

ENVELOPE 2593

TENEMENT: EL 201 - Port Wakefield
EL 202 - Clinton

TENEMENT HOLDER: The Electricity Trust of South Australia

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THE ELECTRICITY TRUST OF SOUTH AUSTRALIA

220 GREENHILL ROAD, EASTWOOD, SOUTH AUSTRALIA

Your Ref: EL 134, 135, 201 & 202.

Our Ref: Des.CW.JCJ

Postal Address: P.O. Box 6

Eastwood, South Aust. 5063

Telegrams: Electrusa, Adelaide

Telephone: 223 0383 (Area Code 08)

1 September 1975

Director,
Department of Mines,
Box 38,
Rundle Street, P.O.,
ADELAIDE, S.A. 5000

Dear Sir,

INKERMAN - BALAKLAVA & CLINTON COALFIELDS

We acknowledge your letter Ref. EL 201 JJ:JG dated 21 August, 1975.

Inkerman - Balaklava - ELs 135 and 201

The original hole drilled in the area covered by these licences was I36 for which preliminary and final laboratory testing results were forwarded to you on 10 and 25 March 1975 respectively.

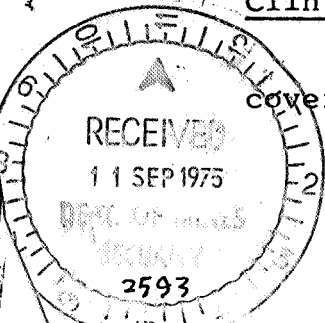
As explained in the letter dated 10 March, field work is being carried out on our behalf by your Department and we refer you to your own records for drilling logs, water sampling, pump testing and the associated field costs. Works associated with coal sampling is now complete in holes I37 to I41 inclusive, but pumping tests associated with the latter hole are still currently programmed.

... In regard to this drilling we attach copies of preliminary laboratory testing results associated with holes I37, I38 and I39. Other results will be forwarded as they become available.

With reference to our letter dated 28 April 1975 which detailed Council approval to drill 4 holes on road reserves we confirm that the hole approved for the Hundred of Goyder was not drilled but was superseded by an alternative hole adjacent to the eastern boundary of Section 375 Hundred of Inkerman 135 metres south of the road intersection. This in fact was hole I40A.

Clinton - ELs 134 and 202

No work was carried out in this area during the period covered by EL 134.



THE ELECTRICITY TRUST OF SOUTH AUSTRALIA

To Department of MinesPage TWODate 1/9/75Clinton - ELs 134 and 202 (Continued)

Since the approval of the subsequent EL 202 one hole has been recently completed by your Department. At the present time no further field work is programmed for the area, but this could possibly change depending on the results of laboratory tests yet to be undertaken.

Again these results will be forwarded as soon as they become available.

Yours faithfully,

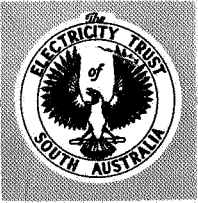


(J.C. Jeanes)
CIVIL WORKS ENGINEER DESIGN

... Attchs.

JW.

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THE ELECTRICITY TRUST OF SOUTH AUSTRALIA

220 GREENHILL ROAD, EASTWOOD, SOUTH AUSTRALIA

Your Ref: ELs 201¹ & 202¹
Our Ref: Des.CW.JCJ

Postal Address: P.O. Box 6
Eastwood, South Aust. 5063
Telegrams: Electrusa, Adelaide
Telephone: 223 0383 (Area Code 08)

20 February 1976

Director of Mines
PO Box 151
EASTWOOD SA 5063

Dear Sir

INKERMAN - BALAKLAVA COALFIELDS

Further to our letter of 19 November 1975 the attached are the final chemical analyses to be carried out on the coal associated with drilling carried out on our behalf by your Department.

Certain physical tests are still to be undertaken and results of these will be forwarded as they become available.

The results for hole C24 refer to the hole drilled in the Clinton area and the others refer to various holes in the Inkerman area.

As the coal has been found to be fairly consistent throughout the field, these holes have not been tested to the same extent as was the original hole I36.

The cost of this testing was approximately \$500 and was incurred during the period of November 1975 to January 1976.

