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: RC12020620

Hole: RT-11-523C
Seam: McLeod
Diameter: 63.5mm
Depth: 21.2m to 22.9m
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	18.8	18.8	7.11	8.08	6455	0.0	D4371
S1.35 - F1.40	23.8	42.6	7.01	10.07	6311	0.0	D3172
S1.40 - F1.45	20.3	62.9	6.93	12.77	6095	0.0	D4239
S1.45 - F1.50	9.6	72.5	6.88	13.96	5995	0.0	D720
S1.50 - F1.55	4.7	77.2	6.78	14.64	5934	0.0	
S1.55 - F1.60	3.6	80.8	6.69	15.15	5884	0.0	
S1.60 - F1.70	11.4	92.2	6.35	16.61	5720	-	
S1.70 - F1.80	6.8	99.0	6.08	17.34	5621	-	
S1.80	1.0	100.0	-	17.56	5598	-	

CUMULATIVE WEIGHT % SIZE: 12.5mm x 1.0mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.9	0.9	7.92	3.10	6799	0.0
S1.30 - F1.35	34.3	35.2	8.42	4.03	6552	0.0
S1.35 - F1.40	24.8	60.0	8.15	5.96	6417	0.0
S1.40 - F1.45	15.4	75.4	8.02	7.69	6291	0.0
S1.45 - F1.50	9.0	84.4	7.95	8.89	6202	0.0
S1.50 - F1.55	4.7	89.1	7.91	9.66	6143	0.0
S1.55 - F1.60	2.7	91.8	7.87	10.22	6101	0.0
S1.60 - F1.70	3.0	94.8	7.81	10.97	6041	-
S1.70 - F1.80	1.7	96.5	7.75	11.47	6000	-
S1.80 - F1.90	0.9	97.4	7.73	11.83	5972	-
S1.90 - F2.00	0.8	98.2	7.69	12.17	5943	-
S2.00	1.8	100.0	7.63	13.27	5857	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.6	0.6	6.11	3.36	6983	0.0
S1.30 - F1.35	24.7	25.3	8.18	2.92	6549	0.0
S1.35 - F1.40	16.2	41.5	7.98	4.32	6456	0.0
S1.40 - F1.45	8.3	49.8	7.89	5.52	6371	0.0
S1.45 - F1.50	6.1	55.9	7.82	6.57	6294	0.0
S1.50 - F1.55	5.6	61.5	7.79	7.60	6213	0.0
S1.55 - F1.60	3.8	65.3	7.77	8.54	6140	0.0
S1.60 - F1.70	3.8	69.2	7.72	9.83	6039	-
S1.70 - F1.80	2.5	71.7	7.67	10.95	5953	-
S1.80 - F1.90	1.9	73.6	7.61	11.98	5863	-
S1.90 - F2.00	2.1	75.7	7.54	13.23	5759	-
S2.00	24.3	100.0	6.75	28.73	4557	-

FROTH FLOTATION

CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm						
TIME	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
15 SEC (P2)	0.2	0.2	-	-	-	-
30 SEC (P3)	0.2	0.4	-	-	-	-
60 SEC (P4)	0.2	0.6	-	-	-	-
90 SEC (P5)	0.1	0.6	-	-	-	-
Tails (T2)	4.2	4.8	-	-	-	-
Tails (T1)	95.2	100.0	-	-	-	-

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm		
Mois %	Ash %	CV (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

Robb Trend Project

Coal Sample Results – 2012 Core Program

Silkstone Seam

Robb Trend Project

Coal Sample Results – 2012 Core Program

RT-11-334C

Silkstone Seam

Sample Horizon: 25. to 26.1

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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: RC12020974

Hole: RT-11-334C
Seam: Silkstone
Diameter: 63.5mm
Depth: 25m to 26.1m
Plies: Silkstone

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	2800	5.91	9.48	33.21	51.40	0.25	6233	0.01	1.40	1.35

