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

9-Aug-12

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

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	5.3	5.3	7.17	5.90	6631	0.0
S1.35 - F1.40	22.0	27.2	6.83	9.50	6364	0.0
S1.40 - F1.45	20.4	47.6	6.95	11.05	6207	0.0
S1.45 - F1.50	4.0	51.6	6.92	11.53	6150	0.0
S1.50 - F1.55	2.7	54.3	6.88	11.99	6092	0.0
S1.55 - F1.60	9.3	63.6	6.68	13.61	5853	0.0
S1.60 - F1.70	4.9	68.6	6.54	14.64	5715	-
S1.70 - F1.80	16.6	85.1	6.09	17.51	5308	-
S1.80 - F1.90	4.0	89.1	5.97	18.36	5194	-
S1.90 - F2.00	9.4	98.5	5.72	20.16	4942	-
S2.00	1.5	100.0	5.67	20.64	4891	-

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	0.7	0.7	7.51	4.23	6598	0.0
S1.30 - F1.35	17.0	17.7	7.79	4.77	6545	0.0
S1.35 - F1.40	30.0	47.7	7.45	7.33	6392	0.0
S1.40 - F1.45	15.3	63.0	7.23	8.82	6282	0.0
S1.45 - F1.50	8.6	71.6	7.19	9.96	6195	0.0
S1.50 - F1.55	4.2	75.9	7.16	10.75	6133	0.0
S1.55 - F1.60	2.4	78.2	7.14	11.33	6087	0.0
S1.60 - F1.70	4.3	82.5	7.08	12.62	5983	-
S1.70 - F1.80	3.2	85.7	7.02	13.87	5884	-
S1.80 - F1.90	2.9	88.7	6.96	15.13	5780	-
S1.90 - F2.00	2.3	90.9	6.90	16.19	5690	-
S2.00	9.1	100.0	6.61	21.21	5251	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
S1.30 - F1.35	10.7	10.7	7.42	3.60	6663	0.0
S1.35 - F1.40	17.1	27.8	7.20	5.83	6495	0.0
S1.40 - F1.45	9.2	37.0	7.07	7.41	6375	0.0
S1.45 - F1.50	6.2	43.2	7.02	8.63	6278	0.0
S1.50 - F1.55	4.6	47.8	7.00	9.71	6188	0.0
S1.55 - F1.60	2.3	50.1	6.99	10.47	6126	0.0
S1.60 - F1.70	4.2	54.3	6.95	12.25	5981	-
S1.70 - F1.80	3.5	57.8	6.92	14.14	5827	-
S1.80 - F1.90	2.7	60.5	6.89	15.81	5690	-
S1.90 - F2.00	3.7	64.2	6.87	18.29	5484	-
S2.00	35.8	100.0	6.24	40.07	3658	-

FROTH FLOTATION

CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm						
TIME	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
15 SEC (P2)	5.5	5.5	7.12	13.43	5903	0.0
30 SEC (P3)	0.8	6.3	-	13.77	5874	0.0
60 SEC (P4)	0.7	7.0	-	14.20	-	0.0
90 SEC (P5)	0.4	7.4	-	14.45	-	0.0
Tails (T2)	2.5	9.9	-	25.62	-	0.0
Tails (T1)	90.1	100.0	-	67.64	-	0.0

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm		
Mois %	Ash %	CV (kcal/kg)
5.87	83.06	365

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-11-499C

Mynheer Seam

Sample Horizon: 54.6 to 59.2

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Preliminary Report
Final Report

9-Aug-12

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

WORKORDER: RC12020559

Hole: RT-11-499C
Seam: Mynheer
Diameter: 63.5m
Depth: 54.6m to 59.2m
Plies: Upper

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	19450	5.68	24.91	28.66	40.75	0.18	4981	0.01	1.55	1.48

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: RC12020559

Hole: RT-11-499C
Seam: Mynheer
Diameter: 63.5m
Depth: 54.6m to 59.2m
Plies: Upper

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	960	4.9
-50	18490	95.1

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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Plies: Upper

