

## ROSS RIVER COAL COMPOSITE SAMPLES

DDHID	upper Seam (feet)	lower Seam (feet)
87RR-01	54-59	101-105
87RR-02	81-86	127-132
87RR-03	107-114	155-159
87RR-04	116-123 *	168-173
87RR-05	119-125	168-174
87RR-06	42-46	91-97
87RR-07	17-21	66-71
87RR-08	98-104	148-155
87RR-09	86-90	133-138
87RR-10 * -	205-210	255-260
87RR-11		no sample
87RR-12	-	39-46
87RR-13	37-42	90-94
87RR-14		no sample

\* missing interval 118-119

$$23 \times 75$$

$$\underline{23}$$

$$225$$

$$1500$$

$$\hline 1725$$

## ROSS RIVER COAL — test results

### Proximity analysis

#### BASIS

adb — air dried basis

arb — as received basis

db — dried basis

HV — heat value

FC % — fixed carbon

VOL % — volatiles — burnable carbons

RM % — residual moisture

inherent moisture left in rock after air dried

ADM % — air dried moisture

dried at room temp. or slightly above.

generally cutoff for too much ash is 22%

# Birtley Coal & Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD



December 3, 1987

Curragh Resources Inc.  
117 Industrial Road  
Whitehorse, Yukon  
Y1A 2T8

Attention: Mr. Gregg Jilson

Dear Sir:

RE: Twenty-Three(23) samples received Dec. 1, 1987; Lab Nos: 4421-4443

Enclosed please find duplicate copies of the test results for the above samples.

Yours very truly,  
BIRTLEY COAL & MINERALS TESTING

FRANK J. HORVAT  
General Manager

FJH:ce  
encl.

CLIENT: CURRACH RESOURCES INC.  
 PROJECT: TWENTY-THREE (23) SAMPLES RECEIVED DEC. 1/87  
 P.O. #700446  
 LAB NO: 4421-4443  
 DATE: DECEMBER 3, 1987

## ANALYSIS OF COAL, air dried basis

LAB NO:	SAMPLE ID:	ADM%	RM%	ASH%	VOL%	FC%	S%	HV BTU/LB	BASIS
4421	B7RR-01	0.60	0.40	26.40	15.90	57.30	0.19	11077	adb
	101-105		1.00	26.24	15.80	56.96	0.19	11011	arb
	HOLE 1			26.51	15.96	57.53	0.19	11121	db
4422 54-59	RC#1	1.20	0.50	26.70	15.40	57.40	0.27	11033	adb
	55-59		1.69	26.38	15.22	56.71	0.27	10901	arb
	HOLE 1			26.83	15.48	57.69	0.27	11088	db
4423 81-86	RC#2	0.60	0.30	20.10	15.90	63.70	0.62	12143	adb
	81-82		0.90	19.98	15.80	63.32	0.62	12070	arb
	HOLE 2			20.16	15.95	63.89	0.62	12180	db
4424 127-132	RC#2	0.40	0.30	20.00	16.00	63.70	0.21	12194	adb
	27-128		0.70	19.92	15.94	63.45	0.21	12145	arb
	HOLE 2			20.06	16.05	63.89	0.21	12231	db
4425	RC#3	0.80	0.40	21.20	15.10	63.20	0.32	11960	adb
	107-114		1.20	21.13	14.98	62.69	0.32	11864	arb
	HOLE 3			21.39	15.16	63.45	0.32	12008	db
4426	RC#3	2.10	0.30	13.50	17.10	69.10	0.35	13228	adb
	155-159		2.39	13.22	16.74	67.65	0.34	12950	arb
	HOLE 3			13.54	17.15	69.31	0.35	13268	db
4427	RC#4	1.30	0.90	18.90	15.30	64.90	0.19	11953	adb
	116-123		2.19	18.65	15.18	64.06	0.19	11798	arb
	HOLE 4 116-117			19.07	15.44	65.49	0.19	12062	db
4428	RC#4	0.80	0.30	10.90	18.20	70.60	0.26	13523	adb
	168-173		1.10	10.81	18.05	70.04	0.26	13415	arb
	HOLE 4,168-169			10.93	18.25	70.81	0.26	13564	db

Birtley Coal  
& Minerals Testing

A DIVISION OF GREAT WESTERN INDUSTRIES LTD.

