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EL 2461, EL 2470 AND EL 2471

OAKBANK, SERGEANT'S DAM AND OAKVALE

PARTIAL SURRENDER REPORT FOR THE PERIOD 2/12/98 TO JULY 1999

Submitted by

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1999

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PARTIAL SURRENDER REPORT
EL 2461, EL 2471 and EL 2470 OAKVALE PROJECT
MURRAY BASIN, EASTERN SOUTH AUSTRALIA

Copies:
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July 1999
R Russell

PARTIAL SURRENDER REPORT
EL 2461, EL 2471 AND EL 2470 - OAKVALE, EASTERN SOUTH AUSTRALIA

ABSTRACT SUMMARY

The EL's 2461, 2471 and 2470 form a 3,027 square kilometre block in the northwestern part of the Murray Basin in eastern South Australia. Exploration on this block targeted Pliocene age Loxton-Parilla Sand strandlines of the Murray Basin for mineral sands (rutile-ilmenite-zircon) concealed by surficial Pleistocene to Recent sediments (Pooraka Formation).

Air photograph and DTM interpretation of the area and in part low-level airborne magnetics was followed by a lithofacies mapping programme based on wide spaced RC aircore drilling. A total of 71 holes for 1,980 metres were drilled in March and April 1999. The drilling successfully outlined those areas where the Loxton-Parilla exists on the basin margin, or where the prospective marine sands are too deeply buried (>30 metres) for meaningful ongoing exploration.

A single large relinquishment is described in this report which covers parts of each of the three EL's. The surrendered area is underlain by thick unprospective fluvial clay with sandy intervals interpreted as the distal parts of the Quaternary Pooraka Formation

The relinquished area is 1,016 square kilometre. The remaining portion of the Oakvale block of EL's is 2,011 square kilometre which represents 66.4% of the original area.

KEY WORDS		
Location	:	Oakvale/Quandong, Murray Basin
Mineralisation Environment	:	Palaeo Strandlines and Dune Systems
Minerals	:	Rutile, Ilmenite, Zircon
Exploration Methods	:	RC Aircore Drilling
Stratigraphic Name	:	Loxton - Parilla Sand, Pooraka Formation
Geological Age	:	Pliocene, Quaternary

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INTRODUCTION

The Exploration Licences EL 2461, 2471 and 2470 form a block of ground some 3,027 square kilometres in extent in the Oakvale area, eastern South Australia. The eastern boundary of the block is the NSW/SA border (141°00'E) while to the south lies the Dangali Conservation Park. The northwestern boundary of the block coincides approximately with the edge of the Murray Basin where it onlaps Proterozoic metasediments of the Adelaidean Group (Figure 1).

The EL's 2461, 2471 and 2470 were granted to Basin Minerals NL ("Basin") on December 2nd, December 4th and December 4th 1998 respectively for a renewable one year period. The EL's are currently in their second year. The northern part of the block of EL's lies on the Olary 1:250,000 Sheet (SI 54-2) while the southern part is on the Chowilla 1:250,000 sheet (SI 54-6).

Work on the block has involved air photograph, DTM mapping and low-level aeromagnetics followed by a 71 hole/1,980 metre RC aircore drilling programme directed to lithofacies mapping. From the results of this work, the block has been reduced to 66% of its original size by relinquishing 1,016 square kilometre. The results of work on the surrendered area are outlined below.

