

Cameco Australia Pty Ltd

Manyalluluk Project EL9452 - Structural Measurements

Sample Number	Type	Element	Inclination	Dip_Direction	Strike	Comments
ML050201	Planar	Fracture / fracturing	-75	220		
ML050204	Planar	Breccia fracturing	-85	208		possible riedel primes
ML050204	Planar	Breccia	-85	62		
ML050204	Planar	Joint	-60	262		
ML050205	Planar	Qtz vein	-70	150		possible association of radiometrics along trend of quartz-hematite veining
ML050206	Planar	Fracture / fracturing	-85	325		anomalous radiometrics coincident with this fracture trend in the immediate vicinity
ML050207	Planar	Qtz vein	-85	190		a subhorizontal similar trending quartz hematite veining is also present
ML050208	Planar	Fracture / fracturing	-70	155		
ML050208	Planar	Joint	-82	260		
ML050208	Planar	Fracture / fracturing	-50	210		
ML050210	Planar	Qtz vein	-75	345		
ML050210	Planar	Fracture / fracturing	-85	68		
ML050210	Planar	Bedding	-8	144		
ML050210	Planar	Qtz vein	-85	352		
ML050211	Planar	Joint	-89	358		
ML050211	Planar	Bedding	-10	132		
ML050211	Planar	Joint	-82	258		
ML050213	Planar	Bedding	-2	250		
ML050213	Planar	Crossbedding	-18	210		
ML050214	Planar	Bedding	-10	144		
ML050216	Planar	Joint	-82	250		
ML050216	Planar	Qtz vein	-80	346		
ML050223	Planar	Crossbedding	-25	190		
ML050223	Planar	Bedding	-15	152		
ML050224	Planar	Bedding	-12	134		
ML050226	Planar	Qtz vein	-87	125		
ML050226	Planar	Joint	-85	320		
ML050229	Planar	Fracture / fracturing	-85	30		
ML050229	Planar	Fracture / fracturing	-85	110		
ML050230	Planar	Fracture / fracturing	-85	110		
ML050232	Planar	Bedding	-50	224		
ML050233	Planar	Bedding	-20	154		
ML050236	Planar	Bedding	-20	140		
ML050237	Planar	Bedding	-35	320		flow top quartz breccia
ML050238	Planar	Breccia	-82	110		
ML050239	Planar	Breccia	-82	304		
ML050239	Planar	Fault fracturing	-83	192		fractures cross cutting breccia trend
ML050239	Planar	Fault fracturing	-65	325		possible riedel shears
ML050240	Planar	Joint	-55	170		
ML050240	Planar	Joint	-90	258		
ML050240	Planar	Joint	-60	120		
ML050240	Planar	Joint	-81	325		
ML050243	Planar	Fracture / fracturing				
ML050243	Planar	Fracture / fracturing				
ML050244	Planar	Fracture / fracturing	-75	154		
ML050244	Planar	Fracture / fracturing	-75	110		
ML050245	Planar	Fracture / fracturing	-70	34		
ML050245	Planar	Fracture / fracturing	-80	254		
ML050245	Planar	Fracture / fracturing	-80	328		
ML050246	Planar	Fracture / fracturing	-75	190		
ML050246	Planar	Fracture / fracturing	-88	106		
ML050247	Planar	Fracture / fracturing	-85	276		
ML050247	Planar	Fracture / fracturing	-65	196		
ML050251	Planar	Crossbedding	-17	120		
ML050251	Planar	Bedding	-1	280		
ML050252	Planar	Crossbedding	-15	120		
ML050252	Planar	Bedding	-2	5		
ML050253	Planar	Joint	-85	340		
ML050253	Planar	Joint	-85	240		//to gorge
ML050253	Planar	Bedding	-5	52		
ML050254	Planar	Bedding	-2	100		
ML050254	Planar	Joint	-89	210		
ML050254	Planar	Qtz vein	-89	310		
ML050255	Planar	DQZ Breccia	-85	72		
ML050255	Planar	DQZ Breccia	-85	86		
ML050255	Planar	Qtz vein	-75	68		
ML050256	Planar	Fracture / fracturing	-75	45		
ML050256	Planar	Fracture / fracturing	-85	305		
ML050256	Planar	Qtz vein	-85	240		
ML050256	Planar	Fracture / fracturing	-85	320		
ML050257	Planar	Joint	-80	315		
ML050257	Planar	Qtz vein	-80	50		
ML050257	Planar	Qtz vein	-75	305		
ML050257	Planar	Bedding	-20	80		
ML050258	Planar	Breccia	-82	80		
ML050258	Planar	Bedding	-30	80		sdst 5m to east
ML050259	Planar	Bedding	-1	170		
ML050262	Planar	Crossbedding	-20	118		
ML050262	Planar	Bedding	-1	140		
ML050264	Planar	Bedding	-20	205		
ML050270	Planar	Crossbedding	-26	98		
ML050270	Planar	Bedding	-10	126		

