

Cameco Australia Pty Ltd
EAST ALLIGATOR (EL23522)

DESCRIPTIONS OF OUTCROP STATIONS
for year ending 25/03/2004

AGD66 AMG Zone 53												
Station ID	UTM E	UTM N	Z	EL Name	Geomorphology	Outcrop Description	Formation	Lithology	Sed_structure	Cps (max)	Cps (bkgd)	Comment
EA030102	341596	8566946	290	EL 23522	edge of ridge	low outcrop on flat soil plain	Marlgowa Sandstone	fine grained sandstone		150	150	
EA030103	344098	8567048	295	EL 23522	open plain	low lying outcrop	Marlgowa Sandstone	fine to medium grained sandstone	Bedding	40	40	
EA030104	346180	8566834	300	EL 23522	small ridge on spinifex plain	siliceous ridge, most not in situ	Marlgowa Sandstone	fine to medium grained siliceous sandstone		50	50	trace of clay intraclasts
EA030105	340067	8569129	300	EL 23522	flat top of plateau	flat subcropping sandstone	Marlgowa Sandstone	fine to medium grained weakly silicified sandstone		50	50	scattered pebbles in outcrop
EA030106	341995	8569279	290	EL 23522	open plain	small mesa outcrop	Marlgowa Sandstone	fine to medium grained silicified sandstone	ripple marks, bedding	70	60	proximal to Gilruth Volcanics
EA030107	344016	8569052	290	EL 23522	undulating flat shrubby area	stepped blocky silicified outcrop	Marlgowa Sandstone	fine to medium grained sandstone		50	40	
EA030108	346069	8568963	290	EL 23522	on top of plateau near gully	small rubbly outcrop	Marlgowa Sandstone	fine grained bleached sandstone		40	40	
EA030109	338128	8570957	272	EL 23522	large flat plateau	flat subcrop	Marlgowa Sandstone	fine to medium grained sandstone	bedding	40	40	
EA030110	339964	8570853	272	EL 23522	top of rodge in NW trending gully (lineament)	large blocky outcrop	Marlgowa Sandstone	fine grained very silicified sandstone	ripple marks	40	40	
EA030111	341988	8571018	297	EL 23522	large flat plateau, scrubby vegetation	small areas of boulder outcrop	Marlgowa Sandstone	fine to medium grained sandstone		50	50	
EA030112	343996	8571103	325	EL 23522	well vegetated plateau	small blocky sandstone outcrop, localised ferruginous crust, possible Gilruth Volcanics	Marlgowa Sandstone	fine to medium grained sandstone		90	90	
EA030113	346117	8571011	344	EL 23522	plateau with sparse vegetation	boulder outcrop on plateau	Marlgowa Sandstone	fine to medium grained sandstone		50	45	
EA030114	335796	8573482	309	EL 23522	top of ridge	flat lying outcrop	Marlgowa Sandstone	fine grained sandstone	bedding	40	40	
EA030115	337874	8573128	240	EL 23522	top of ridge between two gullys	stepped slabby outcrop	Marlgowa Sandstone	fine to medium grained sandstone		60	50	
EA030116	340161	8572684	278	EL 23522	flat lying undulating plateau sparse vegetation	flat outcrop scattered boulders	Marlgowa Sandstone	fine to medium grained sandstone		40	40	
EA030117	342160	8573069	303	EL 23522	edge of plateau	blocky outcrop with scattered pebbles	Marlgowa Sandstone	medium to coarse grained sandstone		40	40	
EA030118	344136	8573096	339	EL 23522	edge of ridge scrubby vegetation	small boulder ridge	Marlgowa Sandstone	medium grained sandstone		60	60	localised ferruginous crust nearby
EA030119	346004	8573212	335	EL 23522	flat plateau	flat subcrop with nearby ferruginous crust	Marlgowa Sandstone	fine to medium grained sandstone	bedding	45	45	
EA030120	331921	8575169	229	EL 23522	low scrub on pisolitic plain	NE trending blocky ridge	Gumarrimbang Sandstone	fine grained sandstone		90	90	pisolitic material (Gilruth) nearby 100cps
EA030121	334095	8575194	253	EL 23522	edge of castellated ridge	flat boulder outcrop	Marlgowa Sandstone	fine to medium grained sandstone	bedding	50	40	
EA030122	335969	8574887	326	EL 23522	flatly dipping outcrop on ridge	thinly bedded outcrop	Marlgowa Sandstone	medium grained sandstone		40	40	
EA030123	337928	8575014	288	EL 23522	top of plateau with minor castellation	boulder outcrop	Marlgowa Sandstone	fine grained sandstone		40	40	
EA030124	340094	8574812	282	EL 23522	plateau on edge of gully	scattered boulders on plateau	Marlgowa Sandstone	fine to medium grained sandstone	ripple marks	50	50	