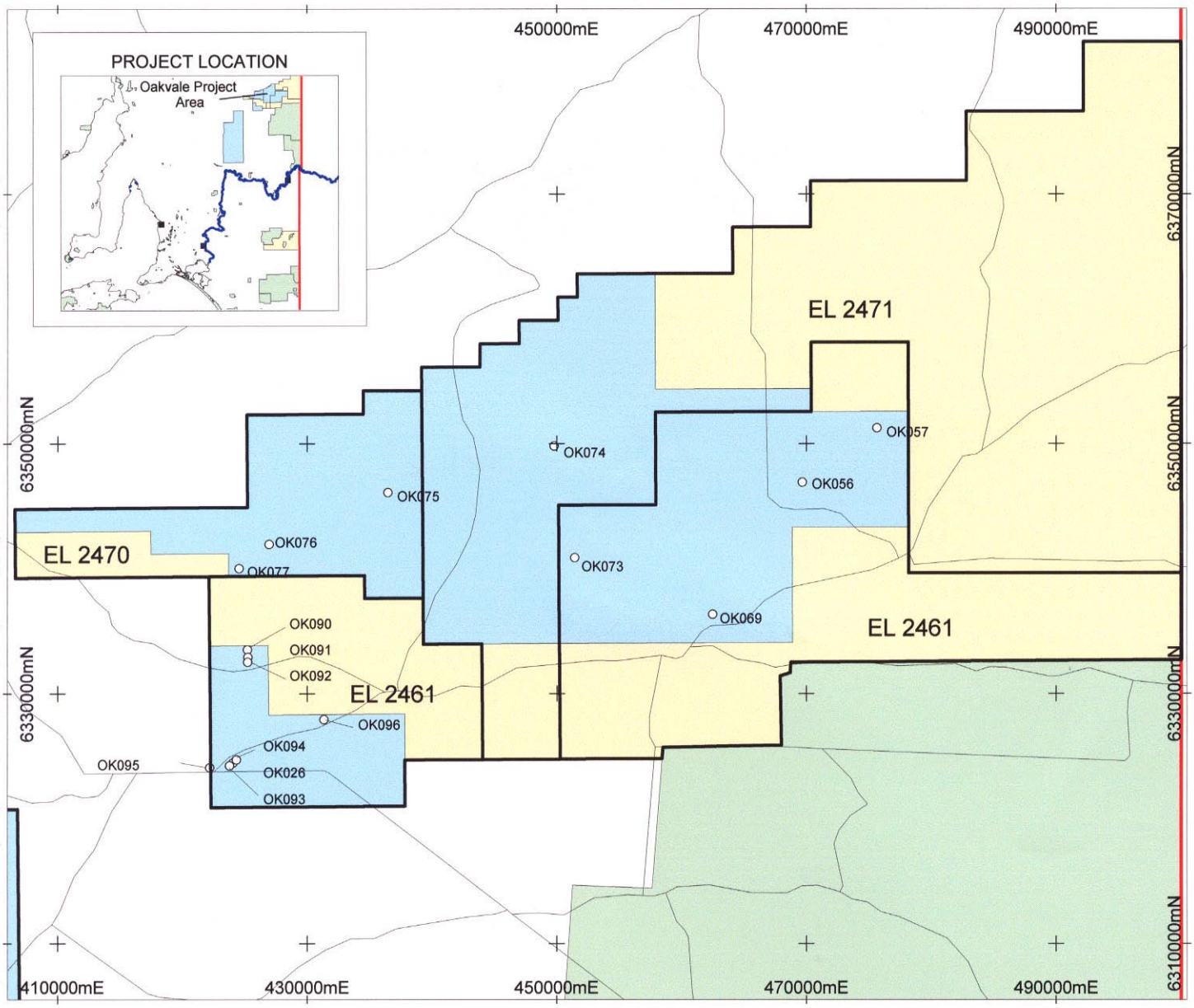
1 TARGET CONCEPT

Mineral sands (rutile-ilmenite-zircon) are sought in concealed Pliocene age Loxton-Parilla Sand strandlines of the Murray Basin, which underlies the Project Area.

2 EXPLORATION ACTIVITY

2.1 GENERAL

Geological, geophysical and surrounding exploration data was reviewed and incorporated into the Company's Murray Basin exploration GIS database. The work included interpretation of 1:80,000 natural colour air photographs and DTM modelling. Strandline 'packages' were identified running across the surrender area trending west-northwest. Drilling in the Oakvale Block and elsewhere in the Murray Basin now suggests that in many cases, these 'packages' are the wave cut 'notches' produced by the strandlines and the beach sands have been removed by subsequent Pleistocene erosion. This erosion of the beach sands is thought to be the case in the surrendered area.



LEGEND

- Roads
- State Boundaries
- National Parks
- Basin Minerals Tenements
- Drilling Completed By Basin Minerals NL
- Basin Minerals Tenements Being Relinquished

N

0 5 10 15 Kilometers

BASIN MINERALS NL

ACN 078 944 564

OAKVALE PROJECT
Tenement and
Drill Hole Locations

FIGURE 1

2.2 STRATIGRAPHIC DRILLING

'Deep stratigraphic' RC aircore drilling was carried out in the licence area to locate:

- the basin margin of the target marine Loxton-Parilla Sand;
- outline unprospective clay and silt facies or where the target marine sands are too deeply buried (>30 metre depth) for meaningful ongoing exploration; and
- prospective mineralised strandline and associated dunal environments in the target unit.

Regional 'stratigraphic' drilling of between 12 and 51 metres depth at intervals of between 5 and 20 kilometres was carried out in the relinquishment area along the main roads and tracks and in two instances in EL 2461, inferred strandline features. A total of 16 holes were drilled for 393 metres.

