8	1583	10.1	27.9
+4	2792	17.8	45.7
+2	2785	17.8	63.5
+1	2354	15.0	78.5
+0.5	1196	7.6	86.1
+0.25	678	4.3	90.5
+0.15	295	1.9	92.3
+0.063	365	2.3	94.7
+0.038	129	0.8	95.5
-0.038	706	4.5	100.0

***All losses allocated to -0.038mm fraction**

Sample was attrited in maximum 50kg lots with 18 cubes and 150 L of water or equivalent mass for 5 min @ 20 rpm

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Depth: 35.7m to 41.3m
Plies:

ANALYSIS

ASTM Standard of Analysis

FLOAT SINK ANALYSIS — **AIR-DRIED BASIS**

SIZE: +12.5mm							
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI	
F1.35	131	4.7	7.22	6.26	6517	0.0	D4371
S1.35 - F1.40	275	9.9	6.80	12.60	6058	0.0	D3172
S1.40 - F1.45	235	8.5	6.62	16.85	5731	0.0	D4239
S1.45 - F1.50	307	11.1	6.25	22.41	5318	0.0	D720
S1.50 - F1.55	188	6.8	5.71	27.70	4957	0.0	
S1.55 - F1.60	173	6.2	5.21	33.28	4530	0.0	
S1.60 - F1.70	105	3.8	4.65	36.41	4165	*	
S1.70 - F1.80	358	12.9	4.15	51.09	3214	*	
S1.80 - F1.90	332	12.0	3.63	55.83	2572	*	
S1.90 - F2.00	345	12.5	3.05	59.96	2006	*	
S2.00	324	11.7	2.44	73.51	1199	*	

SIZE: -12.5mm x +1.0mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	63	1.1	7.75	2.92	6639	0.0
S1.30 - F1.35	1595	26.5	7.72	4.44	6481	0.0
S1.35 - F1.40	1442	24.0	7.23	9.22	6194	0.0
S1.40 - F1.45	709	11.8	6.88	14.74	5781	0.0
S1.45 - F1.50	394	6.6	6.40	19.56	5426	0.0
S1.50 - F1.55	335	5.6	6.16	24.51	5039	0.0
S1.55 - F1.60	214	3.6	5.95	29.74	4628	0.0
S1.60 - F1.70	257	4.3	5.51	36.10	4136	*
S1.70 - F1.80	182	3.0	4.93	46.00	3365	*
S1.80 - F1.90	171	2.8	4.55	54.76	2689	*
S1.90 - F2.00	173	2.9	4.06	63.15	1992	*
S2.00	483	8.0	2.69	78.57	872	*

SIZE: 1mm x 0.15mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.35	302	28.0	7.92	2.89	6536	0.0
S1.35 - F1.40	236	21.9	7.67	5.90	6307	0.0
S1.40 - F1.45	85	7.9	7.08	11.33	5958	0.0
S1.45 - F1.50	58	5.4	6.60	15.03	5698	0.0
S1.50 - F1.55	53	4.9	6.52	17.57	5469	0.0
S1.55 - F1.60	38	3.6	6.55	21.99	5122	0.0
S1.60 - F1.70	48	4.4	5.89	31.38	4401	*
S1.70 - F1.80	36	3.3	5.52	42.11	3575	*
S1.80 - F1.90	22	2.1	4.76	51.39	2741	*
S1.90 - F2.00	28	2.6	4.31	58.08	2383	*
S2.00	173	16.0	3.68	71.92	874	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm						
TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	6	1.6	5.23	10.17	6433	0.0
30 SEC	1	0.4	5.08	11.97	NSS	0.0
60 SEC	1	0.4	4.92	12.98	NSS	0.0
90 SEC	0	0.1	NSS	14.37	NSS	0.0
Tails (T2)	5	1.5	6.49	41.70	3572	0.0
Tails (T1)	329	96.1	6.88	56.33	2199	0.0
PARAMETERS:	10% PULP DENSITY, COND. TIME 90 SECOND 0.667 KG/T 10:1 KERO:MIBC, DENVER CELL, 1200 RPM					

FINES

SIZE: -0.038mm		
Mois %	Ash %	GCV (kcal/kg)
6.77	70.41	1232

NSS = Not Sufficient Sample

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

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Depth: 35.7m to 41.3m
Plies:

ANALYSIS

ASTM Standard of Analysis

FLOAT SINK ANALYSIS

AIR-DRIED BASIS

CUMULATIVE WEIGHT % SIZE: +12.5mm							
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI	
F1.35	4.7	4.7	7.22	6.26	6517	0.0	D4371
S1.35 - F1.40	9.9	14.6	6.94	10.55	6207	0.0	D3172
S1.40 - F1.45	8.5	23.1	6.82	12.86	6033	0.0	D4239
S1.45 - F1.50	11.1	34.2	6.64	15.95	5801	0.0	D720
S1.50 - F1.55	6.8	41.0	6.48	17.90	5662	0.0	
S1.55 - F1.60	6.2	47.2	6.31	19.93	5512	0.0	
S1.60 - F1.70	3.8	51.0	6.19	21.15	5412	-	
S1.70 - F1.80	12.9	63.9	5.78	27.20	4968	-	
S1.80 - F1.90	12.0	75.9	5.44	31.72	4590	-	
S1.90 - F2.00	12.5	88.3	5.10	35.70	4225	-	
S2.00	11.7	100.0	4.79	40.12	3871	-	

