



CERTIFICATE OF ANALYSIS

Preliminary Report
 Final Report

30-Jul-12

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

WORKORDER: RC12020427

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

WET SIZING

ASTM Standard
of Analysis

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	2198	9.9	9.9
+25	1295	5.8	15.7
+16	2076	9.3	25.0
+12.5	1104	5.0	30.0
+8	2146	9.6	39.6
+4	2779	12.5	52.1
+2	2822	12.7	64.8
+1	2380	10.7	75.5
+0.5	1440	6.5	82.0
+0.25	704	3.2	85.1
+0.15	314	1.4	86.5
+0.063	765	3.4	90.0
+0.038	702	3.2	93.1
-0.038	1531	6.9	100.0

D4749
 (split with RSD)

*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



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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	568	8.6	7.14	4.84	6624	0.0
S1.35 - F1.40	754	11.3	6.93	8.48	6297	0.0
S1.40 - F1.45	789	11.9	6.42	14.07	5913	0.0
S1.45 - F1.50	478	7.2	6.20	18.54	5507	0.0
S1.50 - F1.55	351	5.3	5.76	25.26	5043	0.0
S1.55 - F1.60	349	5.2	5.25	30.87	4597	0.0
S1.60 - F1.70	1034	15.6	4.72	38.11	3945	*
S1.70 - F1.80	910	13.7	4.11	47.44	3384	*
S1.80 - F1.90	599	9.0	3.78	54.62	2617	*
S1.90 - F2.00	384	5.8	3.39	64.65	1970	*
S2.00	431	6.5	3.17	74.24	1091	*

D4371
 D3172
 D4239
 D720

SIZE: -12.5mm x +1.0mm						
S.G	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	33	0.6	8.01	2.62	6708	0.0
S1.30 - F1.35	1525	29.9	8.17	3.73	6548	0.0
S1.35 - F1.40	1051	20.6	7.41	8.43	6240	0.0
S1.40 - F1.45	601	11.8	6.45	13.78	5848	0.0
S1.45 - F1.50	337	6.6	5.90	18.57	5531	0.0
S1.50 - F1.55	291	5.7	6.23	22.73	5184	0.0
S1.55 - F1.60	182	3.6	5.34	28.67	4755	0.0
S1.60 - F1.70	263	5.2	5.19	36.04	4193	*
S1.70 - F1.80	204	4.0	4.49	44.68	3508	*
S1.80 - F1.90	184	3.6	3.83	53.63	2775	*
S1.90 - F2.00	160	3.1	3.94	61.01	1961	*
S2.00	262	5.2	2.78	72.03	1180	*

SIZE: 1mm x 0.15mm						
S.G	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.35	315	29.5	7.33	2.73	6639	0.0
S1.35 - F1.40	240	22.5	7.21	6.09	6314	0.0
S1.40 - F1.45	97	9.0	6.44	11.61	5953	0.0
S1.45 - F1.50	65	6.1	6.43	15.16	5688	0.0
S1.50 - F1.55	55	5.1	6.15	17.47	5478	0.0
S1.55 - F1.60	38	3.6	5.99	22.42	5089	0.0
S1.60 - F1.70	50	4.6	5.25	32.08	4380	*
S1.70 - F1.80	39	3.7	4.56	43.32	3592	*
S1.80 - F1.90	34	3.2	4.36	51.91	2916	*
S1.90 - F2.00	27	2.5	3.95	59.43	2347	*
S2.00	107	10.1	2.40	72.32	795	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm						
TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	3	0.8	NSS	12.08	6278	0.0
30 SEC	1	0.2	NSS	NSS	NSS	0.0
60 SEC	1	0.2	NSS	NSS	NSS	0.0
90 SEC	0	0.1	NSS	NSS	NSS	0.0
Tails (T2)	6	1.6	5.74	56.11	2335	0.0
Tails (T1)	354	97.1	6.41	65.24	1567	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)
6.46	78.32	702

NSS = Not sufficient Sample

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 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
F1.35	8.6	8.6	7.14	4.84	6624	0.0
S1.35 - F1.40	11.3	19.9	7.02	6.92	6438	0.0
S1.40 - F1.45	11.9	31.8	6.80	9.59	6242	0.0
S1.45 - F1.50	7.2	38.9	6.69	11.24	6106	0.0
S1.50 - F1.55	5.3	44.2	6.58	12.92	5979	0.0
S1.55 - F1.60	5.2	49.5	6.43	14.82	5832	0.0
S1.60 - F1.70	15.6	65.0	6.02	20.39	5381	-
S1.70 - F1.80	13.7	78.7	5.69	25.09	5034	-
S1.80 - F1.90	9.0	87.7	5.50	28.13	4786	-
S1.90 - F2.00	5.8	93.5	5.37	30.38	4612	-
S2.00	6.5	100.0	5.22	33.22	4384	-