Stratigraphic drill holes are located on Figure 1 whilst geological logs and analytical results are appended, refer Appendix 1.

The drilling indicates that thick Pooraka Formation clays exist in the central and northwestern parts of the project area. In drill hole OK 74, EL 2471, Figure 1, a thin lens of fluvial gravels within the clays contained high grades of coarse heavy mineral. However, laboratory analysis indicated that this material was mainly iron oxide.

In EL 2461, holes OK090-092, were the southern end of a traverse over an inferred strandline and were dominated by clays. Holes OK026, 093-095 also in EL 2461 intersected a strandline in Loxton-Parilla Sand which contained iron oxide heavy mineral.

3 CONCLUSIONS

Drilling indicates poor prospectivity for strandline mineralisation in the Loxton Parilla-Sand in the central and northwestern parts of the Oakvale Block and this area has been surrendered (Figure 1).

APPENDIX 1

DILL LOGS AND ANALYTICAL RESULTS

Oakvale Project
Drill Collar Data

HOLE	GEOLOGIST	RL	EASTING	NORTHING	GEO_DESC	HOLEDEPTH	WT_DEPTH	COMMENTS	TENEMENT	DATECREATE	AZIMUTH	DIP
OK026	RR	100	424080	6333494	STRAT HOLE	33			EL2461	3/28/99 0	360	-90
OK056	RR	100	469661	6355932	STRAT HOLE	42			EL2461	02/04/99	360	-90
OK057	RR	100	475666	6360280	STRAT HOLE	30			EL2461	02/04/99	360	-90
OK069	RR	100	462502	6345349	STRAT HOLE	30			EL2461	04/04/99	360	-90
OK073	RR	100	451438	6349903	STRAT HOLE	21			EL2461	04/04/99	360	-90
OK074	RR	100	449800	6358821	STRAT HOLE	24			EL2471	04/04/99	360	-90
OK075	RR	100	436475	6355123	STRAT HOLE	24			EL2470	04/04/99	360	-90
OK076	RR	100	426947	6350978	STRAT HOLE	24			EL2470	04/04/99	360	-90
OK077	RR	100	424551	6349042	STRAT HOLE	18			EL2470	04/04/99	360	-90
OK090	RR	100	425222	6342532	STRAT HOLE	15			EL2461	05/04/99	360	-90
OK091	RR	100	425248	6341931	STRAT HOLE	12			EL2461	05/04/99	360	-90
OK092	RR	100	425232	6341532	STRAT HOLE	12			EL2461	05/04/99	360	-90
OK093	RR	100	423789	6333271	STRAT HOLE	24			EL2461	05/04/99	360	-90
OK094	RR	100	424334	6333739	STRAT HOLE	15			EL2461	05/04/99	360	-90
OK095	RR	100	422201	6333110	STRAT HOLE	18			EL2461	05/04/99	360	-90
OK096	RR	100	431344	6336947	STRAT HOLE	51			EL2461	05/04/99	360	-90