CUMULATIVE WEIGHT % SIZE: 12.5mm x 1.0mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	1.1	1.1	7.75	2.92	6639	0.0
S1.30 - F1.35	26.5	27.6	7.72	4.38	6487	0.0
S1.35 - F1.40	24.0	51.5	7.49	6.63	6351	0.0
S1.40 - F1.45	11.8	63.3	7.38	8.14	6245	0.0
S1.45 - F1.50	6.6	69.8	7.29	9.21	6168	0.0
S1.50 - F1.55	5.6	75.4	7.20	10.34	6085	0.0
S1.55 - F1.60	3.6	79.0	7.15	11.21	6019	0.0
S1.60 - F1.70	4.3	83.2	7.06	12.49	5923	-
S1.70 - F1.80	3.0	86.3	6.99	13.67	5833	-
S1.80 - F1.90	2.8	89.1	6.91	14.98	5733	-
S1.90 - F2.00	2.9	92.0	6.82	16.48	5616	-
S2.00	8.0	100.0	6.49	21.46	5235	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.35	28.0	28.0	7.92	2.89	6536	0.0
S1.35 - F1.40	21.9	49.8	7.81	4.21	6435	0.0
S1.40 - F1.45	7.9	57.7	7.71	5.18	6370	0.0
S1.45 - F1.50	5.4	63.1	7.62	6.03	6313	0.0
S1.50 - F1.55	4.9	68.0	7.54	6.85	6252	0.0
S1.55 - F1.60	3.6	71.6	7.49	7.61	6196	0.0
S1.60 - F1.70	4.4	76.0	7.40	8.99	6092	-
S1.70 - F1.80	3.3	79.3	7.32	10.37	5986	-
S1.80 - F1.90	2.1	81.4	7.25	11.42	5904	-
S1.90 - F2.00	2.6	84.0	7.16	12.88	5793	-
S2.00	16.0	100.0	6.60	22.33	5006	-

FROTH FLOTATION

CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm						
TIME	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
15 SEC (P2)	1.6	1.6	5.23	10.17	6433	0.0
30 SEC (P3)	0.4	2.0	5.20	10.49	-	0.0
60 SEC (P4)	0.4	2.4	5.16	10.91	-	0.0
90 SEC (P5)	0.1	2.5	-	11.00	-	0.0
Tails (T2)	1.5	3.9	-	22.45	-	0.0
Tails (T1)	96.1	100.0	-	55.00	-	0.0

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm		
Mois %	Ash %	CV (kcal/kg)
6.77	70.41	1232

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
Laboratory Manager

Robb Trend Project

Coal Sample Results – 2012 Core Program

RT-11-495C

Arbour Seam

Sample Horizon: 49.0 to 57.0

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WORKORDER: RC12020550

Hole: RT-11-495C
Seam: Arbour
Diameter: 63.5mm
Depth: 49.0m to 57.0m
Plies: A,B,D1,D2

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	CI %	RD	ARD
Raw Coal	24850	6.47	22.78	30.72	40.03	0.22	5017	0.01	1.55	1.48

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Depth: 49.0m to 57.0m
Plies: A,B,D1,D2

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	2993	12.0
-50	21857	88.0

We certify the analysis reported hereon was determined in accordance with the modified procedure for Drop Shatter Testing.

<original signed by>

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Seam: Arbour
Diameter: 63.5mm
Depth: 49.0m to 57.0m
Plies: A,B,D1,D2

DRY SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	4444	17.9	17.9
-31.5+25	1798	7.2	25.1
-25+16	3258	13.1	38.2
-16+8	3907	15.7	54.0
-8+4	3196	12.9	66.8
-4+2	3381	13.6	80.4
-2	4866	19.6	100.0

***All losses allocated to -2mm fraction**

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Seam: Arbour
Diameter: 63.5mm
Depth: 49.0m to 57.0m
Plies: A,B,D1,D2

WET SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	1568	8.4	8.4
+25	975	5.2	13.6
+16	1765	9.5	23.1
+12.5	1008	5.4	28.5
+8	2028	10.9	39.4
+4	2832	15.2	54.6
+2	2959	15.9	70.5
+1	2302	12.4	82.8
+0.5	1241	6.7	89.5
+0.25	663	3.6	93.0
+0.15	287	1.5	94.6
+0.063	347	1.9	96.4
+0.038	113	0.6	97.1
-0.038	549	2.9	100.0