Yours faithfully

(J C Jeanes)
CIVIL WORKS ENGINEER DESIGN

JW

Attchs



RESULTS OF ANALYSIS OF LORAIN COUNTY CLINTON

REPORTED BY: WASTE

SCA/CHD

SAMPLE	TO TOTAL S. WTD	ASH	CV	Na	K	Fe ₂ O ₃	CaO	MgO	TOTAL S	SUL- PHATE S	PERITE S	VOLATILE MATTER	Cl	SiO ₂	Al ₂ O ₃	Mn ₂ O ₄	TiO ₂	P ₂ O ₅	QUARTZ	C.V. DRY & ASH FREE
HOLE 24																				
No1																				
70.13 - 71.13	47.8	29.52	18.44	1.46	0.04	3.83	1.32	0.90	6.09				1.06							26.16
No2																				
71.13 - 71.43	51.1	15.74	22.90	1.81	0.04	2.08	1.72	1.14	5.61				1.19							27.18
No3																				
71.50 - 72.00	57.5	13.79	23.40	2.00	0.04	1.94	1.75	1.21	5.63				1.18							27.14
No4																				
72.13 - 73.13	57.5	32.44	18.51	1.57	0.04	2.26	1.42	0.92	4.80				1.13							27.40
No5																				
73.25 - 74.04	51.3	34.16	17.43	1.44	0.03	3.92	1.42	0.91	6.86				0.98							26.47
No6																				
76.37 - 77.00	48.7	40.79	16.80	1.30	0.03	4.80	1.19	0.77	6.35				1.05							28.37
No7																				
77.00 - 77.61	37.4	58.87	10.41	1.04	0.02	3.55	0.92	0.65	4.74				0.80							25.31
No8																				
104.50 - 105.50	58.0	12.77	24.60	1.68	0.04	0.34	1.97	1.27	4.50				1.18							28.20
No9																				
105.50 - 106.50	53.6	12.23	25.07	1.69	0.02	0.39	1.76	1.28	4.31				1.14							28.56
No10																				
106.50 - 107.50	56.8	11.19	25.15	1.77	0.03	0.36	1.85	1.25	3.88				1.07							28.32
No11																				
107.50 - 108.40	55.1	13.79	24.74	1.75	0.04	0.56	2.12	1.33	3.89				1.16							28.10
No12																				
108.40 - 109.40	58.2	12.08	25.23	1.82	0.04	0.39	1.93	1.32	3.71				1.17							28.70

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RESULTS OF ANALYSES OF LITTLE ROCK SAMPLES **CLINTON**
REPORTED DRY BASIS

SAMPLE HOLE 24	MOISTURE AS MINED	ASH	CV	Na	K	Fe ₂ O ₃	CaO	MgO	TOTAL S	SUL- PHATE S	PERITE S	VOLATILE MATTER	Cl	SiO ₂	Al ₂ O ₃	MnO ₂	TiO ₂	P ₂ O ₅	QUARTZ	C.V. DRY & ASH FREE
No 15 109-46 - 110-46	58.3	11.30	25.62	1.77	0.04	0.22	1.70	1.14	3.71				1.20							28.88
No 14 110-46 - 111-01	54.9	11.70	25.31	1.81	0.04	0.23	1.79	1.15	3.42				1.18							28.66
No 15 111-56 - 112-52	56.8	10.55	23.08	1.75	0.04	0.42	2.11	1.38	3.66				1.22							25.80
No 16 115-14 - 116-14	49.5	24.10	21.78	1.51	0.04	2.02	1.76	1.03	5.00				1.14							28.70
No 17 116-44 - 117-44	52.5	11.37	26.06	1.66	0.03	0.57	1.79	1.10	2.99				1.07							29.40
No 18 117-44 - 118-44	55.6	9.48	26.16	1.79	0.03	0.31	1.71	1.06	3.55				1.18							28.90
No 19 118-44 - 119-44	55.4	9.66	25.72	1.84	0.02	0.19	1.94	1.18	2.87				1.20							28.47
No 20 119-44 - 120-44	43.0	48.10	12.22	1.17	0.04	0.29	1.27	0.78	2.19				1.00							23.55
No 21 120-44 - 121-44	47.2	13.44	25.44	1.77	0.02	0.33	1.90	1.17	3.31				1.54							29.29
No 22 121-44 - 122-44	48.5	11.64	25.23	1.82	0.03	0.16	2.01	1.21	3.57				1.48							28.55
No 23 122-44 - 123-44	51.5	11.14	26.12	1.85	0.04	0.10	1.90	1.15	3.49				1.76							29.39
No 24 123-44 - 124-44	57.1	10.73	25.79	1.84	0.04	0.12	1.97	1.20	3.13				1.78							28.89

RESULTS OF ANALYSES OF ROCK SAMPLES - CLINTON

REMOVED DATA

SAMPLE HOLE 24	MOISTURE AS MINED	ASH	CV	Na	K	Fe ₂ O ₃	CaO	MgO	TOTAL S	SUL- PHATE S	PHOS- PHATE S	VOLEATILE WATER	Cl	SiO ₂	Al ₂ O ₃	SiO ₂ 3/4	TiO ₂	P ₂ O ₅	QUARTZ	C.V. DET & ASH FREE
No 25 124.14 - 125.14	57.8	11.59	25.13	1.90	0.03	0.18	2.20	1.26	3.46				1.59							28.52
No 26 125.14 - 125.34	55.4	18.54	22.28	1.87	0.04	0.09	2.34	1.31	3.01				1.59							27.35
No 27 126.54 - 126.86	39.5	52.66	12.21	1.02	0.03	0.29	0.88	0.58	2.00				0.86							25.80
No 28 126.86 - 127.86	55.6	14.40	24.24	1.95	0.03	0.55	1.98	1.11	3.75				1.72							28.32
No 29 127.86 - 128.86	55.4	18.81	23.00	1.86	0.03	0.63	1.96	1.12	3.13				1.66							28.33
No 30 128.86 - 129.86	51.6	33.53	18.11	1.56	0.06	0.12	1.64	0.92	2.62				1.50							27.25
No 31 129.86 - 130.61	47.2	39.39	16.55	1.46	0.04	0.30	1.48	0.87	2.26				1.27							27.31