Oakvale Project
Geological Logs

HOLE	SAMPLE_NO	DEPTH_FROM	DEPTH_TO	LITHOLOGY	COLOUR1	COLOUR2	COLOUR3	HM_EST	WASHING	COMMENTS	IND1	IND2	SAMPLED	HM_TYPE
OK026	B029408	0	1.5	Clcl90ms10		RD		0	3				0	
OK026	B029409	1.5	3	CMcl80ms20		RD		0	4				0	
OK026	B029410	3	4.5	CMcl70ms30		RD		0	4				0	
OK026	B029411	4.5	6	CMcl70ms30		RD		0	4				0	
OK026	B029412	6	7.5	SMsi70ms30		RD		0.01	3				0	FHM
OK026	B029413	7.5	9	SMsi80ms20		RD		0.01	3				0	FHM
OK026	B029414	9	10.5	SPcs70si30		RD		0.2	2				1	MHM
OK026	B029415	10.5	12	SPcs70si30		RD		0.5	2		FE	W	1	MHM
OK026	B029416	12	13.5	CMcl80cs20		GY		0.2	4				1	
OK026	B029417	13.5	15	Clcl100		GY		0	5				0	
OK026	B029418	15	16.5	COcl70si30		YW		0	5				0	
OK026	B029419	16.5	18	COcl70si30		LG		0	5				0	
OK026	B029420	18	19.5	COcl60si40		GY		0	5				0	
OK026	B029421	19.5	21	Clcl100		GY		0	5				0	
OK026	B029422	21	22.5	Clcl100		GY		0	5				0	
OK026	B029423	22.5	24	Clcl100		GY		0	5				0	
OK026	B029424	24	25.5	Clcl100		RD		0	5				0	
OK026	B029425	25.5	27	Clcl100		GY		0	5				0	
OK026	B029426	27	28.5	Clcl100		GY		0	5				0	
OK026	B029427	28.5	30	Clcl100		GY		0	5				0	
OK026	B029428	30	31.5	Clcl100		GY		0	5				0	
OK026	B029429	31.5	33	Clcl100		GY		0	5				0	
OK056	B030106	0	1.5	SPms80si20		RD		0	1				0	
OK056	B030107	1.5	3	COcl80si20		RD		0	4				0	
OK056	B030108	3	4.5	COcl80si20		RD		0	4				0	
OK056	B030109	4.5	6	Clcl100		RD		0	5				0	
OK056	B030110	6	7.5	COcl70si30		RD		0	5				0	
OK056	B030111	7.5	9	COcl60si40		RD		0	5				0	
OK056	B030112	9	10.5	Clcl100		GY		0	5				0	
OK056	B030113	10.5	12	Clcl100		GY		0	5				0	
OK056	B030114	12	13.5	Clcl100		GY		0	5				0	
OK056	B030115	13.5	15	Clcl100		GY		0	5				0	
OK056	B030116	15	16.5	Clcl100		GY		0	5				0	
OK056	B030117	16.5	18	Clcl100		GY		0	5				0	
OK056	B030118	18	19.5	Clcl100		GY		0	5				0	
OK056	B030119	19.5	21	Clcl100		GY		0	5				0	
OK056	B030120	21	22.5	Clcl100		GY		0	5				0	
OK056	B030121	22.5	24	Clcl100		GY		0	5				0	
OK056	B030122	24	25.5	Clcl100		GY		0	5				0	
OK056	B030123	25.5	27	Clcl100		GY		0	5				0	
OK056	B030124	27	28.5	Clcl100		GY		0	5				0	
OK056	B030125	28.5	30	Clcl100		GY		0	5				0	
OK056	B030126	30	31.5	Clcl100		GY		0	5				0	
OK056	B030127	31.5	33	Clcl100		GY		0	5				0	
OK056	B030128	33	34.5	Clcl100		GY		0	5				0	
OK056	B030129	34.5	36	Clcl100		BK		0	5				0	
OK056	B030130	36	37.5	COcl90si10		DG		0	4				0	

HOLE	SAMPLE_NO	DEPTH_FROM	DEPTH_TO	LITHOLOGY	COLOUR1	COLOUR2	COLOUR3	HM_EST	WASHING	COMMENTS	IND1	IND2	SAMPLED	HM_TYPE
OK056	B030131	37.5	39	COcl80si20		GY		0	4				0	
OK056	B030132	39	40.5	COcl90si10		GY		0	5				0	
OK056	B030133	40.5	42	CMcl80fs20		GY		0	4				0	
OK057	B030134	0	1.5	GPgv80ms20		RD		0	1				0	
OK057	B030135	1.5	3	Clcl100		RD		0	5				0	
OK057	B030136	3	4.5	Clcl100		RD		0	5				0	
OK057	B030137	4.5	6	Clcl100		RD		0	5				0	
OK057	B030138	6	7.5	COcl70si30		BN		0	4				0	
OK057	B030139	7.5	9	COcl70si30		BN		0	4				0	
OK057	B030140	9	10.5	Clcl100		GY		0	4				0	
OK057	B030141	10.5	12	COcl60si40		RD		0	4				0	
OK057	B030142	12	13.5	COcl80si20		RD		0	4				0	
OK057	B030143	13.5	15	COcl90si10		RD		0	5				0	
OK057	B030144	15	16.5	Clcl100		GY		0	5				0	
OK057	B030145	16.5	18	Clcl100		GY		0	5				0	
OK057	B030146	18	19.5	Clcl100		GY		0	5				0	
OK057	B030147	19.5	21	Clcl100		GY		0	5				0	
OK057	B030148	21	22.5	Clcl100		GY		0	5				0	
OK057	B030149	22.5	24	Clcl100		GY		0	5				0	
OK057	B030150	24	25.5	Clcl100		GY		0	5				0	
OK057	B030151	25.5	27	Clcl100		GY		0	5				0	
OK057	B030152	27	28.5	Clcl100		GY		0	5				0	
OK057	B030153	28.5	30	Clcl100		GY		0	5				0	
OK069	B030382	0	1.5	SCms80cl20		RD		0.01	2				0	FHM
OK069	B030383	1.5	3	CMcl70ms30		GY		0	3				0	
OK069	B030384	3	4.5	CMcl80ms20		GY		0	3				0	
OK069	B030385	4.5	6	Clcl100		GY		0	5				0	
OK069	B030386	6	7.5	MLsi80cl20		GY		0	4				0	
OK069	B030387	7.5	9	SMsi70fs30		GY		0	3				0	
OK069	B030388	9	10.5	SMsi70fs30		GY		0	3				0	
OK069	B030389	10.5	12	SMsi70fs30		GY		0	3				0	
OK069	B030390	12	13.5	SMfs60si40		RD		0	2				0	
OK069	B030391	13.5	15	SMfs70si30		GY		0	2				0	
OK069	B030392	15	16.5	SMfs70si30		BN		0	2				0	
OK069	B030393	16.5	18	SPms80si20		BN		0	2				0	
OK069	B030394	18	19.5	SWms90si10		BN		0	2				0	
OK069	B030395	19.5	21	SWcs90si10		BN		0	1				0	
OK069	B030396	21	22.5	SCms80cl20		BN		0	2				0	
OK069	B030397	22.5	24	COcl70si30		GY		0	4				0	
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OK069	B030401	28.5	30	Clcl100		GY		0	5				0	
OK073	B030450	0	1.5	SPms80si20		RD		0.01	1				0	FHM
OK073	B030451	1.5	3	COcl80si20		RD		0.01	5				0	FHM
OK073	B030452	3	4.5	COcl90si10		GY		0	5				0	
OK073	B030453	4.5	6	COcl90si10		GY		0	5				0	

