

1 May 2023

# Encouraging XRF results from Drilling at Murraydium Rare Earths Project

- First phase of reconnaissance roadside Air Core drilling programme completed in the Bordertown Block targeting REE's in the shallow Loxton Parilla Sands
- pXRF results of up to 2,711 ppm combined Neodymium ( $\text{Nd}_2\text{O}_3$ ) and Praseodymium ( $\text{Pr}_6\text{O}_{11}$ ) \*
- Consistent elevated levels of combined Nd/Pr with all 72 holes having intersections of >1,000 ppm based on XRF analysis
- All samples have been submitted to Bureau Veritas laboratory in Adelaide for confirmatory assay using industry standard chemical analysis
- Loxton Parilla Sands are the same formation that hosts Australian Rare Earths Ltd (ASX:AR3) Koppamurra Resource of 101mt @ 818 ppm TREO (Total Rare Earth Oxide) <sup>(1)</sup>
- Next phase of the 307 hole programme to commence shortly

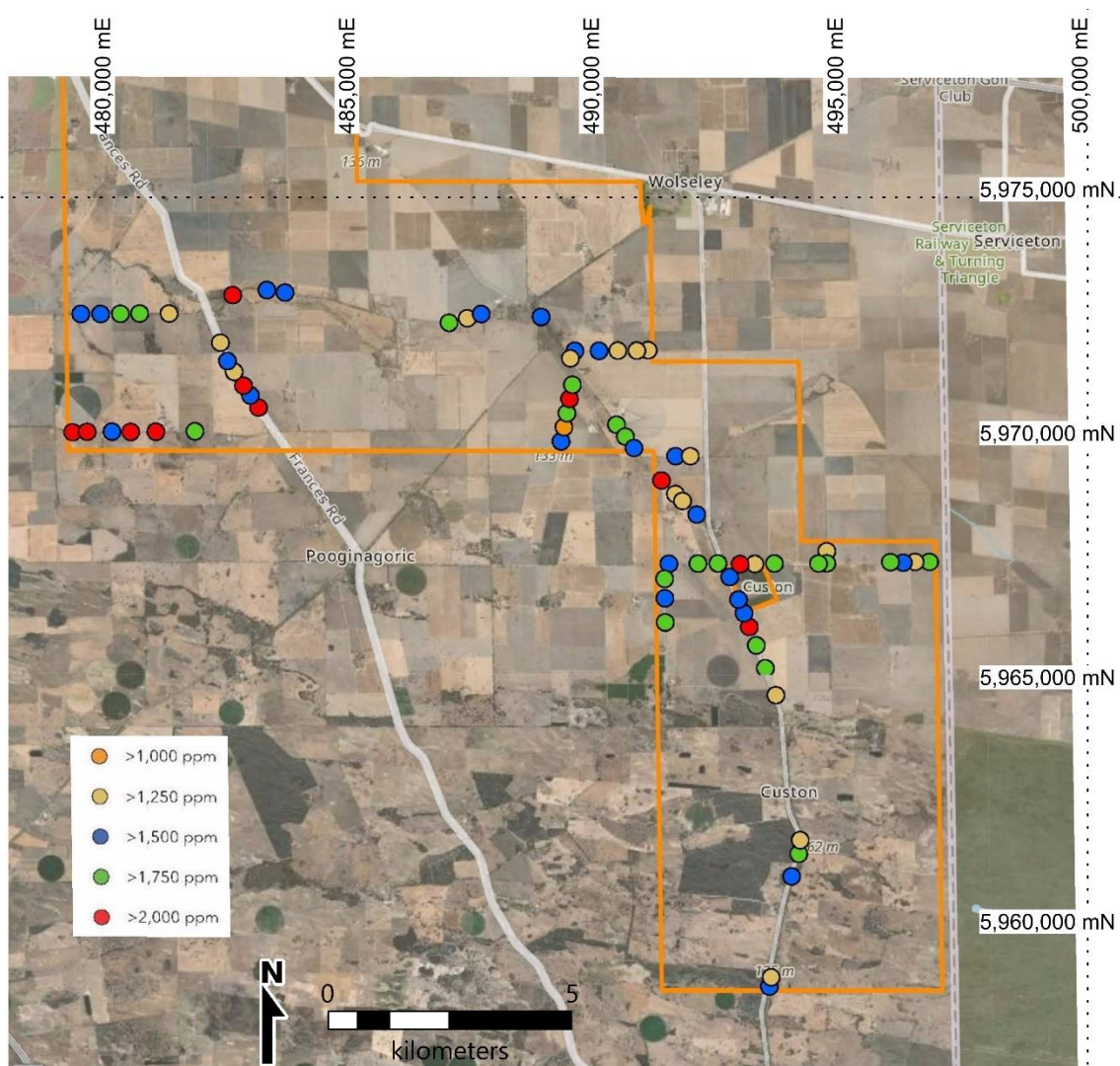
Mr Brian Thomas, Lanthanein Technical Director commented "We are very excited with the preliminary XRF results from the first phase of the roadside drilling programme at the Murraydium Project in the South East of South Australia. These results confirm the exciting exploration opportunity in a region that is highly prospective for ionic clay hosted rare earth deposits as evidenced by work done in the region by AR3 who have outlined an extensive mineralised system at Koppamurra where shallow near surface exploration has delineated significant JORC Resources of REE's. We are eagerly awaiting the return of the assays to confirm the presence of high-grade ionic clay hosted REE's at the Bordertown Block of our Murraydium Project."

**\*The measurement of Rare Earth Elements using a pXRF is a method that has been used at Murraydium and other REE projects in Australia. Performance to OREAS standards demonstrates a strong correlation between pXRF data and certified values. However, pXRF is only a preliminary indication of the expected order of magnitude for final REE analysis. The samples that are the subject of this report have been submitted for laboratory assay and some variation from the pXRF results presented herein should be expected.**

<sup>1</sup> JORC resource comprising 1Mt @ 894ppm TREO (Measured), 63Mt @ 839ppm TREO (Indicated) and 38Mt @ 782ppm TREO (Inferred) (17 April 2023)

Drill Hole	Sample #	Interval (m)	Nd ppm	Pr ppm	Nd+Pr ppm
SBT009	009-08	7-8	1521	674	2195
SBT022	022-04	3-4	1425	644	2069
SBT029	029-09	8-9	1270	785	2055
SBT030	030-06	5-6	1135	1015	2150
	030-09	8-9	1353	733	2086
SBT032	032-03	2-3	1422	886	2308
SBT033	033-13	12-13	1280	913	2193
SBT035	035-01	0-1	1138	1064	2202
SBT037	037-01	0-1	1640	828	2468
	037-10	9-10	1607	984	2591
SBT046	046-03	2-3	1686	1025	2711
SBT062	062-10	9-10	1166	854	2020
SBT067	067-10	9-10	1422	881	2303