DRY SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	2211	11.4	11.4
-31.5+25	974	5.0	16.4
-25+16	2645	13.6	30.0
-16+8	3241	16.7	46.6
-8+4	2834	14.6	61.2
-4+2	2862	14.7	75.9
-2	4683	24.1	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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WORKORDER: RC12020559

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Seam: Mynheer
Diameter: 63.5m
Depth: 54.6m to 59.2m
Plies: Upper

WET SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	733	5.1	5.1
+25	107	0.7	5.8
+16	588	4.1	9.9
+12.5	523	3.6	13.5
+8	1583	10.9	24.4
+4	2882	19.9	44.3
+2	3068	21.2	65.5
+1	2433	16.8	82.3
+0.5	1193	8.2	90.6
+0.25	577	4.0	94.6
+0.15	216	1.5	96.1
+0.063	206	1.4	97.5
+0.038	82	0.6	98.1
-0.038	282	1.9	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.

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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	56	2.8	6.59	6.25	6526	0.0	D4371
S1.35 - F1.40	344	17.6	6.24	10.17	6280	0.0	D3172
S1.40 - F1.45	322	16.5	5.81	15.62	5870	0.0	D4239
S1.45 - F1.50	184	9.4	5.81	19.42	5521	0.0	D720
S1.50 - F1.55	147	7.5	5.11	24.97	5079	0.0	
S1.55 - F1.60	27	1.4	5.06	29.29	4475	0.0	
S1.60 - F1.70	197	10.1	3.95	35.14	4260	*	
S1.70 - F1.80	184	9.4	3.83	45.95	3386	*	
S1.80 - F1.90	174	8.9	3.29	52.06	2992	*	
S1.90 - F2.00	109	5.6	2.19	57.93	2398	*	
S2.00	210	10.8	2.41	61.53	1889	*	

SIZE: -12.5mm x +1.0mm

S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	100	2.0	7.78	3.27	6667	0.0
S1.30 - F1.35	1099	21.9	7.72	5.29	6481	0.0
S1.35 - F1.40	1346	26.8	7.36	9.25	6230	0.0
S1.40 - F1.45	762	15.1	6.92	13.98	5870	0.0
S1.45 - F1.50	408	8.1	6.48	18.45	5504	0.0
S1.50 - F1.55	238	4.7	6.17	23.41	5113	0.0
S1.55 - F1.60	155	3.1	5.84	29.24	4673	0.0
S1.60 - F1.70	187	3.7	5.55	35.28	4141	*
S1.70 - F1.80	133	2.6	4.70	44.34	3448	*
S1.80 - F1.90	113	2.2	4.37	52.40	2799	*
S1.90 - F2.00	95	1.9	4.11	59.65	2214	*
S2.00	392	7.8	3.42	74.59	891	*

SIZE: 1mm x 0.15mm

S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	8	0.8	5.51	3.16	6768	0.0
S1.30 - F1.35	259	24.7	7.17	3.89	6627	0.0
S1.35 - F1.40	220	20.9	6.45	7.62	6338	0.0
S1.40 - F1.45	104	9.9	6.04	12.29	6023	0.0
S1.45 - F1.50	64	6.1	5.83	15.62	5750	0.0
S1.50 - F1.55	61	5.8	5.89	18.09	5514	0.0
S1.55 - F1.60	35	3.4	5.72	23.72	5043	0.0
S1.60 - F1.70	44	4.2	5.36	32.14	4327	*
S1.70 - F1.80	31	2.9	4.96	40.98	3599	*
S1.80 - F1.90	20	1.9	4.59	48.92	2961	*
S1.90 - F2.00	19	1.8	4.63	56.04	2359	*
S2.00	184	17.5	4.14	75.87	571	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm

TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	33	17.5	7.24	10.84	6075	0.0
30 SEC	12	6.6	7.10	10.93	6061	0.0
60 SEC	9	4.7	7.09	11.95	5970	0.0
90 SEC	3	1.4	NSS	13.71	5843	0.0
Tails (T2)	10	5.3	6.40	39.76	3678	0.0
Tails (T1)	122	64.6	6.29	50.49	2577	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)
6.08	57.45	2056

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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WORKORDER: RC12020559