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: 25m to 26.1m
Plies: Silkstone

DRY SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+0.15	2016	98.8	98.8
-0.15	25	1.2	100.0

***All losses allocated to -0.15mm 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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Depth: 25m to 26.1m
Plies: Silkstone

ANALYSIS

ASTM Standard of Analysis

FLOAT SINK ANALYSIS **AIR-DRIED BASIS**

SIZE: +0.15mm							
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI	
F1.30	78	3.9	6.90	2.80	6732	0.0	
S1.30 - F1.35	1216	60.7	6.61	4.41	6548	0.0	D4371
S1.35 - F1.40	364	18.2	6.61	7.67	6333	0.0	D3172
S1.40 - F1.45	131	6.5	6.44	11.41	6044	0.0	D4239
S1.45 - F1.50	44	2.2	6.36	14.51	5803	0.0	D720
S1.50 - F1.55	28	1.4	6.50	19.99	5359	0.0	
S1.55 - F1.60	12	0.6	6.43	22.90	5108	0.0	
S1.60 - F1.70	23	1.1	6.23	34.12	4179	*	
S1.70 - F1.80	22	1.1	5.63	35.43	3871	*	
S1.80 - F1.90	36	1.8	4.73	42.88	3057	*	
S1.90 - F2.00	20	1.0	5.36	52.51	2352	*	
S2.00	29	1.4	5.09	68.05	1082	*	

FINES

SIZE: -0.15mm			
Mois %	Ash %	GCV (kcal/kg)	FSI
5.62	35.20	3971	0.0

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: RC12020974

Hole: RT-11-334C
Seam: Silkstone
Diameter: 63.5mm
Depth: 25m to 26.1m
Plies: Silkstone

ANALYSIS

ASTM Standard of Analysis

FLOAT SINK ANALYSIS

AIR-DRIED BASIS

CUMULATIVE WEIGHT % SIZE: +0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	3.9	3.9	6.90	2.80	6732	0.0
S1.30 - F1.35	60.7	64.6	6.63	4.31	6559	0.0
S1.35 - F1.40	18.2	82.7	6.62	5.05	6509	0.0
S1.40 - F1.45	6.5	89.3	6.61	5.52	6475	0.0
S1.45 - F1.50	2.2	91.5	6.60	5.73	6459	0.0
S1.50 - F1.55	1.4	92.9	6.60	5.95	6443	0.0
S1.55 - F1.60	0.6	93.5	6.60	6.06	6434	0.0
S1.60 - F1.70	1.1	94.6	6.60	6.40	6407	-
S1.70 - F1.80	1.1	95.7	6.59	6.73	6377	-
S1.80 - F1.90	1.8	97.6	6.55	7.41	6315	-
S1.90 - F2.00	1.0	98.6	6.54	7.86	6275	-
S2.00	1.4	100.0	6.52	8.73	6200	-

D4371
D3172
D4239
D720

FINES

CUMULATIVE WEIGHT % SIZE: -0.15mm			
Mois %	Ash %	CV (kcal/kg)	FSI
5.62	35.20	3971	0.0

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-11-614C

Silkstone Seam

Sample Horizon: 40.1 to 42.2

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1600 Oxford Tower
10235-101 Street
Edmonton,AB
T5J 3G1,Canada

WORKORDER: RC12020625

Hole: RT-11-614C
Seam: Silkstone
Diameter: 63.5mm
Depth: 40.1m to 42.2m
Plies: Wee

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	6750	7.25	14.75	30.16	47.84	0.26	5707	0.03	1.47	1.40

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: RC12020625

Hole: RT-11-614C
Seam: Silkstone
Diameter: 63.5mm
Depth: 40.1m to 42.2m
Plies: Wee

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	92	1.4
-50	6658	98.6

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-11-614C
Seam: Silkstone
Diameter: 63.5mm
Depth: 40.1m to 42.2m
Plies: Wee