**Table 1: Significant preliminary XRF Results from 1m AirCore Drilling samples**



**Figure 1: Locations of Roadside Air Core Drill Holes with Maximum XRF Readings for Each Drill Hole**

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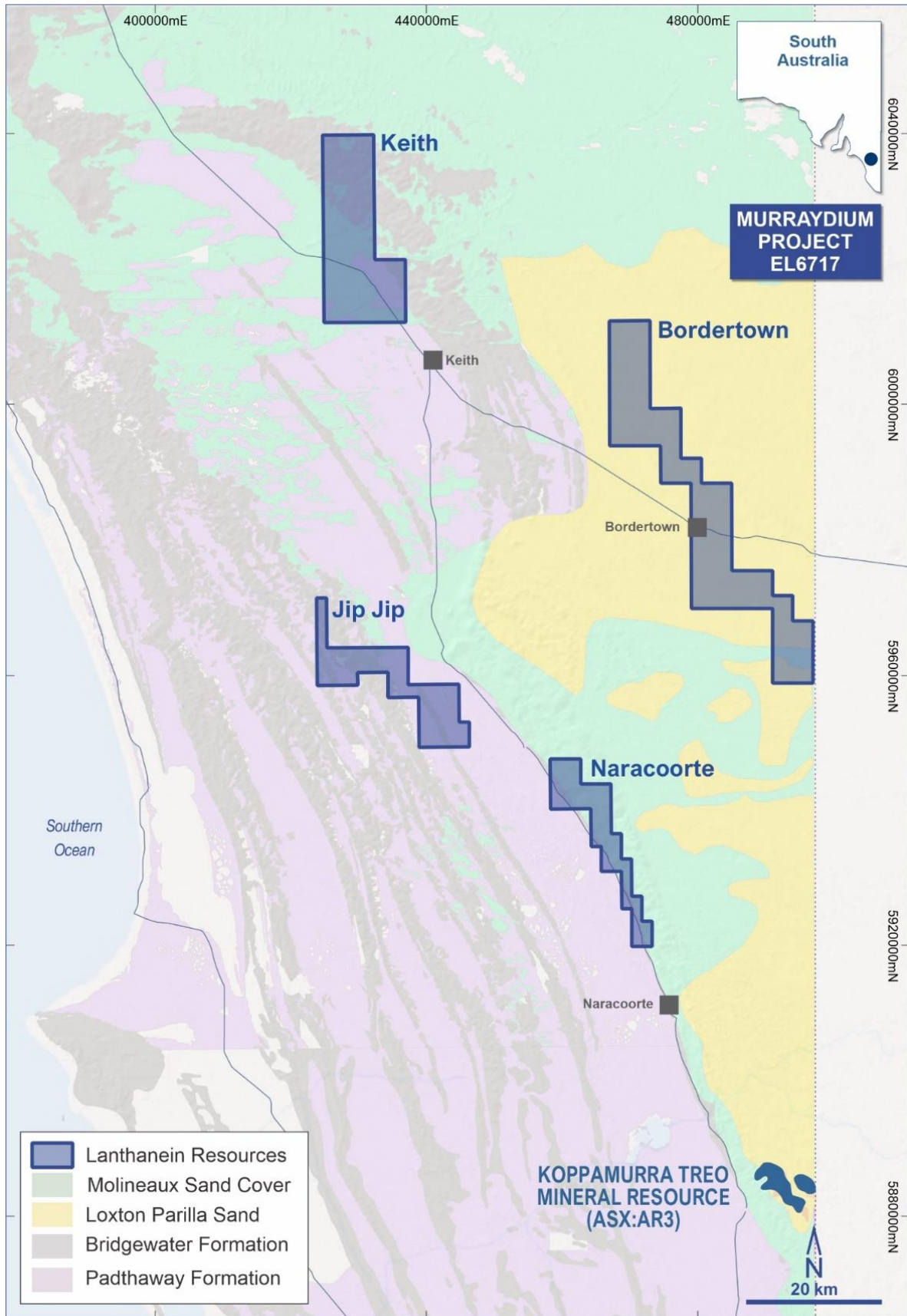
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***Image 1: Roadside Drilling Team on Bangham Road south of Bordertown***

The Murraydium Project is located in the south-eastern region of South Australia with EL 6717 covering an area of 872 km<sup>2</sup> of the Murray Basin (Figure 1). The region is seeing continued activity in the exploration for REE minerals with the success of Australian Rare Earths (ASX:AR3) at their 100% owned Koppamurra Project, host to a total mineral resource of 101 Mt @ 818 ppm TREO (Figure 2), plus other successes with Resource Base Ltd (ASX:RBX) announcing a maiden Mineral Resource Estimate of 21Mt @ 767 ppm TREO (Inferred) at their Mitre Hill Deposit in the Murray Basin in Victoria.

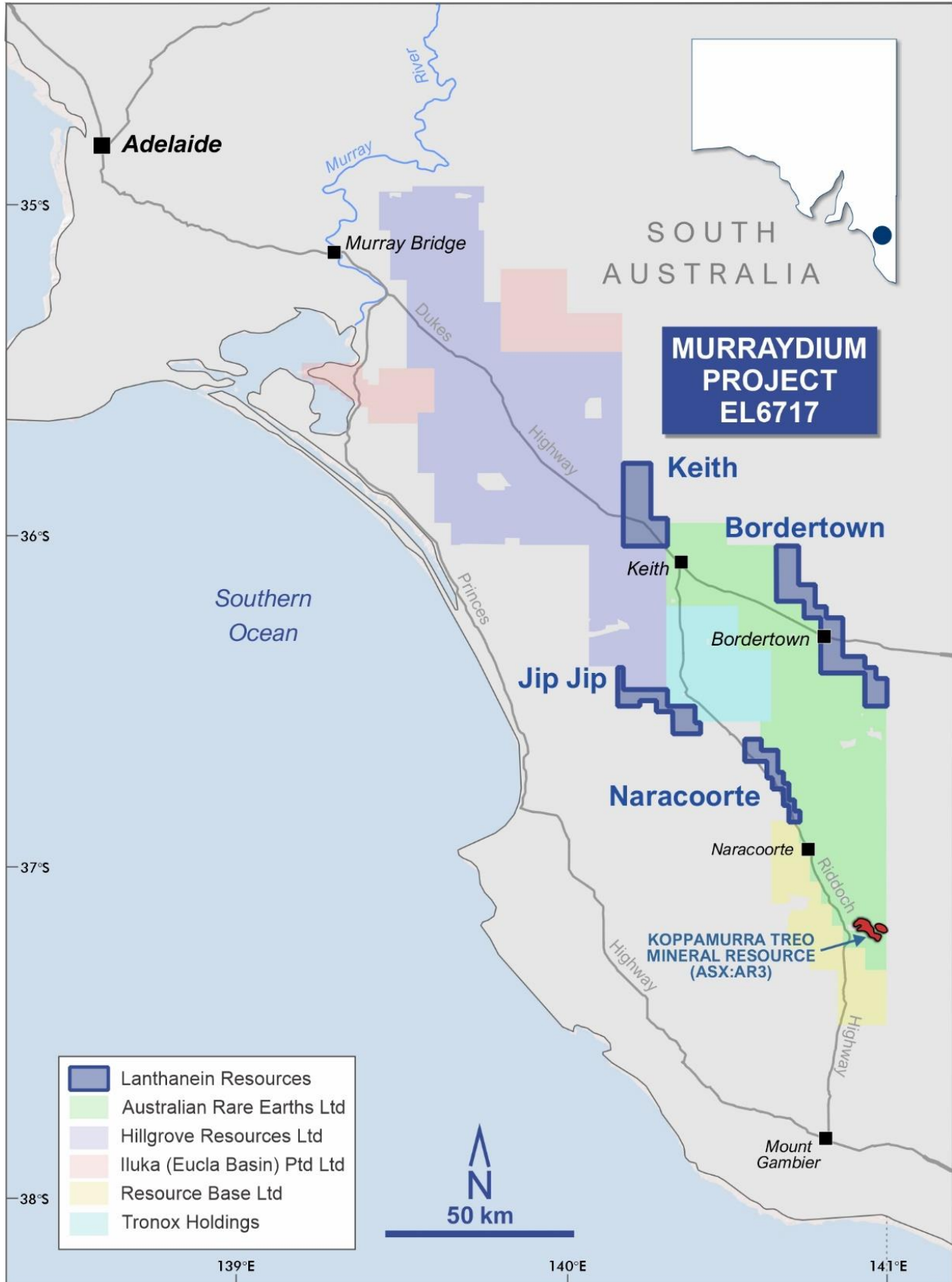
The project area forms part of an extensive Tertiary strand plain comprising a series of sandstone-dominant fluvial and beach-dune strand complexes. The sand units commonly form undulating sand ridges interspersed with low lying areas of clay, mud and sand. The Koppamurra Deposit of REE-bearing clays that contain the Yellow Tail and Red Tail deposits occurs within the lower part of the Loxton-Parilla Sand unit (Fig 1). The Loxton-Parilla Sand is a very extensive unit widely distributed across the southern Murray Basin. Extensive areas of Loxton- Parilla Sand are exposed at surface within the Bordertown Block where it typically forms rolling terrain of low sandy hills and ridges.



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**Figure 2: Plan showing extent of Loxton Parilla Sands in the South East of South Australia**





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**Figure 3: Location Plan of Murraydium Project**

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**Regolith Hosted REE Deposits - Background**

There are several known types of regolith hosted REE deposits globally including, ion adsorption clay deposits, alluvial and placer deposits. The development of potentially economic regolith-hosted REE deposits requires a combination of a REE enriched protolith and weathering processes that concentrate the REE in the regolith. Ion adsorption type REE deposits are the dominant source of heavy REE currently mined in the world, with all economic examples of this type of deposit confined almost exclusively to areas underlain by granitic rocks in southern China. REE mineralisation in the Murray Basin at Australian Rare Earths (ASX:AR3) Koppamurra Project is hosted by clay material interpreted to have been deposited onto a limestone base (Gambier Limestone) and accumulated in an interdunal, lagoonal or estuarine environment. The mineralogy of the clay is indicative of formation under mildly alkaline conditions in a marine or coastal environment from fine grained sediments either river transported or windblown thereby supporting this interpretation.

Mineralogical test work conducted on a clay sample from the Koppamurra Project area established that the dominant clay minerals are smectite and kaolin, and the few REE-rich minerals detected during the SEM investigation are not considered inconsistent with the suggestion that a significant proportion of REE are distributed in the sample as adsorbed elements on clay and iron oxide surfaces. Work to date suggests that the source of the REE at Koppamurra is most likely basalt associated alkali volcanics of the Newer Volcanics Province in south-eastern Australia, with the wider Koppamurra project area being considered prospective for rare earth mineralisation.