CLIENT: CURRACH RESOURCES INC.  
 PROJECT: TWENTY-THREE (23) SAMPLES RECEIVED DEC. 1/87  
 P.O. 0780446  
 LAB NO: 4421-4443  
 DATE: DECEMBER 3, 1987

## ANALYSIS OF COAL, air dried basis

LAB NO:	SAMPLE ID:	ADM%	RM%	ASH%	VOL%	FC%	S%	HV BTU/LB	BASIS
4427	RC#5	1.00	0.60	20.60	15.80	63.00	0.19	11945	adb
	119-125		1.59	20.39	15.64	62.37	0.19	11826	arb
	HOLE 5			20.72	15.90	63.38	0.19	12017	db
4430	RC#5	0.60	0.38	15.00	17.20	67.50	0.21	12967	adb
	168-174		0.90	14.91	17.10	67.10	0.21	12889	arb
	HOLE 5			15.05	17.25	67.70	0.21	13006	db
4431	RC #6	1.60	0.50	22.00	15.70	61.80	0.22	11639	adb
	42-46		2.07	21.65	15.45	60.81	0.22	11453	arb
	HOLE 6			22.11	15.78	62.11	0.22	11697	db
4432	RC #6	1.00	0.40	16.90	17.70	65.00	0.26	12596	adb
	91-92		1.40	16.73	17.52	64.35	0.26	12470	arb
	HOLE 6, 91-92			16.97	17.77	65.26	0.26	12647	db
4433	RC #7	3.40	1.30	28.10	15.90	54.70	0.24	9850	adb
	17-21		4.66	27.14	15.36	52.04	0.23	9515	arb
	HOLE 7			28.47	16.11	55.42	0.24	9984	db
4434	RC #7	0.70	0.30	13.00	18.60	68.10	0.31	13325	adb
	66-71		1.00	12.91	18.47	67.62	0.31	13232	arb
	HOLE 7			13.04	18.66	68.30	0.31	13365	db
4435	RC #8	0.70	0.30	20.00	17.70	62.00	0.30	12107	adb
	98-104		1.00	19.86	17.38	61.57	0.30	12022	arb
	HOLE 8			20.06	17.75	62.19	0.30	12149	db
4436	RC #8	0.90	0.30	14.90	17.80	67.00	0.25	12969	adb
	140-155		1.20	14.77	17.64	66.40	0.25	12852	arb
	HOLE 8			14.94	17.85	67.20	0.25	13008	db

Birtley Coal  
& Minerals Testing

A DIVISION OF CRICAF WEST STEEL INDUSTRIES LTD

CLIENT: CURRACH RESOURCES INC.  
 PROJECT: TWENTY-THREE (23) SAMPLES RECEIVED DEC. 1/87  
 P.O. #700446  
 LAB NO: 4421-4443  
 DATE: DECEMBER 3, 1987

## ANALYSIS OF COAL, air dried basis

LAB NO:	SAMPLE ID:	ADMX	FMX	ASHX	VOLX	FCX	SX	HV BTU/LB	BASIS
4437	RC #9	1.00	0.30	14.20	17.00	67.70	0.62	13342	adb
	86-90		1.30	14.06	17.62	67.02	0.61	13209	arb
	HOLE 9			14.24	17.65	67.90	0.62	13302	db
4438	RC #9	0.70	0.30	11.40	19.70	68.60	0.33	13423	adb
	133-138		1.00	11.32	19.56	68.12	0.33	13329	arb
	HOLE 9			11.43	19.76	68.81	0.33	13463	db
4439	RC #10	1.10	0.30	16.50	16.60	66.60	0.61	12905	adb
	205-210		1.40	16.32	16.42	65.87	0.60	12763	arb
	HOLE 10			16.55	16.65	66.80	0.61	12944	db
4440	RC #10	1.60	0.30	20.70	18.50	60.50	0.22	11675	adb
	235-260		1.90	20.37	18.20	59.53	0.22	11400	arb
	HOLE 10			20.76	18.56	60.68	0.22	11710	db
4441 39-46	RC #12	0.60	0.30	41.70	13.30	44.70	0.23	8643	adb
	39-40		0.90	41.45	13.22	44.43	0.23	8591	arb
	HOLE 12			41.83	13.34	44.83	0.23	8669	db
4442	RC #13	0.70	0.50	17.00	16.30	66.20	0.22	12552	adb
	37-42		1.28	16.88	16.19	65.74	0.22	12464	arb
	HOLE 13			17.09	16.30	66.53	0.22	12615	db
4443	RC #13	0.90	0.30	23.90	17.60	58.20	0.19	11369	adb
	90-94		1.20	23.68	17.44	57.68	0.19	11267	arb
	HOLE 13			23.97	17.65	58.38	0.19	11403	db

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A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD.

