





EL 6-2009 Bell Bay: 2010 Outcrop Mapping Traverses														
*(Datum GDA94 Zone 55 AGD)														
GPS sta.	Easting*	Northing*	Main Joint Strike	Dip	Dip Direction	Orthogonal Joint Strike	Dip	Dip Direction	Bedding	Dip	Dip Direction	RQD	Outcrop Length (m)	Other info
ddh138	493065	5447580												BB10-12&13
ddh139	493409	5447447												BB10-14-15
140	492858	5448039												potential water supply
141	493125	5447027												
142	493332	5445945												creek potential water supply
143	493689	5446275												dam- potential water supply
144	491787	5446491												dam- water pump site
145	491717	5446900	134	90		230	90							Port Authority-Rio Tinto pit
146	491657	5446878												Port Authority-Rio Tinto pit
147	491638	5446902												Port Authority-Rio Tinto pit
148	491638	5446903	245	90		145	70	E						Port Authority-Rio Tinto pit
149	491713	5446895	290	75	N	005	80	E						Port Authority-Rio Tinto pit
150	491713	5446896	300	55	N	230	90							RQD sheet station
150	491713	5446896				175	80	E						RQD sheet station
151	491686	5446891	079	80	N	164	80	E						RQD sheet station
152	491660	5446860	239	70	n	324	55	N						
153	491650	5446886	279	78	N	354	80	E						
154	491623	5446925	275	70	N	005	78	W						
155	491635	5446952	068	90		159	90							
156	491652	5446964	325	80	E	74	090							
157	491805	5447103	000	90										
158	491788	5447106	320	90		040	80	N						
159	491854	5447116	120	75	N	025	75	S						
159	491854	5447116	010	80	W	295	90							
160	492141	5447185	175	90		095	80	N					100	
161	492515	5447067	125	80	N	040	75	E					100	
162	492541	5447072	120	85	N	020	90						100	
163	492604	5447142	115	70	N	005	85	W					95	
164	492680	5447200	193	75	E	100	80	E						
221	490468	5446500	080	70	N	360	90							
222	490372	5446493							280	15	SW			bedding? 280/15SW
223	490076	5446683												basalt
224	493944	5448343												Jason King's Home
225	494054	5448283												spring near sst-dolerite contact
226	493972	5448284							280	15	SW			bedding? 280/15SW
226	493972	5448284							220	10	E			
226	493972	5448284							085	15	S			
226	493972	5448284							250	18	S			
227	493960	5448212	126	75	N	200	75	W				100	2	
228	494084	5448260							220	10	SE			approx loc. Of contact

EL 6-2009 Bell Bay: 2010 Outcrop Mapping Traverses														
*(Datum GDA94 Zone 55 AGD)														
GPS sta.	Eastings*	Northing*	Main Joint Strike	Dip	Dip Direction	Orthogonal Joint Strike	Dip	Dip Direction	Bedding	Dip	Dip Direction	RQD	Outcrop Length (m)	Other info
229	494051	5448264							065	8	S			Sst-dol contact very close; sprg
235	494641	5448648												Clinton house; flat lying mudst
236	493797	5448506							120	15	W			Geale house; sst beds
237	494117	5449078							110	40	S			mudstone on road
239	492612	5446162												Ben Lomond water tanks
240	492586	5446263	150	80	E	240	90					100	5	
241	492613	5446281												Ben Lomond survey point
242	492617	5446312	185	80	W	040	90					100	3	
243	492651	5446371	060	85	N	150	90					100	20	
244	492663	5446459	090	90		010	90					100	10	
245	492646	5446542												More plag than normal