HOLE	SAMPLE_NO	DEPTH_FROM	DEPTH_TO	LITHOLOGY	COLOUR1	COLOUR2	COLOUR3	HM_EST	WASHING	COMMENTS	IND1	IND2	SAMPLED	HM_TYPE
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OK073	B030456	9	10.5	Clcl100		BN		0	5				0	
OK073	B030457	10.5	12	Clcl100		BN		0	5				0	
OK073	B030458	12	13.5	Clcl100		BN		0	5				0	
OK073	B030459	13.5	15	Clcl100		BN		0	5				0	
OK073	B030460	15	16.5	Clcl100		BN		0	5				0	
OK073	B030461	16.5	18	Clcl100		BN		0	5				0	
OK073	B030462	18	19.5	Clcl100		BN		0	5				0	
OK073	B030463	19.5	21	Clcl100		BN		0	5				0	
OK074	B030464	0	1.5	COcl90si10		BN		0	5				0	
OK074	B030465	1.5	3	COcl80si20		RD		0.01	4				0	MHM
OK074	B030466	3	4.5	Clcl100		RD		0	5				0	
OK074	B030467	4.5	6	COcl80si20		RD		0	5				0	
OK074	B030468	6	7.5	COcl70si30		RD		0	4				0	
OK074	B030469	7.5	9	COcl70si30		RD		0	4				0	
OK074	B030470	9	10.5	COcl70si30		RD		0	4				0	
OK074	B030471	10.5	12	COcl70si30		RD		0	4				0	
OK074	B030472	12	13.5	MLsi60cl40		RD		0	4				0	
OK074	B030473	13.5	15	GMgv70si30		RD		0.4	1				1	MHM
OK074	B030474	15	16.5	GMgr60si40		RD		0.5	1				1	MHM
OK074	B030475	16.5	18	COcl70si30		RD		0	4				0	
OK074	B030476	18	19.5	COcl90si10		BN		0	5				0	
OK074	B030477	19.5	21	Clcl100		BN		0	5				0	
OK074	B030478	21	22.5	Clcl100		BN		0	5				0	
OK074	B030479	22.5	24	Clcl100		BN		0	5				0	
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OK075	B030487	10.5	12	COcl70si30		RD		0	4				0	
OK075	B030488	12	13.5	COcl60si40		RD		0	4				0	
OK075	B030489	13.5	15	COcl90si10		RD		0	4				0	
OK075	B030490	15	16.5	COcl90si10		RD		0	4				0	
OK075	B030491	16.5	18	COcl80si20		RD		0	4				0	
OK075	B030492	18	19.5	COcl80si20		RD		0	4				0	
OK075	B030493	19.5	21	COcl80si20		RD		0	4				0	
OK075	B030494	21	22.5	COcl90si10		RD		0	4				0	
OK075	B030495	22.5	24	COcl90si10		RD		0	4				0	
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OK076	B030497	1.5	3	CMcl80ms20		RD		0	4				0	
OK076	B030498	3	4.5	CMcl70ms30		RD		0	4				0	
OK076	B030499	4.5	6	Clcl90ms10		RD		0	4				0	
OK076	B030500	6	7.5	COcl80si20		RD		0	4				0	