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	0.6	0.6	8.01	2.62	6708	0.0
S1.30 - F1.35	29.9	30.6	8.17	3.71	6551	0.0
S1.35 - F1.40	20.6	51.2	7.86	5.61	6426	0.0
S1.40 - F1.45	11.8	63.0	7.60	7.14	6318	0.0
S1.45 - F1.50	6.6	69.6	7.44	8.22	6243	0.0
S1.50 - F1.55	5.7	75.3	7.34	9.33	6163	0.0
S1.55 - F1.60	3.6	78.9	7.25	10.20	6099	0.0
S1.60 - F1.70	5.2	84.1	7.13	11.79	5982	-
S1.70 - F1.80	4.0	88.1	7.01	13.29	5869	-
S1.80 - F1.90	3.6	91.7	6.88	14.88	5747	-
S1.90 - F2.00	3.1	94.8	6.78	16.41	5622	-
S2.00	5.2	100.0	6.58	19.27	5393	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.35	29.5	29.5	7.33	2.73	6639	0.0
S1.35 - F1.40	22.5	52.0	7.28	4.18	6498	0.0
S1.40 - F1.45	9.0	61.0	7.15	5.28	6417	0.0
S1.45 - F1.50	6.1	67.1	7.09	6.18	6351	0.0
S1.50 - F1.55	5.1	72.3	7.02	6.99	6289	0.0
S1.55 - F1.60	3.6	75.9	6.97	7.72	6232	0.0
S1.60 - F1.70	4.6	80.5	6.87	9.12	6125	-
S1.70 - F1.80	3.7	84.2	6.77	10.62	6015	-
S1.80 - F1.90	3.2	87.4	6.68	12.13	5901	-
S1.90 - F2.00	2.5	89.9	6.61	13.47	5800	-
S2.00	10.1	100.0	6.18	19.39	5297	-

FROTH FLOTATION

CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm						
TIME	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
15 SEC (P2)	0.8	0.8	-	12.08	6278	0.0
30 SEC (P3)	0.2	1.0	-	-	-	0.0
60 SEC (P4)	0.2	1.2	-	-	-	0.0
90 SEC (P5)	0.1	1.2	-	-	-	0.0
Tails (T2)	1.6	2.9	-	-	-	0.0
Tails (T1)	97.1	100.0	-	-	-	0.0

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm		
Mois %	Ash %	CV (kcal/kg)
6.46	78.32	702

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-11-719C

Arbour Seam

Sample Horizon: 47.1 to 57.56



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Diameter: 63.5mm
Depth: 47.1m to 57.56m
Plies: A,B,D1,D2

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	32950	6.59	28.60	28.18	36.63	0.25	4707	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.

<original signed by>

Brett Warden
Laboratory Manager

ALS LABORATORY GROUP – COAL DIVISION

RICHMOND BC CANADA

11191 Coppersmith Place, Richmond BC V7A 5H1 Canada

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Plies: A,B,D1,D2

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	2500	7.6
-50	30450	92.4

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

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Laboratory Manager



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DRY SIZING

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	4920	14.9	14.9
-31.5+25	1384	4.2	19.1
-25+16	2908	8.8	28.0
-16+8	3508	10.6	38.6
-8+4	3432	10.4	49.0
-4+2	7487	22.7	71.7
-2	9311	28.3	100.0

ASTM Standard
of Analysis

D4749
(split with RSD)

*All losses allocated to -2mm fraction

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WET SIZING

ASTM Standard
of Analysis

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	2031	8.2	8.2
+25	1185	4.8	13.1
+16	1840	7.5	20.5
+12.5	976	4.0	24.5
+8	1671	6.8	31.3
+4	2490	10.1	41.4
+2	4808	19.5	60.9
+1	3534	14.3	75.2
+0.5	1830	7.4	82.7
+0.25	777	3.2	85.8
+0.15	326	1.3	87.2
+0.063	865	3.5	90.7
+0.038	605	2.5	93.1
-0.038	1696	6.9	100.0

D4749
 (split with RSD)

*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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ASTM Standard
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FLOAT SINK ANALYSIS

AIR-DRIED BASIS

SIZE: +12.5mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	13	0.2	7.48	3.45	6765	0.0
S1.30 - F1.35	599	9.9	7.39	4.75	6569	0.0
S1.35 - F1.40	1143	19.0	6.65	10.42	6223	0.0
S1.40 - F1.45	741	12.3	6.24	15.60	5803	0.0
S1.45 - F1.50	425	7.1	5.90	21.39	5349	0.0
S1.50 - F1.55	390	6.5	5.63	26.53	4953	0.0
S1.55 - F1.60	381	6.3	5.35	32.12	4597	0.0
S1.60 - F1.70	1118	18.6	4.37	35.55	4083	*
S1.70 - F1.80	244	4.1	3.89	47.24	3300	*
S1.80 - F1.90	219	3.6	3.30	52.33	2815	*
S1.90 - F2.00	261	4.3	3.04	62.13	2018	*
S2.00	492	8.2	1.55	71.78	843	*