DRY SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	174	2.6	2.6
-31.5+25	156	2.3	4.9
-25+16	403	6.0	10.9
-16+8	735	10.9	21.7
-8+4	899	13.3	35.1
-4+2	1220	18.1	53.1
-2	3163	46.9	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: RC12020625

Hole: RT-11-614C
Seam: Silkstone
Diameter: 63.5mm
Depth: 40.1m to 42.2m
Plies: Wee

WET SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	0	0.0	0.0
+25	32	0.6	0.6
+16	190	3.7	4.4
+12.5	124	2.4	6.8
+8	344	6.8	13.6
+4	756	14.9	28.5
+2	1025	20.2	48.7
+1	1219	24.0	72.7
+0.5	755	14.9	87.5
+0.25	297	5.9	93.4
+0.15	94	1.8	95.2
+0.063	109	2.1	97.4
+0.038	40	0.8	98.2
-0.038	94	1.8	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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Seam: Silkstone
Diameter: 63.5mm
Depth: 40.1m to 42.2m
Plies: Wee

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	14	4.2	7.86	4.45	6543	0.0	D4371
S1.35 - F1.40	175	50.8	7.72	8.49	6185	0.0	D3172
S1.40 - F1.45	67	19.4	7.13	13.70	5815	0.0	D4239
S1.45 - F1.50	47	13.6	7.00	19.43	5478	0.0	D720
S1.50 - F1.55	10	2.9	6.07	20.68	5180	0.0	
S1.55 - F1.60	14	4.1	5.90	23.07	4931	0.0	
S1.60 - F2.00	7	2.0	4.95	37.75	3391	*	
S2.00	11	3.1	3.55	72.97	910	*	

SIZE: -12.5mm x +1.0mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	131	3.9	8.96	2.23	6562	0.0
S1.30 - F1.35	1077	32.1	8.72	3.49	6495	0.0
S1.35 - F1.40	830	24.7	8.31	6.97	6264	0.0
S1.40 - F1.45	451	13.4	8.05	12.75	5839	0.0
S1.45 - F1.50	285	8.5	7.34	17.99	5469	0.0
S1.50 - F1.55	182	5.4	7.55	23.65	5003	0.0
S1.55 - F1.60	109	3.2	7.30	28.29	4642	0.0
S1.60 - F1.70	135	4.0	6.98	33.29	4129	*
S1.70 - F1.80	67	2.0	6.57	40.28	3541	*
S1.80 - F1.90	27	0.8	6.28	48.06	2887	*
S1.90 - F2.00	22	0.6	5.29	57.01	2149	*
S2.00	40	1.2	4.01	71.99	1110	*

SIZE: 1mm x 0.15mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.35	419	37.1	7.80	2.66	6581	0.0
S1.35 - F1.40	257	22.7	6.58	5.52	6350	0.0
S1.40 - F1.45	93	8.2	6.92	10.50	6008	0.0
S1.45 - F1.50	73	6.5	7.04	14.68	5693	0.0
S1.50 - F1.55	61	5.4	7.41	18.28	5366	0.0
S1.55 - F1.60	42	3.7	7.47	22.83	4991	0.0
S1.60 - F1.70	53	4.7	7.56	32.28	4210	*
S1.70 - F1.80	40	3.6	7.36	42.01	3391	*
S1.80 - F1.90	14	1.2	6.68	49.39	2801	*
S1.90 - F2.00	17	1.5	6.37	55.76	2326	*
S2.00	60	5.3	3.98	67.32	955	*

FINES

Size	Mois %	Ash %	GCV (kcal/kg)	FSI
-0.15mm + 0.063mm	7.48	35.21	3931	0.0
-0.063mm + 0.038mm	6.82	52.79	2679	0.0
-0.038mm	7.50	70.03	1220	0.0

