

ANNUAL REPORT FOR EXPLORATION LICENCE
E8470 (ORD BASIN NT PROJECT)
FOR THE PERIOD 5 NOVEMBER 1995 TO 5 NOVEMBER 1996
LIMBUNYA 1:250 000 SHEET SE 52-07
NORTHERN TERRITORY

P G Lewis
December 1996

CR 96-940

CR 96-940
OPEN FILE

OPEN FILE

LIST OF CONTENTS

	Page No.
1. SUMMARY	1
2. INTRODUCTION	1
3. CONCLUSIONS AND RECOMMENDATIONS ..	2
4. STREAM SEDIMENT SAMPLING	2
5. EXPENDITURE	3
LIST OF PLANS	4
LIST OF APPENDICES	4

1. SUMMARY

A regional stream sediment sampling programme targeting the Nelson Shale and its contact with the underlying Headleys Limestone was undertaken. A total of 46 -80# samples were collected with helicopter support.

Geochemical assay results were generally low. The maximum Cu assay returned was 116 ppm.

2. INTRODUCTION

Exploration Licences EL8470 and EL8471 are the subject of the Ord Basin Joint Venture between P.G. Lewis and CRA Exploration Pty Limited which took effect on 19 October 1995. CRA Exploration Pty Limited has managed the project since this date.

The tenements are located on the Limbunya 1:250,000 mapsheet, within the Mistake Creek Aboriginal Pastoral Lease (Plan WA6065k).

The focus of exploration is the Cambrian Nelson Shale as a potential 'White Pine' style stratabound copper host which has not been previously tested.

This annual report details exploration carried out within the project area for the period 5 November 1995 to 5 November 1996.

3. CONCLUSIONS AND RECOMMENDATIONS

The geochemical results suggest that there is limited potential for significant mineralisation associated with the Nelson Shale and its contact with the underlying Headley Limestone within the project area.

Results are not sufficiently encouraging to warrant further work being undertaken by CRA Exploration Pty Limited.

4. STREAM SEDIMENT SAMPLING

A regional stream sediment sampling programme was undertaken with helicopter support. The sampling targeted the Nelson Shale and its contact with the underlying Headley Limestone.

A total of 46 -80# samples were collected within the project tenement area. Samples were located using 1:25,000 aerial photography, with GPS back-up. Sample locations are plotted on Plan WA6063k.

The samples were sent to Analabs in Perth for analysis involving:

- Sample Preparation:

Fine pulverise sample to < 75 micron.

Mixed acid digest using aqua regia, perchloric acid and hydrofluoric acids

- Assay Determinations (lower detection limit, ppm)

ICP-MS

Ag (0.1), As (0.1), Bi (0.1), Cd (0.1), Mo (0.1), Pb (1), Th (0.05), U (0.05)

ICP-OLS

Ba (5), Co (5), Cr (10), Cu (5), Fe (100), Mn (15), Ni (10), P (30), Ti (10), V (2), Zn (5)

Geochemical assay results are provided in Appendix 1.

Within EL8470, the highest Cu assays returned were 116 ppm (3817290), 113 ppm (3817301) and 109 ppm (3817289). These samples were taken in the vicinity of Headleys Knob from catchments draining the Headley Limestone and Antrim Plateau Volcanics.

Within EL8471 all Cu assays were around the background value of 40 ppm.

Follow-up work is not proposed for EL8471.

5. EXPENDITURE

Expenditure for the period ending 5 November 1996 was \$44,864.

Direct Drilling	0
Contract Exploration	11 955
Laboratory Analysis	3 749
Rent and Property	1 100
Payroll and Benefit	12 795
Field and Transport	6 058
Travel and Accommodation	317
Computer Services	461
Professional	0
Office and Miscellaneous	890
Indirect Costs	7214
Tenement Payments	<u>325</u>
	<u>\$44 864</u>

LIST OF PLANS

Plan No.	Title	Scale
WA6065k	Tenement Location Plan	1:500 000
WA6063k	Stream Sediment Sample Locations	1:100 000