However, whilst Koppamurra clays display ionic character, and the deposit shares a number of similarities with both ion adsorption clay deposits and volcanic ash fall placer deposits, there are also a number of differences, with further work required before a genetic model for REE mineralisation at Koppamurra and the broader Murray Basin can be conclusively defined. In addition, further work is required to better define metallurgical recoveries, process flow sheets, effective mining methods, and project economics.

This announcement has been authorised for release by the Directors of the Company.

For additional information please visit our website at [www.lanthanein.com](http://www.lanthanein.com)

**LANTHANEIN RESOURCES LTD****Competent Person's Statement**

The information in this report that relates to Geophysical Exploration Results is based on information compiled by Peter Swiridiuk - Member of the Aust. Inst. of Geoscientists. Peter Swiridiuk is a Technical Consultant and Non-Executive Director for Lanthanein Resources. Peter Swiridiuk has sufficient experience which is relevant to the type of mineralisation and type of deposit under consideration to qualify as Competent Person as defined in the 2012 Edition of the Australasian Code of Reporting Exploration Results, Mineral Resources and Ore Resources. Peter Swiridiuk consents to the inclusion in the report of the matters based on the information in the form and context in which it appears. Additionally, Mr Swiridiuk confirms that the entity is not aware of any new information or data that materially affects the information contained in the ASX releases referred to in this report.

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**Table 2: Drill Hole Collars**

Hole ID	Easting (m)	Northing (m)	Total Depth EOH (m)	Azimuth	Dip	RL (m ASL)
SBT001	493364	5958980	25	0	-90	106
SBT002	493402	5959173	25	0	-90	106
SBT003	493846	5961249	30	0	-90	106
SBT004	494002	5961717	27	0	-90	106
SBT005	494033	5961996	27	0	-90	106
SBT006	493579	5964978	24	0	-90	104
SBT007	493372	5965535	24	0	-90	104
SBT008	493197	5966004	24	0	-90	104
SBT009	493056	5966379	19	0	-90	104
SBT010	492957	5966665	21	0	-90	104
SBT011	492843	5966944	14	0	-90	104
SBT012	492670	5967412	18	0	-90	104
SBT013	496758	5967723	24	0	-90	104
SBT014	496457	5967724	18	0	-90	104
SBT015	496215	5967708	18	0	-90	104
SBT016	495958	5967718	16	0	-90	104
SBT017	494662	5967946	17	0	-90	104
SBT018	494657	5967694	18	0	-90	104
SBT019	494489	5967692	18	0	-90	104
SBT020	493590	5967687	18	0	-90	104
SBT021	493189	5967679	18	0	-90	104
SBT022	492889	5967676	18	0	-90	104
SBT023	492435	5967688	15	0	-90	104
SBT024	492028	5967685	17	0	-90	104
SBT025	491436	5967678	30	0	-90	104
SBT026	491343	5967368	27	0	-90	104
SBT027	491343	5966968	30	0	-90	104
SBT028	491344	5966470	30	0	-90	104
SBT029	479300	5970351	16	0	-90	85
SBT030	479593	5970357	15	0	-90	85
SBT031	480100	5970364	15	0	-90	85
SBT032	480483	5970359	14	0	-90	85
SBT033	480999	5970366	14	0	-90	85
SBT034	481796	5970379	15	0	-90	85
SBT035	483099	5970871	16	0	-90	85
SBT036	482936	5971123	17	0	-90	85
SBT037	482798	5971323	17	0	-90	85
SBT038	482608	5971607	16	0	-90	85
SBT039	482474	5971827	18	0	-90	85
SBT040	482333	5972203	16	0	-90	85
SBT041	479496	5972787	15	0	-90	75
SBT042	480297	5972805	11	0	-90	75

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Hole ID	Easting (m)	Northing (m)	Total Depth EOH (m)	Azimuth	Dip	RL (m ASL)
SBT043	479897	5972790	14	0	-90	75
SBT044	480694	5972800	12	0	-90	75
SBT045	481295	5972802	14	0	-90	80
SBT046	482599	5973193	19	0	-90	80
SBT047	483299	5973290	15	0	-90	80
SBT048	483664	5973248	21	0	-90	80
SBT049	487010	5972631	26	0	-90	80
SBT050	487387	5972724	22	0	-90	80
SBT051	487674	5972813	18	0	-90	80
SBT052	488893	5972755	15	0	-90	100
SBT053	491072	5972077	18	0	-90	100
SBT054	490840	5972066	18	0	-90	100
SBT055	490453	5972063	18	0	-90	100
SBT056	490068	5972060	18	0	-90	100
SBT057	489573	5972057	18	0	-90	100
SBT058	490404	5970542	14	0	-90	100
SBT059	489269	5970189	18	0	-90	100
SBT060	489330	5970484	18	0	-90	100
SBT061	489392	5970773	18	0	-90	100
SBT062	489455	5971067	19	0	-90	100
SBT063	489523	5971362	17	0	-90	100
SBT064	489479	5971903	13	0	-90	109
SBT065	490586	5970306	17	0	-90	109
SBT066	489518	5971360	15	0	-90	109
SBT067	491304	5969392	15	0	-90	109
SBT068	484428	5970405	16	0	-90	109
SBT069	491730	5968969	14	0	-90	109
SBT070	492018	5968694	18	0	-90	109
SBT071	491602	5969885	18	0	-90	109
SBT072	491900	5969893	19	0	-90	109

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**Table 3 – XRF Readings from Initial Drilling at EL671 Bordertown Block**

Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
SBT001	001-1	390	223	613
	001-2	612	303	915
	001-3	566	353	919
	001-4	699	493	1192
	001-5	438	232	670
	001-6	439	229	668
	001-7	376	293	669
	001-8	646	355	1001
	001-9	413	193	606
	001-10	328	334	662
	001-11	532	353	885
	001-12	453	181	634
	001-13	408	342	750
	001-14	361	342	703
	001-15	266	438	704
	001-15	490	180	670
	001-16	472	474	946
	001-17	453	147	600
	001-18	986	499	1485
	001-19	1288	338	1626
	001-20	446	360	806
	001-21	592	291	883
	001-22	293	318	611
	001-23	496	562	1058
	001-24	363	161	524
001-25	364	498	862	
SBT002	002-01	386	176	562
	002-02	494	288	782
	002-03	658	312	970
	002-04	608	377	985
	002-05	751	509	1260
	002-06	474	526	1000
	002-07	165	210	375
	002-08	502	652	1154
	002-09	719	352	1071
	002-10	<LOD	403	403
	002-11	767	603	1370
	002-12	333	373	706
	002-13	691	350	1041
	002-14	290	336	626
	002-15	506	386	892
	002-16	595	537	1132
	002-17	631	525	1156
	002-18	523	341	864
	002-19	592	300	892
	002-20	679	617	1296
	002-21	271	472	743
	002-22	644	289	933
	002-23	509	680	1189
	002-24	279	394	673
SBT003	003-01	697	673	1370
	003-02	460	433	893
	003-03	628	379	1007
	003-04	554	375	929
	003-05	1204	411	1615
	003-06	594	847	1441
	003-07	550	387	937
	003-08	1007	681	1688

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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	003-09	799	491	1290
	003-10	450	537	987
	003-11	403	248	651
	003-12	542	299	841
	003-13	<LOD	451	451
	003-14	423	335	758
	003-15	536	264	800
	003-16	410	370	780
	003-17	769	597	1366
	003-18	654	572	1226
	003-19	878	536	1414
	003-20	367	203	570
	003-21	651	493	1144
	003-22	357	302	659
	003-23	1037	579	1616
	003-24	660	638	1298
	003-25	471	355	826
	003-26	497	329	826
	003-27	322	309	631
	003-28	643	428	1071
	003-29	633	423	1056
	003-30	460	313	773
SBT004	004-01	437	292	729
	004-02	516	363	879
	004-03	841	391	1232
	004-04	1133	632	1765
	004-05	843	561	1404
	004-06	878	393	1271
	004-07	681	481	1162
	004-08	349	415	764
	004-09	518	464	982
	004-10	755	135	890
	004-11	756	389	1145
	004-12	610	534	1144
	004-13	343	316	659
	004-14	713	590	1303
	004-15	781	377	1158
	004-16	621	470	1091
	004-17	454	382	836
	004-18	309	362	671
	004-19	414	311	725
	004-20	780	393	1173
	004-21	490	511	1001
	004-22	982	856	1838
	004-23	553	636	1189
	004-24	1089	331	1420
	004-25	771	636	1407
	004-26	738	852	1590
	004-27	607	616	1223
SBT005	005-01	670	455	1125
	005-02	357	405	762
	005-03	289	173	462
	005-04	690	554	1244
	005-05	798	519	1317
	005-06	723	275	998
	005-07	615	701	1316
	005-08	461	378	839
	005-09	736	515	1251
	005-10	514	359	873
	005-11	421	358	779