Hole: RT-11-499C
Seam: Mynheer
Diameter: 63.5m
Depth: 54.6m to 59.2m
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
F1.35	2.8	2.8	6.59	6.25	6526	0.0
S1.35 - F1.40	17.6	20.5	6.29	9.62	6315	0.0
S1.40 - F1.45	16.5	37.0	6.08	12.30	6116	0.0
S1.45 - F1.50	9.4	46.4	6.02	13.75	5995	0.0
S1.50 - F1.55	7.5	53.9	5.89	15.31	5867	0.0
S1.55 - F1.60	1.4	55.3	5.87	15.66	5833	0.0
S1.60 - F1.70	10.1	65.3	5.58	18.66	5590	-
S1.70 - F1.80	9.4	74.7	5.36	22.10	5313	-
S1.80 - F1.90	8.9	83.6	5.14	25.28	5066	-
S1.90 - F2.00	5.6	89.2	4.95	27.33	4899	-
S2.00	10.8	100.0	4.68	31.01	4575	-

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	2.0	2.0	7.78	3.27	6667	0.0
S1.30 - F1.35	21.9	23.9	7.73	5.12	6497	0.0
S1.35 - F1.40	26.8	50.6	7.53	7.30	6356	0.0
S1.40 - F1.45	15.1	65.8	7.39	8.84	6244	0.0
S1.45 - F1.50	8.1	73.9	7.29	9.90	6163	0.0
S1.50 - F1.55	4.7	78.6	7.22	10.71	6099	0.0
S1.55 - F1.60	3.1	81.7	7.17	11.41	6046	0.0
S1.60 - F1.70	3.7	85.4	7.10	12.45	5963	-
S1.70 - F1.80	2.6	88.1	7.03	13.40	5887	-
S1.80 - F1.90	2.2	90.3	6.96	14.37	5811	-
S1.90 - F2.00	1.9	92.2	6.90	15.30	5737	-
S2.00	7.8	100.0	6.63	19.93	5359	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.8	0.8	5.51	3.16	6768	0.0
S1.30 - F1.35	24.7	25.4	7.12	3.87	6631	0.0
S1.35 - F1.40	20.9	46.4	6.82	5.56	6499	0.0
S1.40 - F1.45	9.9	56.3	6.68	6.75	6415	0.0
S1.45 - F1.50	6.1	62.4	6.60	7.62	6349	0.0
S1.50 - F1.55	5.8	68.2	6.54	8.51	6278	0.0
S1.55 - F1.60	3.4	71.6	6.50	9.23	6220	0.0
S1.60 - F1.70	4.2	75.8	6.44	10.50	6115	-
S1.70 - F1.80	2.9	78.7	6.38	11.63	6021	-
S1.80 - F1.90	1.9	80.7	6.34	12.52	5948	-
S1.90 - F2.00	1.8	82.5	6.30	13.47	5870	-
S2.00	17.5	100.0	5.92	24.42	4941	-

FROTH FLOTATION

CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm						
TIME	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
15 SEC (P2)	17.5	17.5	7.24	10.84	6075	0.0
30 SEC (P3)	6.6	24.0	7.20	10.86	6071	0.0
60 SEC (P4)	4.7	28.7	7.18	11.04	6055	0.0
90 SEC (P5)	1.4	30.1	-	11.16	6045	0.0
Tails (T2)	5.3	35.4	-	15.44	5691	0.0
Tails (T1)	64.6	100.0	-	38.09	3678	0.0

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm		
Mois %	Ash %	CV (kcal/kg)
6.08	57.45	2056

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-11-549C

Mynheer Seam

Sample Horizon: 44.4 to 50.5

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30-Jul-12

CERTIFICATE OF ANALYSIS

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

WORKORDER: RC12020623

Hole: RT-11-549C
Seam: Mynheer
Diameter: 63.5mm
Depth: 44.4m to 50.5m
Plies: Upper

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	25155	6.37	27.13	29.12	37.38	0.26	5223	0.01	1.52	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>

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Seam: Mynheer
Diameter: 63.5mm
Depth: 44.4m to 50.5m
Plies: Upper

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	1749	7.0
-50	23406	93.0

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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Seam: Mynheer
Diameter: 63.5mm
Depth: 44.4m to 50.5m
Plies: Upper