LIST OF APPENDICES

Appendix 1 Geochemical Assay Results

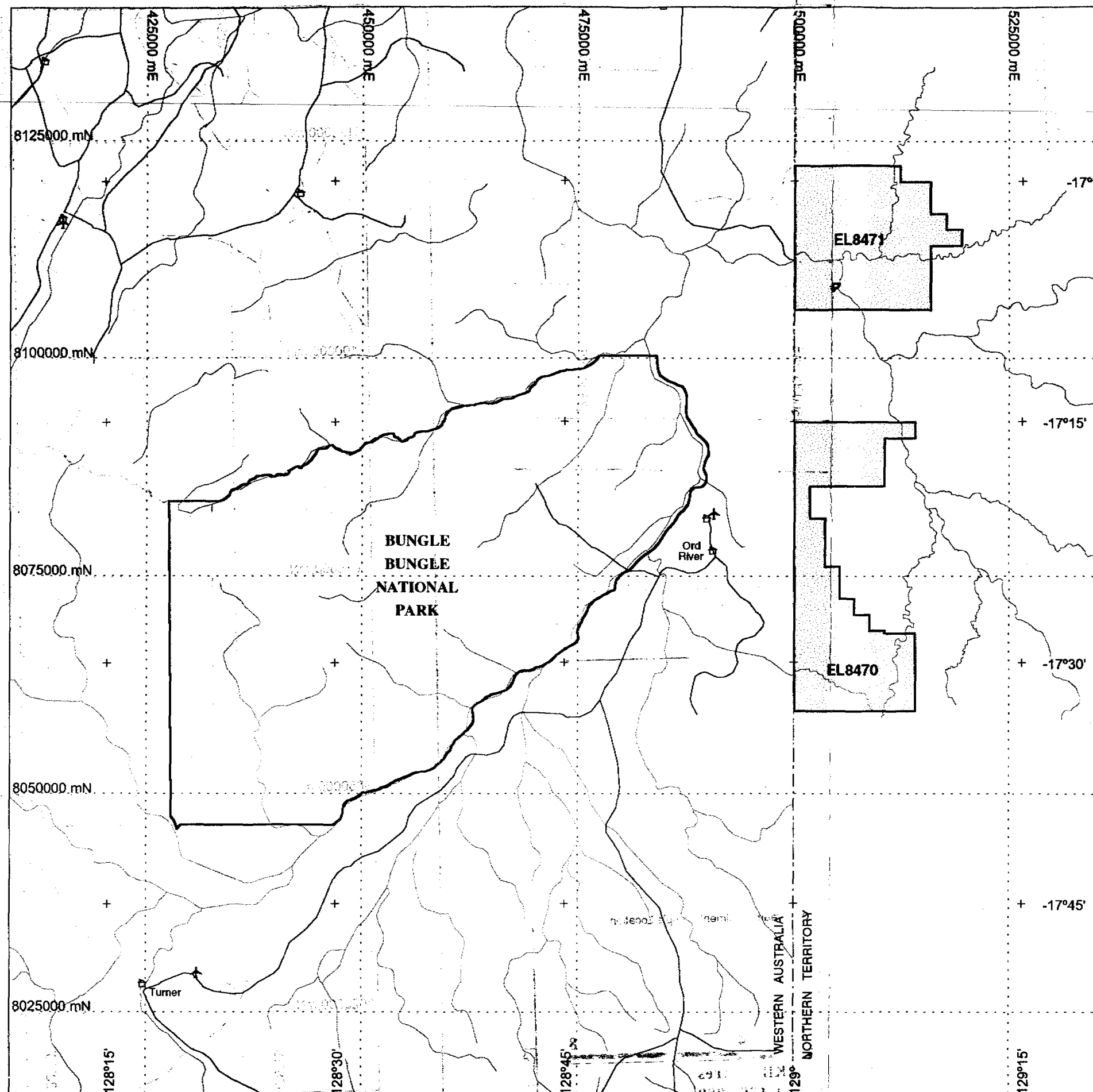
APPENDIX I

GEOCHEMICAL ASSAY RESULTS

Appendix I

Ord Basin JV NT Project
Regional Geochemical Assay Results

SAMPLE NO.	MATERIAL	EASTING	NORTHING	TENEMENT	Ag ppm	As ppm	Ba ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Th ppm	Ti ppm	U ppm	V ppm	Zn ppm
3817275	-80# Stream	500600	8087350	EL8470	0.1	7	318	0.3	0.05	12	29	19	28790	556	1.2	19	226	13	9.73	3230	2.06	80	31
3817276	-80# Stream	500950	8087550	EL8470	0.2	9	316	0.3	0.05	2.5	12	7	18450	112	0.3	5	202	12	10.8	1920	1.6	37	16
3817277	-80# Stream	503200	8080975	EL8470	0.2	10	276	0.4	0.2	15	38	37	43920	940	1.1	20	190	16	11.2	6150	2.13	197	46
3817278	-80# Stream	502950	8080400	EL8470	0.1	3	188	0.2	0.05	13	32	17	28450	558	0.5	18	267	12	8.05	3380	1.32	71	35
3817279	-80# Stream	501750	8080000	EL8470	0.2	7	243	0.2	0.2	13	33	29	34040	805	1.1	17	214	15	8.53	4260	1.78	131	38
3817280	-80# Stream	501875	8079650	EL8470	0.1	7	238	0.1	0.1	18	17	14	20300	1030	0.5	14	127	35	4.1	1460	1.1	98	19
3817281	-80# Stream	501325	8080100	EL8470	0.1	11	276	0.3	0.1	14	38	20	36150	722	1	20	257	12	10.1	4510	2.41	139	41
3817284	-80# Stream	500300	8076900	EL8470	0.1	2	329	0.2	0.05	42	22	90	105700	1530	0.2	28	256	23	10.1	15570	1.68	588	280
3817285	-80# Stream	500225	8076400	EL8470	0.2	4	217	0.2	0.05	15	27	19	32790	671	0.3	17	207	12	7.77	4820	1.22	133	48
3817289	-80# Stream	505500	8073250	EL8470	0.2	2	409	0.2	0.05	41	23	116	86630	1100	3.7	30	378	23	10.3	10980	1.6	387	182
3817290	-80# Stream	505025	8073000	EL8470	0.1	0.5	362	0.2	0.1	46	21	109	98480	1240	0.1	30	310	24	10.4	9450	1.71	385	202
3817291	-80# Stream	502025	8072125	EL8470	0.2	6	287	0.2	0.4	17	33	30	39500	1880	0.6	20	343	35	8.31	5850	1.62	139	86
3817292	-80# Stream	501950	8072000	EL8470	0.1	5	237	0.3	0.2	17	49	28	40300	1350	0.9	21	341	26	8.78	5850	1.79	131	61
