

Table 3. Neutron activation chemical analyses of rocks from the Paratoo mine. Elements analysed but found below detection limit: Ag, Cd, Hg, Ir, Se. Mo≤10.2ppm, W≤7.2 ppm, Te ≤ 6.2 ppm.

SAMP No.	LOCATION (SECTION)	DEPTH (cm)	Rock type	As ppm	Au ppb	Ba ppm	Br ppm	Ca wt%	Ce ppm	Co ppm	Cr ppm	Cs ppm	Eu ppm	Fe wt%	Hf ppm	Ho ppm	K wt%	La ppm	Lu ppm	Na wt%	Nd ppm	Rb ppm	Sb ppm	Sc ppm	Sm ppm	Ta ppm	Tb ppm	Th ppm	U ppm	Yb ppm	Zr wt%
MAX				847	391	9540	52.0	29.6	5880	1450	210	5.12	937	20.3	10.6	882	11.7	35100	270.00	2.52	18900	195	3.0	51.5	5510.0	2.6	731	30.8	33.6	1540.0	2.5
166001	Dolerite quarry	600	dolerite	2	<20	<200	5.60	6.77	10	38	210	<1.00	0.61	7.66	1.16	0.68	<0.50	4	0.24	2.40	7	<20	<0.20	30.40	1.9	<1.00	<0.50	<2.0	1.6	<0.05	
166002	Dolerite quarry	600	dolerite/vein	2	<20	<200	5.68	7.89	27	30	120	<1.00	1.00	6.70	3.37	0.86	1.15	11	0.31	2.28	16	<20	<0.20	25.20	3.4	1.05	0.61	18.90	<2.0	2.2	<0.05
166003	Dolerite quarry	500	dolerite	<1	<20	448	4.55	4.00	14	36	90	<1.00	<0.50	5.81	4.10	0.98	3.47	6	0.43	0.58	9	49	<0.20	17.80	2.6	<1.00	0.63	2.43	<2.0	2.8	<0.05
166004	outcrop			12	34	204	1.36	<0.50	20	1,050	182	<1.00	3.65	10.50	<0.50	1.67	<0.50	6	0.21	0.01	18	<20	0.74	2.90	8.1	1.21	1.53	<0.50	3.3	2.1	<0.05
166005	old pit	50	vein	242	179	<200	1.81	5.64	12	198	121	<1.00	<0.50	8.72	0.84	0.79	<0.50	5	0.30	0.76	7	<20	<0.20	11.00	1.9	<1.00	<0.50	3.51	9.9	2.1	<0.05
166006	old shaft (NOZ?)	?	dolomitic sltst	96	<30	1,060	<1.00	<0.50	120	297	178	1.00	5.69	6.65	6.03	15.80	6.20	79	9.93	0.11	76	124	0.39	12.50	22.6	<1.00	7.41	15.80	9.2	58.4	<0.05
166008	NP - NOZ	100	sandy Siltstone	12	<20	798	<1.00	<0.50	85	20	147	2.16	2.05	0.93	9.21	2.95	7.38	74	1.02	0.18	58	120	1.23	11.20	11.2	1.14	2.16	18.40	2.5	6.8	<0.05
166010	MSP-SOZ	0*	siltstone/vein	433	<100	<1,000	<2.00	<2.00	2,350	120	<200	<5.00	108.00	15.00	4.86	34.40	<10.00	4,790	3.78	0.27	3,740	125	<2.00	29.30	713.0	<2.00	43.80	14.50	<20.0	32.0	0.29
166011	MSP	0*	siltstone/vein	325	81	1,010	4.64	<1.00	456	118	103	<2.00	24.00	14.60	5.95	13.60	8.59	783	2.71	0.30	663	131	1.33	44.00	137.0	<2.00	13.90	17.00	9.7	20.3	0.07
166012	MSP	400*	vein	158	<100	968	<5.00	<2.00	176	51	<100	<5.00	37.40	4.22	7.04	15.20	3.30	1,650	2.81	0.97	1,250	88	<1.00	16.00	250.0	<2.00	16.80	16.50	<10.0	19.6	0.12