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	005-12	354	380	734
	005-13	281	295	576
	005-14	637	270	907
	005-15	821	420	1241
	005-16	394	515	909
	005-17	434	499	933
	005-18	508	252	760
	005-19	566	421	987
	005-20	554	394	948
	005-21	749	276	1025
	005-22	708	445	1153
	005-23	726	666	1392
	005-24	662	391	1053
	005-25	333	267	600
	005-26	990	500	1490
	005-27	639	403	1042
SBT006	006-01	382	181	563
	006-02	662	500	1162
	006-03	902	583	1485
	006-04	406	372	778
	006-05	518	386	904
	006-06	520	239	759
	006-07	279	206	485
	006-08	872	410	1282
	006-09	517	437	954
	006-10	396	452	848
	006-11	359	147	506
	006-12	521	620	1141
	006-13	892	560	1452
	006-14	708	210	918
	006-15	467	517	984
	006-16	511	115	626
	006-17	452	255	707
	006-18	278	289	567
	006-19	546	288	834
	006-20	526	257	783
	006-21	335	447	782
	006-22	916	466	1382
	006-23	631	560	1191
	006-24	607	494	1101
SBT007	007-01	945	614	1559
	007-02	1010	644	1654
	007-03	544	683	1227
	007-04	423	267	690
	007-05	931	304	1235
	007-06	801	483	1284
	007-07	861	605	1466
	007-08	911	497	1408
	007-09	441	596	1037
	007-10	722	557	1279
	007-11	552	560	1112
	007-12	318	315	633
	007-13	388	229	617
	007-14	518	202	720
	007-15	533	309	842
	007-16	1033	663	1696
	007-17	771	394	1165
	007-18	933	674	1607
	007-19	967	784	1751
	007-20	769	321	1090



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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	007-21	1065	652	1717
	007-22	1220	640	1860
	007-23	1127	790	1917
	007-24	412	497	909
SBT008	008-01	815	482	1297
	008-02	516	491	1007
	008-03	964	676	1640
	008-04	532	421	953
	008-05	861	768	1629
	008-06	772	733	1505
	008-07	653	285	938
	008-08	904	499	1403
	008-09	1370	442	1812
	008-10	579	231	810
	008-11	419	509	928
	008-12	450	235	685
	008-13	304	266	570
	008-14	328	337	665
	008-15	511	354	865
	008-16	1169	576	1745
	008-17	515	327	842
	008-18	704	500	1204
	008-19	684	359	1043
	008-20	585	342	927
	008-21	601	240	841
	008-22	556	468	1024
	008-23	518	483	1001
	008-24	514	277	791
SBT009	009-01	1155	656	1811
	009-02	1049	791	1840
	009-03	394	539	933
	009-04	914	512	1426
	009-05	870	924	1794
	009-06	548	676	1224
	009-07	713	466	1179
	009-08	1521	674	2195
	009-09	699	215	914
	009-10	563	248	811
	009-11	597	383	980
	009-12	464	273	737
	009-13	453	433	886
	009-14	435	273	708
	009-15	693	623	1316
	009-16	541	259	800
	009-17	564	409	973
	009-18	762	397	1159
	009-19	467	520	987
	009-20	325	376	701
	009-21	337	396	733
SBT010	010-01	488	464	952
	010-02	732	613	1345
	010-03	491	289	780
	010-04	561	410	971
	010-05	436	420	856
	010-06	747	443	1190
	010-07	895	459	1354
	010-08	961	755	1716
	010-09	623	202	825
	010-10	556	413	969
	010-11	529	284	813

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	010-12	621	377	998
	010-13	626	548	1174
	010-14	546	561	1107
	010-15	477	380	857
	010-16	900	436	1336
	010-17	712	385	1097
	010-18	294	427	721
	010-19	530	425	955
	010-20	785	574	1359
SBT011	011-01	705	201	906
	011-02	638	314	952
	011-03	540	1104	1644
	011-04	993	621	1614
	011-05	558	307	865
	011-06	1016	418	1434
	011-07	766	315	1081
	011-08	306	479	785
	011-09	474	219	693
	011-10	419	158	577
	011-11	541	574	1115
	011-12	393	401	794
	011-13	471	564	1035
	011-14	718	449	1167
SBT012	012-01	524	480	1004
	012-02	860	604	1464
	012-03	580	439	1019
	012-04	404	308	712
	012-05	670	457	1127
	012-06	490	291	781
	012-07	594	614	1208
	012-08	724	669	1393
	012-09	1027	672	1699
	012-10	758	393	1151
	012-11	569	374	943
	012-12	621	470	1091
	012-13	424	233	657
	012-14	382	281	663
	012-15	557	337	894
	012-16	269	340	609
	012-17	653	626	1279
	012-18	547	345	892
SBT013	013-01	332	362	694
	013-02	874	345	1219
	013-03	471	217	688
	013-04	1167	655	1822
	013-05	472	616	1088
	013-06	516	375	891
	013-07	740	385	1125
	013-08	554	298	852
	013-09	607	310	917
	013-10	493	582	1075
	013-11	603	450	1053
	013-12	486	323	809
	013-13	660	304	964
	013-14	626	433	1059
	013-15	418	219	637
	013-16	815	414	1229
	013-17	766	347	1113
	013-18	681	539	1220
	013-19	466	513	979

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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	013-20	302	569	871
	013-21	810	360	1170
	013-22	1029	523	1552
	013-23	757	378	1135
	013-24	927	548	1475
SBT014	014-01	329	309	638
	014-02	606	484	1090
	014-03	677	318	995
	014-04	634	341	975
	014-05	589	416	1005
	014-06	580	305	885
	014-07	563	299	862
	014-08	499	422	921
	014-09	633	225	858
	014-10	806	601	1407
	014-11	661	338	999
	014-12	452	428	880
	014-13	525	445	970
	014-14	733	480	1213
	014-15	452	379	831
	014-16	404	299	703
	014-17	394	696	1090
	014-18	525	516	1041
SBT015	015-01	716	235	951
	015-02	975	524	1499
	015-03	389	484	873
	015-04	1073	435	1508
	015-05	418	489	907
	015-06	458	183	641
	015-07	516	388	904
	015-08	497	365	862
	015-09	305	492	797
	015-10	491	226	717
	015-11	488	239	727
	015-12	399	556	955
	015-13	868	534	1402
	015-14	433	273	706
	015-15	273	386	659
	015-16	912	342	1254
	015-17	732	579	1311
	015-18	633	404	1037
SBT016	016-01	1151	640	1791
	016-02	250	424	674
	016-03	926	715	1641
	016-04	578	544	1122
	016-05	740	603	1343
	016-06	889	320	1209
	016-07	252	248	500
	016-08	502	341	843
	016-09	601	443	1044
	016-10	462	263	725
	016-11	856	299	1155
	016-12	485	310	795
	016-13	604	398	1002
	016-14	602	454	1056
	016-15	229	368	597
	016-16	485	595	1080
SBT017	017-01	366	265	631
	017-02	509	375	884
	017-03	317	455	772



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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	017-04	221	556	777
	017-05	666	652	1318
	017-06	491	377	868
	017-07	425	477	902
	017-08	654	348	1002
	017-09	628	218	846
	017-10	732	446	1178
	017-11	377	448	825
	017-12	611	472	1083
	017-13	447	249	696
	017-14	314	297	611
	017-15	658	403	1061
	017-16	281	156	437
	017-17	980	519	1499
SBT018	018-01	1163	617	1780
	018-02	365	246	611
	018-03	436	330	766
	018-04	764	377	1141
	018-05	539	672	1211
	018-06	820	500	1320
	018-07	510	414	924
	018-08	682	437	1119
	018-09	950	461	1411
	018-10	415	581	996
	018-11	428	274	702
	018-12	1189	672	1861
	018-13	560	421	981
	018-14	390	331	721
	018-15	279	323	602
	018-16	1033	857	1890
	018-17	483	608	1091
	018-18	923	404	1327
SBT019	019-01	912	915	1827
	019-02	832	507	1339
	019-03	957	639	1596
	019-04	611	399	1010
	019-05	550	344	894
	019-06	729	400	1129
	019-07	752	522	1274
	019-08	508	686	1194
	019-09	368	408	776
	019-10	510	304	814
	019-11	356	275	631
	019-12	484	555	1039
	019-13	397	679	1076
	019-14	565	349	914
	019-15	521	376	897
	019-16	979	677	1656
	019-17	641	272	913
	019-18	646	438	1084
SBT020	020-01	567	458	1025
	020-02	404	535	939
	020-03	540	818	1358
	020-04	1013	624	1637
	020-05	1044	404	1448
	020-06	556	442	998
	020-07	774	505	1279
	020-08	379	370	749
	020-09	423	232	655
	020-10	488	331	819