***All losses allocated to -0.038mm fraction**

Sample was attrited in maximum 50kg lots with 18 cubes and 150 L of water or equivalent mass for 5 min @ 20 rpm

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
Laboratory Manager

ALS LABORATORY GROUP – COAL DIVISION
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CERTIFICATE OF ANALYSIS

Preliminary Report
Final Report

31-Jul-12

Coal Valley Resources Inc.
1600 Oxford Tower
10235-101 Street
Edmonton,AB
T5J 3G1,Canada

WORKORDER: RC12020550

Hole: RT-11-495C
Seam: Arbour
Diameter: 63.5mm
Depth: 49.0m to 57.0m
Plies: A,B,D1,D2

ANALYSIS

ASTM Standard of Analysis

FLOAT SINK ANALYSIS

AIR-DRIED BASIS

SIZE: +12.5mm

S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	6	0.1	7.24	2.68	6586	0.5
S1.30 - F1.35	415	7.9	6.95	5.39	6531	0.0
S1.35 - F1.40	903	17.1	6.46	9.77	6218	0.0
S1.40 - F1.45	1058	20.0	5.76	16.12	5820	0.0
S1.45 - F1.50	595	11.3	5.96	20.51	5392	0.0
S1.50 - F1.55	434	8.2	5.52	23.76	4955	0.0
S1.55 - F1.60	400	7.6	4.92	31.29	4542	0.0
S1.60 - F1.70	768	14.5	4.58	35.39	4205	*
S1.70 - F1.80	164	3.1	3.86	42.53	3403	*
S1.80 - F1.90	233	4.4	3.31	42.69	2722	*
S1.90 - F2.00	154	2.9	3.18	48.50	2450	*
S2.00	154	2.9	2.29	74.93	1113	*

D4371
D3172
D4239
D720

SIZE: -12.5mm x +1.0mm

S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	81	1.6	6.90	2.90	6715	0.0
S1.30 - F1.35	1660	32.8	7.11	3.85	6579	0.0
S1.35 - F1.40	1042	20.6	6.57	8.86	6242	0.0
S1.40 - F1.45	620	12.2	6.23	13.86	5882	0.0
S1.45 - F1.50	336	6.6	5.82	19.12	5509	0.0
S1.50 - F1.55	243	4.8	5.59	23.42	5165	0.0
S1.55 - F1.60	157	3.1	5.07	28.47	4802	0.0
S1.60 - F1.70	210	4.1	4.78	35.20	4205	*
S1.70 - F1.80	130	2.6	4.38	43.62	3527	*
S1.80 - F1.90	105	2.1	3.86	52.07	2949	*
S1.90 - F2.00	80	1.6	3.38	59.54	2326	*
S2.00	400	7.9	2.72	73.12	1089	*

SIZE: 1mm x 0.15mm

S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.35	7	0.5	4.93	4.07	6925	0.5
S1.35 - F1.40	789	52.1	7.76	3.99	6460	0.0
S1.40 - F1.45	154	10.1	7.02	10.42	6003	0.0
S1.45 - F1.50	85	5.6	6.74	14.93	5676	0.0
S1.50 - F1.55	79	5.2	6.61	17.66	5454	0.0
S1.55 - F1.60	47	3.1	6.21	22.06	5120	0.0
S1.60 - F1.70	59	3.9	5.57	31.38	4396	*
S1.70 - F1.80	38	2.5	5.05	41.38	3606	*
S1.80 - F1.90	19	1.3	4.45	48.71	2928	*
S1.90 - F2.00	25	1.6	4.20	55.58	2462	*
S2.00	213	14.1	2.65	71.01	805	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm

TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	20	5.8	5.84	9.38	6278	0.0
30 SEC	6	1.8	6.08	9.76	3876	0.0
60 SEC	5	1.5	6.17	10.57	6056	0.0
90 SEC	3	1.0	6.34	11.60	5996	0.0
Tails (T2)	18	5.3	6.47	23.55	4919	0.0
Tails (T1)	288	84.7	6.54	35.42	3857	0.0
PARAMETERS:	10% PULP DENSITY, COND. TIME 90 SECOND 0.667 KG/T 10:1 KERO:MIBC, DENVER CELL, 1200 RPM					