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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	4.2	4.2	7.86	4.45	6543	0.0	D4371
S1.35 - F1.40	50.8	55.0	7.73	8.18	6212	0.0	D3172
S1.40 - F1.45	19.4	74.3	7.57	9.62	6109	0.0	D4239
S1.45 - F1.50	13.6	87.9	7.49	11.14	6011	0.0	D720
S1.50 - F1.55	2.9	90.8	7.44	11.44	5984	0.0	
S1.55 - F1.60	4.1	94.9	7.37	11.94	5939	0.0	
S1.60 - F2.00	2.0	96.9	7.32	12.48	5886	-	
S2.00	3.1	100.0	7.21	14.34	5733	-	

CUMULATIVE WEIGHT % SIZE: 12.5mm x 1.0mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	3.9	3.9	8.96	2.23	6562	0.0
S1.30 - F1.35	32.1	36.0	8.75	3.35	6503	0.0
S1.35 - F1.40	24.7	60.7	8.57	4.83	6405	0.0
S1.40 - F1.45	13.4	74.2	8.47	6.26	6303	0.0
S1.45 - F1.50	8.5	82.7	8.36	7.47	6217	0.0
S1.50 - F1.55	5.4	88.1	8.31	8.47	6142	0.0
S1.55 - F1.60	3.2	91.3	8.27	9.17	6089	0.0
S1.60 - F1.70	4.0	95.4	8.22	10.19	6006	-
S1.70 - F1.80	2.0	97.4	8.18	10.80	5956	-
S1.80 - F1.90	0.8	98.2	8.17	11.11	5931	-
S1.90 - F2.00	0.6	98.8	8.15	11.41	5906	-
S2.00	1.2	100.0	8.10	12.13	5849	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.35	37.1	37.1	7.80	2.66	6581	0.0
S1.35 - F1.40	22.7	59.9	7.34	3.75	6493	0.0
S1.40 - F1.45	8.2	68.1	7.29	4.56	6435	0.0
S1.45 - F1.50	6.5	74.6	7.26	5.44	6370	0.0
S1.50 - F1.55	5.4	80.0	7.27	6.31	6303	0.0
S1.55 - F1.60	3.7	83.7	7.28	7.03	6245	0.0
S1.60 - F1.70	4.7	88.4	7.30	8.38	6136	-
S1.70 - F1.80	3.6	92.0	7.30	9.69	6029	-
S1.80 - F1.90	1.2	93.2	7.29	10.22	5986	-
S1.90 - F2.00	1.5	94.7	7.28	10.95	5928	-
S2.00	5.3	100.0	7.10	13.93	5665	-

FINES

Size	Mois %	Ash %	GCV (kcal/kg)	FSI
-0.15mm + 0.063mm	7.48	35.21	3931	0.0
-0.063mm + 0.038mm	6.82	52.79	2679	0.0
-0.038mm	7.50	70.03	1220	0.0

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

Mynheer Seam

Robb Trend Project

Coal Sample Results – 2012 Core Program

RT-11-344BC

Mynheer Seam

Sample Horizon: 52.8 to 59.0

ALS LABORATORY GROUP – COAL DIVISION
RICHMOND BC CANADA
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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: RC12020422

Hole: RT-11-334BC
Seam: Mynheer
Diameter: 63.5mm
Depth: 52.8m to 59.0m
Plies: Upper

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	27230	5.31	25.96	28.72	40.01	0.29	5032	0.02	1.54	1.49

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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Laboratory Manager

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Diameter: 63.5mm
Depth: 52.8m to 59.0m
Plies: Upper

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	764	2.8
-50	26466	97.2

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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Depth: 52.8m to 59.0m
Plies: Upper

DRY SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	1981	7.3	7.3
-31.5+25	2125	7.8	15.1
-25+16	3153	11.6	26.7
-16+8	4125	15.1	41.8
-8+4	3657	13.4	55.2
-4+2	3763	13.8	69.1
-2	8426	30.9	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>