Manyalluluk Project EL9452 - Structural Measurements

Sample Number	Type	Element	Inclination	Dip_Direction	Strike	Comments
ML050270	Planar	Fracture / fracturing	-85	35		
ML050271	Planar	Bedding	-12	134		
ML050272	Planar	Crossbedding	-28	192		
ML050272	Planar	Breccia	-84	162		
ML050274	Planar	Bedding	-15	118		
ML050274	Planar	Qtz vein	-85	160		
ML050274	Planar	Qtz vein	-89	120		
ML050274	Planar	Joint	-75	240		
ML050276	Planar	Bedding	-18	105		
ML050276	Planar	Joint	-89	240		
ML050276	Planar	Joint	-89	145		dominant jointing
ML050277	Planar	Fracture / fracturing	-85	350		
ML050277	Planar	Bedding	-18	142		
ML050279	Planar	Breccia	-89	90		
ML050282	Planar	Fracture / fracturing	-85	196		
ML050282	Planar	Closely spaced fractures	-89	80		
ML050284	Planar	Fracture / fracturing	-42	126		
ML050284	Planar	Fracture / fracturing	-65	302		
ML050285	Planar	Bedding	-20	148		
ML050285	Planar	Crossbedding	-15	290		
ML050287	Planar	Fracture / fracturing	-70	358		
ML050288	Planar	Bedding	-12	88		
ML050288	Planar	Joint	-80	244		
ML050289	Planar	Qtz vein	-85	176		
ML050289	Planar	Bedding	-18	100		
ML050290	Planar	Bedding	-15	115		
ML050292	Planar	Bedding	-15	135		
ML050293	Planar	Bedding	-8	84		
ML050293	Planar	Crossbedding	-25	92		
ML050295	Planar	Bedding	-12	126		
ML050295	Planar	Joint	-85	65		
ML050295	Planar	Joint	-84	310		
ML050295	Planar	Joint	-89	94		
ML050297	Planar	Bedding	-15	126		
ML050297	Planar	Crossbedding	-28	88		
ML050299	Planar	Bedding	-22	138		
ML050301	Planar	Bedding	-25	135		
ML050302	Planar	Bedding	-25	145		
ML050303	Planar	Crossbedding	-30	120		
ML050305	Planar	Crossbedding	-10	284		
ML050305	Planar	Bedding	-14	150		
ML050306	Planar	Joint	-85	145		
ML050306	Planar	Bedding	-20	135		
ML050307	Planar	Bedding	-10	112		
ML050307	Planar	Crossbedding	-20	176		
ML050308	Planar	Bedding	-10	70		
ML050312	Planar	Breccia	-72	86		
ML050314	Planar	S0 / S1 fabric	-70	89		mafic banding within griessen / shear? Fabric
ML050319	Planar	Bedding	-15	112		
ML050319	Planar	Breccia	-80	30		sinistral shear direction
ML050319	Planar	Breccia fracturing	-70	332		possible riedel primes
ML050320	Planar	Bedding	-10	142		
ML050321	Planar	Bedding	-12	130		
ML050321	Planar	Crossbedding	-40	114		
ML050322	Planar	Bedding	-15	125		
ML050322	Planar	Fracture / fracturing	-80	164		quartz fracturing
ML050323	Planar	Breccia fracturing	-87	270		
ML050323	Planar	Breccia	-90		335	
ML050324	Planar	Breccia	-85	225		
ML050326	Planar	Crossbedding	-30	196		
ML050326	Planar	Qtz vein	-90	96		
ML050326	Planar	Bedding	-7	168		
ML050327	Planar	Breccia	-85	153		
ML050328	Planar	Breccia	-85	62		
ML050328	Planar	Breccia fracturing	-75	345		
ML050329	Planar	Fracture / fracturing	-80	25		
ML050329	Planar	Fracture / fracturing	-75	315		
ML050330	Planar	Joint	-85	330		
ML050330	Planar	Joint	-89	45		
ML050330	Planar	Bedding	-13	130		
ML050331	Planar	Bedding	-5	160		
ML050332	Planar	Qtz vein	-80	150		parallel to gorge
ML050332	Planar	Qtz vein	-85	352		
ML050332	Planar	Crossbedding	-20	190		
ML050333	Planar	Bedding	-10	120		
ML050334	Planar	Bedding	-10	125		
ML050334	Planar	Joint	-89	220		
ML050334	Planar	Joint	-85	150		parallel to gorge
ML050335	Planar	Bedding	-12	140		
ML050336	Planar	Bedding	-10	140		
ML050339	Planar	Bedding	-15	125		
ML050339	Planar	Crossbedding	-25	180		
ML050343	Planar	Joint	-85	290		
ML050343	Planar	Joint	-80	10		
ML050343	Planar	Crossbedding	-25	135		
ML050343	Planar	Bedding	-12	120		