HOLE	SAMPLE_NO	DEPTH_FROM	DEPTH_TO	LITHOLOGY	COLOUR1	COLOUR2	COLOUR3	HM_EST	WASHING	COMMENTS	IND1	IND2	SAMPLED	HM_TYPE
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OK076	B030503	10.5	12	COcl80si20		RD		0	4				0	
OK076	B030504	12	13.5	COcl90si10		RD		0	4				0	
OK076	B030505	13.5	15	COcl90si10		RD		0	4				0	
OK076	B030506	15	16.5	COcl90si10		RD		0	4				0	
OK076	B030507	16.5	18	Clcl100		BN		0	5				0	
OK076	B030508	18	19.5	Clcl100		BN		0	5				0	
OK076	B030509	19.5	21	Clcl100		BN		0	5				0	
OK076	B030510	21	22.5	Clcl100		BN		0	5				0	
OK076	B030511	22.5	24	Clcl100		GY		0	5				0	
OK077	B030512	0	1.5	GPgv70ms30		RD		0.01	1				0	FHM
OK077	B030513	1.5	3	GPgv60ms40		RD		0.01	1				0	FHM
OK077	B030514	3	4.5	COcl70si30		RD		0	3				0	
OK077	B030515	4.5	6	Clcl100		RD		0	5				0	
OK077	B030516	6	7.5	Clcl100		GY		0	5				0	
OK077	B030517	7.5	9	Clcl100		GY		0	5				0	
OK077	B030518	9	10.5	Clcl100		GY		0	5				0	
OK077	B030519	10.5	12	Clcl100		GY		0	5				0	
OK077	B030520	12	13.5	Clcl100		GY		0	5				0	
OK077	B030521	13.5	15	Clcl100		GY		0	5				0	
OK077	B030522	15	16.5	Clcl100		GY		0	5				0	
OK077	B030523	16.5	18	Clcl100		GY		0	5				0	
OK090	B030630	0	1.5	SPms80si20		RD		0.01	1				0	FHM
OK090	B030631	1.5	3	Clcl90ms10		RD		0	3				0	
OK090	B030632	3	4.5	Clcl95ms5		RD		0	4				0	
OK090	B030633	4.5	6	Clcl100		RD		0	5				0	
OK090	B030634	6	7.5	COcl80si20		RD		0	4				0	
OK090	B030635	7.5	9	MLsi70cl30		RD		0.01	3				0	FHM
OK090	B030636	9	10.5	MLsi80cl20		BN		0.01	3				0	FHM
OK090	B030637	10.5	12	Clcl100		BN		0.01	4				0	FHM
OK090	B030638	12	13.5	Clcl100		BN		0	5				0	
OK090	B030639	13.5	15	Clcl100		BN		0	5				0	
OK091	B030640	0	1.5	SPms80si20		RD		0.01	1		CAL	W	0	FHM
OK091	B030641	1.5	3	CMcl80fs20		RD		0	3				0	
OK091	B030642	3	4.5	COcl70si30		RD		0	4				0	
OK091	B030643	4.5	6	SMfs70si30		RD		0.2	2				0	FHM
OK091	B030644	6	7.5	COcl60si40		RD		0	4				0	
OK091	B030645	7.5	9	COcl70si30		RD		0	4				0	
OK091	B030646	9	10.5	COcl80si20		RD		0	4				0	
OK091	B030647	10.5	12	COcl80si20		RD		0	4				0	
OK092	B030648	0	1.5	COcl70si30		RD		0	4				0	
OK092	B030649	1.5	3	COcl70si30		RD		0	4				0	
OK092	B030650	3	4.5	COcl60si40		RD		0	4				0	
OK092	B030651	4.5	6	MLsi70cl30		RD		0.01	3				0	FHM
OK092	B030652	6	7.5	MLsi80cl20		RD		0.01	3				0	FHM
OK092	B030653	7.5	9	MLsi80cl20		RD		0	3				0	