246	492621	5446585												mottled fibrous appearance
247	492618	5446601	340	85	E	070	90					100	6	
248	492618	5446723	330	90								100	2	
249	492269	5447211	215	90		150	90					100	15	
250	492168	5447182	000	90		075	90					100	3	
250	492168	5447182	250	80	N									
251	492149	5447235	250	90		340	85	E						
252	492129	5447247	050	90		130	85	E				100	20	
253	492105	5447276	060	90		315	90					100	40	
254	492111	5447299	160	90		240	80	S				100	40	
255	492043	5447421	225	90		270	85	N						
256	492010	5447440	295	90								100	10	
257	491987	5447454	240	90		330	90					100	20	
258	491956	5447496	345	90		290	90							
259	491920	5447512	030	90		090	90							
260	491999	5447598	015	85	E	280	80	N				100	3	
261	492525	5446936	295	65	N	115	90					100	5	
262	491295	5448410												Subcrop dolerite
263	491295	5448385	285	80	E	205	85	S				100	15	
264	491322	5448362	080	85	N	175	90					100		
265	491357	5448309	220	85	N	140	85	E				100	5	
266	491376	5448304	050	70	N							100	20	
267	491418	5448274	070	80	N	160	90					100	25	
268	491447	5448231	260	80	N	350	90					100	20	
269	491476	5448199	280	85	N	190	90					100	10	
270	491493	5448176	260	85	N	170	90					100	10	
271	491509	5448153	080	80	N	000	90					100	30	
272	491530	5448107	110	70	E							100	10	
273	491604	5448058	175	90		230	90					100	10	

<b>EL 6-2009 Bell Bay: 2010 Outcrop Mapping Traverses</b>														
*(Datum GDA94 Zone 55 AGD)														
GPS sta.	Eastings*	Northing*	Main Joint Strike	Dip	Dip Direction	Orthogonal Joint Strike	Dip	Dip Direction	Bedding	Dip	Dip Direction	RQD	Outcrop Length (m)	Other info
274	491640	5448006	160	80	E	080	90					100	10	
275	491688	5448005	180	85	E							100	10	
276	491728	5447961	160	85	E	260	90					95	25	
277	491778	5447940	160	80	E	060	90					95	25	
278	491860	5447901	300	90		070	90					100	5	
279	491900	5447894	170	85	E							100	3	
280	492518	5448124												start walking ck. For sst.
281	492543	5448018												sandy soil with burrows
282	492585	5447942												dolerite float
283	492444	5447885												sandy soil & sst. Float
284	492424	5447879												contact metamorph. Sst
285	493680	5446230	150	80	E	240	070	S				100	3	
286	493747	5446383	285	85	N	035	80	W				100	0.5	
287	493655	5446479	070	90		360	80	E				100	20	
288	493542	5446468	295	85	N	015	75	E				100	0.5	
289	493516	5446466	330	90		265	85	N				100	0.5	
290	493487	5446441	140	85	E	060	90					100	30	
291	493417	5446439	325	80	W	150	90					100	3	
292	493357	5446421	330	85	E	060	85	E				100	3	
293	493302	5446387	105	90		030	80	W				100	3	
294	491690	5447165	025	90		320	90					100	2	
295	491781	5447176	005	85	E	085	90					100	3	
296	491801	5447200	115	85	N	035	90					100	3	
297	491821	5447288	350	80	E	070	85	N				100	5	
298	491824	5447338	005	90		110	80	W				100	4	
299	491854	5447356	345	80	E	065	85	S				100	3	
300	491867	5447380	350	80	E	085	90					100	2	
301	491872	5447401	025	90		305	85	S				100	10	
302	491896	5447421	80	85	S	175	80	E				100	10	
303	491929	5447450	075	75	N	355	75	E				100	10	

<b>Bell Bay Dolerite Outcrop Mapping -Register of Joints and RQD</b>									
*(Datum GDA94 Zone 55 AGD)									