166013	MSP	400*	vein	168	<30	908	2.38	<0.50	103	58	121	<1.00	8.39	5.33	8.14	6.54	5.40	300	1.68	2.16	251	100	0.75	8.98	47.4	<1.00	5.76	19.80	13.3	12.4	0.09
166014	SSP	0	vein	847	<100	5,180	14.10	<2.00	1,050	128	<100	<5.00	42.10	18.20	4.84	38.40	2.55	1,100	13.70	0.21	1,080	80	1.57	13.70	239.0	<2.00	27.90	10.60	33.6	92.0	0.16
166015	MSP	450*	vein	423	<30	1,110	<1.00	<0.50	104	140	96	<1.00	6.62	19.10	6.85	8.22	4.48	114	2.44	1.16	112	124	2.41	15.00	28.2	1.14	6.21	16.40	15.8	17.3	0.06
166016	EBT (A - A1)	100	vein	119	40	1,680	4.13	13.30	55	29	38	<1.00	2.55	8.73	2.84	3.95	2.41	69	1.53	0.18	56	45	0.82	6.56	12.7	<1.00	2.59	7.61	10.6	10.6	<0.05
166017	EBT (A - A1)	200	vein	11	<20	728	1.39	16.60	20	4	22	<1.00	1.21	0.46	1.21	1.81	0.73	39	1.04	0.12	35	<20	<0.20	4.10	6.1	<1.00	1.13	2.84	3.2	6.3	<0.05
166018	EBT (A - A1)	300	vein	3	40	1,070	<1.00	18.80	39	5	16	<1.00	4.51	0.38	<0.50	5.32	<0.50	78	1.89	0.12	71	<20	<0.20	3.70	19.0	<1.00	3.97	1.62	<2.0	12.8	<0.05
166019	EBT (A - A1)	400	vein	4	43	<200	2.61	29.60	6	1	11	<1.00	1.60	0.17	<0.50	2.01	<0.50	50	0.79	0.21	32	<20	<0.20	0.72	7.6	<1.00	1.47	0.62	3.4	5.4	<0.05
166020	EBT (A - A1)	100	siltstone/vein	239	<20	3,120	1.29	2.19	74	58	72	<1.00	3.94	19.00	5.52	5.54	5.59	78	2.15	0.12	62	106	1.30	13.00	17.3	<1.00	3.86	16.90	7.1	14.6	<0.05
166021	EBT (A - A1)	200	siltstone/vein	236	<30	5,420	2.58	2.31	90	77	66	1.00	7.28	20.30	5.79	8.35	4.35	172	3.09	0.15	122	85	1.54	13.10	31.5	<1.00	6.23	14.60	6.5	20.2	<0.05
166022	EBT (A - A1)	300	siltstone/vein	103	38	9,540	3.50	1.50	103	27	66	1.16	6.63	10.10	5.85	7.54	4.94	172	2.53	0.20	141	91	0.52	18.20	30.7	<1.00	6.11	17.00	6.3	16.9	<0.05
166023	EBT (A - A1)	400	siltstone/vein	170	391	726	3.90	4.67	123	20	67	<1.00	7.46	9.05	5.28	8.19	5.35	196	3.06	0.22	167	91	0.84	12.90	38.9	<1.00	6.19	16.40	13.3	20.0	<0.05
166024	EBT (A - A1)	100	dolomitic sltst	140	81	1,640	<1.00	5.90	76	49	105	1.07	2.63	4.19	6.17	4.46	5.34	73	2.12	0.11	60	110	1.22	14.80	12.8	1.01	2.72	20.30	2.7	13.0	0.06
166025	EBT (A - A1)	200	siltstone	155	45	835	<1.00	5.43	77	37	97	<1.00	3.51	4.48	6.71	5.17	5.92	108	1.90	0.13	79	109	1.98	13.00	17.8	<1.00	3.43	20.90	3.7	13.0	<0.05
166026	EBT (A - A1)	400	dolomitic sltst	157	<30	751	11.50	5.16	83	14	101	1.07	5.97	5.29	6.77	7.10	5.36	236	2.99	0.35	149	96	1.67	16.50	30.0	1.32	5.44	21.10	5.5	19.8	0.05