D4371
 D3172
 D4239
 D720

SIZE: -12.5mm x +1.0mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	63	1.3	7.79	2.94	6777	0.5
S1.30 - F1.35	1431	30.5	7.15	4.07	6560	0.0
S1.35 - F1.40	921	19.7	6.57	8.87	6242	0.0
S1.40 - F1.45	527	11.3	6.04	13.73	5896	0.0
S1.45 - F1.50	347	7.4	5.42	19.05	5531	0.0
S1.50 - F1.55	232	5.0	5.30	23.89	5141	0.0
S1.55 - F1.60	184	3.9	5.74	29.09	4738	0.0
S1.60 - F1.70	280	6.0	5.30	36.25	4196	*
S1.70 - F1.80	168	3.6	4.62	45.32	3441	*
S1.80 - F1.90	122	2.6	3.96	54.01	2787	*
S1.90 - F2.00	90	1.9	3.82	61.27	2104	*
S2.00	319	6.8	2.65	74.61	1046	*

SIZE: 1mm x 0.15mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	12	1.1	6.74	3.42	6811	0.0
S1.30 - F1.35	318	29.0	7.97	2.91	6622	0.0
S1.35 - F1.40	250	22.8	7.69	6.27	6350	0.0
S1.40 - F1.45	106	9.6	7.09	11.89	5980	0.0
S1.45 - F1.50	66	6.0	6.82	15.91	5688	0.0
S1.50 - F1.55	48	4.4	6.44	19.14	5397	0.0
S1.55 - F1.60	38	3.4	5.98	24.91	4974	0.0
S1.60 - F1.70	47	4.2	5.50	33.35	4308	*
S1.70 - F1.80	36	3.3	5.23	43.26	3565	*
S1.80 - F1.90	26	2.4	4.98	51.58	2921	*
S1.90 - F2.00	23	2.1	4.73	59.59	2261	*
S2.00	128	11.6	2.71	74.72	900	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm						
TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	5	1.3	NSS	9.21	6691	0.0
30 SEC	3	0.7	NSS	10.06	6359	0.0
60 SEC	1	0.2	NSS	NSS	NSS	0.0
90 SEC	0	0.1	NSS	NSS	NSS	0.0
Tails (T1)	339	93.5	5.20	66.75	1705	0.0
Tails (T2)	15	4.2	5.33	75.60	1027	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)
4.38	83.98	509

NSS = Not Sufficient Sample

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AIR-DRIED BASIS

CUMULATIVE WEIGHT % SIZE: +12.5mm						
S.G	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.2	0.2	7.48	3.45	6765	0.0
S1.30 - F1.35	9.9	10.2	7.39	4.72	6574	0.0
S1.35 - F1.40	19.0	29.1	6.91	8.43	6345	0.0
S1.40 - F1.45	12.3	41.4	6.71	10.56	6184	0.0
S1.45 - F1.50	7.1	48.5	6.59	12.14	6063	0.0
S1.50 - F1.55	6.5	54.9	6.48	13.83	5932	0.0
S1.55 - F1.60	6.3	61.3	6.36	15.72	5794	0.0
S1.60 - F1.70	18.6	79.8	5.90	20.33	5396	-
S1.70 - F1.80	4.1	83.9	5.80	21.63	5295	-
S1.80 - F1.90	3.6	87.5	5.70	22.90	5192	-
S1.90 - F2.00	4.3	91.8	5.57	24.76	5042	-
S2.00	8.2	100.0	5.24	28.59	4700	-

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	1.3	1.3	7.79	2.94	6777	0.5
S1.30 - F1.35	30.5	31.9	7.18	4.02	6569	0.0
S1.35 - F1.40	19.7	51.5	6.95	5.87	6444	0.0
S1.40 - F1.45	11.3	62.8	6.78	7.28	6346	0.0
S1.45 - F1.50	7.4	70.2	6.64	8.52	6260	0.0
S1.50 - F1.55	5.0	75.2	6.55	9.54	6186	0.0
S1.55 - F1.60	3.9	79.1	6.51	10.51	6114	0.0
S1.60 - F1.70	6.0	85.1	6.43	12.32	5979	-
S1.70 - F1.80	3.6	88.7	6.35	13.65	5877	-
S1.80 - F1.90	2.6	91.3	6.28	14.81	5788	-
S1.90 - F2.00	1.9	93.2	6.23	15.77	5712	-
S2.00	6.8	100.0	5.99	19.77	5395	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						
S.G	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	1.1	1.1	6.74	3.42	6811	0.0
S1.30 - F1.35	29.0	30.0	7.93	2.93	6629	0.0
S1.35 - F1.40	22.8	52.8	7.82	4.37	6508	0.0
S1.40 - F1.45	9.6	62.5	7.71	5.53	6427	0.0
S1.45 - F1.50	6.0	68.5	7.63	6.45	6362	0.0
S1.50 - F1.55	4.4	72.9	7.56	7.21	6303	0.0
S1.55 - F1.60	3.4	76.3	7.49	8.01	6244	0.0
S1.60 - F1.70	4.2	80.6	7.38	9.34	6142	-
S1.70 - F1.80	3.3	83.9	7.30	10.66	6041	-
S1.80 - F1.90	2.4	86.2	7.24	11.79	5956	-
S1.90 - F2.00	2.1	88.4	7.18	12.94	5866	-
S2.00	11.6	100.0	6.66	20.13	5288	-