<b>Easting*</b>	<b>Northing*</b>	<b>Main Joint Strike</b>	<b>Dip</b>	<b>Dip Direction</b>	<b>Orthogonal Joint Strike</b>	<b>Dip</b>	<b>Dip Direction</b>	<b>RQD</b>	<b>Outcrop Length (m)</b>
492716	5447269	350	65	E	265	60	N	100	4
492773	5447260	338	80	E	245	65	N	100	4
492798	5447275	350	75	E	250	65	N	95	6
492847	5447253	280	75	N	020	90		90	3
492892	5447250	310	80	N	030	80	S	90	5
492935	5447264	345	75	E	255	75	N	90	5
492963	5447286	005	90		260	75	N	100	5
492911	5447348	200	90		295	75	N	95	3
492880	5447376	235	90		325	75	N	100	3
492826	5447422	208	90		305	80	N	100	3
492766	5447464	340	75	E	240	90		100	10
492753	5447500	325	90		235	90		100	4
492746	5447548	305	75	N	015	60	E	100	5
492729	5447582	010	90		085	80	S	100	10
492722	5447631	215	90		305	80	N	100	10
492687	5447657	270	75	N	na			100	8
492666	5447692	340	80	E	065	65	S	100	6
492647	5447738	350	75	E	240	75	N	100	5
492713	5447480	312	75	N	045	50	S	95	5
492702	5447216	003	75	E	100	85	S	100	3
492748	5446912	353	75	E	065	65	S	100	5
492732	5446935	260	80	N	335	65	E	100	3
492720	5446982	333	65	E	075	80	S	100	4
492709	5447014	326	65	E	045	75	S	100	6
492710	5447033	320	80	E	040	85	S	100	10
492684	5447075	260	90		360	80	E	100	6
492696	5447130	035	75	S	100	70	N	100	6
492676	5447228	015	70	E	270	70	N	100	4
492646	5447264	020	85	E	290	85	N	100	6
492618	5447269	340	75	E	100	90		100	10
492586	5447336	010	75	E	100	75	S	100	10
492588	5447391	005	70	E	275	75	N	95	4
492566	5447441	005	75	E	100	80	S	100	3
492541	5447503	010	70	E	275	80	N	90	5
492509	5447530	025	80	E	300	80	N	100	8

<b>Bell Bay Dolerite Outcrop Mapping -Register of Joints and RQD</b>										
			*(Datum GDA94 Zone 55 AGD)							
<b>Easting*</b>	<b>Northing*</b>	<b>Main Joint Strike</b>	<b>Dip</b>	<b>Dip Direction</b>	<b>Orthogonal Joint Strike</b>	<b>Dip</b>	<b>Dip Direction</b>	<b>RQD</b>	<b>Outcrop Length (m)</b>	
492466	5447553	220	90		300	90		90	10	
492432	5447545	080	90		360	55	E	100	6	
492364	5447513	305	70	N	180	80	W	100	8	
492286	5447488	045	90		330	85	E	100	5	
492654	5447772	175	85	W	285	90		95	2	
492991	5447640	355	70	E	095	60	S	95	2	
493080	5447624	180	90		268	80	N	100	3	
493123	5447592	235	85	N	310	80	N	100	5	
493134	5447559	274	77	N	180	90		100	4	
493139	5447529	095	90		190	80	E	100	6	
493142	5447466	305	80	N	200	80	W	100	10	
493170	5447507	280	78	N	340	75	E	95	5	
493217	5447532	270	85	N	005	65	E	100	5	
493201	5447583	205	90		310	85	N	100	4	
493472	5447438	125	90		035	90		100	6	
493502	5447449	210	90		310	80	N	100	6	
493560	5447430	160	90		240	75	N	100	2	
493620	5447436	310	85	N	185	85	W	100	2	
493677	5447433	270	85	N	195	85	W	100	8	
494044	5447656	005	80	E	275	65	N	100	15	
494034	5447728	075	90		306	70	N	100	5	
494001	5447783	235	80	W	na			100	3	
493953	5447854	320	75	E	051	70	S	100	15	
493897	5447836	135	90		210	80	W	100	10	
493725	5447720	090	90		175	80	W	100	8	
493671	5447683	355	90		090	90		100	10	
493655	5447754	285	85	N	185	75	W	100	10	
493636	5447816	055	85	S	105	90		100	15	
493608	5447849	265	80	N	190	90		100	10	
493564	5447910	355	80	E	080	80	S	100	10	
493502	5447914	335	85	E	055	90		100	6	
493422	5447860	320	90		030	90		100	5	