TOTAL P.04

# Birtley Coal & Minerals Testing

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December 3, 1987

Curragh Resources Inc.  
117 Industrial Road  
Whitehorse, Yukon  
Y1A 2T8

Attention: Mr. Gregg Jilson

Dear Sir:

RE: Twenty-Three(23) samples received Dec. 1, 1987; Lab Nos: 4421-4443

Enclosed please find duplicate copies of the test results for the above samples.

Yours very truly,  
BIRTLEY COAL & MINERALS TESTING

A handwritten signature in cursive script, appearing to read "F J Horvat".

FRANK J. HORVAT  
General Manager

FJH:ce  
encl.

CLIENT: CURRAGH RESOURCES INC.  
 PROJECT: TWENTY-THREE (23) SAMPLES RECEIVED DEC. 1/87  
 P.O. #700446  
 LAB NO: 4421-4443  
 DATE: DECEMBER 3, 1987

ANALYSIS OF COAL, air dried basis

LAB NO:	SAMPLE ID:	ADMZ	RMZ	ASHZ	VOLZ	FCZ	SZ	HV BTU/LB	BASIS
4421	87RR-01	0.60	0.40	26.40	15.90	57.30	0.19	11077	adb
	101-105		1.00	26.24	15.80	56.96	0.19	11011	arb
	HOLE 1			26.51	15.96	57.53	0.19	11121	db
4422	RC#1	1.20	0.50	26.70	15.40	57.40	0.27	11033	adb
	55-59		1.69	26.38	15.22	56.71	0.27	10901	arb
	HOLE 1			26.83	15.48	57.69	0.27	11088	db
4423	RC#2	0.60	0.30	20.10	15.90	63.70	0.62	12143	adb
	81-82		0.90	19.98	15.80	63.32	0.62	12070	arb
	HOLE 2			20.16	15.95	63.89	0.62	12180	db
4424	RC#2	0.40	0.30	20.00	16.00	63.70	0.21	12194	adb
	27-128		0.70	19.92	15.94	63.45	0.21	12145	arb
	HOLE 2			20.06	16.05	63.89	0.21	12231	db
4425	RC#3	0.80	0.40	21.30	15.10	63.20	0.32	11960	adb
	107-114		1.20	21.13	14.98	62.69	0.32	11864	arb
	HOLE 3			21.39	15.16	63.45	0.32	12008	db
4426	RC#3	2.10	0.30	13.50	17.10	69.10	0.35	13228	adb
	155-159		2.39	13.22	16.74	67.65	0.34	12950	arb
	HOLE 3			13.54	17.15	69.31	0.35	13268	db
4427	RC#4	1.30	0.90	18.90	15.30	64.90	0.19	11953	adb
	116,123		2.19	18.65	15.10	64.06	0.19	11798	arb
	HOLE 4 116-117			19.07	15.44	65.49	0.19	12062	db
4428	RC#4	0.80	0.30	10.90	18.20	70.60	0.26	13523	adb
	168-173		1.10	10.81	18.05	70.04	0.26	13415	arb
	HOLE 4,168-169			10.93	18.25	70.81	0.26	13564	db

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ANALYSIS OF COAL, air dried basis

LAB NO:	SAMPLE ID:	ADMZ	RMZ	ASHZ	VOLZ	FCZ	SZ	HV BTU/LB	BASIS
4429	RC#5	1.00	0.60	20.60	15.80	63.00	0.19	11945	adb
	119-125		1.59	20.39	15.64	62.37	0.19	11826	arb
	HOLE 5			20.72	15.90	63.38	0.19	12017	db
4430	RC#5	0.60	0.30	15.00	17.20	67.50	0.21	12967	adb
	168-174		0.90	14.91	17.10	67.10	0.21	12889	arb
	HOLE 5			15.05	17.25	67.70	0.21	13006	db
4431	RC #6	1.60	0.50	22.00	15.70	61.80	0.22	11639	adb
	42-46		2.09	21.65	15.45	60.81	0.22	11453	arb
	HOLE 6			22.11	15.78	62.11	0.22	11697	db
4432	RC #6	1.00	0.40	16.90	17.70	65.00	0.26	12596	adb
	91-92		1.40	16.73	17.52	64.35	0.26	12470	arb
	HOLE 6, 91-92			16.97	17.77	65.26	0.26	12647	db
4433	RC #7	3.40	1.30	28.10	15.90	54.70	0.24	9850	adb
	17-21		4.66	27.14	15.36	52.84	0.23	9515	arb
	HOLE 7			28.47	16.11	55.42	0.24	9980	db
4434	RC #7	0.70	0.30	13.00	18.60	68.10	0.31	13325	adb
	66-71		1.00	12.91	18.47	67.62	0.31	13232	arb
	HOLE 7			13.04	18.66	68.30	0.31	13365	db
4435	RC #8	0.70	0.30	20.00	17.70	62.00	0.30	12107	adb
	98-104		1.00	19.86	17.58	61.57	0.30	12022	arb
	HOLE 8			20.06	17.75	62.19	0.30	12143	db
4436	RC #8	0.90	0.30	14.90	17.80	67.00	0.25	12969	adb
	148-155		1.20	14.77	17.64	66.40	0.25	12852	arb
	HOLE 8			14.94	17.85	67.20	0.25	13008	db