166027	EBT (A - A1)	100	dolomitic sltst	56	<20	970	3.99	<0.50	106	21	118	2.09	3.53	1.88	8.74	11.10	7.31	71	4.85	0.17	63	188	2.10	18.90	16.2	1.84	6.35	24.10	4.8	30.6	0.05
166028	EBT (A - A1)	200	dolomitic sltst	39	<20	946	1.43	<0.50	110	14	123	2.25	1.54	1.66	8.83	4.09	7.65	63	2.41	0.18	49	184	2.25	19.30	9.2	1.91	2.35	25.80	3.6	15.1	0.05
166029	EBT (A - A1)	300	dolomitic sltst	30	<20	865	2.84	<0.50	87	19	114	2.00	1.55	2.33	7.77	5.79	7.04	44	3.41	0.23	41	190	2.28	20.70	8.0	1.66	3.15	24.20	4.3	21.8	<0.05
166030	EBT (A - A1)	400	dolomitic sltst	34	<20	857	1.63	<0.50	93	24	120	1.07	1.83	2.17	7.42	5.12	7.81	56	3.22	0.33	47	195	2.01	20.90	9.8	1.59	2.98	25.40	5.7	20.0	0.05
166031	EBT (A - A1)	100	silty dolomite	45	<20	2,420	3.08	6.79	77	25	80	2.03	1.45	1.40	5.66	1.60	5.23	58	0.50	0.30	46	156	1.68	14.80	8.9	1.14	1.27	19.10	3.0	3.7	<0.05
166032	EBT (A - A1)	200	silty dolomite	23	21	633	2.42	8.73	67	27	66	1.84	0.97	0.96	4.74	1.16	4.38	40	0.38	0.39	30	109	1.12	12.30	5.6	<1.00	0.86	15.20	3.2	2.7	<0.05
166033	EBT (A - A1)	300	dolomite	23	<20	678	2.56	6.82	71	26	81	2.77	0.89	1.19	5.52	1.48	4.81	39	0.48	0.65	31	132	1.54	13.90	5.6	1.05	1.08	18.10	3.2	3.3	<0.05
166034	EBT (A - A1)	400	dolomite	8	<20	764	1.91	11.50	59	27	72	2.60	0.69	0.62	4.61	1.85	4.37	32	1.91	0.68	26	116	1.19	11.00	4.8	1.04	0.88	15.00	2.5	9.3	<0.05
166035	EBT (B - B1)	100	siltstone	2	<20	850	1.75	0.69	90	2	99	2.87	1.53	1.27	6.72	2.09	5.30	64	0.73	1.82	55	161	<0.20	12.40	10.2	1.13	1.61	19.00	<2.0	5.1	<0.05
166036	EBT (B - B1)	200	siltstone	2	<20	616	1.24	<0.50	91	2	102	2.68	1.65	1.18	7.85	1.74	6.26	66	0.64	1.23	54	161	<0.20	14.00	11.2	1.34	1.22	20.90	<2.0	4.5	<0.05
166037	EBT (B - B1)	100	siltstone	94	<20	576	<1.00	<0.50	324	6	127	1.70	2.57	5.07	7.66	4.46	4.47	49	1.87	2.46	52	144	1.18	18.00	12.4	1.97	3.04	20.90	7.4	12.8	0.06
166038	EBT (B - B1)	200	siltstone	103	<20	477	1.28	<0.50	906	13	122	1.73	4.53	3.49	8.30	10.20	4.40	46	4.09	1.78	58	144	1.28	17.80	18.7	1.57	6.23	22.50	7.7	28.0	<

SAMP No.	LOCATION (SECTION)	DEPTH (cm)	Rock type	As ppm	Au ppb	Ba ppm	Br ppm	Ca wt%	Ce ppm	Co ppm	Cr ppm	Cs ppm	Eu ppm	Fe wt%	Hf ppm	Ho ppm	K wt%	La ppm	Lu ppm	Na wt%	Nd ppm	Rb ppm	Sb ppm	Sc ppm	Sm ppm	Ta ppm	Tb ppm	Th ppm	U ppm	Yb ppm	Zr wt%
166053	EBT (B - B1)	500	siltstone	29	<50	959	6.75	<1.00	198	17	96	<2.00	24.50	1.45	8.98	12.70	6.05	806	2.79	0.48	647	155	<0.50	19.60	133.0	<2.00	14.90	24.00	19.0	20.3	0.10