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REPORTED PROPERTIES

SAMPLE	PROXIMATE AS RECEIVED	ASH	CV	Na	K	Fe ₂ O ₃	CaO	MgO	TOTAL S	SUL- PHUR S	MOISTURE S	VOLEATILE MATTER	CL	SiO ₂	Al ₂ O ₃	SiO ₃ /4	TiO ₂	P ₂ O ₅	QUARTZ	G.V. DRY & ASH FREE
I 37																				
No1.																				
79.09 - 79.70	52.5	15.37	23.25	1.73	0.03	1.49	0.85	1.13	5.53				1.57							27.47
No2.																				
79.70 - 80.72	53.8	12.96	23.81	1.73	0.03	1.19	0.81	1.16	5.11				1.68							27.36
No3.																				
80.72 - 81.74	46.7	36.11	16.16	1.29	0.02	1.00	0.48	0.79	5.07				1.12							25.29
No4.																				
81.74 - 82.74	53.2	13.41	23.50	1.61	0.03	0.61	0.69	1.09	5.26				1.41							27.14
No5.																				
82.74 - 83.74	55.0	10.99	24.31	1.67	0.03	0.42	0.74	1.19	5.14				1.49							27.31
No6.																				
83.74 - 84.08	47.8	28.37	18.88	1.36	0.01	2.00	0.59	0.93	4.42				1.15							26.36
No7.																				
87.61 - 88.61	55.7	8.63	25.70	1.56	0.03	0.59	0.79	1.18	5.22				1.45							28.13
No8.																				
88.61 - 89.61	55.1	7.99	25.75	1.49	0.03	0.49	0.81	1.20	4.28				1.41							27.99
No9.																				
89.61 - 90.10	54.2	6.67	26.22	1.64	0.03	0.31	0.84	1.22	3.42				1.57							28.09
No10.																				
90.10 - 90.61	54.4	6.60	25.86	1.74	0.04	0.26	0.84	1.26	4.34				1.62							27.69
No11.																				
90.61 - 91.21	55.8	7.88	25.76	1.77	0.04	0.39	1.02	1.35	4.21				1.62							27.96
No12.																				
91.21 - 91.61	54.8	7.55	25.80	1.56	0.04	0.58	0.94	1.28	4.29				1.56							27.91

TINKERMAN, BALAKLAVA COAL
ANALYSIS OF BALAKLAVA COAL
REPORT NO. 1000012

SAMPLE	MOISTURE AS NOTED	ASH	CV	Na	K	Fe ₂ O ₃	CaO	MgO	LOSS ON IGNITION	CL- FRACTION	PHOSPHORUS	VOLEATILE MATTER	Cl	SiO ₂	Al ₂ O ₃	SO ₃	TiO ₂	P ₂ O ₅	QUARTZ	G.V. DRY & ASH FREE
I 37																				
No 13																				
91.61 - 92.61	56.3	6.78	25.38	1.60	0.03	0.44	0.97	1.35	3.95				1.68							27.23
No 14																				
92.61 - 93.61	58.6	6.70	25.12	1.79	0.04	0.49	0.96	1.40	4.67				1.76							26.92
No 15																				
93.61 - 94.61	55.3	7.15	24.79	1.61	0.02	0.36	1.06	1.36	3.76				1.60							26.70
No 16																				
94.61 - 95.61	55.1	7.59	25.47	1.83	0.02	0.13	1.01	1.38	3.92				1.62							27.56
No 17																				
95.61 - 96.61	55.8	10.41	25.24	1.61	0.02	0.15	1.05	1.39	4.04				1.70							28.17
No 18																				
96.61 - 97.11	55.7	11.98	24.14	1.66	0.04	0.18	1.11	1.45	4.11				1.64							27.43
No 19																				
105.80 - 106.60	50.0	28.78	19.10	1.35	0.03	0.98	0.78	1.07	3.58				1.34							26.82
No 20																				
106.60 - 106.80	54.0	23.72	21.40	1.70	0.02	1.59	0.80	1.13	4.41				1.63							28.05
No 21																				
106.80 - 107.80	53.5	20.99	22.24	1.79	0.03	0.80	0.88	1.32	3.73				1.67							28.15
No 22																				
107.80 - 108.57	50.1	33.44	19.09	1.54	0.02	0.56	0.76	1.11	2.95				1.48							28.68
No 23																				
108.57 - 108.80	54.7	22.62	21.25	1.91	0.04	1.42	0.88	1.28	4.50				1.68							27.46
No 24																				
108.80 - 109.60	42.3	19.22	22.11	1.87	0.04	1.20	1.17	1.60	4.41				1.79							27.37

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REPORT OF ANALYSIS
 REFINED WHITE