DRY SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	2891	11.5	11.5
-31.5+25	1197	4.8	16.3
-25+16	2254	9.0	25.2
-16+8	3250	12.9	38.1
-8+4	3550	14.1	52.2
-4+2	5600	22.3	74.5
-2	6414	25.5	100.0

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

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<original signed by>

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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

30-Jul-12

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

WORKORDER: RC12020623

Hole: RT-11-549C
Seam: Mynheer
Diameter: 63.5mm
Depth: 44.4m to 50.5m
Plies: Upper

WET SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	1214	6.4	6.4
+25	598	3.2	9.6
+16	1220	6.5	16.1
+12.5	760	4.0	20.1
+8	1526	8.1	28.2
+4	2850	15.1	43.3
+2	4138	21.9	65.2
+1	3137	16.6	81.9
+0.5	1549	8.2	90.1
+0.25	792	4.2	94.3
+0.15	314	1.7	95.9
+0.063	364	1.9	97.9
+0.038	145	0.8	98.6
-0.038	258	1.4	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

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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	98	2.6	6.85	6.91	6495	0.0
S1.35 - F1.40	675	17.8	6.61	10.07	6252	0.0
S1.40 - F1.45	389	10.3	6.17	15.37	5870	0.0
S1.45 - F1.50	477	12.6	5.37	23.14	5371	0.0
S1.50 - F1.55	221	5.8	5.09	27.96	5008	0.0
S1.55 - F1.60	262	6.9	4.61	31.77	4587	0.0
S1.60 - F1.70	451	11.9	4.58	34.72	4076	*
S1.70 - F1.80	418	11.0	3.88	42.43	3393	*
S1.80 - F1.90	459	12.1	3.40	44.74	2952	*
S1.90 - F2.00	167	4.4	2.79	62.54	2207	*
S2.00	172	4.5	3.16	74.40	967	*

D4371
D3172
D4239
D720

SIZE: -12.5mm x +1.0mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	15	0.3	6.76	3.60	6780	0.0
S1.30 - F1.35	1219	28.4	7.90	4.56	6548	0.0
S1.35 - F1.40	969	22.6	6.95	9.23	6271	0.0
S1.40 - F1.45	519	12.1	6.57	14.12	5939	0.0
S1.45 - F1.50	257	6.0	6.45	18.49	5554	0.0
S1.50 - F1.55	161	3.7	5.98	24.33	5117	0.0
S1.55 - F1.60	112	2.6	5.89	29.80	4673	0.0
S1.60 - F1.70	183	4.3	5.33	37.08	4093	*
S1.70 - F1.80	153	3.6	4.86	45.72	3369	*
S1.80 - F1.90	140	3.2	4.54	51.34	2772	*
S1.90 - F2.00	112	2.6	4.01	58.95	2137	*
S2.00	458	10.7	3.77	73.77	953	*

SIZE: 1mm x 0.15mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	7	0.7	6.57	3.67	6679	0.0
S1.30 - F1.35	250	26.3	6.93	3.69	6651	0.0
S1.35 - F1.40	169	17.9	6.54	7.26	6347	0.0
S1.40 - F1.45	76	8.1	5.94	11.83	6030	0.0
S1.45 - F1.50	58	6.1	6.11	15.12	5746	0.0
S1.50 - F1.55	39	4.1	5.90	18.76	5440	0.0
S1.55 - F1.60	27	2.8	5.64	24.48	5000	0.0
S1.60 - F1.70	33	3.5	5.44	32.33	4341	*
S1.70 - F1.80	26	2.7	5.13	41.03	3603	*
S1.80 - F1.90	24	2.5	4.92	48.84	2952	*
S1.90 - F2.00	23	2.4	4.80	55.97	2343	*
S2.00	217	22.8	3.95	73.73	580	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm						
TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	18	4.9	5.08	10.02	6445	0.0
30 SEC	9	2.6	5.35	9.88	6369	0.0
60 SEC	6	1.7	5.61	10.30	6276	0.0
90 SEC	4	1.0	5.50	10.79	6192	0.0
Tails (T2)	20	5.5	6.09	24.86	4917	0.0
Tails (T1)	308	84.3	5.82	44.86	3126	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)
5.34	54.12	2510