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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	020-11	977	873	1850
	020-12	567	181	748
	020-13	160	165	325
	020-14	721	225	946
	020-15	430	455	885
	020-16	644	344	988
	020-17	381	501	882
	020-18	711	467	1178
SBT021	021-01	465	241	706
	021-02	1121	307	1428
	021-03	673	408	1081
	021-04	563	316	879
	021-05	891	508	1399
	021-06	709	227	936
	021-07	462	209	671
	021-08	336	195	531
	021-09	813	339	1152
	021-10	597	178	775
	021-11	448	429	877
	021-12	877	362	1239
	021-13	672	649	1321
	021-14	466	255	721
	021-15	394	313	707
	021-16	496	323	819
	021-17	924	422	1346
	021-18	586	252	838
SBT022	022-01	987	645	1632
	022-02	332	206	538
	022-03	634	375	1009
	022-04	1425	644	2069
	022-05	901	569	1470
	022-06	622	475	1097
	022-07	462	423	885
	022-08	505	294	799
	022-09	395	193	588
	022-10	752	401	1153
	022-11	518	256	774
	022-12	1155	524	1679
	022-13	739	404	1143
	022-14	1127	765	1892
	022-15	467	270	737
	022-16	1010	630	1640
	022-17	485	457	942
	022-18	804	284	1088
SBT023	023-01	856	331	1187
	023-02	544	401	945
	023-03	762	530	1292
	023-04	688	419	1107
	023-05	1333	487	1820
	023-06	968	672	1640
	023-07	751	645	1396
	023-08	554	375	929
	023-09	614	331	945
	023-10	257	250	507
	023-11	702	368	1070
	023-12	438	278	716
	023-13	553	223	776
	023-14	528	446	974
	023-15	1071	727	1798
SBT024	024-01	912	337	1249

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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	024-02	562	348	910
	024-03	993	487	1480
	024-04	1095	716	1811
	024-05	889	439	1328
	024-06	496	405	901
	024-07	409	511	920
	024-08	689	575	1264
	024-09	357	430	787
	024-10	655	291	946
	024-11	653	303	956
	024-12	297	261	558
	024-13	419	237	656
	024-14	316	421	737
	024-15	328	239	567
	024-16	1112	458	1570
	024-17	500	493	993
SBT025	025-01	1044	645	1689
	025-02	376	333	709
	025-03	532	430	962
	025-04	575	193	768
	025-05	407	359	766
	025-06	449	244	693
	025-07	267	269	536
	025-08	615	282	897
	025-09	421	323	744
	025-10	326	400	726
	025-11	342	290	632
	025-12	568	396	964
	025-13	478	352	830
	025-14	243	257	500
	025-15	631	265	896
	025-16	450	436	886
	025-17	596	308	904
	025-18	617	361	978
	025-19	615	198	813
	025-20	515	265	780
	025-21	855	398	1253
	025-22	700	295	995
	025-23	630	469	1099
	025-24	747	440	1187
	025-25	257	267	524
	025-26	601	455	1056
	025-27	750	460	1210
	025-28	633	452	1085
	025-29	497	888	1385
	025-30	706	567	1273
SBT026	026-01	424	249	673
	026-02	186	529	715
	026-03	976	794	1770
	026-04	469	382	851
	026-05	429	408	837
	026-06	715	354	1069
	026-07	612	378	990
	026-08	680	389	1069
	026-09	316	217	533
	026-10	497	504	1001
	026-11	533	267	800
	026-12	372	306	678
	026-13	478	455	933
	026-14	338	240	578



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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	026-15	597	395	992
	026-16	252	458	710
	026-17	433	241	674
	026-18	779	546	1325
	026-19	403	141	544
	026-20	369	269	638
	026-21	1093	590	1683
	026-22	775	564	1339
	026-23	753	332	1085
	026-24	814	637	1451
	026-25	708	306	1014
	026-26	969	374	1343
	026-27	757	682	1439
SBT027	027-01	297	253	550
	027-02	1142	479	1621
	027-03	600	745	1345
	027-04	714	482	1196
	027-05	528	446	974
	027-06	432	281	713
	027-07	283	654	937
	027-08	761	344	1105
	027-09	509	374	883
	027-10	685	707	1392
	027-11	579	457	1036
	027-12	502	335	837
	027-13	404	221	625
	027-14	627	673	1300
	027-15	614	507	1121
	027-16	648	412	1060
	027-17	323	343	666
	027-18	572	445	1017
	027-19	314	573	887
	027-20	446	391	837
	027-21	636	422	1058
	027-22	673	262	935
	027-23	284	272	556
	027-24	849	581	1430
	027-25	579	767	1346
	027-26	622	396	1018
	027-27	527	339	866
	027-28	837	439	1276
	027-29	718	286	1004
	027-30	843	853	1696
SBT028	028-01	484	495	979
	028-02	461	466	927
	028-03	564	227	791
	028-04	362	405	767
	028-05	320	408	728
	028-06	602	344	946
	028-07	769	630	1399
	028-08	434	546	980
	028-09	814	345	1159
	028-10	523	570	1093
	028-11	387	331	718
	028-12	522	308	830
	028-13	477	193	670
	028-14	503	344	847
	028-15	603	459	1062
	028-16	531	386	917
	028-17	658	466	1124

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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	028-18	777	397	1174
	028-19	552	439	991
	028-20	849	343	1192
	028-21	272	182	454
	028-22	277	284	561
	028-23	802	333	1135
	028-24	1244	648	1892
	028-25	605	468	1073
	028-26	828	559	1387
	028-27	441	416	857
	028-28	347	643	990
	028-29	778	596	1374
	028-30	442	316	758
SBT029	029-01	389	418	807
	029-02	730	403	1133
	029-03	382	197	579
	029-04	772	504	1276
	029-05	209	248	457
	029-06	764	294	1058
	029-07	497	146	643
	029-08	859	596	1455
	029-09	1270	785	2055
	029-10	665	545	1210
	029-11	669	924	1593
	029-12	773	607	1380
	029-13	469	313	782
	029-14	510	459	969
	029-15	657	394	1051
	029-16	475	371	846
SBT030	030-01	1260	675	1935
	030-02	324	362	686
	030-03	1060	<LOD	1060
	030-04	712	526	1238
	030-05	357	505	862
	030-06	1135	1015	2150
	030-07	886	503	1389
	030-08	697	457	1154
	030-09	1353	733	2086
	030-10	843	532	1375
	030-11	969	530	1499
	030-12	1173	518	1691
	030-13	700	420	1120
	030-14	431	278	709
	030-15	962	601	1563
SBT031	031-01	765	399	1164
	031-02	878	621	1499
	031-03	885	811	1696
	031-04	389	612	1001
	031-05	649	470	1119
	031-06	588	262	850
	031-07	390	437	827
	031-08	661	200	861
	031-09	402	420	822
	031-10	693	451	1144
	031-11	626	288	914
	031-12	636	345	981
	031-13	691	560	1251
	031-14	701	330	1031
	031-15	635	209	844
SBT032	032-01	428	748	1176

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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	032-02	1130	859	1989
	032-03	1422	886	2308
	032-04	615	376	991
	032-05	746	588	1334
	032-06	830	425	1255
	032-07	473	331	804
	032-08	324	341	665
	032-09	1206	344	1550
	032-10	460	310	770
	032-11	388	594	982
	032-12	699	411	1110
	032-13	627	341	968
	032-14	488	461	949
SBT033	033-01	839	263	1102
	033-02	738	537	1275
	033-03	1072	923	1995
	033-04	442	542	984
	033-05	458	316	774
	033-06	386	211	597
	033-07	313	509	822
	033-08	629	552	1181
	033-09	329	376	705
	033-10	883	288	1171
	033-11	815	641	1456
	033-12	459	221	680
	033-13	1280	913	2193
	033-14	612	609	1221
SBT034	034-01	899	552	1451
	034-02	445	680	1125
	034-03	403	204	607
	034-04	462	318	780
	034-05	396	394	790
	034-06	502	587	1089
	034-07	493	350	843
	034-08	870	246	1116
	034-09	614	486	1100
	034-10	887	463	1350
	034-11	349	430	779
	034-12	901	416	1317
	034-13	464	543	1007
	034-14	439	392	831
	034-15	911	980	1891
SBT035	035-01	1138	1064	2202
	035-02	999	485	1484
	035-03	634	620	1254
	035-04	783	251	1034
	035-05	695	492	1187
	035-06	404	509	913
	035-07	593	339	932
	035-08	426	425	851
	035-09	252	241	493
	035-10	879	434	1313
	035-11	609	243	852
	035-12	406	376	782
	035-13	357	434	791
	035-14	420	336	756
	035-15	1165	541	1706
	035-16	388	251	639
SBT036	036-01	685	415	1100
	036-02	676	467	1143