INKERMAN BALAKLAVA

SAMPLE	WGT. G	ASH	CV	Ca	K	Fe ₂ O ₃	CaO	H ₂ O	TOTAL S	SO ₃	AL ₂ O ₃	SiO ₂	CL	Na ₂ O	CO ₂	SO ₄	TiO ₂	P ₂ O ₅	CHLOR	C.V. LIT & ASH FUEL
I 37																				
No 3																				
80.72-81.74	46.7	36.11	16.16	1.29	0.02	1.00	0.48	0.79	5.01			31.99	1.12	30.90	0.81	<0.01	0.01	<0.01	27.0	25.29
No 7																				
87.61-88.61	55.7	8.63	25.70	1.56	0.03	0.59	0.79	1.18	5.22			47.48	1.45	1.14	0.44	<0.01	0.02	<0.01	0.5	28.13
No 11																				
90.61-91.21	55.8	7.88	25.76	1.77	0.04	0.39	1.02	1.35	4.21	0.21	<0.01	48.82	1.62	0.93	0.43	<0.01	0.01	<0.01	0.3	27.96
No 19																				
105.80-106.60	50.0	28.78	19.10	1.35	0.03	0.98	0.78	1.07	3.68			39.62	1.34	14.06	5.64	<0.01	0.96	0.01	7.9	26.82
No 23																				
108.57-108.80	54.7	22.62	21.25	1.91	0.04	1.42	0.88	1.28	4.50			39.65	1.68	14.05	1.17	<0.01	0.75	0.03	1.6	27.46

Sample	CV	Ca	F	Fe ₂ O ₃	CaO	H ₂ O	TOTAL S	UNE- FUSED	PORITE S	WATER EXTRACT	Cl	SiO ₂	Al ₂ O ₃	Na ₂ O	TiO ₂	P ₂ O ₅	...	...	...
I 38 No.1 56.92-57.40m	56.3	12.49	24.27	1.69	0.02	0.23	1.07	1.13	4.61			1.58							27.73
No.2 65.76-66-76	59.3	12.30	23.53	1.65	0.03	0.98	1.01	1.30	5.56			1.49							26.33
No.3 66.76-67.61	59.4	11.67	25.96	1.73	0.03	0.28	1.04	1.27	4.70			1.46							29.39
No.4 67.61-67.97	39.5	67.71																	
No.5 71.27-71.51	52.6	35.10	16.89	1.22	0.04	1.82	0.84	1.08	5.13			0.99							26.02
No.6 72.17-72.27	35.2	79.00																	
No.7 72.27-73.22	59.3	12.59	23.76	1.59	0.03	0.86	0.92	1.23	4.92			1.48							27.18
No.8 73.22-73.27	53.6	30.04	18.19	1.26	0.04	1.55	0.86	1.07	4.43			1.07							26.00
No.9 73.27-74.27	40.2	60.87																	
No.10 74.27-74.47	33.5	78.09																	
No.11 74.76-75.49	58.7	12.00	25.12	1.53	0.02	1.10	1.00	1.32	4.80			1.38							28.55
No.12 75.49-76.03	56.1	12.58	25.08	1.59	0.02	0.41	0.99	1.36	3.49			1.47							28.69

SAMPLE I 38	WATER AS NITRO	ASH	CV	Na	K	Fe ₂ O ₃	CaO	MgO	TOTAL S	LOSS IN S	LOSS IN S	LOSS IN S	CL	SiO ₂	Al ₂ O ₃	H ₂ O ₄	TiO ₂	P ₂ O ₅	TIME	C.V. % 2 100 TR
No.13 76.03 - 77.03	55.5	31.59	19.02	1.27	0.02	0.24	0.84	1.11	3.36				1.14							27.80
No. 14 77.03 - 78.03	46.0	52.73	11.75	0.91	0.02	0.23	0.56	0.79	2.10				0.83							24.86
No.15 78.03 - 79.03	42.1	65.63																		
No.16 79.03 - 79.13	40.3	71.51																		
No.17 79.13 - 80.13	43.3	66.65																		
No.18 80.13 - 81.06	31.6	81.42																		

1. INKERMAN SALAKLAVA

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ANALYSIS OF FINE COAL SAMPLES
INHERMAN - BALAKLAVA COAL
RECEIVED 12/1/57

Sample No.		CV	Fe	K	Fe ₂ O ₃	CaO	MgO	TOTAL S	SULFUR S	DATA S	TOTAL CL	CL	SiO ₂	Al ₂ O ₃	MnO ₂	Na ₂ O	P ₂ O ₅	QUARTZ	C.V. DRY & ASH FREE
63.05-63.73	No1	41.1	12.92	1.22	0.14	3.15	0.79	0.89	5.33			1.35							27.02
69.82-70.72	No2	41.1	14.48	1.23	0.04	4.10	0.90	1.08	4.89			1.26							24.42
71.52-72.52	No3	52.1	21.72	2.3	0.05	0.54	1.14	1.50	4.28			2.08							28.07
73.72-74.72	No4	52.1	24.38	2.32	0.05	0.33	1.35	1.77	4.67			2.19							27.25
74.72-75.72	No5	51.1	17.67	1.22	0.04	0.98	0.98	1.38	4.27			1.93							22.25
75.72-76.72	No6	51.1	24.73	2.34	0.06	0.93	1.36	1.76	4.38			2.36							28.04
76.72-77.72	No7	51.1	24.97	2.3	0.04	0.40	1.43	1.88	4.12			2.13							28.02
77.72-78.72	No8	59.4	25.18	2.32	0.04	0.26	1.45	1.83	3.17			1.96							28.06
78.72-79.72	No9	60.4	20.77	2.25	0.05	0.59	1.45	1.88	3.96			2.11							23.54
79.72-80.66	No10	59.6	21.59	2.32	0.05	0.61	1.50	1.95	6.27			1.93							26.60
80.66-81.07	No11	42.2																	
81.07-81.66	No12	46.8																	