493344	5447826	010	90		310	75	N	100	2	
493314	5447796	330	75	E	220	80	W	100	10	
493200	5447731	245	90		340	75	E	100	2	

<b>Bell Bay Dolerite Outcrop Mapping -Register of Joints and RQD</b>									
*(Datum GDA94 Zone 55 AGD)									
<b>Easting*</b>	<b>Northing*</b>	<b>Main Joint Strike</b>	<b>Dip</b>	<b>Dip Direction</b>	<b>Orthogonal Joint Strike</b>	<b>Dip</b>	<b>Dip Direction</b>	<b>RQD</b>	<b>Outcrop Length (m)</b>
493148	5447710	325	70	E	235	65	W	90	2
493102	5447687	265	75	N	175	65	W	90	5
493039	5447701	045	90		160	80	W	100	10
492998	5447697	320	75	E	260	85	N	100	8
492949	5447712	010	75	E	280	75	N	100	10
492878	5447743	030	90		140	85	W	100	4
491892	5447903	010	75	E	092	70	S	100	3
491864	5447901	110	90		025	90		100	2
491816	5447935	145	80	W	230	60	N	100	4
491782	5447946	330	90		055	85	S	100	5
491755	5447943	045	90		140	90		100	5
491723	5447957	015	85	E	255	75	N	100	4
491664	5447988	300	75	N	210	85	W	100	5
492802	5447889	120	90		015	80	E	100	5
492830	5447890	075	85	S	155	60	E	100	10
492864	5447891	025	85	E	290	70	N	100	4
492898	5447896	175	90		100	85	S	100	5
492965	5447894	070	80	S	355	85	E	100	5
492981	5447888	060	90		195	90		100	6
493037	5447844	220	90		325	75	N	100	3
493056	5447796	035	85	E	010	60	E	100	4
493075	5447753	265	80	N	175	75	W	100	6
493092	5447718	255	80	N	025	75	E	100	6
492676	5447752	340	80	E	085	80	S	100	6
492644	5447787	355	80	E	300	75	N	100	4
492594	5447828	270	80	N	005	90		100	2
492552	5447235	350	70	E	085	72	S	100	8
492340	5447914	315	70	N	030	85	E	100	3
492277	5447928	018	90		105	75	S	100	6
492179	5447940	295	80	N	230	80	W	95	3
492118	5447934	015	85	E	090	90		100	2
492087	5447928	090	75	S	170	90		100	4
492640	5446640	010	80	E	105	85	S	100	3
492586	5446643	005	85	E	280	90		100	5
492578	5446675	015	85	E	120	90		100	4

<b>Bell Bay Dolerite Outcrop Mapping -Register of Joints and RQD</b>										
			*(Datum GDA94 Zone 55 AGD)							
<b>Easting*</b>	<b>Northing*</b>	<b>Main Joint Strike</b>	<b>Dip</b>	<b>Dip Direction</b>	<b>Orthogonal Joint Strike</b>	<b>Dip</b>	<b>Dip Direction</b>	<b>RQD</b>	<b>Outcrop Length (m)</b>	
492546	5446725	005	85	E	082	90		100	10	
492529	5446833	360	75	E	030	75	S	100	2	
429512	5446854	340	80	E	255	90		100	2	
429475	5446896	350	80	E	260	85	N	100	2	
492412	5446951	300	75	N	195	80	W	100	4	
492377	5446971	280	80	N	330	80	E	100	3	
492239	5447168	160	85	W	230	85	N	100	5	
492248	5447116	280	85	N	360	75	E	100	5	
492250	5447079	295	85	N	025	90		100	2	
492284	5447044	270	85	N	360	80	E	100	3	
492389	5447058	340	80	E	na			100	2	
491951	5447781	215	90		160	80	W	100	5	
491950	5447764	245	90		350	80	E	100	10	
491905	5447715	295	85	N	020	85	E	100	10	
491910	5447679	225	90		305	90		90	8	
491887	5447639	225	90		120	90		100	10	
491888	5447601	185	90		285	90		100	6	
491908	5447564	320	90		220	80	N	100	6	
492387	5447228	285	80	N	025	60	S	100	3	
492380	5447252	360	60	E	265	60	N	100	5	
492349	5447380	065	90		320	55	E	100	3	
492336	5447444	360	75	E	265	65	N	100	5	
492271	5447534	300	60	N	200	80	W	100	4	
492239	5447584	205	90		280	80	N	100	4	
492222	5447639	275	60	N	005	65	E	100	2	
492248	5447693	005	90		080	90		100	5	