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	-	9.21	6691	0.0
30 SEC (P3)	0.7	2.0	-	9.51	6575	0.0
60 SEC (P4)	0.2	2.2	-	-	-	0.0
90 SEC (P5)	0.1	2.3	-	-	-	0.0
Tails (T1)	93.5	95.8	-	-	-	0.0
Tails (T2)	4.2	100.0	-	-	-	0.0

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm		
Mois %	Ash %	CV (kcal/kg)
4.38	83.98	509

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

Robb Trend Project

Coal Sample Results – 2012 Core Program

McPherson Seam

Robb Trend Project

Coal Sample Results – 2012 Core Program

RT-11-424C

McPherson Seam

Sample Horizon: 43.2 to 51.2



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: RC12020624

Hole: RT-11-424C
Seam: McPherson
Diameter: 63.5mm
Depth: 43.2m to 51.2m
Plies: 1,2

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	11200	7.74	26.53	28.00	37.73	0.24	4821	0.01	1.56	1.50

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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WORKORDER: RC12020624

Hole: RT-11-424C
Seam: McPherson
Diameter: 63.5mm
Depth: 43.2m to 51.2m
Plies: 1,2

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	109	1.0
-50	11091	99.0

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: RC12020624

Hole: RT-11-424C
Seam: McPherson
Diameter: 63.5mm
Depth: 43.2m to 51.2m
Plies: 1,2

DRY SIZING

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	479	4.3	4.3
-31.5+25	408	3.6	7.9
-25+16	1123	10.0	17.9
-16+8	1660	14.8	32.8
-8+4	1506	13.5	46.2
-4+2	1635	14.6	60.8
-2	4388	39.2	100.0

ASTM Standard
of Analysis

D4749
(split with RSD)

***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>

Brett Warden
Laboratory Manager



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 Edmonton, AB
 T5J 3G1, Canada

WORKORDER: RC12020624
 Hole: RT-11-424C
 Seam: McPherson
 Diameter: 63.5mm
 Depth: 43.2m to 51.2m
 Plies: 1,2

WET SIZING

ASTM Standard
of Analysis

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	122	1.4	1.4
+25	203	2.4	3.8
+16	564	6.7	10.5
+12.5	322	3.8	14.3
+8	644	7.6	21.9
+4	1154	13.6	35.5
+2	1290	15.2	50.8
+1	1237	14.6	65.4
+0.5	954	11.3	76.6
+0.25	493	5.8	82.5
+0.15	205	2.4	84.9
+0.063	359	4.2	89.1
+0.038	159	1.9	91.0
-0.038	763	9.0	100.0

D4749
 (split with RSD)

*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



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WORKORDER: RC12020624

Hole: RT-11-424C
 Seam: McPherson
 Diameter: 63.5mm
 Depth: 43.2m to 51.2m
 Plies: 1,2

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	0	0.0	-	-	-	-
S1.30 - F1.35	58	4.8	7.70	5.91	6517	0.0
S1.35 - F1.40	272	22.6	7.54	9.32	6185	0.0
S1.40 - F1.45	267	22.2	7.63	14.55	5786	0.0
S1.45 - F1.50	253	21.0	7.46	16.96	5562	0.0
S1.50 - F1.55	152	12.6	7.10	26.21	4912	0.0
S1.55 - F1.60	66	5.5	5.82	30.60	4571	0.0
S1.60 - F1.70	51	4.2	5.66	37.05	4026	*
S1.70 - F1.80	-	-	-	-	-	*
S1.80 - F1.90	-	-	-	-	-	*
S1.90 - F2.00	82	6.8	3.00	40.76	3840	*
S2.00	4	0.3	1.14	53.86	1595	*

D4371
 D3172
 D4239
 D720

SIZE: -12.5mm x +1.0mm						
S.G	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	38	0.9	6.28	3.04	7011	0.5
S1.30 - F1.35	1329	31.1	8.01	3.95	6560	0.0
S1.35 - F1.40	805	18.8	7.48	8.86	6218	0.0
S1.40 - F1.45	487	11.4	7.50	13.84	5824	0.0
S1.45 - F1.50	430	10.1	7.26	17.73	5492	0.0
S1.50 - F1.55	384	9.0	7.00	22.21	5165	0.0
S1.55 - F1.60	195	4.6	6.92	28.65	4678	0.0
S1.60 - F1.70	179	4.2	6.69	35.68	4081	*
S1.70 - F1.80	119	2.8	6.76	45.89	3312	*
S1.80 - F1.90	89	2.1	6.18	53.92	2624	*
S1.90 - F2.00	95	2.2	6.07	62.22	1851	*
S2.00	124	2.9	4.33	71.14	917	*