THE UNIVERSITY OF CHICAGO

[illegible]

INKERMAN BALAKLAVA

MEMORANDUM

SAMPLE	DEPTH S. METER	ASH	CV	Fe	K	CaO	SiO ₂	Al ₂ O ₃	TOTAL S	PH	MOISTURE %	VOLATILE MATTER	CL	SiO ₂	Al ₂ O ₃	FeO	CaO	K ₂ O	TOTAL	C.V. DRY - & ASH FREE
NO3 71.52 - 72.52	52.9	22.62	21.72	2.13	0.05	0.54	1.14	1.50	4.28			41.99	2.08	11.82	0.43	40.01	0.27	40.01	7.9	28.07
NO6 75.72 - 76.72	59.7	11.81	24.13	2.34	0.06	0.93	1.36	1.76	4.38	0.39	0.41	43.65	2.36	1.56	0.77	40.01	0.01	40.01	0.4	28.04
NO14 84.54 - 85.13	60.8	22.83	18.70	1.87	0.05	0.60	1.25	1.70	2.69			47.42	1.55	15.13	1.24	40.01	0.19	40.01	8.7	24.23

MEMORANDUM OF ANALYSIS OF ROCKS, INKERMAR, BALAKLAVA

RECEIVED 1954-10-15

SAMPLE NO.	WGT. IN GRAMS	ASH	GV	Na	K	Fe ₂ O ₃	CaO	MgO	TOTAL S	SiO ₂	Al ₂ O ₃	SiO ₂	Al ₂ O ₃	SiO ₂	Al ₂ O ₃	SiO ₂	Al ₂ O ₃	SiO ₂	Al ₂ O ₃	S.V. DRY & WET
IGNORE No.1																				
67.70 - 68.70	53.4	15.34	22.28	1.41	0.03	1.48	1.16	1.44	5.33											26.32
68.70 - 69.02	38.7	41.67	15.32	1.07	0.02	3.03	0.87	1.11	4.96											26.26
69.02 - 69.52	32.1	68.87																		
74.44 - 75.44	53.9	19.38	22.09	1.58	0.04	3.30	1.06	1.31	6.01											27.40
75.44 - 76.44	56.8	11.41	24.33	1.72	0.03	0.88	1.15	1.66	4.93											27.46
76.44 - 77.44	57.8	14.33	23.93	1.68	0.03	4.10	1.10	1.60	7.52											27.93
77.44 - 78.44	57.0	10.55	24.56	1.69	0.04	1.44	1.18	1.55	5.15											27.46
78.44 - 79.44	57.8	13.10	23.90	1.65	0.04	4.01	1.17	1.57	7.27											27.50
79.44 - 80.44	56.1	10.08	24.41	1.77	0.04	0.64	1.21	1.72	4.89											27.15 13.80
80.44 - 81.44	54.6	14.78	23.43	1.64	0.04	1.74	1.23	1.75	5.32											27.14
81.44 - 82.05	54.5	15.70	22.42	1.71	0.04	1.05	1.34	1.92	4.57											26.60
IGNORE No.2																				
67.70 - 67.52	14.7	89.40																		

Suspect depth was wrongly marked on core.

000020

REPORTED DAY FISTS

000021

CORRECTION

I-40A

C.V. Dry Ash Free No 9.

Should be 27.15.

SFA/CWED

RESULTS OF ANALYSIS OF

INKERMAN BALAKLAVA

PARTIAL DATA

SAMPLE	NO.	ASH	CV	Na	K	Fe ₂ O ₃	CaO	MgO	TOTAL	SiO ₂	Al ₂ O ₃	SiO ₂	Al ₂ O ₃	SiO ₂	Al ₂ O ₃	SiO ₂	Al ₂ O ₃	SiO ₂	Al ₂ O ₃	C.V. DRY
I-40A	No1																			
54.08 - 54.24		50.7	34.15	15.84	1.72	0.05	0.34	1.09	1.35	1.25										24.05
68.12 - 69.12	No2																			22.58
69.12 - 70.12	No3																			26.93
70.12 - 71.12	No4																			25.95
71.12 - 71.24	No5																			
73.50 - 75.60	No6																			26.84
75.60 - 76.60	No7																			27.59
76.60 - 77.60	No8																			27.50
77.60 - 78.60	No9																			27.90
78.60 - 79.60	No10																			27.99
79.60 - 80.20	No11																			28.29
80.20 - 80.60	No12																			28.87