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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	036-03	813	666	1479
	036-04	1132	491	1623
	036-05	391	437	828
	036-06	707	496	1203
	036-07	191	443	634
	036-08	333	255	588
	036-09	635	269	904
	036-10	866	446	1312
	036-11	876	503	1379
	036-12	345	401	746
	036-13	1111	305	1416
	036-14	458	<LOD	458
	036-15	452	225	677
	036-16	800	130	930
	036-17	461	487	948
SBT037	037-01	1640	828	2468
	037-02	780	436	1216
	037-03	570	523	1093
	037-04	787	456	1243
	037-05	325	258	583
	037-06	719	472	1191
	037-07	785	345	1130
	037-08	928	172	1100
	037-09	611	180	791
	037-10	1607	984	2591
	037-11	915	621	1536
	037-12	608	464	1072
	037-13	1139	411	1550
	037-14	820	290	1110
	037-15	655	340	995
	037-16	427	354	781
	037-17	1279	426	1705
SBT038	038-01	298	348	646
	038-02	661	759	1420
	038-03	544	279	823
	038-04	681	264	945
	038-05	1012	282	1294
	038-06	667	296	963
	038-07	684	247	931
	038-08	576	379	955
	038-09	625	489	1114
	038-10	799	577	1376
	038-11	772	601	1373
	038-12	906	307	1213
	038-13	858	488	1346
	038-14	635	146	781
	038-15	591	385	976
SBT039	039-01	463	173	636
	039-02	518	318	836
	039-03	777	601	1378
	039-04	345	322	667
	039-05	547	599	1146
	039-06	1002	541	1543
	039-07	929	719	1648
	039-08	722	427	1149
	039-09	856	420	1276
	039-10	516	364	880
	039-11	650	334	984
	039-12	963	594	1557
	039-13	408	236	644

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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	039-14	435	449	884
	039-15	499	485	984
	039-16	460	190	650
	039-17	619	266	885
	039-18	773	379	1152
SBT040	040-01	646	282	928
	040-02	382	285	667
	040-03	369	161	530
	040-04	526	456	982
	040-05	467	719	1186
	040-06	597	416	1013
	040-07	196	388	584
	040-08	637	416	1053
	040-09	811	634	1445
	040-10	681	394	1075
	040-11	915	450	1365
	040-12	467	489	956
	040-13	625	290	915
	040-14	588	230	818
	040-15	864	447	1311
	040-16	955	475	1430
SBT041	041-01	694	745	1439
	041-02	462	795	1257
	041-03	365	382	747
	041-04	1158	746	1904
	041-05	754	550	1304
	041-06	1027	942	1969
	041-07	670	592	1262
	041-08	763	466	1229
	041-09	327	353	680
	041-10	619	527	1146
	041-11	643	599	1242
	041-12	506	443	949
	041-13	791	525	1316
	041-14	465	401	866
	041-15	782	559	1341
SBT042	042-01	509	350	859
	042-02	944	775	1719
	042-03	840	333	1173
	042-04	844	501	1345
	042-05	651	321	972
	042-06	594	182	776
	042-07	681	359	1040
	042-08	562	375	937
	042-09	508	869	1377
	042-10	511	622	1133
	042-11	526	243	769
SBT043	043-01	680	832	1512
	043-02	514	436	950
	043-03	952	769	1721
	043-04	619	277	896
	043-05	288	146	434
	043-06	474	450	924
	043-07	678	273	951
	043-08	758	488	1246
	043-09	775	627	1402
	043-10	417	245	662
	043-11	839	635	1474
	043-12	761	483	1244
	043-13	869	287	1156



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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	043-14	601	364	965
SBT044	044-01	648	912	1560
	044-02	588	321	909
	044-03	845	434	1279
	044-04	759	504	1263
	044-05	1122	756	1878
	044-06	322	339	661
	044-07	381	201	582
	044-08	638	618	1256
	044-09	496	287	783
	044-10	471	217	688
	044-11	1186	787	1973
	044-12	1083	509	1592
SBT045	045-01	892	190	1082
	045-02	631	327	958
	045-03	798	466	1264
	045-04	444	344	788
	045-05	474	388	862
	045-06	375	446	821
	045-07	704	378	1082
	045-08	551	456	1007
	045-09	594	269	863
	045-10	434	368	802
	045-11	239	331	570
	045-12	680	354	1034
	045-13	595	506	1101
	045-14	287	286	573
SBT046	046-01	407	205	612
	046-02	809	514	1323
	046-03	1686	1025	2711
	046-04	395	271	666
	046-05	602	218	820
	046-06	767	471	1238
	046-07	709	440	1149
	046-08	638	249	887
	046-09	418	560	978
	046-10	885	459	1344
	046-11	612	265	877
	046-12	966	473	1439
	046-13	709	367	1076
	046-14	558	460	1018
	046-15	713	483	1196
	046-16	585	275	860
	046-17	367	104	471
	046-18	293	150	443
	046-19	357	384	741
SBT047	047-01	472	606	1078
	047-02	1067	430	1497
	047-03	256	479	735
	047-04	630	481	1111
	047-05	357	333	690
	047-06	405	181	586
	047-07	319	287	606
	047-08	1062	481	1543
	047-09	674	615	1289
	047-10	331	561	892
	047-11	438	299	737
	047-12	837	591	1428
	047-12a	642	717	1359
	047-13	386	348	734

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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	047-14	442	282	724
	047-15	460	399	859
	047-16	556	337	893
SBT048	048-01	534	378	912
	048-02	No Sample		0
	048-03	675	679	1354
	048-04	657	399	1056
	048-05	599	342	941
	048-06	508	297	805
	048-07	721	523	1244
	048-08	375	397	772
	048-09	357	348	705
	048-10	556	348	904
	048-11	326	241	567
	048-12	305	299	604
	048-13	718	351	1069
	048-14	502	386	888
	048-15	473	204	677
	048-16	458	461	919
	048-17	828	697	1525
	048-18	997	412	1409
	048-19	691	380	1071
	048-20	636	280	916
SBT049	049-01	974	804	1778
	049-02	720	376	1096
	049-03	577	310	887
	049-04	1104	463	1567
	049-05	228	323	551
	049-06	518	293	811
	049-07	903	653	1556
	049-08	355	277	632
	049-09	730	250	980
	049-10	536	355	891
	049-11	859	732	1591
	049-12	522	405	927
	049-13	493	397	890
	049-14	305	551	856
	049-15	540	203	743
	049-16	1064	724	1788
	049-17	635	442	1077
	049-18	689	464	1153
	049-19	312	308	620
	049-20	385	597	982
	049-21	494	495	989
	049-22	<LOD	289	289
	049-23	777	498	1275
	049-24	620	466	1086
	049-25	517	548	1065
	049-26	481	404	885
SBT050	050-01	552	341	893
	050-02	844	203	1047
	050-03	563	477	1040
	050-04	310	623	933
	050-05	363	339	702
	050-06	421	241	662
	050-07	634	431	1065
	050-08	931	399	1330
	050-09	439	267	706
	050-10	790	632	1422
	050-11	851	511	1362

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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	050-12	529	344	873
	050-13	1075	289	1364
	050-14	491	353	844
	050-15	668	422	1090
	050-16	495	250	745
	050-17	288	403	691
	050-18	481	277	758
	050-19	972	327	1299
	050-20	498	344	842
	050-21	616	383	999
	050-22	570	208	778
SBT051	051-01	276	426	702
	051-02	443	571	1014
	051-03	898	620	1518
	051-04	464	437	901
	051-05	301	501	802
	051-06	607	518	1125
	051-07	407	394	801
	051-08	676	514	1190
	051-09	544	505	1049
	051-10	306	282	588
	051-11	681	426	1107
	051-12	508	216	724
	051-13	379	262	641
	051-14	373	306	679
	051-15	852	590	1442
	051-16	383	403	786
	051-17	938	399	1337
	051-18	660	295	955
SBT052	052-01	728	526	1254
	052-02	668	399	1067
	052-03	343	438	781
	052-04	642	500	1142
	052-05	337	271	608
	052-06	498	345	843
	052-07	1061	567	1628
	052-08	621	298	919
	052-09	604	534	1138
	052-10	603	208	811
	052-11	661	337	998
	052-12	297	199	496
	052-13	551	248	799
	052-14	937	524	1461
SBT053	053-01	319	355	674
	053-02	493	644	1137
	053-03	439	262	701
	053-04	277	319	596
	053-05	797	611	1408
	053-06	524	252	776
	053-07	577	372	949
	053-08	387	273	660
	053-09	630	325	955
	053-10	200	408	608
	053-11	563	201	764
	053-12	469	334	803
	053-13	396	287	683
	053-14	637	509	1146
	053-15	587	278	865
	053-16	718	291	1009
	053-17	671	280	951