166054	EBT (A - A1)	100	siltstone	15	<100	1,130	<5.00	<2.00	2,160	<5	<100	<5.00	44.00	0.61	10.00	16.40	6.24	1,330	2.21	0.12	1,260	156	1.02	20.00	282.0	<2.00	23.00	26.90	<10.0	18.3	0.13
166055	EBT (A - A1)	200	siltstone	14	<20	613	4.24	<0.50	200	3	106	1.81	4.26	0.68	7.05	3.20	7.51	161	1.00	0.39	137	140	0.48	25.80	28.6	1.08	2.58	21.40	<2.0	6.8	<0.05
166056	EBT (A - A1)	300	silty sandstone	12	<20	638	2.38	<0.50	321	1	111	<1.00	3.35	0.61	7.49	5.12	7.59	107	1.81	0.27	138	148	0.69	20.30	21.6	1.57	3.42	20.00	13.5	13.3	<0.05
166057	EBT (A - A1)	400	siltstone	11	<20	663	4.45	<0.50	140	<1	106	1.95	1.59	0.80	7.81	2.27	6.53	70	0.86	0.47	59	155	<0.20	26.70	11.0	1.91	1.64	22.30	5.9	6.0	<0.05
166058	EBT (A - A1)	400	siltstone/breccia	52	<20	473	5.70	<0.50	145	2	70	3.22	3.41	1.50	7.74	3.41	5.91	104	1.13	0.67	81	121	<0.20	11.10	20.1	<1.00	2.57	18.50	7.0	8.2	<0.05
166059	EBT (A - A1)	300	siltstone/breccia	43	<20	574	1.91	7.84	239	7	93	<1.00	4.03	2.61	4.84	5.75	5.91	99	2.26	0.12	121	104	0.78	11.20	21.6	<1.00	3.99	14.80	14.0	16.2	<0.05
166060	EBT (A - A1)	200	siltstone/breccia	40	65	1,310	<1.00	3.02	134	10	84	1.09	2.58	4.64	6.56	4.38	7.58	69	1.73	0.18	68	128	0.67	14.40	14.0	<1.00	2.98	18.50	21.6	11.8	<0.05
166061	EBT (A - A1)	100	breccia	78	<30	1,680	1.58	5.13	177	9	90	1.20	8.31	4.75	6.79	5.00	4.93	298	1.28	0.12	403	124	1.36	13.30	52.0	1.13	4.69	18.40	8.3	9.2	<0.05
166062	EBT (A - A1)	200	siltstone	46	<30	730	16.40	<0.50	959	6	90	<1.00	9.98	2.63	8.89	6.45	7.36	374	1.91	0.42	428	162	0.66	13.20	68.1	1.63	5.33	23.80	11.7	13.4	0.06
166063	EBT (A - A1)	150	breccia	61	<50	1,440	<2.00	5.10	341	7	89	<2.00	17.60	3.65	6.20	9.26	4.32	629	2.18	0.14	805	119	0.86	12.80	108.0	<2.00	9.56	18.30	7.5	16.0	0.08
166064	EBT (A - A1)	200	siltstone	17	<20	836	2.65	<0.50	639	2	97	1.74	9.24	0.93	10.00	4.60	6.19	384	1.18	0.39	323	145	1.01	19.80	66.0	1.35	4.69	27.80	5.9	8.6	0.08
166065	EBT (A - A1)	200	siltstone	21	<20	603	2.11	<0.50	266	1	106	1.22	1.12	0.49	8.89	2.41	5.70	109	0.77	0.18	126	155	0.70	19.60	16.3	<1.00	1.87	30.80	3.9	5.7	<0.05
166066	EBT (A - A1)	200	siltstone	17	<20	724	1.62	<0.50	107	<1	113	2.26	1.26	0.52	10.60	1.93	6.49	64	0.67	0.22	49	144	0.70	23.50	9.0	2.19	1.40	28.80	2.3	4.9	<0.05
166067	EBT (A - A1)	200	siltstone	45	<20	818	1.55	<0.50	91	9	104	2.77	2.96	1.48	8.35	5.39	5.53	112	1.79	0.11	109	156	2.20	18.80	15.3	1.74	4.16	24.20	4.8	12.2	<0.05