000022

PERCENT DRY BASIS

SAMPLE	TESTING AS NITR	ASH	CV	Na	K	Fe ₂ O ₃	CaO	MgO	TOTAL S	CL S	SO ₄ S	VOLATILE WATER	Cl	SiO ₂	Al ₂ O ₃	SO ₃ 2/4	TiO ₂	P ₂ O ₅	QUARTZ	C.V. DRY & ASH FREE
No. 3 80.60-80.93	50.3	10.85	25.22	1.99	0.04	0.40	1.16	1.59	4.78				1.18							28.29
No. 4 81.60-81.70	28.1	12.43	25.44	1.68	0.04	0.58	1.05	1.51	4.42				1.19							29.05
No. 5 81.70-82.70	56.3	10.78	25.60	1.80	0.04	0.39	1.08	1.57	4.89				1.28							28.69
No. 6 82.70-83.70	56.6	11.01	25.69	1.82	0.03	0.32	1.44	1.66	4.73				1.33							28.81
No. 7 83.70-84.70	70.5	12.77	23.71	1.91	0.04	0.41	1.19	1.73	4.67				1.25							27.18
No. 8 84.70-84.90	50.1	24.98	19.74	1.78	0.04	0.41	1.22	1.82	4.48				1.13							33.30
No. 9 84.90-85.70	39.9	63.51	8.36	0.93	0.03	3.39	0.53	0.83	4.34				0.74							22.91
No. 20 85.70-86.13	27.2	83.29																		
No. 21 86.13-86.33	46.4	34.80	17.71	1.53	0.04	1.64	0.97	1.46	4.98				1.02							27.16

57.00
57.30
57.60

RESULTS OF ANALYSIS OF FIVE SAMPLES INKEMAN BALANLACA
REPORTED DRY BASIS

SAMPLE	MOISTURE AS MINED	ASH	CV	Na	K	Fe ₂ O ₃	CaO	MgO	TOTAL S	SUL- PHATE S	PERCENT S	VOLATILE MATTER	Cl	SiO ₂	Al ₂ O ₃	Mn ₃ O ₄	TiO ₂	P ₂ O ₅	QUARTZ	C.V. DRY & ASH FREE
No. 2 68-12-69-12	55.1	17.01	18.74	1.87	0.04	2.19	1.05	1.49	6.50	0.30	1.05	44.57	1.24	5.11	0.75	<0.01	0.03	<0.01	3.1	22.58
No. 7 75-60-76-60	59.9	11.08	24.80	1.79	0.04	0.74	1.10	1.60	5.29			47.76	1.31	0.77	0.60	<0.01	0.01	<0.01	0.3	27.89
No. 15 81-70-82-70	56.3	10.75	25.60	1.80	0.04	0.39	1.05	1.57	4.39			49.71	1.28	1.91	0.96	<0.01	0.02	<0.01	0.4	28.69
No. 21 86-13-86-33	46.4	34.80	17.71	1.53	0.04	1.64	0.97	1.46	4.98			35.46	1.02	22.28	2.70	<0.01	0.85	0.01	0.8	27.16

SAMPLE	TIME	AS FOUND	ASH	CV	Fe	K	Po ₂ O ₃	CaO	H ₂ O	TOTAL S	SUB-TOTAL	PERCENT S	TOTAL PERCENT	Cl	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	P ₂ O ₅	QUARTZ	CRYST. DUST	
	No1																					
54-55 - 55-86		38.3	55.24	12.26	1.11	0.04	0.51	0.81	0.79	3.84				1.07								27.39
62-00 - 62-80	No2													0.76								25.00
63-50 - 64-07	No3																					
	No4																					
65-00 - 65-50		39.9	76.91																			
65-50 - 66-44	No5																					
	No6																					
66-50 - 67-50		50.0	40.34	15.52	1.60	0.17	3.38	0.86	1.15	6.09				1.17								26.01
67-50 - 68-50	No7													1.30								28.35
	No8																					
68-50 - 69-46		59.6	14.30	23.35	1.95	0.04	1.86	1.22	1.61	6.60				1.36								27.25
69-50 - 70-50	No9																					
	No10																					
71-50 - 71-50		31.2	85.74																			
	No11																					
71-50 - 72-03		25.8	95.67																			
	No12																					
72-50 - 73-50		33.4	80.65																			

[illegible]