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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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
F1.35	2.6	2.6	6.85	6.91	6495	0.0
S1.35 - F1.40	17.8	20.4	6.64	9.67	6283	0.0
S1.40 - F1.45	10.3	30.7	6.48	11.58	6145	0.0
S1.45 - F1.50	12.6	43.2	6.16	14.94	5919	0.0
S1.50 - F1.55	5.8	49.1	6.03	16.49	5811	0.0
S1.55 - F1.60	6.9	56.0	5.86	18.37	5660	0.0
S1.60 - F1.70	11.9	67.9	5.63	21.24	5382	-
S1.70 - F1.80	11.0	78.9	5.39	24.20	5104	-
S1.80 - F1.90	12.1	91.1	5.12	26.94	4818	-
S1.90 - F2.00	4.4	95.5	5.02	28.58	4697	-
S2.00	4.5	100.0	4.93	30.66	4528	-

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	0.3	0.3	6.76	3.60	6780	0.0
S1.30 - F1.35	28.4	28.7	7.89	4.55	6551	0.0
S1.35 - F1.40	22.6	51.3	7.47	6.61	6428	0.0
S1.40 - F1.45	12.1	63.3	7.30	8.04	6334	0.0
S1.45 - F1.50	6.0	69.3	7.23	8.94	6267	0.0
S1.50 - F1.55	3.7	73.1	7.16	9.73	6208	0.0
S1.55 - F1.60	2.6	75.7	7.12	10.42	6156	0.0
S1.60 - F1.70	4.3	79.9	7.03	11.84	6046	-
S1.70 - F1.80	3.6	83.5	6.93	13.28	5932	-
S1.80 - F1.90	3.2	86.7	6.84	14.71	5813	-
S1.90 - F2.00	2.6	89.3	6.76	16.00	5706	-
S2.00	10.7	100.0	6.44	22.16	5199	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.7	0.7	6.57	3.67	6679	0.0
S1.30 - F1.35	26.3	27.1	6.92	3.69	6651	0.0
S1.35 - F1.40	17.9	44.9	6.77	5.11	6530	0.0
S1.40 - F1.45	8.1	53.0	6.64	6.13	6454	0.0
S1.45 - F1.50	6.1	59.0	6.59	7.06	6381	0.0
S1.50 - F1.55	4.1	63.2	6.54	7.82	6320	0.0
S1.55 - F1.60	2.8	66.0	6.50	8.54	6263	0.0
S1.60 - F1.70	3.5	69.5	6.45	9.73	6166	-
S1.70 - F1.80	2.7	72.2	6.40	10.92	6069	-
S1.80 - F1.90	2.5	74.7	6.35	12.18	5965	-
S1.90 - F2.00	2.4	77.2	6.30	13.56	5851	-
S2.00	22.8	100.0	5.77	27.30	4648	-

FROTH FLOTATION

CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm						
TIME	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
15 SEC (P2)	4.9	4.9	5.08	10.02	6445	0.0
30 SEC (P3)	2.6	7.5	5.17	9.97	6419	0.0
60 SEC (P4)	1.7	9.2	5.25	10.03	6393	0.0
90 SEC (P5)	1.0	10.2	5.28	10.11	6373	0.0
Tails (T2)	5.5	15.7	5.56	15.26	5864	0.0
Tails (T1)	84.3	100.0	5.78	40.22	3555	0.0

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm		
Mois %	Ash %	CV (kcal/kg)
5.34	54.12	2510

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-11-549C

Mynheer Seam

Sample Horizon: 52.5 to 54.3

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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: RC12021991

Hole: RT-11-549C
Seam: Mynheer
Diameter: 63.5mm
Depth: 52.3m to 54.3m
Plies: Lower

DRY SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+0.15	5308	92.5	92.5
-0.15	431	7.5	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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Laboratory Manager