492271	5447732	010	85	E	185	90		100	5	





NORTH EXPLORATION LICENCE - Bell Bay Dolerite Outcrop Mapping -Register of Joints and RQD															
*(Datum GDA94 Zone 55 AGD)															
GPS sta.	Easting*	Northing*	Main Joint Strike	Dip	Dip Direction	Orthogonal Joint Strike	Dip	Dip Direction	Bedding	Dip	Dip Direction	RQD	Outcrop Length (m)	Other info	
ddh139	493409	5447447												BB10-14-15	
140	492858	5448039												potential water supply	
141	493125	5447027													
142	493332	5445945												creek potential water supply	
143	493689	5446275												dam- potential water supply	
144	491787	5446491												dam- water pump site	
145	491717	5446900	134	90		230	90							Port Authority-Rio Tinto pit	
146	491657	5446878												Port Authority-Rio Tinto pit	
147	491638	5446902												Port Authority-Rio Tinto pit	
148	491638	5446903	245	90		145	70	E						Port Authority-Rio Tinto pit	
149	491713	5446895	290	75	N	005	80	E						Port Authority-Rio Tinto pit	
150	491713	5446896	300	55	N	230	90							RQD sheet station	
						175	80	E						RQD sheet station	
151	491686	5446891	079	80	N	164	80	E						RQD sheet station	
152	491660	5446860	239	70	n	324	55	N							
153	491650	5446886	279	78	N	354	80	E							
154	491623	5446925	275	70	N	005	78	W							
155	491635	5446952	068	90		159	90								
156	491652	5446964	325	80	E	74	090								
157	491805	5447103	000	90											
158	491788	5447106	320	90		040	80	N							
159	491854	5447116	120	75	N	025	75	S							
			010	80	W	295	90								
160	492141	5447185	175	90		095	80	N				100			
161	492515	5447067	125	80	N	040	75	E					100		
162	492541	5447072	120	85	N	020	90						100		
163	492604	5447142	115	70	N	005	85	W				95			
164	492680	5447200	193	75	E	100	80	E							
221	490468	5446500	080	70	N	360	90								
222	490372	5446493							280	15	SW			bedding? 280/15SW	
223	490076	5446683												basalt	
224	493944	5448343												Jason King's Home	
225	494054	5448283												spring near sst-dolerite contact	
226	493972	5448284							280	15	SW			bedding? 280/15SW	
									220	10	E				
									085	15	S				
									250	18	S				
227	493960	5448212	126	75	N	200	75	W				100	2		
228	494084	5448260							220	10	SE			approx loc. Of contact	
229	494051	5448264							065	8	S			Sst-dol contact very close; sprg	

<b>NORTH EXPLORATION LICENCE - Bell Bay Dolerite Outcrop Mapping -Register of Joints and RQD</b>															
*(Datum GDA94 Zone 55 AGD)															
GPS sta.	Easting*	Northing*	Main Joint Strike	Dip	Dip Direction	Orthogonal Joint Strike	Dip	Dip Direction	Bedding	Dip	Dip Direction	RQD	Outcrop Length (m)	Other info	
235	494641	5448648													Clinton house; flat lying mudst
236	493797	5448506							120	15	W				Geale house; sst beds
237	494117	5449078							110	40	S				mudstone on road
239	492612	5446162													Ben Lomond water tanks
240	492586	5446263	150	80	E	240	90					100	5		
241	492613	5446281													Ben Lomond survey point
242	492617	5446312	185	80	W	040	90					100	3		
243	492651	5446371	060	85	N	150	90					100	20		
244	492663	5446459	090	90		010	90					100	10		