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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
SBT054	054-01	528	472	1000
	054-02	455	407	862
	054-03	689	589	1278
	054-04	268	165	433
	054-05	590	640	1230
	054-05	317	335	652
	054-07	349	433	782
	054-08	644	476	1120
	054-09	460	467	927
	054-10	697	464	1161
	054-11	639	374	1013
	054-12	882	243	1125
	054-13	473	418	891
	054-14	526	367	893
	054-15	414	509	923
	054-16	436	408	844
	054-17	877	458	1335
	054-18	862	534	1396
SBT055	055-01	357	676	1033
	055-02	215	337	552
	055-03	634	250	884
	055-04	716	600	1316
	055-05	738	413	1151
	055-06	623	529	1152
	055-07	667	463	1130
	055-08	248	282	530
	055-09	606	412	1018
	055-10	323	183	506
	055-11	492	209	701
	055-12	372	241	613
	055-13	490	297	787
	055-14	856	411	1267
	055-15	976	338	1314
	055-16	323	564	887
	055-17	570	325	895
	055-18	664	484	1148
SBT056	056-01	696	255	951
	056-02	488	244	732
	056-03	972	684	1656
	056-04	280	231	511
	056-05	740	395	1135
	056-06	430	342	772
	056-07	368	380	748
	056-08	646	710	1356
	056-09	601	473	1074
	056-10	564	345	909
	056-11	663	242	905
	056-12	629	516	1145
	056-13	389	441	830
	056-14	553	268	821
	056-15	624	411	1035
	056-16	609	538	1147
	056-17	585	595	1180
	056-18	283	372	655
SBT057	057-01	474	709	1183
	057-02	1071	529	1600
	057-03	364	354	718
	057-04	288	272	560
	057-05	721	563	1284
	057-06	687	208	895

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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	057-07	414	262	676
	057-08	414	518	932
	057-09	419	293	712
	057-10	607	327	934
	057-11	572	295	867
	057-12	577	502	1079
	057-13	545	225	770
	057-14	407	293	700
	057-15	370	345	715
	057-16	366	405	771
	057-17	600	432	1032
	057-18	731	404	1135
SBT058	058-01	606	518	1124
	058-02	650	239	889
	058-03	670	443	1113
	058-04	481	477	958
	058-05	640	514	1154
	058-06	987	769	1756
	058-07	741	236	977
	058-08	409	362	771
	058-09	540	510	1050
	058-10	289	198	487
	058-11	743	501	1244
	058-12	479	273	752
	058-13	552	504	1056
	058-14	665	520	1185
SBT059	059-01	648	598	1246
	059-02	848	628	1476
	059-03	717	970	1687
	059-04	657	572	1229
	059-05	755	503	1258
	059-06	528	226	754
	059-07	675	333	1008
	059-08	759	434	1193
	059-09	459	269	728
	059-10	585	481	1066
	059-11	328	440	768
	059-12	318	357	675
	059-13	290	429	719
	059-14	802	382	1184
	059-15	377	225	602
	059-16	595	190	785
	059-17	941	655	1596
	059-18	545	245	790
SBT060	060-01	519	567	1086
	060-02	415	233	648
	060-03	637	548	1185
	060-04	554	585	1139
	060-05	667	278	945
	060-06	391	280	671
	060-07	524	387	911
	060-08	582	235	817
	060-09	602	230	832
	060-10	821	397	1218
	060-11	580	373	953
	060-12	302	222	524
	060-13	257	269	526
	060-14	380	155	535
	060-15	351	215	566
	060-16	543	339	882



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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	060-17	673	467	1140
	060-18	534	331	865
SBT061	061-01	935	799	1734
	061-02	821	544	1365
	061-03	752	408	1160
	061-04	1183	682	1865
	061-05	669	577	1246
	061-06	522	222	744
	061-07	655	234	889
	061-08	424	319	743
	061-09	602	403	1005
	061-10	501	281	782
	061-11	506	341	847
	061-12	642	379	1021
	061-13	694	352	1046
	061-14	212	260	472
	061-15	789	443	1232
	061-16	760	252	1012
	061-17	228	479	707
	061-18	657	210	867
SBT062	062-01	547	562	1109
	062-02	838	560	1398
	062-03	644	823	1467
	062-04	637	295	932
	062-05	836	556	1392
	062-06	873	545	1418
	062-07	565	368	933
	062-08	407	337	744
	062-09	351	318	669
	062-10	1166	854	2020
	062-11	336	243	579
	062-12	548	444	992
	062-13	479	511	990
	062-14	550	407	957
	062-15	415	378	793
	062-16	456	365	821
	062-17	406	225	631
	062-18	479	289	768
SBT063	063-01	440	285	725
	063-02	501	435	936
	063-03	1159	821	1980
	063-04	761	365	1126
	063-05	578	332	910
	063-06	648	596	1244
	063-07	635	350	985
	063-08	241	160	401
	063-09	366	416	782
	063-10	745	778	1523
	063-11	329	290	619
	063-12	526	436	962
	063-13	525	302	827
	063-14	390	198	588
	063-15	305	391	696
	063-16	614	399	1013
	063-17	947	365	1312
SBT064	064-01	640	423	1063
	064-02	767	566	1333
	064-03	609	657	1266
	064-04	749	568	1317
	064-05	689	420	1109

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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	064-06	890	606	1496
	064-07	719	218	937
	064-08	500	366	866
	064-09	514	385	899
	064-10	746	443	1189
	064-11	512	225	737
	064-12	608	417	1025
	064-13	302	451	753
SBT065	065-01	1001	700	1701
	065-02	1087	903	1990
	065-03	948	626	1574
	065-04	444	205	649
	065-05	713	305	1018
	065-06	789	754	1543
	065-07	736	388	1124
	065-08	415	379	794
	065-09	574	404	978
	065-09	1234	520	1754
	065-10	420	364	784
	065-11	619	436	1055
	065-12	802	414	1216
	065-13	380	498	878
	065-14	485	316	801
	065-15	395	242	637
	065-16	644	384	1028
	065-17	691	252	943
SBT066	066-01	745	584	1329
	066-02	661	328	989
	066-03	390	408	798
	066-04	359	404	763
	066-05	565	227	792
	066-06	755	502	1257
	066-07	662	466	1128
	066-08	1245	454	1699
	066-09	894	541	1435
	066-10	606	274	880
	066-11	829	337	1166
	066-12	499	265	764
	066-13	438	434	872
	066-14	557	324	881
	066-15	1065	371	1436
SBT067	067-01	622	532	1154
	067-02	1014	543	1557
	067-03	554	502	1056
	067-04	499	462	961
	067-05	1172	691	1863
	067-06	657	364	1021
	067-07	413	390	803
	067-08	517	499	1016
	067-09	874	405	1279
	067-10	1422	881	2303
	067-11	594	621	1215
	067-12	523	767	1290
	067-13	525	485	1010
	067-14	542	440	982
	067-15	400	252	652
SBT068	068-01	599	510	1109
	068-02	1175	265	1440
	068-03	512	402	914
	068-04	793	363	1156

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Drill	Sample	Nd ppm	Pr ppm	Nd+Pr
	068-05	653	353	1006
	068-06	438	226	664
	068-07	329	570	899
	068-08	643	287	930
	068-09	961	347	1308
	068-10	434	214	648
	068-11	648	718	1366
	068-12	739	347	1086
	068-13	1099	308	1407
	068-14	954	382	1336
	068-15	717	454	1171
	068-16	1066	387	1453
SBT069	069-01	510	231	741
	069-02	403	472	875
	069-03	391	241	632
	069-04	340	254	594
	069-05	380	358	738
	069-06	315	419	734
	069-07	403	373	776
	069-08	531	292	823
	069-09	748	556	1304
	069-10	322	237	559
	069-11	417	288	705
	069-12	762	368	1130
	069-13	657	506	1163
	069-14	464	441	905
SBT070	070-01	504	341	845
	070-02	316	348	664
	070-03	572	511	1083
	070-04	614	377	991
	070-05	1000	688	1688
	070-06	464	312	776
	070-07	434	295	729
	070-08	419	102	521
	070-09	464	461	925
	070-10	326	361	687
	070-11	414	268	682
	070-12	563	294	857
	070-13	871	496	1367
	070-14	385	477	862
	070-15	440	363	803
	070-16	678	354	1032
	070-17	361	351	712
	070-18	616	463	1079
SBT071	071-01	561	498	1059
	071-02	909	631	1540
	071-03	285	403	688
	071-04	560	336	896
	071-05	359	451	810
	071-06	393	337	730
	071-07	490	523	1013
	071-08	435	495	930
	071-09	614	418	1032
	071-10	898	309	1207
	071-11	313	378	691
	071-12	314	288	602
	071-13	670	426	1096
	071-14	697	488	1185
	071-15	260	200	460
	071-16	976	529	1505