HOLE	SAMPLE_NO	DEPTH_FROM	DEPTH_TO	LITHOLOGY	COLOUR1	COLOUR2	COLOUR3	HM_EST	WASHING	COMMENTS	IND1	IND2	SAMPLED	HM_TYPE
OK092	B030654	9	10.5	Clcl100		GY		0	5				0	
OK092	B030655	10.5	12	Clcl100		GY		0	5				0	
OK093	B030656	0	1.5	SPms80si20		RD		0.01	1				0	FHM
OK093	B030657	1.5	3	SMsi80fs20		RD		0.01	2				0	MHM
OK093	B030658	3	4.5	SMsi80fs20		RD		0.2	2				1	MHM
OK093	B030659	4.5	6	MLsi80cl20		RD		0.2	3				1	FHM
OK093	B030660	6	7.5	MLsi80cl20		RD		0.01	4				0	FHM
OK093	B030661	7.5	9	SMsi100		RD		0.3	3				1	MHM
OK093	B030662	9	10.5	SMsi100		RD		0.2	3				1	MHM
OK093	B030663	10.5	12	SMsi100		RD		0.1	3				1	MHM
OK093	B030664	12	13.5	SMsi70cs30		RD		0.01	2				0	MHM
OK093	B030665	13.5	15	SMsi70cs30		RD		0.2	2				1	CHM
OK093	B030666	15	16.5	COcl70si30		GY		0	4				0	
OK093	B030667	16.5	18	Clcl100		GY		0	5				0	
OK093	B030668	18	19.5	Clcl100		GY		0	5				0	
OK093	B030669	19.5	21	Clcl100		GY		0	5				0	
OK093	B030670	21	22.5	Clcl100		GY		0	5				0	
OK093	B030671	22.5	24	Clcl100		GY		0	5				0	
OK094	B030672	0	1.5	SPms80si20		RD		0.01	1		CAL	W	0	FHM
OK094	B030673	1.5	3	CMcl80fs20		RD		0.01	3				0	FHM
OK094	B030674	3	4.5	MLsi70cl30		RD		0	4				0	
OK094	B030675	4.5	6	MLsi70cl30		RD		0	4				0	
OK094	B030676	6	7.5	MLsi80cl20		RD		0	4				0	
OK094	B030677	7.5	9	MLsi90cl10		BN		0.01	4				0	FHM
OK094	B030678	9	10.5	COcl60si40		BN		0	4				0	
OK094	B030679	10.5	12	COcl80si20		BN		0	4				0	
OK094	B030680	12	13.5	Clcl100		BN		0	5				0	
OK094	B030681	13.5	15	Clcl100		BN		0	5				0	
OK095	B030682	0	1.5	SCms80cl20		RD		0.01	2				0	FHM
OK095	B030683	1.5	3	COcl70si30		RD		0	4				0	
OK095	B030684	3	4.5	COcl70si30		RD		0	4				0	
OK095	B030685	4.5	6	COcl70si30		RD		0	4				0	
OK095	B030686	6	7.5	MLsi90cl10		RD		0	3				0	
OK095	B030687	7.5	9	MLsi80cl20		RD		0	3				0	
OK095	B030688	9	10.5	COcl70si30		RD		0	4				0	
OK095	B030689	10.5	12	COcl90si10		RD		0	5				0	
OK095	B030690	12	13.5	Clcl100		BN		0	5				0	
OK095	B030691	13.5	15	Clcl100		BN		0	5				0	
OK095	B030692	15	16.5	Clcl100		GY		0	5				0	
OK095	B030693	16.5	18	Clcl100		GY		0	5				0	
OK096	B030694	0	1.5	SMms70si30		RD		0.01	1				0	FHM
OK096	B030695	1.5	3	COcl70si30		RD		0	3				0	
OK096	B030696	3	4.5	COcl70si30		RD		0	4				0	
OK096	B030697	4.5	6	MLsi80cl20		RD		0	4				0	
OK096	B030698	6	7.5	MLsi70cl30		RD		0	4				0	
OK096	B030699	7.5	9	Clcl100		RD		0	5				0	
OK096	B030700	9	10.5	Clcl100		GY		0	5				0	