166068	EBT (A - A1)	200	siltstone/breccia	18	<100	620	<5.00	<2.00	91	551	<100	<5.00	37.00	0.53	7.26	32.10	5.43	1,260	5.99	0.19	701	150	1.64	18.30	174.0	2.62	29.30	20.50	<10.0	47.6	0.12
166070	EBT (A - A1)	200	siltstone	230	<100	2,090	<5.00	<2.00	452	1,180	<100	<5.00	58.50	19.90	5.09	42.80	4.45	1,490	12.40	0.26	1,250	114	1.39	11.20	306.0	2.25	39.80	14.20	<10.0	88.7	0.13
166071	EBT (A - A1)	200	siltstone/breccia	58	<100	622	<5.00	<2.00	109	89	101	<5.00	19.30	1.48	7.76	14.50	5.12	923	3.75	1.13	707	145	1.52	20.00	100.0	<2.00	14.70	21.80	<10.0	26.5	<0.10
166072	EBT (A - A1)	200	siltstone	23	<50	1,910	<2.00	<1.00	126	16	84	5.12	11.70	1.39	6.98	6.50	4.38	441	1.40	0.70	607	165	1.17	18.00	78.1	<2.00	6.36	22.30	<6.0	10.1	0.06
166073	EBT (A - A1)	200	siltstone	19	<20	550	<1.00	<0.50	108	6	98	1.43	2.65	1.20	7.47	2.95	4.28	101	0.96	1.84	139	143	0.67	16.10	17.8	1.59	2.13	23.70	2.3	6.7	<0.05
166074	EBT (A - A1)	200	siltstone	4	<20	682	1.72	<0.50	123	2	100	2.97	6.62	1.59	7.63	3.80	5.24	256	0.91	0.73	382	177	<0.20	20.30	47.5	1.52	3.61	22.70	2.1	6.7	<0.05
166075	EBT (A - A1)	200	sandy siltstone	3	<20	690	<1.00	<0.50	87	4	103	<1.00	4.16	1.21	9.79	2.95	5.22	170	0.65	0.15	155	96	<0.20	8.16	29.4	1.08	2.82	19.60	3.1	4.8	<0.05
166076	Old Pit (D)	100	siltstone	4	<20	2,710	2.95	<0.50	104	175	69	2.13	2.61	4.64	8.28	2.40	3.68	100	0.67	0.88	92	84	<0.20	15.40	16.6	1.49	1.87	19.10	<2.0	4.8	<0.05
166077	Old Pit (D)	40	dolomitic sltst	59	<100	1,320	6.61	<2.00	1,390	132	<100	<5.00	70.80	0.80	6.40	69.30	3.93	1,700	15.60	1.08	1,480	119	2.35	14.80	357.0	<2.00	62.30	15.90	<10.0	119.0	0.19
166078	Old Pit (D)	20	silty dolomite	<10	<100	4,300	<10.00	<2.00	1,960	515	<200	<5.00	132.00	0.68	7.42	74.00	<5.00	3,520	13.30	1.37	4,930	143	<2.00	15.00	931.0	<2.00	74.90	16.90	<15.0	97.9	0.33
166079	Old Pit (D)	60	silty dolomite	13	<100	1,270	<10.00	<2.00	2,700	70	<200	<5.00	101.00	0.73	6.84	57.00	<5.00	2,930	13.20	1.45	4,140	145	<2.00	15.80	744.0	<2.00	57.40	18.20	<15.0	93.7	0.29
166080	Old Pit (D)	40	silty dolomite	18	<100	3,130	<10.00	<2.00	5,880	375	<200	<5.00	111.00	0.74	7.73	81.90	<5.00	2,480	23.90	1.49	3,280	129	<2.00	18.30	695.0	<2.00	71.90	18.60	<15.0	172.0	0.30
166081	Old Pit (D)	60	siltstone	18	<100	1,050	<10.00	<2.00	1,110	315	<200	<5.00	109.00	0.91	6.23	43.00	<5.00	2,700	8.72	1.05	3,580	129	2.06	15.00	719.0	<2.00	48.30	17.30	<15.0	67.4	0.24