Brett Warden
Laboratory Manager

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Diameter: 63.5mm
Depth: 52.8m to 59.0m
Plies: Upper

WET SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	381	1.9	1.9
+25	549	2.7	4.6
+16	1027	5.0	9.6
+12.5	702	3.4	13.1
+8	1437	7.1	20.1
+4	3538	17.4	37.5
+2	4103	20.1	57.6
+1	3824	18.8	76.4
+0.5	2188	10.7	87.2
+0.25	1052	5.2	92.3
+0.15	453	2.2	94.5
+0.063	510	2.5	97.1
+0.038	246	1.2	98.3
-0.038	354	1.7	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: 52.8m to 59.0m
Plies: Upper

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	34	1.3	6.07	6.44	6703	0.5	D4371
S1.30 - F1.35	225	8.5	6.51	7.28	6631	0.0	D3172
S1.35 - F1.40	721	27.2	6.37	11.09	6295	0.0	D4239
S1.40 - F1.45	328	12.4	6.30	15.63	5922	0.0	D720
S1.45 - F1.50	237	8.9	5.82	20.13	5588	0.0	
S1.50 - F1.55	72	2.7	5.27	28.52	4996	0.0	
S1.55 - F1.60	15	0.6	5.20	32.50	4685	0.0	
S1.60 - F1.70	70	2.6	4.39	40.12	4012	*	
S1.70 - F1.80	259	9.8	3.61	51.02	3178	*	
S1.80 - F1.90	469	17.7	3.19	54.88	2813	*	
S1.90 - F2.00	148	5.6	2.88	55.09	2371	*	
S2.00	73	2.7	1.92	60.99	1469	*	

SIZE: -12.5mm x +1.0mm

S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	52	1.1	6.56	3.86	6894	0.5
S1.30 - F1.35	1277	26.8	6.74	5.66	6586	0.0
S1.35 - F1.40	1153	24.2	6.59	10.01	6302	0.0
S1.40 - F1.45	595	12.5	6.36	14.57	5913	0.0
S1.45 - F1.50	322	6.8	6.26	18.91	5538	0.0
S1.50 - F1.55	190	4.0	5.88	24.54	5122	0.0
S1.55 - F1.60	128	2.7	5.64	30.85	4666	0.0
S1.60 - F1.70	226	4.8	5.26	37.71	4064	*
S1.70 - F1.80	148	3.1	4.87	47.02	3295	*
S1.80 - F1.90	115	2.4	4.59	54.59	2703	*
S1.90 - F2.00	105	2.2	4.20	60.81	2187	*
S2.00	446	9.4	4.10	74.46	841	*

SIZE: 1mm x 0.15mm

S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	16	1.2	6.69	5.40	6648	0.0
S1.30 - F1.35	276	20.1	6.76	4.28	6655	0.0
S1.35 - F1.40	207	15.1	6.78	8.27	6323	0.0
S1.40 - F1.45	127	9.2	6.52	12.71	5980	0.0
S1.45 - F1.50	88	6.4	6.73	15.77	5707	0.0
S1.50 - F1.55	67	4.9	6.64	18.99	5416	0.0
S1.55 - F1.60	47	3.4	6.11	25.38	4943	0.0
S1.60 - F1.70	56	4.1	5.56	34.27	4229	*
S1.70 - F1.80	42	3.1	5.51	43.40	3506	*
S1.80 - F1.90	37	2.7	5.31	51.87	2794	*
S1.90 - F2.00	36	2.7	5.21	59.26	2137	*
S2.00	373	27.1	4.78	76.21	650	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm

TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	30	8.4	6.81	12.74	6008	0.0
30 SEC	16	4.6	6.85	13.32	5934	0.0
60 SEC	12	3.4	6.87	14.43	5824	0.0
90 SEC	7	2.0	6.42	15.72	5729	0.0
Tails (T2)	15	4.2	7.47	39.40	3675	0.0
Tails (T1)	274	77.3	7.08	60.47	1829	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	67.76	1323