EA030125	342188	8574909	300	EL 23522	edge of gully	boulder outcrop	Marlgowa Sandstone	fine to medium grained sandstone		40	40	
EA030126	343849	8575042	326	EL 23522	mildly castellated terrane	thinly bedded within boulder outcrop	Marlgowa Sandstone	fine to medium grained sandstone	ripple marks	70	70	
EA030127	346194	8575131	347	EL 23522	open flat area amongst trees	subcrop on open plain, scattered pebbles in outcrop	Marlgowa Sandstone	medium to coarse grained sandstone		40	40	some ferruginous sandstone in area
EA030128	330282	8577100	241	EL 23522	flat area on edge of lineament containing ferruginous rubble	subcrop with scattered boulders	Gumarrimbang Sandstone	medium to coarse grained sandstone		65	65	ferruginous material (90cps)
EA030129	331758	8576752	301	EL 23522	flat area on top of large hill	subcrop in flat area	Marlgowa Sandstone	medium grained sandstone	ripple marks	50	50	
EA030130	333617	8576942	241	EL 23522	ridge on edge of large lineament	scattered boulders on ridge	Marlgowa Sandstone	medium grained sandstone		40	40	
EA030131	336118	8576981	330	EL 23522	small ridge on top of plateau	boulder outcrop	Marlgowa Sandstone	medium to coarse grained sandstone		65	65	
EA030132	338059	8577200	327	EL 23522	edge of gully	low boulder outcrop	Marlgowa Sandstone	medium to coarse grained sandstone		55	55	
EA030133	339951	8577146	326	EL 23522	small ridge on top of plateau	blocky ridge outcrop	Marlgowa Sandstone	medium grained sandstone		60	60	
EA030134	341669	8577202	302	EL 23522	moderately castellated terrane on top of ridge	boulder outcrop	Marlgowa Sandstone	medium to coarse grained sandstone		60	60	
EA030135	344139	8576954	322	EL 23522	small ridge amongst dense low scrub	flat bedded boulder outcrop	Marlgowa Sandstone	fine to medium grained sandstone		65	65	
EA030136	346038	8576974	348	EL 23522	moderately vegetated area surrounding relatively flat outcrop	low lying subcrop, scattered boulders	Marlgowa Sandstone	fine to medium grained sandstone	bedding	50	50	
EA030137	328000	8579055	266	EL 23522	open flat plateau with shrubby vegetation	flat subcrop within spinifex plain	Gumarrimbang Sandstone	fine grained sandstone	bedding	50	50	
EA030138	329971	8579100	249	EL 23522	edge of moderate scarp	flat bedded edge of scarp outcrop	Gumarrimbang Sandstone	medium grained sandstone	bedding, ripple marks	40	40	
EA030139	332018	8578821	255	EL 23522	outcrop on edge of large lineament	blocky outcrop	Gumarrimbang Sandstone	medium grained sandstone	ripple marks	45	45	
EA030140	333539	8579081	266	EL 23522	edge of low open plain	tilited blocky outcrop	Marlgowa Sandstone	fine grained sandstone	fold	70	100	Gilruth Volcanics proximal
EA030141	335778	8578812	302	EL 23522	outcrop on side of hill between two ridges	boulder outcrop amongst thick vegetation	Marlgowa Sandstone	medium to coarse grained sandstone		60	60	
EA030142	338047	8579084	339	EL 23522	edge of lineament and open plain	boulder outcrop	Marlgowa Sandstone	medium to coarse grained sandstone		50	60	
EA030143	339912	8578903	341	EL 23522	flat open plain	flat slabby outcrop	Marlgowa Sandstone	fine to medium grained sandstone	bedding	40	60	
EA030144	342161	8579132	316	EL 23522	edge of gully	boulder outcrop	Marlgowa Sandstone	medium grained sandstone		50	60	
EA030145	343902	8578835	332	EL 23522	flat open area	blocky outcrop	Marlgowa Sandstone	medium to coarse grained sandstone		40	51	
EA030146	346002	8578961	335	EL 23522	flat open area	flat subcrop with rippled siface	Marlgowa Sandstone	medium grained sandstone	ripples	50	50	
EA030147	323995	8581011	266	EL 23522	edge of ridge	rubbly flat outcrop		fine to coarse grained sandstone	graded bedding	50	49	
EA030148	325919	8581020	312	EL 23522	flat shoulder of ridge	boulder outcrop		medium grained sandstone		56	60	
EA030149	327860	8581184	274	EL 23522	top of large ridge	flat lying outcrop		fine grained sandstone		35	35	
EA030150	329974	8581073	230	EL 23522	in wide gully	flat laminated outcrop		medium to coarse grained sandstone		50	60	