FINES

SIZE: -0.038mm

Mois %	Ash %	GCV (kcal/kg)
5.49	57.31	2214

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
Laboratory Manager

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ANALYSIS

ASTM Standard of Analysis

FLOAT SINK ANALYSIS

AIR-DRIED BASIS

CUMULATIVE WEIGHT % SIZE: +12.5mm

S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.1	0.1	7.24	2.68	6586	0.5
S1.30 - F1.35	7.9	8.0	6.95	5.35	6532	0.0
S1.35 - F1.40	17.1	25.1	6.62	8.37	6318	0.0
S1.40 - F1.45	20.0	45.1	6.24	11.81	6097	0.0
S1.45 - F1.50	11.3	56.4	6.18	13.55	5956	0.0
S1.50 - F1.55	8.2	64.6	6.10	14.85	5829	0.0
S1.55 - F1.60	7.6	72.1	5.97	16.57	5694	0.0
S1.60 - F1.70	14.5	86.7	5.74	19.73	5444	-
S1.70 - F1.80	3.1	89.8	5.67	20.52	5374	-
S1.80 - F1.90	4.4	94.2	5.56	21.55	5250	-
S1.90 - F2.00	2.9	97.1	5.49	22.36	5165	-
S2.00	2.9	100.0	5.40	23.89	5047	-

D4371
D3172
D4239
D720

CUMULATIVE WEIGHT % SIZE: 12.5mm x 1.0mm

S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	1.6	1.6	6.90	2.90	6715	0.0
S1.30 - F1.35	32.8	34.4	7.10	3.81	6585	0.0
S1.35 - F1.40	20.6	54.9	6.90	5.70	6457	0.0
S1.40 - F1.45	12.2	67.2	6.78	7.18	6352	0.0
S1.45 - F1.50	6.6	73.8	6.69	8.26	6276	0.0
S1.50 - F1.55	4.8	78.6	6.63	9.18	6208	0.0
S1.55 - F1.60	3.1	81.7	6.57	9.92	6155	0.0
S1.60 - F1.70	4.1	85.9	6.48	11.14	6061	-
S1.70 - F1.80	2.6	88.4	6.42	12.08	5987	-
S1.80 - F1.90	2.1	90.5	6.36	13.00	5917	-
S1.90 - F2.00	1.6	92.1	6.31	13.80	5856	-
S2.00	7.9	100.0	6.03	18.49	5479	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm

S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.35	0.5	0.5	4.93	4.07	6925	0.5
S1.35 - F1.40	52.1	52.5	7.74	3.99	6464	0.0
S1.40 - F1.45	10.1	62.7	7.62	5.03	6389	0.0
S1.45 - F1.50	5.6	68.3	7.55	5.85	6330	0.0
S1.50 - F1.55	5.2	73.5	7.48	6.68	6269	0.0
S1.55 - F1.60	3.1	76.6	7.43	7.31	6222	0.0
S1.60 - F1.70	3.9	80.5	7.34	8.47	6134	-
S1.70 - F1.80	2.5	83.0	7.27	9.47	6057	-
S1.80 - F1.90	1.3	84.3	7.23	10.06	6010	-
S1.90 - F2.00	1.6	85.9	7.17	10.93	5942	-
S2.00	14.1	100.0	6.53	19.38	5220	-

FROTH FLOTATION

CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm

TIME	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
15 SEC (P2)	5.8	5.8	5.84	9.38	6278	0.0
30 SEC (P3)	1.8	7.6	5.90	9.47	5701	0.0
60 SEC (P4)	1.5	9.1	5.94	9.65	5758	0.0
90 SEC (P5)	1.0	10.1	5.98	9.84	5782	0.0
Tails (T2)	5.3	15.3	6.15	14.57	5485	0.0
Tails (T1)	84.7	100.0	6.48	32.22	4106	0.0

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm

Mois %	Ash %	CV (kcal/kg)
5.49	57.31	2214

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
Laboratory Manager

Robb Trend Project

Coal Sample Results – 2012 Core Program

RT-11-544C

Arbour Seam

Sample Horizon: 70.1 to 78.3

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CERTIFICATE OF ANALYSIS

Preliminary Report 30-Jul-12
Final Report

Coal Valley Resources Inc.
1600 Oxford Tower
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Edmonton,AB
T5J 3G1,Canada

WORKORDER: RC12020425

Hole: RT-11-544C
Seam: Arbour
Diameter: 63.5mm
Depth: 70.1m to 78.3m
Plies: A,B,C,D1,D2

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	28100	5.32	25.58	29.08	40.02	0.24	4965	0.01	1.54	1.50

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

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Diameter: 63.5mm
Depth: 70.1m to 78.3m
Plies: A,B,C,D1,D2

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	1587	5.6
-50	26513	94.4

We certify the analysis reported hereon was determined in accordance with the modified procedure for Drop Shatter Testing.