000026

RESULTS OF ANALYSIS OF FERTILIZER SAMPLES INKERMAR BALAKLAVA
REPORTED DRY BASIS

SAMPLE IHE	MOISTURE AS MINED	ASH	CV	Na	K	Fe ₂ O ₃	CaO	H ₂ O	TOTAL S	SUL- PHATE S	PHOS- PATE S	VOLATILE MATTER	Cl	SiO ₂	Al ₂ O ₃	Mn ₂ O ₃	TiO ₂	P ₂ O ₅	QUARTZ	C.V. DRY & ASH FREE
No1. 54.55 - 55.86	38.3	55.24	12.26	1.11	0.04	0.51	0.81	0.74	3.84			26.53	1.51	47.73	0.99	<0.01	0.04	<0.01	29.1	27.39
No1. 67.50 - 68.50	61.4	14.13	24.34	2.07	0.06	1.11	1.13	1.53	6.02			45.40	1.30	4.55	0.92	<0.01	<0.01	<0.01	1.1	28.35
No14. 74.50 - 75.50	59.7	15.21	23.68	1.78	0.04	0.44	1.03	1.52	6.57	0.22	<0.01	45.98	1.33	7.03	0.74	<0.01	0.02	<0.01	4.1	27.93
No18. 76.50 - 79.50	58.9	13.50	22.84	1.58	0.04	0.68	1.10	1.52	4.78			45.03	1.38	7.63	0.54	<0.01	<0.01	0.01	5.9	28.02
No22. 82.50 - 83.50	59.7	13.22	24.76	1.83	0.04	0.36	1.14	1.66	4.76			47.31	1.30	3.90	1.65	<0.01	0.02	<0.01	0.9	28.53

THE ELECTRICITY TRUST OF SOUTH AUSTRALIA

WAKEFIELD COAL

ULTIMATE ANALYSIS & ASH FUSION TEMPERATURE

BORE	SAMPLE No	ULTIMATE ANALYSIS % DRY BASIS			ASH FUSION TEMPERATURE °C					
					REDUCING, H ₂ + CO ₂			OXIDISING, AIR		
		C	H	N	DEF.	HEM.	FLOW	DEF.	HEM.	FLOW
I.36	5	55.1	3.69	0.23						
		55.4	3.68	-	1025	1100	1185	1100	1170	1205
I.37	11	63.0	4.83	-						
		62.5	4.73	0.33	1095	1195	1380	1125	1300	1330
I.38	5	41.9	3.04	-						
		41.0	2.89	0.14	1075	1145	1305	1115	1225	1305
I.39	6	59.9	4.14	0.27						
		60.5	4.33	-	1140	1240	1400	1135	1300	1320
I.40A	6	57.2	3.99	0.34						
		57.6	4.01	-	1110	1270	>1400	>1400	-	-
I.41A	2	55.1	3.89	-						
		54.8	3.88	0.33	975	1025	1065	1030	1220	1260
I.41E	14	57.8	4.12	0.27						
		56.9	4.21	-	960	1065	1175	1040	1215	1255
C.24	15	57.6	4.42	0.25						
		57.3	4.29	-	1125	1160	1190	1160	1230	1260



000028

THE ELECTRICITY TRUST OF SOUTH AUSTRALIA

WAKEFIELD COAL, ANALYSIS, DRY BASIS (%)

Inkerman - Bulahdelah

BORE I.36

Sample No	Depth metres from to	Moisture as mined	Ash	HV MJ/kg	Volatile Matter	Na ₂ O	K ₂ O	Fe ₂ O ₃	CaO	MgO	Total S	Sulphate S	Pyritic S	Cl	SiO ₂	Al ₂ O ₃	Mn ₃ O ₄	TiO ₂	P ₂ O ₅	Quartz
5	76.00-76.50	56.2	20.85	21.67	41.64	0.62	0.04	0.79	0.93	1.38	3.58	0.39	<0.01	1.36	10.58	0.73	<0.01	0.45	<0.01	7.3
7	78.00-78.50	53.1	19.30	20.55	45.49	2.36	0.04	6.88	0.94	1.41	8.80			1.33	1.53	1.19	<0.01	0.02	<0.01	0.7

BORE I.37

3	80.72-81.74	46.7	36.11	16.16	31.99	1.74	0.02	1.00	0.48	0.79	5.07			1.12	30.90	0.81	<0.01	0.01	<0.01	27.0
7	87.61-88.61	55.7	8.63	25.70	47.48	2.10	0.04	0.59	0.79	1.18	5.22			1.45	1.14	0.44	<0.01	0.02	<0.01	0.5
11	90.61-91.21	55.8	7.88	25.76	48.82	2.39	0.05	0.39	1.02	1.35	4.21	0.21	<0.01	1.62	0.93	0.43	<0.01	0.01	<0.01	0.3
19	105.80-106.60	50.0	28.78	19.10	39.62	1.82	0.04	0.98	0.78	1.07	3.58			1.34	14.06	5.64	<0.01	0.96	0.01	7.9
23	108.57-108.80	54.7	22.62	21.25	39.65	2.57	0.05	1.42	0.88	1.28	4.50			1.68	14.05	1.17	<0.01	0.75	0.03	1.6

BORE I.38

2	65.76-66.76	59.3	12.30	23.33	44.71	2.22	0.46	0.98	1.01	1.30	5.36			1.49	2.10	1.23	0.01	0.03	<0.01	1.1
5	71.27-71.51	52.6	35.10	16.89	33.37	1.64	0.05	1.82	0.84	1.09	5.13	0.30	0.37	0.99	23.79	3.12	0.02	0.42	<0.01	17.9
13	76.03-77.03	55.5	31.59	19.02	37.27	1.71	0.02	0.24	0.84	1.11	3.36			1.14	25.48	1.42	<0.01	0.62	<0.01	19.5