EA030151	331951	8580843	253	EL 23522	edge of large 030 trending lineament	low lying flat outcrop		medium grained sandstone		42	40	
EA030152	333887	8580952	293	EL 23522	edge of two knobby hills	large outcrop		medium to coarse grained sandstone		61	100	
EA030153	335885	8580876	327	EL 23522	edge of two small gullys	mildly castellated		medium grained sandstone		40	45	
EA030154	338184	8581189	362	EL 23522	edge of large valley	slabby outcrop flat dipping	Marlgowa Sandstone	fine to medium grained sandstone		73	57	
EA030155	339931	8581004	357	EL 23522	edge of well vegetated plain	low rubbly outcrop	Marlgowa Sandstone	fine to medium grained sandstone		50	57	
EA030156	341913	8580976	335	EL 23522	top of plateau	blocky outcrop	Marlgowa Sandstone	medium grained sandstone		60	50	
EA030157	343980	8581092	353	EL 23522	subcrop on plateau	flat lying subcrop	Marlgowa Sandstone	medium grained sandstone	bedding	42	50	
EA030158	345850	8580954	359	EL 23522	edge of flat area	boulder outcrop	Marlgowa Sandstone	medium grained sandstone	bedding	45	61	
EA030159	324304	8582926	252	EL 23522	top of large ridge	castellated		fine to medium grained sandstone	ripples	50	45	
EA030160	325890	8582959	253	EL 23522	edge of lineament	blocky boulder outcrop		medium grained sandstone		50	45	
EA030161	328268	8583213	260	EL 23522	inside gully	laminated outcrop		medium grained sandstone	ripples	35	40	
EA030162	330232	8583100	223	EL 23522	inside gully	blocky and laminated outcrop		fine to medium grained sandstone		50	45	
EA030163	332198	8582880	287	EL 23522	edge of small gully	blocky outcrop		medium grained sandstone		40	40	
EA030164	333627	8582822	248	EL 23522	edge of large lineament			medium to coarse grained sandstone		32	30	
EA030165	335896	8583021	303	EL 23522	side of small ridge	small boulder outcrop		medium grained sandstone		50	46	
EA030166	338023	8583108	367	EL 23522	open flat area	boulder outcrop		medium to coarse grained sandstone		37	42	
EA030167	339984	8583082	350	EL 23522	flat surrounds	boulders		fine to medium grained sandstone		45	44	
EA030168	341949	8582876	352	EL 23522	moderately castellated terrane	castellated outcrop		medium grained sandstone		40	50	
EA030169	344182	8582818	352	EL 23522	open grassy area	subcropping boulders		fine to medium grained sandstone		40	60	
EA030170	346107	8583186	348	EL 23522	flat scrubby area	boulder outcrop		fine to medium grained sandstone		40	42	

AGD66 AMG Zone 53

Station ID	UTM E	UTM N	Z	EL Name	Geomorphology	Outcrop Description	Formation	Lithology	Sed. structure	Cps (max)	Cps (bkgd)	Comment
EA030171	323743	8585321	233	EL 23522	in gully	subcrop		fine to medium grained sandstone		40	45	
EA030172	325938	8585345	232	EL 23522	edge of large lineament	castellated outcrop		medium to coarse grained sandstone		40	40	
EA030173	328132	8585093	326	EL 23522	edge of gully	flat outcrop		fine to medium grained sandstone		26	35	
EA030174	329773	8585103	316	EL 23522	flat area	flat laminated outcrop		medium grained sandstone	ripples	45	50	
EA030175	332119	8585389	305	EL 23522	on small ridge	ridge outcrop		medium grained sandstone		45	45	
EA030176	333567	8585096	289	EL 23522	edge of gully	flat lying outcrop		fine to medium grained sandstone		45	50	
EA030177	336089	8585207	288	EL 23522	edge of two large lineaments	laminated outcrop		fine grained sandstone	ripples	40	40	
EA030178	337832	8585208	306	EL 23522	flat open area	subcrop		medium grained sandstone		40	50	
EA030179	339774	8585056	344	EL 23522	flat area	low blocky outcrop		fine to medium grained sandstone		44	50	
EA030180	341879	8584896	340	EL 23522	well vegetated area	flat lying outcrop		fine to medium grained sandstone		56	45	
EA030181	343693	8584900	370	EL 23522	shrubby plain	boulder outcrop		fine to medium grained sandstone		55	50	
EA030182	345792	8584835	340	EL 23522	edge of gully	boulder outcrop		medium to coarse grained sandstone		50	45	
EA030183	323953	8586854	210	EL 23522	edge of lineament	large boulder outcrop		medium to coarse grained sandstone		50	70	