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Brett Warden
Laboratory Manager

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Seam: Arbour
Diameter: 63.5mm
Depth: 70.1m to 78.3m
Plies: A,B,C,D1,D2

DRY SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	3610	12.8	12.8
-31.5+25	1410	5.0	17.9
-25+16	3209	11.4	29.3
-16+8	3928	14.0	43.3
-8+4	3420	12.2	55.4
-4+2	5228	18.6	74.0
-2	7294	26.0	100.0

***All losses allocated to -2mm fraction**

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

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WORKORDER: RC12020425

Hole: RT-11-544C
Seam: Arbour
Diameter: 63.5mm
Depth: 70.1m to 78.3m
Plies: A,B,C,D1,D2

WET SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	945	4.5	4.5
+25	669	3.2	7.7
+16	1596	7.6	15.3
+12.5	1084	5.2	20.4
+8	2062	9.8	30.3
+4	3113	14.8	45.1
+2	4100	19.5	64.6
+1	3258	15.5	80.1
+0.5	1747	8.3	88.4
+0.25	821	3.9	92.3
+0.15	327	1.6	93.9
+0.063	526	2.5	96.4
+0.038	280	1.3	97.7
-0.038	475	2.3	100.0

***All losses allocated to -0.038mm fraction**

Sample was attrited in maximum 50kg lots with 18 cubes and 150 L of water or equivalent mass for 5 min @ 20 rpm

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

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Depth: 70.1m to 78.3m
Plies: A,B,C,D1,D2

ANALYSIS

ASTM Standard of Analysis

FLOAT SINK ANALYSIS

AIR-DRIED BASIS

SIZE: +12.5mm

S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI	
F1.35	201	4.7	6.55	5.96	6569	0.0	D4371
S1.35 - F1.40	688	16.1	5.66	8.94	6323	0.0	D3172
S1.40 - F1.45	874	20.5	5.18	14.24	5946	0.0	D4239
S1.45 - F1.50	671	15.7	4.96	19.15	5535	0.0	D720
S1.50 - F1.55	220	5.2	4.49	23.91	5151	0.0	
S1.55 - F1.60	97	2.3	5.07	31.03	4676	0.0	
S1.60 - F1.70	311	7.3	4.39	37.16	4184	*	
S1.70 - F1.80	325	7.6	4.26	51.13	3155	*	
S1.80 - F1.90	263	6.2	3.69	53.19	2815	*	
S1.90 - F2.00	283	6.6	4.07	64.98	1817	*	
S2.00	340	8.0	3.17	79.40	958	*	

SIZE: -12.5mm x +1.0mm

S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	7	0.2	6.21	3.21	6784	0.0
S1.30 - F1.35	857	18.3	6.82	3.44	6608	0.0
S1.35 - F1.40	1325	28.3	6.30	7.37	6335	0.0
S1.40 - F1.45	488	10.4	5.71	13.15	5958	0.0
S1.45 - F1.50	391	8.3	5.50	17.99	5600	0.0
S1.50 - F1.55	250	5.3	6.03	22.85	5189	0.0
S1.55 - F1.60	169	3.6	5.74	28.99	4707	0.0
S1.60 - F1.70	222	4.7	5.32	35.97	4196	*
S1.70 - F1.80	176	3.8	4.96	46.39	3374	*
S1.80 - F1.90	167	3.6	4.70	56.32	2660	*
S1.90 - F2.00	187	4.0	4.42	65.50	1858	*
S2.00	442	9.4	3.13	78.82	802	*

SIZE: 1mm x 0.15mm

S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.35	226	20.4	7.34	2.67	6641	0.0
S1.35 - F1.40	328	29.6	7.10	5.28	6402	0.0
S1.40 - F1.45	124	11.2	6.50	11.08	6011	0.0
S1.45 - F1.50	67	6.0	6.19	15.39	5722	0.0
S1.50 - F1.55	66	5.9	6.32	17.82	5464	0.0
S1.55 - F1.60	39	3.6	6.18	23.29	5041	0.0
S1.60 - F1.70	55	5.0	5.70	32.44	4358	*
S1.70 - F1.80	38	3.4	5.20	43.70	3515	*
S1.80 - F1.90	21	1.9	4.81	52.08	2875	*
S1.90 - F2.00	25	2.2	4.56	59.69	2264	*
S2.00	120	10.8	2.77	70.81	764	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm

TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	4	1.0	5.47	10.48	NSS	NSS
30 SEC	2	0.6	NSS	12.21	NSS	NSS
60 SEC	1	0.2	NSS	12.49	NSS	NSS
90 SEC	1	0.3	NSS	13.11	NSS	NSS
Tails (T2)	8	2.2	6.78	27.17	4712	0.0
Tails (T1)	345	95.8	7.57	50.86	2610	0.0
PARAMETERS:	10% PULP DENSITY, COND. TIME 90 SECOND 0.667 KG/T 10:1 KERO:MIBC, DENVER CELL, 1200 RPM					