HOLE	SAMPLE_NO	DEPTH_FROM	DEPTH_TO	LITHOLOGY	COLOUR1	COLOUR2	COLOUR3	HM_EST	WASHING	COMMENTS	IND1	IND2	SAMPLED	HM_TYPE
OK096	B030701	10.5	12	Clcl100		RD		0	5				0	
OK096	B030702	12	13.5	Clcl100		RD		0	5				0	
OK096	B030703	13.5	15	Clcl100		BN		0	5				0	
OK096	B030704	15	16.5	CMcl80fs20		GY		0	4				0	
OK096	B030705	16.5	18	SMfs60si40		GY		0	2				0	
OK096	B030706	18	19.5	SMsi80fs20		BN		0	3				0	
OK096	B030707	19.5	21	SMsi80fs20		BN		0	3				0	
OK096	B030708	21	22.5	SMfs70si30		BN		0	2				0	
OK096	B030709	22.5	24	SMfs70si30		BN		0	2				0	
OK096	B030710	24	25.5	SPms80si20		RD		0	2				0	
OK096	B030711	25.5	27	SMms70si30		BN		0	2				0	
OK096	B030712	27	28.5	SPcs60si40		BN		0	2				0	
OK096	B030713	28.5	30	SPcs70si30		BN		0	2				0	
OK096	B030714	30	31.5	SPcs60si40		GY		0	4				0	
OK096	B030715	31.5	33	SPms80si20		BN		0	2				0	
OK096	B030716	33	34.5	SPcs80si20		BN		0	2				0	
OK096	B030717	34.5	36	SPcs80si20		BN		0	2				0	
OK096	B030718	36	37.5	SPcs80si20		BN		0	1				0	
OK096	B030719	37.5	39	SWfs90si10		GY		0	2				0	
OK096	B030720	39	40.5	SWfs90si10		GY		0	2				0	
OK096	B030721	40.5	42	SMfs60si40		GY		0	3				0	
OK096	B030722	42	43.5	SMfs70si30		BN		0	3				0	
OK096	B030723	43.5	45	SPfs80si20		BN		0	3				0	
OK096	B030724	45	46.5	SPfs80si20		BN		0	3				0	
OK096	B030725	46.5	48	SCfs80cl20		BN		0	4				0	
OK096	B030726	48	49.5	Clcl90fs10		GY		0	5				0	
OK096	B030727	49.5	51	Clcl90fs10		GY		0	5				0	

Oakvale Project
Assay Data

HOLE	FROM	TO	SAMPLE	WT_KG	SPLIT_G	OS_G	ASS_FRACT_G	OS_%	ASS_FRACT_%	SLIMES_%	TBE G	SINK G	TBE SINK	head_hm_%	MINERALOGY	ILM	ALT_ILM	LEU	RUT	MON	ZIR	VHM	ANT	CHR	SID	FEOX	SILICATES	TML	LT	SULPHIDES	OTHERS	TRASH	TOTAL
OK074	13.5	15	B030473	5.5	610	155	332	25.41	54.43	20.16	86	7.42	8.63	4.7	1	0	0	0	5.45	0	6.06	11.5	0	0	0	88.5	0	0	0	0	0	88.5	100
OK074	15	16.5	B030474	2.5	572	131	264	22.9	46.15	30.94	88	6.92	7.86	3.63	1	0	0	0	5.45	0	6.06	11.5	0	0	0	88.5	0	0	0	0	0	88.5	100
OK093	3	4.5	B030658	6.5	574	80	171	13.94	29.79	56.27	84	5.87	6.99	2.08	1	23.44	0	0	3.15	0	2.33	28.93	0	0	0	71.07	0	0	0	0	0	71.07	100
OK093	4.5	6	B030659	4.5	554	126	215	22.74	38.81	38.45	53	1.69	3.19	1.24	1	23.44	0	0	3.15	0	2.33	28.93	0	0	0	71.07	0	0	0	0	0	71.07	100
OK093	7.5	9	B030661	3.5	519	86	198	16.57	38.15	45.28	98	1.2	1.22	0.47	1	34	27.4	31.1	3.2		0.9	96.6		0.9				1.2	1.3			3.4	100
OK093	9	10.5	B030662	5	587	0	290	0	49.4	50.6	68	1.69	2.49	1.23	1	13.3	41.9	41.4	0.7		0.7	98						1.5	0.5			2	100
OK093	10.5	12	B030663	3.5	509	138	289	27.11	56.78	16.11	69	0.76	1.1	0.63	1	23.62	0	0	0	0	0	23.62	0	0	0	76.38	0	0	0	0	0	76.38	100
OK093	13.5	15	B030665	6.5	574	10	434	1.74	75.61	22.65	62	2.8	4.52	3.41	1	23.44	0	0	3.15	0	2.33	28.93	0	0	0	71.07	0	0	0	0	0	71.07	100