Manyalluluk Project EL9452 - Structural Measurements

Sample Number	Type	Element	Inclination	Dip_Direction	Strike	Comments
ML050343	Planar	Joint	-85	60		
ML050344	Planar	Bedding	-8	120		
ML050345	Planar	Bedding	-15	125		
ML050346	Planar	Joint	-80	290		parallel to valley
ML050348	Planar	Bedding	-20	128		
ML050349	Planar	Crossbedding	-30	170		
ML050350	Planar	Bedding	-15	140		
ML050351	Planar	Fracture / fracturing	-85	205		
ML050351	Planar	Fracture / fracturing	-85	305		
ML050352	Planar	Bedding	-10	115		
ML050353	Planar	Crossbedding	-23	140		
ML050353	Planar	Qtz vein	-85	345		
ML050353	Planar	Bedding	-10	70		
ML050354	Planar	Breccia	-75	145		
ML050354	Planar	Qtz vein	-75	145		
ML050355	Planar	Bedding	-8	50		
ML050355	Planar	Crossbedding	-30	210		
ML050355	Planar	Joint	-85	140		parallel to gorge
ML050356	Planar	Crossbedding	-22	198		
ML050356	Planar	Bedding	-8	160		
ML050357	Planar	Crossbedding	-20	165		
ML050357	Planar	Bedding	-7	152		
ML050358	Planar	Bedding	-12	110		
ML050359	Planar	Bedding	-8	125		
ML050360	Planar	Crossbedding	-25	190		
ML050360	Planar	Bedding	-8	135		
ML050361	Planar	Bedding	-10	120		
ML050361	Planar	Crossbedding	-25	195		
ML050362	Planar	Fracture / fracturing	-80	2		
ML050362	Planar	Fracture / fracturing	-89	240		
ML050362	Planar	Bedding	-8	122		
ML050362	Planar	Fracture / fracturing	-89	250		
ML050363	Planar	Crossbedding	-25	260		
ML050363	Planar	Crossbedding	-20	194		
ML050364	Planar	Bedding	-10	180		
ML050365	Planar	Crossbedding	-28	200		
ML050366	Planar	Fracture / fracturing	-85	220		
ML050366	Planar	Fracture / fracturing	-87	100		
ML050366	Planar	Fracture / fracturing	-85	235		
ML050366	Planar	Bedding	-11	190		
ML050367	Planar	Crossbedding	-15	170		
ML050368	Planar	Fracture / fracturing	-85	260		
ML050368	Planar	Joint	-60	175		
ML050368	Planar	Bedding	-12	50		
ML050369	Planar	Crossbedding	-16	200		
ML050370	Planar	Joint	-60	20		
ML050370	Planar	Joint	-55	20		
ML050370	Planar	Joint	-89	270		
ML050370	Planar	Joint	-64	140		
ML050371	Planar	Qtz vein	-89	90		dominant trend across area, parallel quartz veining and quartz shearing
ML050372	Planar	Breccia	-75	320		breccia parallel to prominent ridge; fault brecciation may define ridge
ML050375	Planar	Qtz vein	-80	240		
ML050375	Planar	Bedding	-20	128		
ML050375	Planar	Joint	-75	330		
ML050376	Planar	Qtz vein	-89	230		
ML050378	Planar	Qtz vein	-83	160		
ML050378	Planar	Fracture / fracturing	-83	160		
ML050378	Planar	Joint	-40	240		
ML050378	Planar	Joint	-85	235		
ML050379	Planar	Bedding	-18	112		
ML050379	Planar	Fracture / fracturing	-70	240		
ML050380	Planar	Bedding	-14	110		
ML050380	Planar	Qtz vein	-80	115		
ML050380	Planar	Joint	-75	45		
ML050381	Planar	Breccia	-75	115		
ML050381	Planar	Qtz vein	-85	110		
ML050382	Planar	Breccia	-75	115		
ML050383	Planar	Deformation bands	-85	10		siliceous deformation bands
ML050383	Planar	Bedding	-23	115		
ML050384	Planar	Bedding	-8	6		
ML050384	Planar	Crossbedding	-25	230		
ML050385	Planar	Bedding	-10	23		
ML050386	Planar	Qtz vein	-85	10		
ML050387	Planar	Bedding	-20	25		
ML050388	Planar	Joint	-85	265		
ML050388	Planar	Bedding	-3	153		
ML050388	Planar	Joint	-89	140		
ML050389	Planar	Crossbedding	-20	285		
ML050390	Planar	Crossbedding	-18	240		
ML050391	Planar	Crossbedding	-20	155		
ML050392	Planar	Crossbedding	-10	215		
ML050392	Planar	Bedding	-12	120		
ML050393	Planar	Bedding	-12	125		
ML050393	Planar	Crossbedding	-18	130		