BORE I.39

3	71.52-72.52	52.9	22.62	21.72	41.99	2.87	0.06	0.54	1.14	1.50	4.28			2.08	11.82	0.43	<0.01	0.27	<0.01	7.9
6	75.72-76.72	59.7	11.81	24.13	48.65	3.15	0.07	0.93	1.36	1.76	4.38	0.39	0.41	2.36	1.56	0.77	<0.01	0.01	<0.01	0.4
14	84.54-85.13	60.8	22.83	18.70	47.42	2.52	0.06	0.60	1.25	1.70	2.69			1.55	15.13	1.24	<0.01	0.19	<0.01	8.7

000029

WAKEFIELD COAL, ANALYSIS, DRY BASIS

BORE I.40A

Sample No	Depth metres from to	Moisture as mined	Ash	HV MJ/kg	Volatile Matter	Na ₂ O	K ₂ O	Fe ₂ O ₃	CaO	MgO	Total S	Sulphate S	Pyritic S	Cl	SiO ₂	Al ₂ O ₃	Mn ₃ O ₄	TiO ₂	P ₂ O ₅	Quartz
1	67.70-68.70	53.4	15.34	22.28	45.68	1.90	0.04	1.48	1.16	1.44	5.33			0.84	7.80	1.05	< 0.01	0.10	0.02	4.8
6	76.44-77.44	57.8	14.33	23.93	46.76	2.26	0.04	4.10	1.10	1.60	7.52	0.56	0.04	1.29	1.28	0.48	< 0.01	< 0.01	< 0.01	0.4
11	81.44-82.08	54.5	15.70	22.42	43.25	2.30	0.05	1.05	1.34	1.92	4.57			1.17	4.09	2.07	< 0.01	0.09	< 0.01	1.2

BORE I.41A

2	68.12-69.12	55.1	17.01	18.74	44.57	2.52	0.05	2.19	1.08	1.49	6.50	0.30	1.05	1.24	5.11	0.75	< 0.01	0.03	< 0.01	3.1
7	75.60-76.60	59.9	11.08	24.80	47.76	2.41	0.05	0.74	1.10	1.60	5.29			1.31	0.77	0.60	< 0.01	0.01	< 0.01	0.3
15	81.70-82.70	56.3	10.78	25.60	49.71	2.43	0.05	0.39	1.08	1.57	4.89			1.28	1.91	0.96	< 0.01	0.02	< 0.01	0.4
21	86.13-86.33	46.4	34.80	17.71	35.46	2.06	0.05	1.64	0.97	1.46	4.98			1.02	22.28	2.70	< 0.01	0.85	0.01	0.8

BORE I.41E

1	54.55-55.86	38.3	55.24	12.26	26.53	1.50	0.05	0.51	0.87	0.99	3.84			1.07	47.73	0.99	< 0.01	0.04	< 0.01	29.1
7	67.50-68.50	61.4	14.13	24.34	45.40	2.79	0.07	1.11	1.13	1.58	6.02			1.30	4.55	0.92	< 0.01	< 0.01	< 0.01	1.1
14	74.50-75.50	59.7	15.21	23.68	45.98	2.40	0.05	0.44	1.03	1.52	6.57	0.22	< 0.01	1.33	7.03	0.74	< 0.01	0.02	< 0.01	4.1
18	78.50-79.50	58.9	18.50	22.84	45.03	2.13	0.05	0.68	7.10	1.52	4.78			1.38	9.63	0.54	< 0.01	< 0.01	0.01	5.9
22	82.50-83.50	59.7	13.22	24.76	47.31	2.47	0.05	0.36	1.14	1.66	4.76			1.30	3.90	1.65	< 0.01	0.02	< 0.01	0.9

BORE C.24

1	70.13-71.13	47.8	29.52	18.44	34.23	1.97	0.05	3.83	1.32	0.90	6.09			1.06	21.29	0.83	< 0.01	0.09	0.10	13.0
5	73.25-74.04	51.3	34.16	17.43	35.79	1.94	0.04	3.92	1.42	0.91	6.86			0.98	23.06	1.46	< 0.01	0.39	< 0.01	14.9
9	105.50-106.50	53.6	12.23	25.07	48.73	2.28	0.02	0.39	1.76	1.28	4.31			1.14	2.55	0.41	< 0.01	0.04	< 0.01	0.8
15	111.56-112.52	56.8	10.55	23.08	44.63	2.36	0.05	0.42	2.11	1.38	3.36	0.12	0.12	1.22	2.36	1.25	< 0.01	0.04	< 0.01	0.8
20	119.14-120.14	43.0	48.10	12.22	28.55	1.58	0.05	0.29	1.27	0.78	2.19			1.00	29.69	9.75	< 0.01	1.10	< 0.01	18.2
26	125.14-125.34	55.4	18.54	22.28	42.62	2.52	0.05	0.09	2.34	1.31	3.07			1.59	5.86	3.51	0.02	0.25	< 0.01	1.3

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