FINES

SIZE: -0.038mm		
Mois %	Ash %	GCV (kcal/kg)
6.52	66.63	1399

NSS = Not Sufficient Sample

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

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ANALYSIS

ASTM Standard of Analysis

FLOAT SINK ANALYSIS

AIR-DRIED BASIS

CUMULATIVE WEIGHT % SIZE: +12.5mm							
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI	
F1.35	4.7	4.7	6.55	5.96	6569	0.0	D4371
S1.35 - F1.40	16.1	20.8	5.86	8.27	6379	0.0	D3172
S1.40 - F1.45	20.5	41.3	5.52	11.23	6164	0.0	D4239
S1.45 - F1.50	15.7	57.0	5.37	13.41	5991	0.0	D720
S1.50 - F1.55	5.2	62.1	5.30	14.28	5921	0.0	
S1.55 - F1.60	2.3	64.4	5.29	14.87	5877	0.0	
S1.60 - F1.70	7.3	71.7	5.20	17.14	5705	-	
S1.70 - F1.80	7.6	79.3	5.11	20.40	5461	-	
S1.80 - F1.90	6.2	85.4	5.00	22.76	5270	-	
S1.90 - F2.00	6.6	92.0	4.94	25.80	5022	-	
S2.00	8.0	100.0	4.80	30.06	4698	-	

CUMULATIVE WEIGHT % SIZE: 12.5mm x 1.0mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.2	0.2	6.21	3.21	6784	0.0
S1.30 - F1.35	18.3	18.5	6.81	3.44	6609	0
S1.35 - F1.40	28.3	46.8	6.50	5.82	6443	0
S1.40 - F1.45	10.4	57.2	6.36	7.15	6355	0
S1.45 - F1.50	8.3	65.5	6.25	8.53	6259	0
S1.50 - F1.55	5.3	70.9	6.23	9.61	6178	0
S1.55 - F1.60	3.6	74.5	6.21	10.55	6107	0
S1.60 - F1.70	4.7	79.2	6.16	12.08	5992	-
S1.70 - F1.80	3.8	83.0	6.10	13.63	5874	-
S1.80 - F1.90	3.6	86.6	6.04	15.40	5741	-
S1.90 - F2.00	4.0	90.6	5.97	17.61	5569	-
S2.00	9.4	100.0	5.70	23.39	5119	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.35	20.4	20.4	7.34	2.67	6641	0.00
S1.35 - F1.40	29.6	50.0	7.20	4.22	6500	0.00
S1.40 - F1.45	11.2	61.2	7.07	5.47	6410	0.00
S1.45 - F1.50	6.0	67.2	6.99	6.36	6348	0.00
S1.50 - F1.55	5.9	73.1	6.94	7.29	6277	0.00
S1.55 - F1.60	3.6	76.7	6.90	8.03	6219	0.00
S1.60 - F1.70	5.0	81.7	6.83	9.52	6106	-
S1.70 - F1.80	3.4	85.1	6.76	10.89	6002	-
S1.80 - F1.90	1.9	86.9	6.72	11.78	5935	-
S1.90 - F2.00	2.2	89.2	6.67	12.97	5844	-
S2.00	10.8	100.0	6.24	19.24	5293	-

FROTH FLOTATION

CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm						
TIME	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
15 SEC (P2)	1.0	1.0	5.47	10.48	-	-
30 SEC (P3)	0.6	1.6	-	11.10	-	-
60 SEC (P4)	0.2	1.7	-	11.23	-	-
90 SEC (P5)	0.3	2.0	-	11.49	-	-
Tails (T2)	2.2	4.2	-	19.74	-	-
Tails (T1)	95.8	100.0	-	49.55	-	-

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm		
Mois %	Ash %	CV (kcal/kg)
6.52	66.63	1399

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
Laboratory Manager

Robb Trend Project

Coal Sample Results – 2012 Core Program

RT-11-612C

Arbour Seam

Sample Horizon: 40.02 to 48.8

ALS LABORATORY GROUP – COAL DIVISION
RICHMOND BC CANADA
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CERTIFICATE OF ANALYSIS

Preliminary Report 31-Jul-12
Final Report

Coal Valley Resources Inc.
1600 Oxford Tower
10235-101 Street
Edmonton,AB
T5J 3G1,Canada

WORKORDER: RC12020555

Hole: RT-11-612C
Seam: Arbour
Diameter: 63.5mm
Depth: 40.02m to 48.8m
Plies: A,B,C,D1,D2

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	32100	6.19	31.27	27.86	34.68	0.23	4480	0.01	1.59	1.54

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

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Depth: 40.02m to 48.8m
Plies: A,B,C,D1,D2

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	1595	5.0
-50	30505	95.0

We certify the analysis reported hereon was determined in accordance with the modified procedure for Drop Shatter Testing.