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

9-Aug-12

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

WORKORDER: RC12020422

Hole: RT-11-334BC
Seam: Mynheer
Diameter: 63.5mm
Depth: 52.8m to 59.0m
Plies: Upper

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	1.3	1.3	6.07	6.44	6703	0.5
S1.30 - F1.35	8.5	9.8	6.45	7.17	6641	0.1
S1.35 - F1.40	27.2	37.0	6.39	10.05	6386	0.0
S1.40 - F1.45	12.4	49.4	6.37	11.45	6270	0.0
S1.45 - F1.50	8.9	58.3	6.28	12.78	6166	0.0
S1.50 - F1.55	2.7	61.0	6.24	13.48	6114	0.0
S1.55 - F1.60	0.6	61.6	6.23	13.66	6100	0.0
S1.60 - F1.70	2.6	64.2	6.15	14.74	6015	-
S1.70 - F1.80	9.8	74.0	5.82	19.53	5640	-
S1.80 - F1.90	17.7	91.7	5.31	26.35	5095	-
S1.90 - F2.00	5.6	97.3	5.17	28.00	4938	-
S2.00	2.7	100.0	5.08	28.90	4843	-

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	1.1	1.1	6.56	3.86	6894	0.5
S1.30 - F1.35	26.8	27.9	6.73	5.59	6598	0
S1.35 - F1.40	24.2	52.2	6.67	7.64	6460	0
S1.40 - F1.45	12.5	64.7	6.61	8.98	6355	0
S1.45 - F1.50	6.8	71.5	6.57	9.92	6277	0
S1.50 - F1.55	4.0	75.4	6.54	10.70	6216	0
S1.55 - F1.60	2.7	78.1	6.51	11.39	6163	0
S1.60 - F1.70	4.8	82.9	6.44	12.90	6042	-
S1.70 - F1.80	3.1	86.0	6.38	14.13	5943	-
S1.80 - F1.90	2.4	88.4	6.33	15.24	5854	-
S1.90 - F2.00	2.2	90.6	6.28	16.35	5765	-
S2.00	9.4	100.0	6.07	21.79	5304	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	1.2	1.2	6.69	5.40	6648	0.0
S1.30 - F1.35	20.1	21.3	6.76	4.34	6655	0.00
S1.35 - F1.40	15.1	36.4	6.77	5.97	6517	0.00
S1.40 - F1.45	9.2	45.6	6.72	7.34	6408	0.00
S1.45 - F1.50	6.4	52.0	6.72	8.38	6322	0.00
S1.50 - F1.55	4.9	56.9	6.71	9.30	6244	0.00
S1.55 - F1.60	3.4	60.4	6.68	10.21	6170	0.00
S1.60 - F1.70	4.1	64.4	6.61	11.73	6047	-
S1.70 - F1.80	3.1	67.5	6.56	13.17	5931	-
S1.80 - F1.90	2.7	70.2	6.51	14.66	5811	-
S1.90 - F2.00	2.7	72.9	6.46	16.28	5677	-
S2.00	27.1	100.0	6.01	32.54	4313	-

FROTH FLOTATION

CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm						
TIME	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
15 SEC (P2)	8.4	8.4	6.81	12.74	6008	0.0
30 SEC (P3)	4.6	13.0	6.82	12.94	5982	0.00
60 SEC (P4)	3.4	16.4	6.83	13.26	5949	0.00
90 SEC (P5)	2.0	18.5	6.79	13.53	5925	0.00
Tails (T2)	4.2	22.7	6.92	18.35	5505	0.00
Tails (T1)	77.3	100.0	7.04	50.92	2663	0.00

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm		
Mois %	Ash %	CV (kcal/kg)
6.77	67.76	1323