3817293	-80# Stream	500425	8072375	EL8470	0.2	2	435	0.1	0.1	46	20	108	106900	1330	0.7	29	378	24	11.5	16830	1.92	587	204
3817300	-80# Stream	503200	8070200	EL8470	0.2	2	307	0.1	0.05	38	28	76	99020	1400	0.6	24	317	19	9.33	17060	1.67	594	204
3817301	-80# Stream	503000	8070100	EL8470	0.2	1	429	0.1	0.1	46	29	113	113300	1470	0.2	29	346	24	10.1	15710	1.87	624	241
3817302	-80# Stream	501450	8068750	EL8470	0.2	6	303	0.3	0.3	22	42	49	49020	1590	0.7	22	317	51	9.96	6820	1.74	185	91
3817303	-80# Stream	501450	8068550	EL8470	0.3	10	295	0.4	0.5	22	65	55	50640	2590	0.9	30	548	85	12.4	7140	2.69	161	95
3817460	-80# Stream	500575	8119000	EL8471	0.05	2	294	0.1	0.05	35	43	43	69180	806	0.7	30	269	13	10.7	8770	1.5	255	75
3817461	-80# Stream	500650	8118650	EL8471	0.1	8	366	0.2	0.1	19	39	34	41760	837	1.5	20	260	13	10.3	5850	2.14	173	54
3817462	-80# Stream	503300	8117200	EL8471	0.05	7	270	0.2	0.1	21	39	26	44870	822	1.1	24	196	14	9.94	6780	1.83	188	52
3817463	-80# Stream	503450	8117275	EL8471	0.2	5	292	0.2	0.05	24	34	32	52640	730	1	20	396	14	11.8	6220	1.84	163	62
3817464	-80# Stream	504850	8119000	EL8471	0.1	2	288	0.1	0.05	37	15	45	80100	1010	0.9	18	536	12	12.7	8850	1.71	252	88
3817465	-80# Stream	505150	8118975	EL8471	0.05	4	232	0.2	0.1	27	27	56	60380	879	1	18	584	15	9.55	6990	1.71	188	80
3817466	-80# Stream	509550	8118350	EL8471	0.2	4	241	0.1	0.05	32	43	44	62110	859	0.8	26	507	16	10	6200	1.72	176	69
3817467	-80# Stream	509650	8118500	EL8471	0.05	4	228	0.1	0.05	31	43	40	63920	947	0.8	26	501	15	9.5	7560	1.76	215	72
3817468	-80# Stream	511600	8117100	EL8471	0.05	1	252	0.1	0.05	55	20	41	134300	1110	0.9	29	378	19	11	24190	1.64	778	132
3817469	-80# Stream	511800	8117050	EL8471	0.2	2	298	0.1	0.05	35	18	36	68720	840	0.8	19	327	18	10.4	8260	1.57	236	68
3817470	-80# Stream	513400	8115950	EL8471	0.1	1	257	0.2	0.05	42	21	68	94000	1040	1.3	21	584	12	10.9	15000	1.7	440	125
3817471	-80# Stream	513525	8115725	EL8471	0.05	4	239	0.2	0.05	30	26	69	63700	876	1	17	585	13	10.1	7350	1.76	197	88