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Depth: 52.3m to 54.3m
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	56	1.1	5.80	3.72	6787	0.0
S1.30 - F1.35	1400	26.6	7.17	5.89	6534	0.0
S1.35 - F1.40	979	18.6	6.01	10.20	6242	0.0
S1.40 - F1.45	444	8.4	5.76	15.87	5843	0.0
S1.45 - F1.50	276	5.2	6.11	20.92	5469	0.0
S1.50 - F1.55	203	3.9	5.34	25.91	5108	0.0
S1.55 - F1.60	136	2.6	5.04	31.18	4721	0.0
S1.60 - F1.70	165	3.1	5.15	37.91	4186	*
S1.70 - F1.80	160	3.0	4.34	46.46	3596	*
S1.80 - F1.90	126	2.4	3.48	55.48	2913	*
S1.90 - F2.00	166	3.2	3.69	65.09	2101	*
S2.00	1154	21.9	4.18	76.61	618	*

D4371
D3172
D4239
D720

FINES

SIZE: -0.15mm			
Mois %	Ash %	GCV (kcal/kg)	FSI
9.72	63.76	1201	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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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	1.1	1.1	5.80	3.72	6787	0.0
S1.30 - F1.35	26.6	27.7	7.12	5.81	6543	0.0
S1.35 - F1.40	18.6	46.2	6.67	7.57	6422	0.0
S1.40 - F1.45	8.4	54.7	6.53	8.85	6333	0.0
S1.45 - F1.50	5.2	59.9	6.49	9.91	6257	0.0
S1.50 - F1.55	3.9	63.8	6.42	10.88	6188	0.0
S1.55 - F1.60	2.6	66.4	6.37	11.67	6131	0.0
S1.60 - F1.70	3.1	69.5	6.32	12.85	6043	-
S1.70 - F1.80	3.0	72.5	6.23	14.26	5940	-
S1.80 - F1.90	2.4	74.9	6.15	15.58	5844	-
S1.90 - F2.00	3.2	78.1	6.05	17.58	5693	-
S2.00	21.9	100.0	5.64	30.52	4580	-

D4371
D3172
D4239
D720

FINES

CUMULATIVE WEIGHT % SIZE: -0.15mm			
Mois %	Ash %	CV (kcal/kg)	FSI
9.72	63.76	1201	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-11-616C

Mynheer Seam

Sample Horizon: 47.0 to 51.5

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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: RC12020551

Hole: RT-11-616C
Seam: Mynheer
Diameter: 63.5mm
Depth: 47.0m to 51.5m
Plies: Upper

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	20110	6.92	19.56	30.02	43.50	0.22	5433	0.01	1.47	1.47

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: RC12020551

Hole: RT-11-616C
Seam: Mynheer
Diameter: 63.5mm
Depth: 47.0m to 51.5m
Plies: Upper

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	1407	7.0
-50	18703	93.0

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

<original signed by>

Brett Warden
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Plies: Upper

DRY SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	3324	16.5	16.5
-31.5+25	917	4.6	21.1
-25+16	2188	10.9	32.0
-16+8	2718	13.5	45.5
-8+4	3146	15.6	61.1
-4+2	3667	18.2	79.4
-2	4150	20.6	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.

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WET SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	726	4.8	4.8
+25	585	3.9	8.7
+16	1138	7.5	16.2
+12.5	721	4.8	21.0
+8	1676	11.1	32.1
+4	2394	15.9	48.0
+2	3370	22.3	70.3
+1	2188	14.5	84.8
+0.5	956	6.3	91.2
+0.25	476	3.2	94.3
+0.15	209	1.4	95.7
+0.063	210	1.4	97.1
+0.038	59	0.4	97.5
-0.038	376	2.5	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

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: 47.0m to 51.5m
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	153	4.8	6.96	7.19	6469	0.0
S1.35 - F1.40	876	27.6	6.75	9.29	6335	0.0
S1.40 - F1.45	420	13.2	6.37	15.15	5951	0.0
S1.45 - F1.50	179	5.6	5.88	19.57	5538	0.0
S1.50 - F1.55	181	5.7	5.63	24.83	4977	0.0
S1.55 - F1.60	134	4.2	4.90	26.57	4852	0.0
S1.60 - F1.70	259	8.2	4.31	37.04	4217	*
S1.70 - F1.80	370	11.6	3.99	42.65**	3539	*
S1.80 - F1.90	355	11.2	2.55	38.04**	3243	*
S1.90 - F2.00	72	2.3	2.89	41.93*	2386	*
S2.00	178	5.6	2.48	58.77	1535	*