166082	Old Pit (D)	100	siltstone	31	<50	691	6.35	3.71	119	372	<100	2.35	14.40	1.27	6.43	34.80	6.29	458	14.90	1.36	223	154	1.46	18.30	62.6	<2.00	22.00	22.10	7.0	93.6	<0.05
166083	Old Pit (D)	200	siltstone	35	<20	725	52.00	0.79	89	42	99	1.90	2.20	2.06	6.79	4.62	7.24	74	2.82	1.56	68	161	1.47	17.20	12.1	1.19	2.78	22.60	3.6	16.5	<0.05
166084	Old Pit (D)	120	dolomite	144	<100	4,160	11.40	<2.00	171	407	<200	<5.00	67.40	4.54	4.79	97.50	<2.00	1,840	33.00	0.91	1,540	95	1.81	12.50	349.0	<2.00	66.80	11.60	<10.0	228.0	0.17
166085	Old Pit (D)	180	dolomite	52	<100	<1,000	45.10	<4.00	600	456	<200	<5.00	178.00	1.42	6.45	160.00	<10.00	5,680	39.00	0.94	4,500	107	<5.00	13.00	1010.0	<5.00	145.00	7.75	<50.0	292.0	0.40
166086	Old Pit (D)	200	vein	343	53	884	39.60	<1.00	246	979	<100	2.58	25.70	16.60	4.63	35.40	<2.00	302	14.40	0.67	370	99	2.02	14.80	121.0	<2.00	24.70	22.00	10.7	96.3	0.05
166087	Old Pit (D)	80	dolomitic sltst	152	<100	3,190	<20.00	<2.00	194	484	<200	<5.00	149.00	2.30	5.45	218.00	<10.00	5,910	66.90	1.18	3,600	98	<2.00	15.10	758.0	<2.00	162.00	7.82	<20.0	525.0	0.36
166088	Old Pit (C)	40	sandy siltstone	<100	<500	<2,000	#####	<20.00	130	82	<200	<10.00	803.00	<0.50	7.09	352.00	<20.00	32,600	37.90	<0.40	16,200	<200	<20.00	12.10	4300.0	<5.00	634.00	<5.00	<200.0	323.0	1.96
166089	Old Pit (C)	60	sandy siltstone	<100	<500	<2,000	#####	<20.00	131	244	<200	<10.00	937.00	<0.50	9.14	529.00	<20.00	35,100	39.20	<0.40	18,900	<200	<20.00	15.30	5510.0	<5.00	668.00	<5.00	<200.0	396.0	2.47
166090	Old Pit (C)	90	siltstone	<50	<500	<1,000	<50.00	<20.00	340	356	<500	<5.00	728.00	0.79	7.13	882.00	<20.00	20,100	214.00	<0.40	9,450	<100	<10.00	11.00	3490.0	<5.00	731.00	<5.00	<100.0	1540.0	1.90
166091	Old Pit (C)	40	siltstone	53	<500	<1,000	<50.00	<10.00	243	950	<200	<5.00	658.00	<0.20	6.79	431.00	<20.00	16,800	94.60	<0.40	11,400	<100	<10.00	16.70	3330.0	<5.00	513.00	<5.00	<100.0	723.0	1.55
166092	Old Pit (C)	60	dolomite	48	<100	683	<5.00	<10.00	432	1,180	<500	<5.00	128.00	1.67	5.61	426.00	2.85	1,020	270.00	0.27	1,040	<50	2.97	14.20	487.0	<2.00	195.00	<2.00	26.4	1520.0	0.35
166093	Old Pit (C)	90	dolomite	39	<100	1,370	<5.00	<4.00	177	406	<200	<5.00	57.80	1.13	7.39	167.00	5.26	1,360	69.40	0.36	549	137	1.43	16.50	196.						