Birtley Coal  
 & Minerals Testing

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 PROJECT: TWENTY-THREE (23) SAMPLES RECEIVED DEC. 1/87  
 P.O. #700446  
 LAB NO: 4421-4443  
 DATE: DECEMBER 3, 1987

ANALYSIS OF COAL, air dried basis

LAB NO:	SAMPLE ID:	ADMZ	RMZ	ASHZ	VOLZ	FCZ	SZ	HV BTU/LB	BASIS
4437	RC #9	1.00	0.30	14.20	17.80	67.70	0.62	13342	adb
	86-90		1.30	14.06	17.62	67.02	0.61	13209	arb
	HOLE 9			14.24	17.85	67.90	0.62	13382	db
4438	RC #9	0.70	0.30	11.40	19.70	68.60	0.33	13423	adb
	133-138		1.00	11.32	19.56	68.12	0.33	13329	arb
	HOLE 9			11.43	19.76	68.81	0.33	13463	db
4439	RC #10	1.10	0.30	16.50	16.60	66.60	0.61	12905	adb
	205-210		1.40	16.32	16.42	65.87	0.60	12763	arb
	HOLE 10			16.55	16.65	66.80	0.61	12944	db
4440	RC #10	1.60	0.30	20.70	18.50	60.50	0.22	11675	adb
	255-260		1.90	20.37	18.20	59.53	0.22	11488	arb
	HOLE 10			20.76	18.56	60.68	0.22	11710	db
4441	RC #12	0.60	0.30	41.70	13.30	44.70	0.23	8643	adb
	39-40		0.90	41.45	13.22	44.43	0.23	8591	arb
	HOLE 12			41.83	13.34	44.83	0.23	8669	db
4442	RC #13	0.70	0.50	17.00	16.30	66.20	0.22	12552	adb
	37-42		1.20	16.88	16.19	65.74	0.22	12464	arb
	HOLE 13			17.09	16.38	66.53	0.22	12615	db
4443	RC #13	0.90	0.30	23.90	17.60	58.20	0.19	11369	adb
	90-94		1.20	23.68	17.44	57.68	0.19	11267	arb
	HOLE 13			23.97	17.65	58.38	0.19	11403	db

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 P.O. #700446  
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ANALYSIS OF COAL, air dried basis

LAB NO:	SAMPLE ID:	ADMZ	RMZ	ASHZ	VOLZ	FCZ	SZ	HV BTU/LB	BASIS
4421	87RR-01	0.60	0.40	26.40	15.90	57.30	0.19	11077	adb
	101-105		1.00	26.24	15.80	56.96	0.19	11011	arb
	HOLE 1			26.51	15.96	57.53	0.19	11121	db
4422	RC#1	1.20	0.50	26.70	15.40	57.40	0.27	11033	adb
	55-59		1.69	26.38	15.22	56.71	0.27	10901	arb
	HOLE 1			26.83	15.48	57.69	0.27	11088	db
4423	RC#2	0.60	0.30	20.10	15.90	63.70	0.62	12143	adb
	81-82		0.90	19.98	15.80	63.32	0.62	12070	arb
	HOLE 2			20.16	15.95	63.89	0.62	12180	db
4424	RC#2	0.40	0.30	20.00	16.00	63.70	0.21	12194	adb
	27-128		0.70	19.92	15.94	63.45	0.21	12145	arb
	HOLE 2			20.06	16.05	63.89	0.21	12231	db
4425	RC#3	0.80	0.40	21.30	15.10	63.20	0.32	11960	adb
	107-114		1.20	21.13	14.98	62.69	0.32	11864	arb
	HOLE 3			21.39	15.16	63.45	0.32	12008	db
4426	RC#3	2.10	0.30	13.50	17.10	69.10	0.35	13228	adb
	155-159		2.39	13.22	16.74	67.65	0.34	12950	arb
	HOLE 3			13.54	17.15	69.31	0.35	13268	db
4427	RC#4	1.30	0.90	18.90	15.30	64.90	0.19	11953	adb
	116,123		2.19	18.65	15.10	64.06	0.19	11798	arb
	HOLE 4 116-117			19.07	15.44	65.49	0.19	12062	db
4428	RC#4	0.80	0.30	10.90	18.20	70.60	0.26	13523	adb
	168-173		1.10	10.81	18.05	70.04	0.26	13415	arb
	HOLE 4,168-169			10.93	18.25	70.81	0.26	13564	db