3817472	-80# Stream	511775	8114700	EL8471	0.1	4	267	0.2	0.05	38	24	42	83370	956	1	21	422	14	11.2	12140	1.61	370	100
3817473	-80# Stream	511500	8115700	EL8471	0.05	0.5	261	0.2	0.05	58	22	44	147200	1190	0.3	30	256	20	11.5	17080	1.73	740	144
3817474	-80# Stream	511000	8116000	EL8471	0.05	2	271	0.1	0.05	37	37	37	70390	806	0.5	27	398	13	10.6	7590	1.42	229	71
3817475	-80# Stream	510275	8114850	EL8471	0.05	3	304	0.2	0.05	32	41	39	66320	735	0.2	26	196	15	10.3	8220	1.96	255	66
3817476	-80# Stream	510175	8114625	EL8471	0.1	9	286	0.3	0.05	23	54	24	41970	731	1.1	26	208	14	11.1	4820	2.08	123	47
3817477	-80# Stream	506050	8115150	EL8471	0.05	3	294	0.3	0.1	23	39	28	59230	940	0.3	25	151	16	10.7	6390	1.84	216	69
3817478	-80# Stream	505700	8115825	EL8471	0.1	7	225	0.3	0.2	19	64	32	39170	819	1.2	21	282	13	9.62	4890	1.98	137	48
3817479	-80# Stream	505900	8115825	EL8471	0.05	10	282	0.3	0.05	24	74	34	42210	885	1	26	253	15	10.3	4750	2.01	124	52
3817480	-80# Stream	503025	8115450	EL8471	0.1	7	268	0.2	0.1	23	37	28	49460	825	1.2	21	372	14	10.2	6580	1.76	178	56
3817481	-80# Stream	510175	8111600	EL8471	0.2	2	215	0.2	0.05	72	28	46	233700	1840	1.9	40	229	21	9.33	54320	1.86	1860	265
3817482	-80# Stream	510100	8111800	EL8471	0.1	2	332	0.1	0.05	47	20	40	103000	1110	0.2	25	396	17	11.2	12220	1.53	408	99
3817483	-80# Stream	511700	8111475	EL8471	0.2	1	303	0.2	0.05	36	18	56	80200	823	0.6	19	490	13	11	9500	1.6	280	100
3817484	-80# Stream	511825	8111250	EL8471	0.05	4	338	0.2	0.05	30	29	34	63230	838	0.8	22	280	15	11	8090	1.8	220	63
3817485	-80# Stream	513450	8110350	EL8471	0.1	9	249	0.3	0.1	16	42	20	40970	864	1.6	20	170	13	8.92	6460	1.84	188	45
3817486	-80# Stream	513800	8110625	EL8471	0.05	7	300	0.2	0.05	24	51	36	54240	613	1.2	24	203	15	11	5770	2.06	171	59
3817489	-80# Stream	515650	8106700	EL8471	0.1	7	269	0.2	0.05	23	57	29	44470	857	0.7	23	213	18	9.88	5070	1.58	121	52