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Seam: Arbour
Diameter: 63.5mm
Depth: 40.02m to 48.8m
Plies: A,B,C,D1,D2

DRY SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	4718	14.7	14.7
-31.5+25	1565	4.9	19.6
-25+16	2901	9.0	28.6
-16+8	3918	12.2	40.8
-8+4	3546	11.0	51.9
-4+2	5056	15.8	67.6
-2	10396	32.4	100.0

***All losses allocated to -2mm fraction**

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

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Seam: Arbour
Diameter: 63.5mm
Depth: 40.02m to 48.8m
Plies: A,B,C,D1,D2

WET SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	1465	6.1	6.1
+25	1073	4.5	10.6
+16	1790	7.5	18.1
+12.5	1034	4.3	22.4
+8	2118	8.8	31.2
+4	2916	12.2	43.4
+2	3629	15.1	58.6
+1	3397	14.2	72.7
+0.5	2071	8.6	81.4
+0.25	1257	5.2	86.6
+0.15	555	2.3	88.9
+0.063	1025	4.3	93.2
+0.038	427	1.8	95.0
-0.038	1197	5.0	100.0

***All losses allocated to -0.038mm fraction**

Sample was attrited in maximum 50kg lots with 18 cubes and 150 L of water or equivalent mass for 5 min @ 20 rpm

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Diameter: 63.5mm
Depth: 40.02m to 48.8m
Plies: A,B,C,D1,D2

ANALYSIS

ASTM Standard of Analysis

FLOAT SINK ANALYSIS — **AIR-DRIED BASIS**

SIZE: +12.5mm							
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI	
F1.35	474	8.9	7.03	5.30	6548	0.0	D4371
S1.35 - F1.40	833	15.6	7.36	9.14	6106	0.0	D3172
S1.40 - F1.45	732	13.8	6.85	14.95	5810	0.0	D4239
S1.45 - F1.50	449	8.4	6.19	21.37	5330	0.0	D720
S1.50 - F1.55	363	6.8	5.45	27.54	4903	0.0	
S1.55 - F1.60	305	5.7	4.95	31.83	4544	0.0	
S1.60 - F1.70	626	11.8	4.73	39.70	4009	*	
S1.70 - F1.80	570	10.7	4.12	43.17	3635	*	
S1.80 - F1.90	285	5.4	3.86	55.47	2777	*	
S1.90 - F2.00	423	7.9	3.05	67.12	2011	*	
S2.00	261	4.9	2.41	82.82	726	*	

SIZE: -12.5mm x +1.0mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	9	0.2	6.48	3.23	6866	0.0
S1.30 - F1.35	1145	26.0	7.77	3.68	6557	0.0
S1.35 - F1.40	936	21.3	7.17	8.31	6228	0.0
S1.40 - F1.45	477	10.8	6.84	13.85	5867	0.0
S1.45 - F1.50	280	6.4	6.30	19.12	5483	0.0
S1.50 - F1.55	207	4.7	6.12	24.51	5067	0.0
S1.55 - F1.60	164	3.7	5.93	29.60	4692	0.0
S1.60 - F1.70	267	6.1	5.28	37.61	4057	*
S1.70 - F1.80	198	4.5	4.82	45.90	3353	*
S1.80 - F1.90	151	3.4	4.26	55.02	2675	*
S1.90 - F2.00	116	2.6	3.93	63.23	2113	*
S2.00	451	10.2	3.43	77.91	805	*

SIZE: 1mm x 0.15mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.35	234	23.4	7.63	2.72	6546	0.0
S1.35 - F1.40	191	19.1	7.33	5.85	6266	0.0
S1.40 - F1.45	72	7.2	6.90	11.67	5896	0.0
S1.45 - F1.50	44	4.4	6.47	15.88	5600	0.0
S1.50 - F1.55	36	3.6	7.07	19.27	5311	0.0
S1.55 - F1.60	27	2.7	6.89	24.21	4929	0.0
S1.60 - F1.70	36	3.6	6.49	32.78	4248	*
S1.70 - F1.80	31	3.1	5.92	42.40	3510	*
S1.80 - F1.90	23	2.3	5.65	50.44	2667	*
S1.90 - F2.00	21	2.1	5.14	58.25	2173	*
S2.00	285	28.5	3.53	82.08	478	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm						
TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	7	4.2	6.28	11.39	6073	0.0
30 SEC	2	1.4	NSS	13.51	NSS	0.0
60 SEC	1	0.7	NSS	14.07	NSS	0.0
90 SEC	1	0.9	NSS	17.58	NSS	0.0
Tails (T2)	10	6.2	6.14	62.28	1879	0.0
Tails (T1)	139	86.6	6.35	62.88	1791	0.0
PARAMETERS:	10% PULP DENSITY, COND. TIME 90 SECOND 0.667 KG/T 10:1 KERO:MIBC, DENVER CELL, 1200 RPM					

FINES

SIZE: -0.038mm		
Mois %	Ash %	GCV (kcal/kg)
5.31	78.30	640

NSS = Not Sufficient Sample

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
Laboratory Manager

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CERTIFICATE OF ANALYSIS

Preliminary Report
Final Report

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WORKORDER: RC12020555

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Diameter: 63.5mm
Depth: 40.02m to 48.8m
Plies: A,B,C,D1,D2