SIZE: 1mm x 0.15mm						
S.G	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	12	0.8	6.17	3.53	6863	0.5
S1.30 - F1.35	294	20.5	8.37	3.02	6529	0.0
S1.35 - F1.40	156	10.9	8.01	6.70	6261	0.0
S1.40 - F1.45	89	6.2	7.73	11.98	5870	0.0
S1.45 - F1.50	86	6.0	7.57	15.88	5588	0.0
S1.50 - F1.55	88	6.2	7.56	19.28	5285	0.0
S1.55 - F1.60	75	5.2	7.62	23.69	4922	0.0
S1.60 - F1.70	78	5.5	7.47	32.68	4224	*
S1.70 - F1.80	69	4.8	7.49	43.09	3420	*
S1.80 - F1.90	68	4.8	7.48	51.41	2775	*
S1.90 - F2.00	88	6.1	7.27	58.68	2113	*
S2.00	331	23.1	5.52	72.87	786	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm						
TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	7	3.7	7.02	13.20	5889	0.0
30 SEC	2	1.0	NSS	29.97	4432	0.0
60 SEC	1	0.5	NSS	34.81	NSS	0.0
90 SEC	1	0.4	NSS	52.18	NSS	0.0
Tails (T1)	164	89.8	9.12	62.55	1442	0.0
Tails (T2)	8	4.5	8.99	64.12	1337	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)
9.57	70.99	1053

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



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: RC12020624

Hole: RT-11-424C
 Seam: McPherson
 Diameter: 63.5mm
 Depth: 43.2m to 51.2m
 Plies: 1,2

ANALYSIS

ASTM Standard
 of Analysis

FLOAT SINK ANALYSIS

AIR-DRIED BASIS

S.G	CUMULATIVE WEIGHT % SIZE: +12.5mm						FSI
	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)		
F1.30	0.0	0.0	-	-	-	-	-
S1.30 - F1.35	4.8	4.8	7.70	5.91	6517	0.0	
S1.35 - F1.40	22.6	27.4	7.57	8.72	6243	0.0	D4371
S1.40 - F1.45	22.2	49.6	7.60	11.33	6039	0.0	D3172
S1.45 - F1.50	21.0	70.6	7.56	13.00	5897	0.0	D4239
S1.50 - F1.55	12.6	83.2	7.49	15.00	5748	0.0	D720
S1.55 - F1.60	5.5	88.7	7.38	15.97	5675	0.0	
S1.60 - F1.70	4.2	92.9	7.31	16.92	5601	-	
S1.70 - F1.80	-	-	-	-	-	-	
S1.80 - F1.90	-	-	-	-	-	-	
S1.90 - F2.00	6.8	99.7	7.01	18.55	5480	-	
S2.00	0.3	100.0	6.99	18.66	5468	-	

S.G	CUMULATIVE WEIGHT % SIZE: 12.5mm x 1.0mm						FSI
	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)		
F1.30	0.9	0.9	6.28	3.04	7011	0.5	
S1.30 - F1.35	31.1	32.0	7.96	3.92	6572	0.0	
S1.35 - F1.40	18.8	50.8	7.78	5.75	6441	0.0	
S1.40 - F1.45	11.4	62.2	7.73	7.23	6328	0.0	
S1.45 - F1.50	10.1	72.3	7.67	8.69	6212	0.0	
S1.50 - F1.55	9.0	81.3	7.59	10.19	6096	0.0	
S1.55 - F1.60	4.6	85.8	7.56	11.17	6021	0.0	
S1.60 - F1.70	4.2	90.0	7.52	12.31	5931	-	
S1.70 - F1.80	2.8	92.8	7.49	13.32	5852	-	
S1.80 - F1.90	2.1	94.9	7.46	14.21	5781	-	
S1.90 - F2.00	2.2	97.1	7.43	15.31	5691	-	
S2.00	2.9	100.0	7.34	16.92	5553	-	

S.G.	CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						FSI
	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)		
F1.30	0.8	0.8	6.17	3.53	6863	0.5	
S1.30 - F1.35	20.5	21.3	8.28	3.04	6542	0.0	
S1.35 - F1.40	10.9	32.2	8.19	4.28	6447	0.0	
S1.40 - F1.45	6.2	38.3	8.12	5.52	6354	0.0	
S1.45 - F1.50	6.0	44.4	8.04	6.92	6250	0.0	
S1.50 - F1.55	6.2	50.5	7.98	8.43	6132	0.0	
S1.55 - F1.60	5.2	55.8	7.95	9.86	6019	0.0	
S1.60 - F1.70	5.5	61.2	7.91	11.90	5859	-	
S1.70 - F1.80	4.8	66.0	7.88	14.18	5680	-	
S1.80 - F1.90	4.8	70.8	7.85	16.68	5485	-	
S1.90 - F2.00	6.1	76.9	7.80	20.02	5217	-	
S2.00	23.1	100.0	7.28	32.22	4194	-	