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-11-334BC

Mynheer Seam

Sample Horizon: 60.0 to 60.95

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WORKORDER: RC12020978

Hole: RT-11-334BC
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Diameter: 63.5mm
Depth: 60.0m to 60.95m
Plies: Lower

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD
Raw Coal	5528	8.84	49.87	19.37	21.92	0.23	2930	0.01	1.75

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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Plies: Lower

DRY SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+0.15	3703	89.3	89.3
-0.15	443	10.7	100.0

***All losses allocated to -0.15mm 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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Plies: Lower

ANALYSIS

ASTM Standard of Analysis

FLOAT SINK ANALYSIS

AIR-DRIED BASIS

SIZE: +0.15mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	23	0.6	7.42	5.42	6631	0.0
S1.30 - F1.35	547	15.0	7.26	7.48	6531	0.0
S1.35 - F1.40	575	15.7	6.96	11.99	6197	0.0
S1.40 - F1.45	270	7.4	6.81	16.30	5820	0.0
S1.45 - F1.50	131	3.6	6.76	21.03	5373	0.0
S1.50 - F1.55	94	2.6	6.56	24.43	5139	0.0
S1.55 - F1.60	31	0.8	6.67	26.94	4862	0.0
S1.60 - F1.70	29	0.8	6.49	29.89	4585	*
S1.70 - F1.80	12	0.3	6.44	35.82	4148	*
S1.80 - F1.90	15	0.4	6.41	47.07	3463	*
S1.90 - F2.00	14	0.4	5.23	57.46	2393	*
S2.00	1911	52.3	8.04	84.34	201	*

D4371
D3172
D4239
D720

FINES

SIZE: -0.15mm			
Mois %	Ash %	GCV (kcal/kg)	FSI
10.13	78.79	470	0.0

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-11-334BC
Seam: Mynheer
Diameter: 63.5mm
Depth: 60.0m to 60.95m
Plies: Lower

ANALYSIS

ASTM Standard of Analysis

FLOAT SINK ANALYSIS

AIR-DRIED BASIS

CUMULATIVE WEIGHT % SIZE: +0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.6	0.6	7.42	5.42	6631	0.0
S1.30 - F1.35	15.0	15.6	7.27	7.40	6535	0.0
S1.35 - F1.40	15.7	31.3	7.11	9.70	6365	0.0
S1.40 - F1.45	7.4	38.7	7.05	10.96	6261	0.0
S1.45 - F1.50	3.6	42.3	7.03	11.82	6186	0.0
S1.50 - F1.55	2.6	44.9	7.00	12.54	6126	0.0
S1.55 - F1.60	0.8	45.7	7.00	12.81	6102	0.0
S1.60 - F1.70	0.8	46.5	6.99	13.10	6076	-
S1.70 - F1.80	0.3	46.9	6.98	13.26	6062	-
S1.80 - F1.90	0.4	47.3	6.98	13.56	6040	-
S1.90 - F2.00	0.4	47.7	6.97	13.91	6011	-
S2.00	52.3	100.0	7.53	50.76	2971	-

D4371
D3172
D4239
D720

FINES

CUMULATIVE WEIGHT % SIZE: -0.15mm			
Mois %	Ash %	CV (kcal/kg)	FSI
10.13	78.79	470	0.0

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-11-430C

Mynheer Seam

Sample Horizon: 43.6 to 50.6

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

WORKORDER: RC12020622

Hole: RT-11-430C
Seam: Mynheer
Diameter: 63.5mm
Depth: 43.6m to 50.6m
Plies: Upper

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	25700	6.64	30.00	27.98	35.38	0.16	4595	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.