Manyalluluk Project EL9452 - Structural Measurements

Sample Number	Type	Element	Inclination	Dip_Direction	Strike	Comments
ML050394	Planar	Crossbedding	-18	330		
ML050395	Planar	Crossbedding	-20	175		
ML050395	Planar	Bedding	-10	150		
ML050396	Planar	Bedding	-8	135		
ML050397	Planar	Qtz vein	-85	340		
ML050399	Planar	Bedding	-15	125		
ML050399	Planar	Crossbedding	-50	125		
ML050399	Planar	Qtz vein	-85	340		
ML050400	Planar	Crossbedding	-20	190		
ML050401	Planar	Qtz vein	-85	345		
ML050402	Planar	Crossbedding	-20	340		
ML050403	Planar	Crossbedding	-10	25		
ML050403	Planar	Bedding	-15	115		
ML050800	Planar	Fracture / fracturing			240	Anomalism related to fracture in this outcrop and others locally as well
ML050800	Planar	Fracture / fracturing			240	Anomalism related to fracture in this outcrop and others locally as well
ML050801	Planar	Fracture / fracturing			230	anomalism related to fracture
ML050801	Planar	Fracture / fracturing			230	anomalism related to fracture
ML050802	Planar	Qtz vein			280	number of quartz veins in this orientation
ML050802	Planar	Fracture / fracturing			240	Main set of fractures
ML050802	Planar	Fracture / fracturing			240	Main set of fractures
ML050802	Planar	Qtz vein			280	number of quartz veins in this orientation
ML050803	Planar	Fracture / fracturing			240	
ML050803	Planar	Fracture / fracturing			120	
ML050803	Planar	Fracture / fracturing			240	
ML050803	Planar	Fracture / fracturing			120	
ML050807	Planar	Fracture / fracturing			355	main set of anomalous fractures
ML050807	Planar	Fracture / fracturing			45	early set of fractures cut by main fracture set
ML050807	Planar	Fracture / fracturing			45	early set of fractures cut by main fracture set
ML050807	Planar	Fracture / fracturing			355	main set of anomalous fractures
ML050809	Planar	Bedding	-6	130		
ML050809	Planar	Bedding	-6	130		
ML050812	Planar					banding striking 290
ML050815	Planar	Bedding	-25	45		
ML050818	Planar	Bedding	-20	90		dipping away from granite
ML050820	Planar	Breccia			0	
ML050821	Planar	Breccia			0	
ML050822	Planar					Ridge striking 50 degrees
ML050824	Planar	Crossbedding	-18	160		
ML050824	Planar	Bedding				Local dip around 5-10 degrees, not as steep as x bedding
ML050828	Planar	Crossbedding	-15	240		
ML050831	Planar	Fracture / fracturing			40	Valley striking 65 degrees
ML050832	Planar					cross bedded sandstone beneath pebble bed
ML050835	Planar					lineament valley striking 210 degrees
ML050836	Planar					splayed lineament trending 90
ML050840	Planar	Bedding	-13	60		
ML050841	Planar	Fracture / fracturing			315	
ML050843	Planar	Fracture / fracturing	-70	340	250	main set plus qtz veins
ML050843	Planar	Fracture / fracturing			220	second set plus qtz veins
ML050843	Planar	Fracture / fracturing			270	3rd set of fractures
ML050845	Planar	Fracture / fracturing			240	
ML050845	Planar	Fracture / fracturing			290	
ML050849	Planar	Contact	-20	110		Unconformity