EA030184	326049	8587057	239	EL 23522	edge of large lineament	small boulder outcrop		medium grained sandstone		49	50	
EA030185	328169	8587052	341	EL 23522	edge of gully	blocky outcrop		fine grained sandstone		38	40	
EA030186	330037	8587182	358	EL 23522	edge of ridge	flat tabular outcrop		medium to coarse grained sandstone	bedding	54	40	
EA030187	331846	8587237	351	EL 23522	on top of plateau	large boulder outcrop		medium to coarse grained sandstone		35	40	
EA030188	333979	8586952	285	EL 23522	well vegetated area	subcrop		medium to coarse grained sandstone		35	40	
EA030189	336058	8587042	307	EL 23522	flat area	tabular pebbly outcrop		medium to coarse grained sandstone		45	50	
EA030190	337994	8587129	322	EL 23522	edge of flat plain	terraced blocky outcrop		medium grained sandstone		50	90	
EA030191	339887	8586910	356	EL 23522	edge of gully	freestanding boulders		medium to coarse grained sandstone		52	50	
EA030192	342217	8587069	374	EL 23522	edge of gully	boulder outcrop		medium grained sandstone		45	50	
EA030193	343992	8587175	363	EL 23522	very flat area	limited subcrop		medium grained sandstone		37	45	
EA030194	346351	8587297	361	EL 23522	on top of ridge	castellated outcrop		medium to coarse grained sandstone		43	45	
EA030195	323929	8589009	221	EL 23522	on large lineament	scarp edge		medium to coarse grained sandstone		65	60	
EA030196	326125	8588892	299	EL 23522	top of plateau	isolated boulder outcrop		medium to coarse grained sandstone		60	50	
EA030197	328129	8588838	331	EL 23522	top of plateau	low blocky boulder outcrop		medium grained sandstone		41	40	
EA030198	330152	8588904	369	EL 23522	edge of plateau	low lying outcrop		medium to coarse grained sandstone		42	45	
EA030199	331980	8589093	370	EL 23522	scrubby area	undulating tabular outcrop		medium grained sandstone		42	45	
EA030200	334170	8588946	321	EL 23522	edge of gully			medium grained sandstone		40	45	
EA030201	335951	8589037	353	EL 23522	flat plain	small boulder outcrop		medium grained sandstone		35	40	
EA030202	337820	8589117	326	EL 23522	edge of wide shallow gully	flat bedded outcrop		medium grained sandstone		35	40	
EA030203	339928	8588830	347	EL 23522	spinifex grassland	flat subcrop		medium to coarse grained sandstone		50	80	
EA030204	342153	8589282	322	EL 23522	on plateau	sparse low lying outcrop		medium grained sandstone		45	55	
EA030205	343956	8589165	325	EL 23522	flat lying area	flat subcrop		medium grained sandstone		52	40	
EA030206	346108	8588845	374	EL 23522	well vegetated area	small boulder outcrop		medium grained sandstone		41	40	
EA030207	334372	8589398	329	EL 23522	ferruginous ridge	ridge outcrop		medium to coarse grained sandstone	fold joints	600		
EA030208	342529	8589416	330	EL 23522	ferruginous sandstone ridge	ridge outcrop		fine to medium grained sandstone		380	100	
EA030209	338009	8586139	327	EL 23522	open well vegetated area			medium to coarse grained sandstone		280	180	
EA030210	332213	8586112	297	EL 23522	edge of sandstone gully	laterite boulder		laterite		330	100	
EA030211	329407	8581257	215	EL 23522	between sandstone ridges	laterite boulder		laterite		490	150	
EA030212	329860	8582150	231	EL 23522	edge of grassy plain between ridges	laterite crust		medium grained sandstone		100	120	
EA030213	329318	8583144	256	EL 23522	flat spinifex area	scattered material		laterite		240	160	
EA030214	327098	8585310	268	EL 23522	sloping open plain	lateritic outcrop		laterite		190	100	
EA030215	326964	8584194	195	EL 23522	black soil swamp	black soil		black soil		100	100	
EA030216	325837	8579350	304	EL 23522	spinifex plain	laterite rubble		laterite		120	100	
EA030217	331423	8580093	222	EL 23522				laterite		140	220	
EA030219	343050	8567092	319	EL 23522	flat open grassy plain	scattered sandstone boulders		medium to coarse grained sandstone		130	190	
EA030220	338940	8573832	218	EL 23522	scree slope on edge of gully	scree slope and boulders		coarse grained granular sandstone		150	70	
EA030221	331214	8574903	244	EL 23522	flat open spinifex plain with shrubs	lateritic float		medium grained sandstone + laterite		120	80	