245	492646	5446542													More plag than normal
246	492621	5446585													mottled fibrous appearance
247	492618	5446601	340	85	E	070	90					100	6		
248	492618	5446723	330	90								100	2		
249	492269	5447211	215	90		150	90					100	15		
250	492168	5447182	000	90		075	90					100	3		
			250	80	N										
251	492149	5447235	250	90		340	85	E							
252	492129	5447247	050	90		130	85	E				100	20		
253	492105	5447276	060	90		315	90					100	40		
254	492111	5447299	160	90		240	80	S				100	40		
255	492043	5447421	225	90		270	85	N							
256	492010	5447440	295	90								100	10		
257	491987	5447454	240	90		330	90					100	20		
258	491956	5447496	345	90		290	90								
259	491920	5447512	030	90		090	90								
260	491999	5447598	015	85	E	280	80	N				100	3		
261	492525	5446936	295	65	N	115	90					100	5		
262	491295	5448410													Subcrop dolerite
263	491295	5448385	285	80	E	205	85	S				100	15		
264	491322	5448362	080	85	N	175	90					100			
265	491357	5448309	220	85	N	140	85	E				100	5		
266	491376	5448304	050	70	N							100	20		
267	491418	5448274	070	80	N	160	90					100	25		
268	491447	5448231	260	80	N	350	90					100	20		
269	491476	5448199	280	85	N	190	90					100	10		
270	491493	5448176	260	85	N	170	90					100	10		
271	491509	5448153	080	80	N	000	90					100	30		
272	491530	5448107	110	70	E							100	10		
273	491604	5448058	175	90		230	90					100	10		
274	491640	5448006	160	80	E	080	90					100	10		
275	491688	5448005	180	85	E							100	10		

<b>NORTH EXPLORATION LICENCE - Bell Bay Dolerite Outcrop Mapping -Register of Joints and RQD</b>														
*(Datum GDA94 Zone 55 AGD)														
GPS sta.	Easting*	Northing*	Main Joint Strike	Dip	Dip Direction	Orthogonal Joint Strike	Dip	Dip Direction	Bedding	Dip	Dip Direction	RQD	Outcrop Length (m)	Other info
276	491728	5447961	160	85	E	260	90					95	25	
277	491778	5447940	160	80	E	060	90					95	25	
278	491860	5447901	300	90		070	90					100	5	
279	491900	5447894	170	85	E							100	3	
280	492518	5448124												start walking ck. For sst.
281	492543	5448018												sandy soil with burrows
282	492585	5447942												dolerite float
283	492444	5447885												sandy soil & sst. Float
284	492424	5447879												contact metamorph. Sst
285	493680	5446230	150	80	E	240	070	S				100	3	
286	493747	5446383	285	85	N	035	80	W				100	0.5	
287	493655	5446479	070	90		360	80	E				100	20	
288	493542	5446468	295	85	N	015	75	E				100	0.5	
289	493516	5446466	330	90		265	85	N				100	0.5	
290	493487	5446441	140	85	E	060	90					100	30	
291	493417	5446439	325	80	W	150	90					100	3	
292	493357	5446421	330	85	E	060	85	E				100	3	
293	493302	5446387	105	90		030	80	W				100	3	
294	491690	5447165	025	90		320	90					100	2	
295	491781	5447176	005	85	E	085	90					100	3	
296	491801	5447200	115	85	N	035	90					100	3	
297	491821	5447288	350	80	E	070	85	N				100	5	
298	491824	5447338	005	90		110	80	W				100	4	
299	491854	5447356	345	80	E	065	85	S				100	3	
300	491867	5447380	350	80	E	085	90					100	2	
301	491872	5447401	025	90		305	85	S				100	10	
302	491896	5447421	80	85	S	175	80	E				100	10	
303	491929	5447450	075	75	N	355	75	E				100	10	