FROTH FLOTATION

TIME	CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm						FSI
	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)		
15 SEC (P2)	3.7	3.7	7.02	13.20	5889	0.0	
30 SEC (P3)	1.0	4.7	-	16.71	5584	0.0	
60 SEC (P4)	0.5	5.3	-	18.60	-	0.0	
90 SEC (P5)	0.4	5.7	-	21.18	-	0.0	
Tails (T1)	89.8	95.5	-	60.08	-	0.0	
Tails (T2)	4.5	100.0	-	60.26	-	0.0	

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm		
Mois %	Ash %	CV (kcal/kg)
9.57	70.99	1053

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-11-523C

McPherson Seam

Sample Horizon: 25.1 to 33.7



CERTIFICATE OF ANALYSIS

Preliminary Report 9-Aug-12
Final Report

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

WORKORDER: RC12020621

Hole: RT-11-523C
Seam: McPherson
Diameter: 63.5mm
Depth: 25.1m to 33.7m
Plies: 1,2

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	17700	7.09	21.94	29.66	41.31	0.21	5149	0.01	1.52	1.48

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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WORKORDER: RC12020621

Hole: RT-11-523C
Seam: McPherson
Diameter: 63.5mm
Depth: 25.1m to 33.7m
Plies: 1,2

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	627	3.5
-50	17073	96.5

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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Hole: RT-11-523C
Seam: McPherson
Diameter: 63.5mm
Depth: 25.1m to 33.7m
Plies: 1,2

DRY SIZING

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	697	3.9	3.9
-31.5+25	835	4.7	8.7
-25+16	1728	9.8	18.4
-16+8	2815	15.9	34.3
-8+4	2695	15.2	49.6
-4+2	2976	16.8	66.4
-2	5953	33.6	100.0

**ASTM Standard
of Analysis**

D4749
(split with RSD)

*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>

Brett Warden
Laboratory Manager



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 Seam: McPherson
 Diameter: 63.5mm
 Depth: 25.1m to 33.7m
 Plies: 1,2

WET SIZING

**ASTM Standard
 of Analysis**

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	76	0.6	0.6
+25	117	0.9	1.5
+16	486	3.7	5.1
+12.5	422	3.2	8.3
+8	1019	7.7	16.0
+4	2343	17.6	33.6
+2	2807	21.1	54.7
+1	2425	18.3	73.0
+0.5	1298	9.8	82.8
+0.25	697	5.2	88.0
+0.15	320	2.4	90.4
+0.063	609	4.6	95.0
+0.038	226	1.7	96.7
-0.038	437	3.3	100.0

D4749
 (split with RSD)

***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>

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Hole: RT-11-523C
 Seam: McPherson
 Diameter: 63.5mm
 Depth: 25.1m to 33.7m
 Piles: 1,2

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	124	11.4	7.64	4.57	6543	0.0
S1.35 - F1.40	120	11.1	7.02	10.06	6209	0.0
S1.40 - F1.45	223	20.5	7.17	13.95	5831	0.0
S1.45 - F1.50	148	13.6	6.23	22.10	5332	0.0
S1.50 - F1.55	49	4.5	6.10	26.26	4898	0.0
S1.55 - F1.60	31	2.9	5.45	26.82	4595	0.0
S1.60 - F1.70	70	6.4	4.92	32.24	3811	*
S1.70 - F1.80	53	4.9	4.30	39.21	3494	*
S1.80 - F1.90	127	11.6	3.40	54.86	2718	*
S1.90 - F2.00	106	9.7	3.07	63.97**	2097	*
S2.00	37	3.4	2.03	59.46*	1583	*

D4371
 D3172
 D4239
 D720

SIZE: -12.5mm x +1.0mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	32	0.6	7.69	2.31	6832	0.0
S1.30 - F1.35	1684	31.7	8.46	3.35	6536	0.0
S1.35 - F1.40	1072	20.2	7.46	8.15	6319	0.0
S1.40 - F1.45	828	15.6	7.19	12.99	5960	0.0
S1.45 - F1.50	514	9.7	7.61	17.06	5564	0.0
S1.50 - F1.55	290	5.5	6.92	22.37	5165	0.0
S1.55 - F1.60	155	2.9	6.52	28.44	4731	0.0
S1.60 - F1.70	178	3.3	5.85	35.99	4160	*
S1.70 - F1.80	131	2.5	5.51	45.61	3398	*
S1.80 - F1.90	93	1.7	4.87	53.82	2782	*
S1.90 - F2.00	71	1.3	4.04	60.85	2249	*
S2.00	258	4.9	2.88	73.28	967	*