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ANALYSIS OF COAL, air dried basis

LAB NO:	SAMPLE ID:	ADMZ	RMZ	ASHZ	VOLZ	FCZ	SZ	HV BTU/LB	BASIS
4429	RC#5	1.00	0.60	20.60	15.80	63.00	0.19	11945	adb
	119-125		1.59	20.39	15.64	62.37	0.19	11826	arb
	HOLE 5			20.72	15.90	63.38	0.19	12017	db
4430	RC#5	0.60	0.30	15.00	17.20	67.50	0.21	12967	adb
	168-174		0.90	14.91	17.10	67.10	0.21	12889	arb
	HOLE 5			15.05	17.25	67.70	0.21	13006	db
4431	RC #6	1.60	0.50	22.00	15.70	61.80	0.22	11639	adb
	42-46		2.09	21.65	15.45	60.81	0.22	11453	arb
	HOLE 6			22.11	15.78	62.11	0.22	11697	db
4432	RC #6	1.00	0.40	16.90	17.70	65.00	0.26	12596	adb
	91-92		1.40	16.73	17.52	64.35	0.26	12470	arb
	HOLE 6, 91-97			16.97	17.77	65.26	0.26	12647	db
4433	RC #7	3.40	1.30	28.10	15.90	54.70	0.24	9850	adb
	17-21		4.66	27.14	15.36	52.84	0.23	9515	arb
	HOLE 7			28.47	16.11	55.42	0.24	9980	db
4434	RC #7	0.70	0.30	13.00	18.60	68.10	0.31	13325	adb
	66-71		1.00	12.91	18.47	67.62	0.31	13232	arb
	HOLE 7			13.04	18.66	68.30	0.31	13365	db
4435	RC #8	0.70	0.30	20.00	17.70	62.00	0.30	12107	adb
	98-104		1.00	19.86	17.58	61.57	0.30	12022	arb
	HOLE 8			20.06	17.75	62.19	0.30	12143	db
4436	RC #8	0.90	0.30	14.90	17.80	67.00	0.25	12969	adb
	148-155		1.20	14.77	17.64	66.40	0.25	12852	arb
	HOLE 8			14.94	17.85	67.20	0.25	13008	db

Birtley Coal  
& Minerals Testing

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 P.O. #700446  
 LAB NO: 4421-4443  
 DATE: DECEMBER 3, 1987

ANALYSIS OF COAL, air dried basis

LAB NO:	SAMPLE ID:	ADM%	RM%	ASH%	VOL%	FC%	S%	HV BTU/LB	BASIS
4437	RC #9	1.00	0.30	14.20	17.80	67.70	0.62	13342	adb
	86-90		1.30	14.06	17.62	67.02	0.61	13209	arb
	HOLE 9			14.24	17.85	67.90	0.62	13382	db
4438	RC #9	0.70	0.30	11.40	19.70	68.60	0.33	13423	adb
	133-138		1.00	11.32	19.56	68.12	0.33	13329	arb
	HOLE 9			11.43	19.76	68.81	0.33	13463	db
4439	RC #10	1.10	0.30	16.50	16.60	66.60	0.61	12905	adb
	205-210		1.40	16.32	16.42	65.87	0.60	12763	arb
	HOLE 10			16.55	16.65	66.80	0.61	12944	db
4440	RC #10	1.60	0.30	20.70	18.50	60.50	0.22	11675	adb
	255-260		1.90	20.37	18.20	59.53	0.22	11488	arb
	HOLE 10			20.76	18.56	60.68	0.22	11710	db
4441	RC #12	0.60	0.30	41.70	13.30	44.70	0.23	8643	adb
	39-40		0.90	41.45	13.22	44.43	0.23	8591	arb
	HOLE 12			41.83	13.34	44.83	0.23	8669	db
4442	RC #13	0.70	0.50	17.00	16.30	66.20	0.22	12552	adb
	37-42		1.20	16.88	16.19	65.74	0.22	12464	arb
	HOLE 13			17.09	16.38	66.53	0.22	12615	db
4443	RC #13	0.90	0.30	23.90	17.60	58.20	0.19	11369	adb
	90-94		1.20	23.68	17.44	57.68	0.19	11267	arb
	HOLE 13			23.97	17.65	58.38	0.19	11403	db