ANALYSIS

ASTM Standard of Analysis

FLOAT SINK ANALYSIS

AIR-DRIED BASIS

CUMULATIVE WEIGHT % SIZE: +12.5mm							
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI	
F1.35	8.9	8.9	7.03	5.30	6548	0.0	D4371
S1.35 - F1.40	15.6	24.6	7.24	7.75	6266	0.0	D3172
S1.40 - F1.45	13.8	38.3	7.10	10.33	6103	0.0	D4239
S1.45 - F1.50	8.4	46.8	6.94	12.32	5963	0.0	D720
S1.50 - F1.55	6.8	53.6	6.75	14.26	5828	0.0	
S1.55 - F1.60	5.7	59.3	6.57	15.96	5704	0.0	
S1.60 - F1.70	11.8	71.1	6.27	19.89	5424	-	
S1.70 - F1.80	10.7	81.8	5.99	22.94	5189	-	
S1.80 - F1.90	5.4	87.2	5.86	24.94	5041	-	
S1.90 - F2.00	7.9	95.1	5.62	28.47	4788	-	
S2.00	4.9	100.0	5.46	31.13	4589	-	

CUMULATIVE WEIGHT % SIZE: 12.5mm x 1.0mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.2	0.2	6.48	3.23	6866	0.0
S1.30 - F1.35	26.0	26.2	7.76	3.68	6560	0.0
S1.35 - F1.40	21.3	47.5	7.50	5.75	6411	0.0
S1.40 - F1.45	10.8	58.3	7.37	7.26	6310	0.0
S1.45 - F1.50	6.4	64.7	7.27	8.42	6229	0.0
S1.50 - F1.55	4.7	69.4	7.19	9.51	6150	0.0
S1.55 - F1.60	3.7	73.1	7.13	10.54	6076	0.0
S1.60 - F1.70	6.1	79.2	6.98	12.61	5921	-
S1.70 - F1.80	4.5	83.7	6.87	14.40	5783	-
S1.80 - F1.90	3.4	87.1	6.77	16.00	5660	-
S1.90 - F2.00	2.6	89.8	6.68	17.39	5556	-
S2.00	10.2	100.0	6.35	23.59	5069	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.35	23.4	23.4	7.63	2.72	6546	0.0
S1.35 - F1.40	19.1	42.5	7.50	4.13	6420	0.0
S1.40 - F1.45	7.2	49.7	7.41	5.23	6344	0.0
S1.45 - F1.50	4.4	54.1	7.33	6.09	6283	0.0
S1.50 - F1.55	3.6	57.7	7.32	6.92	6222	0.0
S1.55 - F1.60	2.7	60.5	7.30	7.70	6164	0.0
S1.60 - F1.70	3.6	64.0	7.25	9.09	6057	-
S1.70 - F1.80	3.1	67.1	7.19	10.63	5940	-
S1.80 - F1.90	2.3	69.4	7.14	11.95	5832	-
S1.90 - F2.00	2.1	71.5	7.08	13.30	5724	-
S2.00	28.5	100.0	6.07	32.89	4230	-

FROTH FLOTATION

CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm						
TIME	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
15 SEC (P2)	4.2	4.2	6.28	11.39	6073	0.0
30 SEC (P3)	1.4	5.6	-	11.91	-	0.0
60 SEC (P4)	0.7	6.4	-	12.16	-	0.0
90 SEC (P5)	0.9	7.2	-	12.82	-	0.0
Tails (T2)	6.2	13.4	-	35.72	-	0.0
Tails (T1)	86.6	100.0	-	59.23	-	0.0

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm		
Mois %	Ash %	CV (kcal/kg)
5.31	78.30	640

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
Laboratory Manager

Robb Trend Project

Coal Sample Results – 2012 Core Program

RT-11-672C

Arbour Seam

Sample Horizon: 32.5 to 42.0

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WORKORDER: RC12020427

Hole: RT-11-672C
Seam: Arbour
Diameter: 63.5mm
Depth: 32.5m TO 42.0m
Plies: A,B,C,D1,D2

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	29840	5.73	29.18	28.57	36.52	0.21	4659	0.01	1.58	1.53

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

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Hole: RT-11-672C
Seam: Arbour
Diameter: 63.5mm
Depth: 32.5m TO 42.0m
Plies: A,B,C,D1,D2

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	2717	9.1
-50	27123	90.9

We certify the analysis reported hereon was determined in accordance with the modified procedure for Drop Shatter Testing.

<original signed by>

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Hole: RT-11-672C
Seam: Arbour
Diameter: 63.5mm
Depth: 32.5m TO 42.0m
Plies: A,B,C,D1,D2

DRY SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	5160	17.3	17.3
-31.5+25	2252	7.5	24.8
-25+16	3394	11.4	36.2
-16+8	4452	14.9	51.1
-8+4	3407	11.4	62.6
-4+2	3657	12.3	74.8
-2	7517	25.2	100.0

***All losses allocated to -2mm fraction**

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Laboratory Manager