<original signed by>

Brett Warden
Laboratory Manager

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CERTIFICATE OF ANALYSIS

Preliminary Report
Final Report

9-Aug-12

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SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	547	2.1
-50	25153	97.9

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

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DRY SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	1099	4.3	4.3
-31.5+25	584	2.3	6.5
-25+16	1622	6.3	12.9
-16+8	2442	9.5	22.4
-8+4	3020	11.8	34.1
-4+2	7150	27.8	61.9
-2	9783	38.1	100.0

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

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Plies: Upper

WET SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	366	1.9	1.9
+25	153	0.8	2.7
+16	380	2.0	4.7
+12.5	357	1.9	6.5
+8	1206	6.3	12.8
+4	2465	12.8	25.6
+2	5107	26.5	52.0
+1	3763	19.5	71.6
+0.5	1788	9.3	80.8
+0.25	1033	5.4	86.2
+0.15	437	2.3	88.5
+0.063	725	3.8	92.2
+0.038	349	1.8	94.0
-0.038	1148	6.0	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

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

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Plies: Upper

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	66	5.3	7.17	5.90	6631	0.0	D4371
S1.35 - F1.40	272	22.0	6.75	10.37	6300	0.0	D3172
S1.40 - F1.45	253	20.4	7.10	13.12	5996	0.0	D4239
S1.45 - F1.50	50	4.0	6.64	17.19	5473	0.0	D720
S1.50 - F1.55	33	2.7	6.13	20.93	4984	0.0	
S1.55 - F1.60	116	9.3	5.48	23.06	4458	0.0	
S1.60 - F1.70	61	4.9	4.80	27.97	3935	*	
S1.70 - F1.80	206	16.6	4.24	29.35	3623	*	
S1.80 - F1.90	50	4.0	3.38	36.61	2761	*	
S1.90 - F2.00	117	9.4	3.30	37.10	2565	*	
S2.00	18	1.5	2.40	53.80	1402	*	

SIZE: -12.5mm x +1.0mm

S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	33	0.7	7.51	4.23	6598	0.0
S1.30 - F1.35	789	17.0	7.80	4.79	6543	0.0
S1.35 - F1.40	1390	30.0	7.25	8.85	6302	0.0
S1.40 - F1.45	708	15.3	6.56	13.48	5939	0.0
S1.45 - F1.50	400	8.6	6.90	18.27	5559	0.0
S1.50 - F1.55	197	4.2	6.65	24.13	5082	0.0
S1.55 - F1.60	111	2.4	6.42	29.69	4623	0.0
S1.60 - F1.70	197	4.3	5.94	36.27	4076	*
S1.70 - F1.80	150	3.2	5.55	45.65	3358	*
S1.80 - F1.90	135	2.9	5.06	52.28	2722	*
S1.90 - F2.00	105	2.3	4.59	57.89	2156	*
S2.00	421	9.1	3.69	71.39	864	*

SIZE: 1mm x 0.15mm

S.G	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.35	126	10.7	7.42	3.60	6663	0.0
S1.35 - F1.40	201	17.1	7.07	7.22	6390	0.0
S1.40 - F1.45	109	9.2	6.67	12.18	6013	0.0
S1.45 - F1.50	73	6.2	6.70	15.93	5693	0.0
S1.50 - F1.55	54	4.6	6.85	19.92	5342	0.0
S1.55 - F1.60	28	2.3	6.70	26.07	4867	0.0
S1.60 - F1.70	49	4.2	6.55	33.62	4236	*
S1.70 - F1.80	41	3.5	6.41	43.32	3446	*
S1.80 - F1.90	32	2.7	6.26	51.65	2763	*
S1.90 - F2.00	44	3.7	6.46	58.79	2109	*
S2.00	422	35.8	5.11	79.09	387	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm

TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	20	5.5	7.12	13.43	5903	0.0
30 SEC	3	0.8	NSS	16.00	5679	0.0
60 SEC	3	0.7	NSS	18.09	NSS	0.0
90 SEC	2	0.4	NSS	18.35	NSS	0.0
Tails (T2)	9	2.5	7.11	59.39	1879	0.0
Tails (T1)	330	90.1	7.27	72.25	862	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)
5.87	83.06	365

NSS = Not Sufficient Sample

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