CR 96 / 940

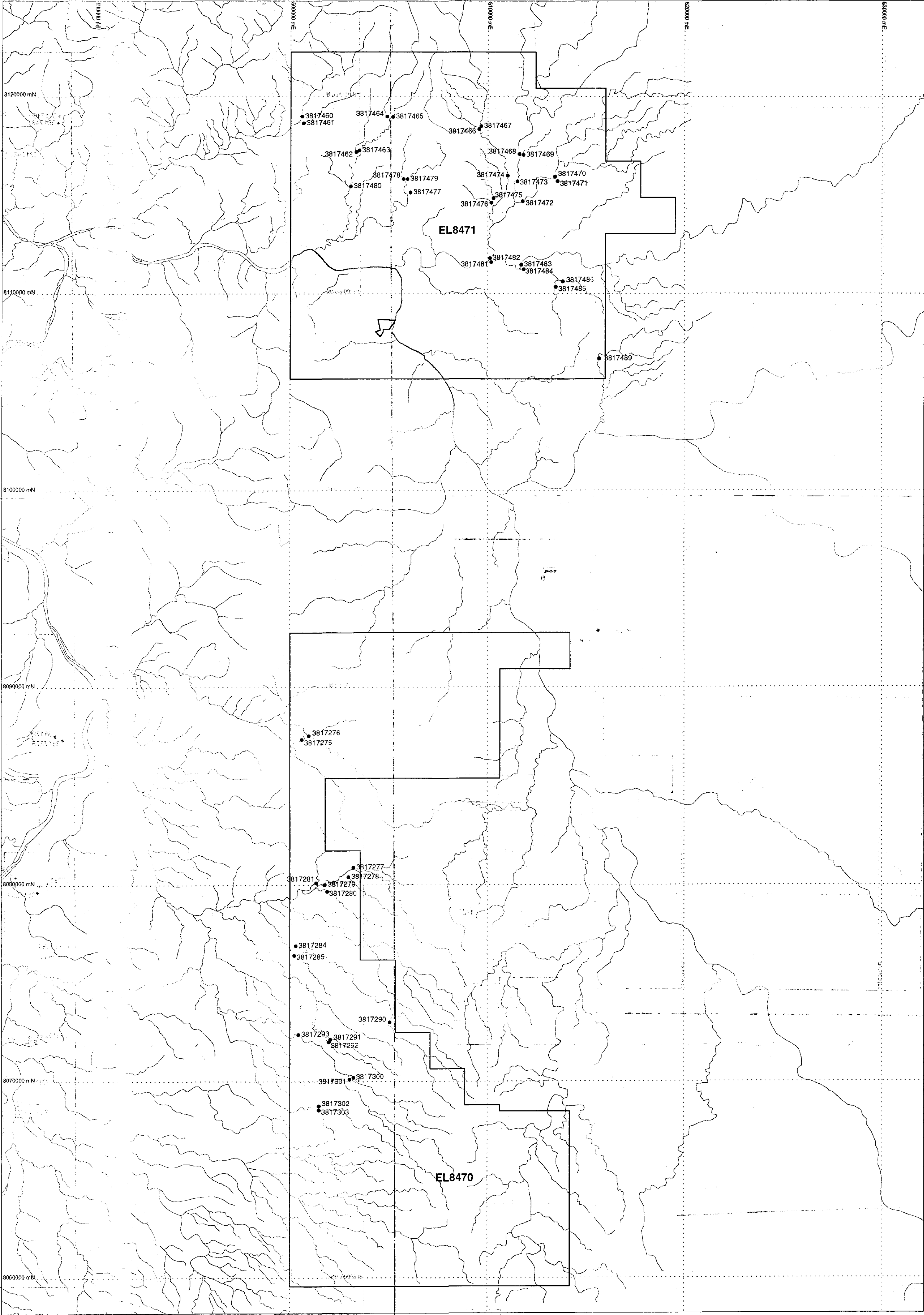


0 20 40
Kilometres
1:500 000

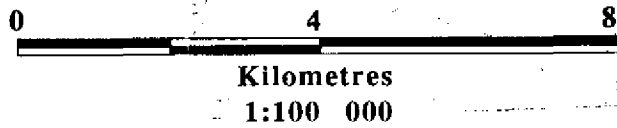
CRA EXPLORATION PTY. LIMITED
ORD BASIN JOINT VENTURE NT PROJECT
EL8470 and EL8471

TENEMENT LOCATION PLAN

Author : D P HOME	Ref : SE52-03, 07
Drawn : I HUBBARD	File Name : 6065ORBJV
Date : JULY 1996	Report No : 22248
Scale : 1: 500 000	Plan No : WA6065k



● -89# Stream Sediment Sample Location



CRA EXPLORATION PTY. LIMITED	
ORD BASIN JOINT VENTURE NT PROJECT	
EL8470, EL8471	
REGIONAL STREAM SEDIMENT	
SAMPLE LOCATIONS	
Author : D P HOME	Ref : SE52-03. 07
Drawn : I HUBBARD	File Name : 6063ORB JV
Date : JULY 1996	Report No : 22248
Scale : 1:100 000	Plan No : WA6063K