D4371
D3172
D4239
D720

SIZE: -12.5mm x +1.0mm

S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	24	0.7	7.31	3.24	6744	0.0
S1.30 - F1.35	1147	31.6	7.41	5.20	6557	0.0
S1.35 - F1.40	971	26.8	6.99	9.13	6288	0.0
S1.40 - F1.45	419	11.6	6.55	14.01	5925	0.0
S1.45 - F1.50	202	5.6	6.16	18.96	5526	0.0
S1.50 - F1.55	147	4.0	5.79	24.41	5086	0.0
S1.55 - F1.60	86	2.4	5.38	28.44	4755	0.0
S1.60 - F1.70	114	3.1	4.78	34.36	4258	*
S1.70 - F1.80	91	2.5	4.40	42.68	3532	*
S1.80 - F1.90	75	2.1	3.76	49.31	2968	*
S1.90 - F2.00	65	1.8	3.77	55.48	2328	*
S2.00	286	7.9	2.91	72.35	786	*

SIZE: 1mm x 0.15mm

S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	7	0.7	5.92	3.17	6889	0.0
S1.30 - F1.35	249	26.9	7.53	3.67	6624	0.0
S1.35 - F1.40	204	22.0	7.12	7.44	6343	0.0
S1.40 - F1.45	99	10.7	6.82	11.75	6034	0.0
S1.45 - F1.50	58	6.2	6.66	15.40	5731	0.0
S1.50 - F1.55	44	4.7	6.38	19.33	5397	0.0
S1.55 - F1.60	24	2.6	5.94	25.26	4943	0.0
S1.60 - F1.70	36	3.8	5.47	31.77	4377	*
S1.70 - F1.80	28	3.0	4.78	38.49	3773	*
S1.80 - F1.90	22	2.4	3.95	43.99	3264	*
S1.90 - F2.00	22	2.4	4.02	50.56	2679	*
S2.00	134	14.5	2.97	69.29	654	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm

TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	32	17.1	6.51	9.31	6240	0.0
30 SEC	19	10.2	6.37	9.58	6214	0.0
60 SEC	9	4.9	6.39	10.07	6137	0.0
90 SEC	4	2.3	6.59	9.23	6192	0.0
Tails (T2)	23	12.5	6.22	20.35	5196	0.0
Tails (T1)	98	53.1	5.65	39.99	3424	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)
5.15	43.83	3252

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

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: RC12020551

Hole: RT-11-616C
Seam: Mynheer
Diameter: 63.5mm
Depth: 47.0m to 51.5m
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
F1.35	4.8	4.8	6.96	7.19	6469	0.0
S1.35 - F1.40	27.6	32.4	6.78	8.98	6355	0.0
S1.40 - F1.45	13.2	45.6	6.66	10.77	6238	0.0
S1.45 - F1.50	5.6	51.2	6.58	11.74	6161	0.0
S1.50 - F1.55	5.7	56.9	6.48	13.05	6043	0.0
S1.55 - F1.60	4.2	61.1	6.37	13.98	5961	0.0
S1.60 - F1.70	8.2	69.3	6.13	16.69	5756	-
S1.70 - F1.80	11.6	80.9	5.82	14.29	5437	-
S1.80 - F1.90	11.2	92.1	5.42	12.55	5170	-
S1.90 - F2.00	2.3	94.4	5.36	12.25	5104	-
S2.00	5.6	100.0	5.20	14.86	4904	-

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	0.7	0.7	7.31	3.24	6744	0.0
S1.30 - F1.35	31.6	32.3	7.41	5.16	6561	0.0
S1.35 - F1.40	26.8	59.0	7.22	6.96	6437	0.0
S1.40 - F1.45	11.6	70.6	7.11	8.11	6353	0.0
S1.45 - F1.50	5.6	76.2	7.04	8.91	6293	0.0
S1.50 - F1.55	4.0	80.2	6.98	9.69	6232	0.0
S1.55 - F1.60	2.4	82.6	6.93	10.23	6189	0.0
S1.60 - F1.70	3.1	85.7	6.85	11.11	6119	-
S1.70 - F1.80	2.5	88.2	6.78	12.01	6045	-
S1.80 - F1.90	2.1	90.3	6.71	12.86	5975	-
S1.90 - F2.00	1.8	92.1	6.66	13.69	5904	-
S2.00	7.9	100.0	6.36	18.32	5500	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm

S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.7	0.7	5.92	3.17	6889	0.0
S1.30 - F1.35	26.9	27.6	7.49	3.66	6631	0.0
S1.35 - F1.40	22.0	49.6	7.32	5.34	6503	0.0
S1.40 - F1.45	10.7	60.3	7.24	6.48	6420	0.0
S1.45 - F1.50	6.2	66.6	7.18	7.31	6355	0.0
S1.50 - F1.55	4.7	71.3	7.13	8.10	6292	0.0
S1.55 - F1.60	2.6	73.9	7.09	8.72	6244	0.0
S1.60 - F1.70	3.8	77.7	7.01	9.86	6152	-
S1.70 - F1.80	3.0	80.8	6.92	10.92	6063	-
S1.80 - F1.90	2.4	83.1	6.84	11.87	5983	-
S1.90 - F2.00	2.4	85.5	6.76	12.93	5892	-
S2.00	14.5	100.0	6.21	21.11	5132	-

FROTH FLOTATION

CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm

TIME	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
15 SEC (P2)	17.1	17.1	6.51	9.31	6240	0.0
30 SEC (P3)	10.2	27.3	6.46	9.41	6230	0.0
60 SEC (P4)	4.9	32.2	6.45	9.51	6216	0.0
90 SEC (P5)	2.3	34.5	6.46	9.49	6214	0.0
Tails (T2)	12.5	46.9	6.39	12.38	5944	0.0
Tails (T1)	53.1	100.0	6.00	27.04	4606	0.0

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm

Mois %	Ash %	CV (kcal/kg)
5.15	43.83	3252

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-11-680C

Mynheer Seam

Sample Horizon: 49.8 to 56.98

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CERTIFICATE OF ANALYSIS

Preliminary Report 30-Jul-12
Final Report

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

WORKORDER: RC12020428

Hole: RT-11-680C
Seam: Mynheer
Diameter: 63.5mm
Depth: 49.8m to 56.98m
Plies: Upper

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	35750	5.29	29.94	28.79	35.98	0.26	4704	0.01	1.56	1.52

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: RC12020428

Hole: RT-11-680C
Seam: Mynheer
Diameter: 63.5mm
Depth: 49.8m to 56.98m
Plies: Upper

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	1165	3.3
-50	34585	96.7

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

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Brett Warden
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T5J 3G1,Canada

WORKORDER: RC12020428

Hole: RT-11-680C
Seam: Mynheer
Diameter: 63.5mm
Depth: 49.8m to 56.98m
Plies: Upper

DRY SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	1899	5.3	5.3
-31.5+25	1974	5.5	10.8
-25+16	4161	11.6	22.5
-16+8	5473	15.3	37.8
-8+4	5572	15.6	53.4
-4+2	7549	21.1	74.5
-2	9123	25.5	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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Brett Warden
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CERTIFICATE OF ANALYSIS

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30-Jul-12

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

WORKORDER: RC12020428

Hole: RT-11-680C
Seam: Mynheer
Diameter: 63.5mm
Depth: 49.8m to 56.98m
Plies: Upper

WET SIZING

ASTM Standard of Analysis

D4749
(split with RSD)

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	319	1.2	1.2
+25	649	2.4	3.6
+16	1550	5.8	9.5
+12.5	1074	4.0	13.5
+8	3059	11.5	25.0
+4	4034	15.2	40.2
+2	6053	22.8	62.9
+1	4429	16.6	79.6
+0.5	2342	8.8	88.4
+0.25	1163	4.4	92.7
+0.15	468	1.8	94.5
+0.063	662	2.5	97.0
+0.038	360	1.4	98.3
-0.038	440	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.

<original signed by>

Brett Warden
Laboratory Manager