SIZE: 1mm x 0.15mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	6	0.5	6.12	5.87	6622	0.0
S1.30 - F1.35	290	25.0	7.35	2.60	6634	0.0
S1.35 - F1.40	189	16.3	7.00	6.06	6335	0.0
S1.40 - F1.45	107	9.2	6.72	10.72	5994	0.0
S1.45 - F1.50	82	7.0	6.97	14.26	5703	0.0
S1.50 - F1.55	73	6.3	7.23	17.24	5454	0.0
S1.55 - F1.60	46	3.9	6.87	22.83	5051	0.0
S1.60 - F1.70	45	3.9	6.26	32.17	4358	*
S1.70 - F1.80	33	2.8	5.96	43.18	3520	*
S1.80 - F1.90	28	2.4	5.75	51.24	2854	*
S1.90 - F2.00	28	2.4	5.52	58.85	2271	*
S2.00	233	20.1	4.15	74.68	709	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm						
TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	6	1.7	5.45	10.20	6405	NSS
30 SEC	3	0.7	5.54	11.82	6125	NSS
60 SEC	2	0.7	5.90	14.48	5779	NSS
90 SEC	1	0.3	NSS	15.66	NSS	NSS
Tails (T2)	6	1.7	7.22	54.05	2464	0.0
Tails (T1)	331	94.8	6.89	60.20	1760	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)
7.09	73.26	1013

* = Lab bottle checked
 * = Lab bottle checked and sample re-prepped
 Samples marked with a * or ** were tested with HCl and had a positive reaction

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



CERTIFICATE OF ANALYSIS

Preliminary Report
 Final Report

9-Aug-12

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

WORKORDER: RC12020621

Hole: RT-11-523C
 Seam: McPherson
 Diameter: 63.5mm
 Depth: 25.1m to 33.7m
 Piles: 1,2

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	11.4	11.4	7.64	4.57	6543	0.0
S1.35 - F1.40	11.1	22.5	7.34	7.27	6379	0.0
S1.40 - F1.45	20.5	43.0	7.26	10.46	6118	0.0
S1.45 - F1.50	13.6	56.5	7.01	13.25	5929	0.0
S1.50 - F1.55	4.5	61.1	6.94	14.21	5853	0.0
S1.55 - F1.60	2.9	63.9	6.88	14.77	5797	0.0
S1.60 - F1.70	6.4	70.3	6.70	16.37	5616	-
S1.70 - F1.80	4.9	75.2	6.54	17.86	5477	-
S1.80 - F1.90	11.6	86.9	6.12	22.82	5107	-
S1.90 - F2.00	9.7	96.6	5.81	20.52	4805	-
S2.00	3.4	100.0	5.68	19.83	4695	-

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	0.6	0.6	7.69	2.31	6832	0.0
S1.30 - F1.35	31.7	32.4	8.45	3.33	6542	0.0
S1.35 - F1.40	20.2	52.6	8.07	5.18	6456	0.0
S1.40 - F1.45	15.6	68.2	7.87	6.97	6342	0.0
S1.45 - F1.50	9.7	77.9	7.83	8.23	6246	0.0
S1.50 - F1.55	5.5	83.3	7.77	9.15	6175	0.0
S1.55 - F1.60	2.9	86.3	7.73	9.81	6126	0.0
S1.60 - F1.70	3.3	89.6	7.66	10.78	6052	-
S1.70 - F1.80	2.5	92.1	7.60	11.72	5981	-
S1.80 - F1.90	1.7	93.8	7.55	12.50	5922	-
S1.90 - F2.00	1.3	95.1	7.50	13.18	5870	-
S2.00	4.9	100.0	7.28	16.10	5632	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.5	0.5	6.12	5.87	6622	0.0
S1.30 - F1.35	25.0	25.5	7.33	2.67	6634	0.0
S1.35 - F1.40	16.3	41.8	7.20	3.99	6517	0.0
S1.40 - F1.45	9.2	51.0	7.11	5.20	6423	0.0
S1.45 - F1.50	7.0	58.0	7.09	6.30	6336	0.0
S1.50 - F1.55	6.3	64.4	7.11	7.38	6249	0.0
S1.55 - F1.60	3.9	68.3	7.09	8.27	6180	0.0
S1.60 - F1.70	3.9	72.2	7.05	9.56	6081	-
S1.70 - F1.80	2.8	75.0	7.01	10.82	5985	-
S1.80 - F1.90	2.4	77.4	6.97	12.09	5887	-
S1.90 - F2.00	2.4	79.9	6.92	13.52	5776	-
S2.00	20.1	100.0	6.37	25.82	4758	-

FROTH FLOTATION

CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm						
TIME	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
15 SEC (P2)	1.7	1.7	5.45	10.20	6405	NSS
30 SEC (P3)	0.7	2.5	5.48	10.69	6320	0.0
60 SEC (P4)	0.7	3.2	5.57	11.52	6202	0.0
90 SEC (P5)	0.3	3.5	-	11.92	-	0.0
Tails (T2)	1.7	5.2	-	25.81	-	0.0
Tails (T1)	94.8	100.0	-	58.41	-	0.0

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm		
Mois %	Ash %	CV (kcal/kg)
7.09	73.26	1013

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

McLeod Seam

Robb Trend Project

Coal Sample Results – 2012 Core Program

RT-11-523C

McLeod Seam

Sample Horizon: 21.2 to 22.9



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: RC12020620

Hole: RT-11-523C
Seam: McLeod
Diameter: 63.5mm
Depth: 21.2m to 22.9m
Plies:

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	7945	7.70	23.20	32.61	36.49	0.30	5084	0.01	1.53	1.45

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

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Brett Warden
Laboratory Manager



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: RC12020620

Hole: RT-11-523C
Seam: McLeod
Diameter: 63.5mm
Depth: 21.2m to 22.9m
Plies:

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	0	0.0
-50	7945	100.0

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



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: RC12020620
Hole: RT-11-523C
Seam: McLeod
Diameter: 63.5mm
Depth: 21.2m to 22.9m
Plies:

DRY SIZING

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	0	0.0	0.0
-31.5+25	12	0.2	0.2
-25+16	245	3.1	3.2
-16+8	993	12.5	15.7
-8+4	1259	15.8	31.6
-4+2	1561	19.7	51.2
-2	3874	48.8	100.0

ASTM Standard
of Analysis

D4749
(split with RSD)

*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>

Brett Warden
Laboratory Manager



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: RC12020620
 Hole: RT-11-523C
 Seam: McLeod
 Diameter: 63.5mm
 Depth: 21.2m to 22.9m
 Plies:

WET SIZING

**ASTM Standard
 of Analysis**

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	0	0.0	0.0
+25	0	0.0	0.0
+16	85	1.4	1.4
+12.5	163	2.7	4.1
+8	470	7.9	12.0
+4	904	15.1	27.1
+2	1172	19.6	46.7
+1	1306	21.8	68.6
+0.5	636	10.6	79.2
+0.25	303	5.1	84.2
+0.15	131	2.2	86.4
+0.063	301	5.0	91.5
+0.038	142	2.4	93.8
-0.038	368	6.2	100.0

D4749
 (split with RSD)

*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



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: RC12020620

Hole: RT-11-523C
 Seam: McLeod
 Diameter: 63.5mm
 Depth: 21.2m to 22.9m
 Flies:

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	46	18.8	7.11	8.08	6455	0.0
S1.35 - F1.40	59	23.8	6.94	11.64	6197	0.0
S1.40 - F1.45	50	20.3	6.74	18.46	5643	0.0
S1.45 - F1.50	24	9.6	6.57	21.70	5335	0.0
S1.50 - F1.55	12	4.7	5.29	25.10	4996	0.0
S1.55 - F1.60	9	3.6	4.75	26.14	4812	0.0
S1.60 - F1.70	28	11.4	3.89	27.02	4554	*
S1.70 - F1.80	17	6.8	2.51	27.20	4296	*
S1.80	2	1.0	NSS	39.69	3262	*

D4371
 D3172
 D4239
 D720

SIZE: -12.5mm x +1.0mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	35	0.9	7.92	3.10	6799	0.0
S1.30 - F1.35	1315	34.3	8.43	4.06	6546	0.0
S1.35 - F1.40	952	24.8	7.77	8.68	6226	0.0
S1.40 - F1.45	590	15.4	7.50	14.44	5798	0.0
S1.45 - F1.50	343	9.0	7.34	19.00	5452	0.0
S1.50 - F1.55	180	4.7	7.22	23.54	5082	0.0
S1.55 - F1.60	104	2.7	6.73	28.58	4714	0.0
S1.60 - F1.70	116	3.0	5.86	33.78	4239	*
S1.70 - F1.80	64	1.7	4.72	39.71	3682	*
S1.80 - F1.90	35	0.9	4.63	49.52	2944	*
S1.90 - F2.00	30	0.8	3.80	54.89	2448	*
S2.00	69	1.8	4.09	73.12	1194	*

SIZE: 1mm x 0.15mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	6	0.6	6.11	3.36	6983	0.0
S1.30 - F1.35	261	24.7	8.23	2.91	6538	0.0
S1.35 - F1.40	171	16.2	7.67	6.50	6311	0.0
S1.40 - F1.45	88	8.3	7.41	11.53	5944	0.0
S1.45 - F1.50	65	6.1	7.30	15.07	5667	0.0
S1.50 - F1.55	60	5.6	7.48	17.89	5411	0.0
S1.55 - F1.60	40	3.8	7.41	23.61	4965	0.0
S1.60 - F1.70	41	3.8	6.94	31.89	4318	*
S1.70 - F1.80	27	2.5	6.23	41.64	3577	*
S1.80 - F1.90	21	1.9	5.37	50.13	2569	*
S1.90 - F2.00	22	2.1	5.11	57.70	2054	*
S2.00	257	24.3	4.30	77.02	814	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm						
TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	1	0.2	NSS	NSS	NSS	NSS
30 SEC	1	0.2	NSS	NSS	NSS	NSS
60 SEC	1	0.2	NSS	NSS	NSS	NSS
90 SEC	0	0.1	NSS	NSS	NSS	NSS
Tails (T2)	15	4.2	5.54	54.26	2670	0.0
Tails (T1)	341	95.2	5.73	68.93	1490	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)
5.32	81.49	647

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