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Drill	Sample		Nd ppm		Pr ppm		Nd+Pr
	071-17		293		250		543
	071-18		878		537		1415
SBT072	072-01		589		606		1195
	072-02		556		228		784
	072-03		641		453		1094
	072-04		362		170		532
	072-05		227		344		571
	072-06		580		379		959
	072-07		356		295		651
	072-08		483		586		1069
	072-09		395		329		724
	072-10		857		625		1482
	072-11		824		267		1091
	072-12		253		329		582
	072-13		522		423		945
	072-14		836		468		1304
	072-15		398		381		779
	072-16		444		184		628
	072-17		368		284		652
	072-18		443		437		880

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**JORC Code, 2012 Edition – Table 1 report template**

**Section 1 Sampling Techniques and Data**

(Criteria in this section apply to all succeeding sections.)

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Criteria	JORC Code explanation	Commentary
Sampling techniques	<ul style="list-style-type: none"> <li>Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report.</li> <li>In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.</li> </ul>	<ul style="list-style-type: none"> <li>The RC Aircore drilling program was undertaken by McLeod Drilling using industry standard air core drilling methods. To date, a total of 72 AC drill holes for 1,341m have been drilled at the Murraydium Project</li> <li>Drill spoil from each 1m from drill rig was collected in buckets in rows adjacent to the rig. An aluminium scoop was used to then sub-sample each spoil pile to create a 2-3kg 1m sample in a calico bag. A further smaller sample was collected with a spoon and placed in chip sample tray.</li> <li>All samples are submitted to Bureau Veritas Laboratories in Adelaide.</li> <li>At the laboratory, the samples are oven dried at 105 degrees for a minimum of 24 hours and secondary crushed to 10mm. The samples are submitted for analysis using ICP Scan (Mixed Acid Digest – Lithium Borate Fusion).</li> <li>Commercially obtained standards are inserted by the laboratory at a rate of ~ 1 in 15 into the sample.</li> </ul> <p><b>Preliminary pXRF analysis</b></p> <ul style="list-style-type: none"> <li>Preliminary assays were obtained using an OLYMPUS Delta XRF analyser. The pXRF was placed on the sample chips. One 3 beam, 30 second measurement was completed for each drill meter sample.</li> <li>The pXRF instrument is calibrated and serviced annually. Additionally, OREAS standards, appropriate to the style of mineralisation are routinely analysed to confirm performance. This procedure is in line with normal industry practice and deemed fit for the purpose for preliminary analysis in first pass exploration drilling.</li> <li>This report relates to exploration results of a preliminary nature. Portable (pXRF) is a preliminary technique which will be superseded by laboratory analysis from samples submitted to Bureau Veritas Laboratories, when they become available.</li> </ul>



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Criteria	JORC Code explanation	Commentary
Drilling techniques	<ul style="list-style-type: none"> <li>Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).</li> </ul>	<ul style="list-style-type: none"> <li>LNR has completed air-core drilling, an industry standard technique.</li> <li>McLeod Drilling used a Toyota Land air core rig and support vehicle for the Aircore drilling.</li> <li>All drill holes were 3 inches in diameter.</li> <li>Aircore drill rods used were 3m long.</li> <li>AC drilling employed rotary blade type bit, with compressed air returning the chip samples through a reverse circulation up the innertube to a cyclone for sampling.</li> <li>All Aircore drillholes were vertical with depths varying between 11m and 30m depths.</li> </ul>
Drill sample recovery	<ul style="list-style-type: none"> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> <li>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</li> </ul>	<ul style="list-style-type: none"> <li>No water was encountered during the drilling process, all drill samples were dry samples.</li> <li>Sample recovery is expected to have minimal negative impact on the sample representativity. No significant losses of samples were observed due to the shallow drilling depths (≤30m)</li> <li>Samples weights were not measured or weighed due to the preliminary nature of the project at the time of drilling.</li> <li>Drilling was undertaken using a 'best practise' approach to achieve maximum sample recovery and quality through the mineralised zones.</li> <li>Drill spoil from each 1m from drill rig was collected in buckets in rows adjacent to the rig. An aluminium scoop was used to then sub-sample each spoil pile to create a 2-3kg 1m sample in a calico bag. A further smaller sample was collected with a spoon and placed in chip sample tray.</li> <li>Best practise sampling procedure included: suitable usage of dust suppression, suitable shroud, lifting off bottom between each metre, cleaning of sampling equipment, ensuring a dry sample and suitable supervision by the supervising geologist to ensure good sample quality.</li> <li>At this stage, no known bias occurs between sample recovery and grade.</li> </ul>

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Logging	<ul style="list-style-type: none"> <li>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	<ul style="list-style-type: none"> <li>AC chips were logged by a qualified geologist with sufficient experience in the geological terrane and relevant styles of mineralisation using an industry standard logging system which could eventually be utilised within a Mineral Resource Estimation.</li> <li>Lithology, mineralisation, alteration, veining, weathering and structure were all recorded digitally.</li> <li>Chips for each metre were stored in chip trays for preservation and future reference and XRF analysis.</li> <li>Logging is qualitative, quantitative or semi-quantitative in nature. Every drill hole was logged in full and logging was undertaken with reference to a drilling template with codes prescribed and guidance to ensure consistent and systematic data collection.</li> </ul>
Sub-sampling techniques and sample preparation	<ul style="list-style-type: none"> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> <li>Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.</li> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	<ul style="list-style-type: none"> <li>Single metre samples were collected from the drill spoil using a 'scoop'.</li> <li>Scoop sampling was carried out by contract field assistant. The scoop samples were collected by taking a cross section of the drill spoil, to ensure a representative sample of the full 1m sample was collected.</li> <li>The Competent Person considers scoop sampling acceptable method for representative sample given the low natural inherent variability of the mineralisation.</li> <li>Sample preparation is to be carried out by Bureau Veritas Laboratories.</li> <li>Drill spoil from each 1m from drill rig was collected in buckets in rows adjacent to the rig. An aluminium scoop was used to then sub-sample each spoil pile to create a 2-3kg 1m sample in a calico bag. A further smaller sample was collected with a spoon and placed in chip sample tray.</li> </ul>
Quality of assay data and laboratory tests	<ul style="list-style-type: none"> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</li> <li>Nature of quality control procedures</li> </ul>	<p><b>Laboratory Analysis</b></p> <ul style="list-style-type: none"> <li>ICP Scan (Mixed Acid Digest – Lithium Borate Fusion) is considered appropriate for REE determination.</li> <li>Samples are digested using a mixed acid digest and also fused with Lithium Borate to ensure all elements are brought into solution. The digests are then analysed for the following elements in ppm: Ag, Ca, Cu, Gd, Li, Nb, Rb, Si, Te, V, Al, Cd, Dy, Hf, Lu, Nd, Re, Sm, Th, W, As, Ce, Er, Ho, Mg, Ni, S, Sn, Ti, Y, Ba, Co, Eu, Ln, Mn, P, Sb, Sr, TL, Zn, Be, Cr, Fe, K, Mo, Pb, Sc, Ta, Tm, Zr, Bi, Cs, Ga, La, Na, Pr, Se, Tb, U, Yb.</li> </ul>

Criteria	JORC Code explanation	Commentary
	<i>adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.</i>	
Verification of sampling and assaying	<ul style="list-style-type: none"> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data.</li> </ul>	<ul style="list-style-type: none"> <li>Logging and sampling were recorded directly into a logging system, verified and eventually stored in an offsite database.</li> <li>Significant intersections are inspected by senior consultant personnel.</li> <li>No twinned holes have been drilled at this time.</li> <li>No adjustments to any assay data have been undertaken.</li> </ul>
Location of data points	<ul style="list-style-type: none"> <li>Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</li> <li>Specification of the grid system used.</li> <li>Quality and adequacy of topographic control.</li> </ul>	<ul style="list-style-type: none"> <li>Collar position was recorded using a Garmin handheld GPS which has an accuracy of +/- 5m.</li> <li>GDA2020_MGA_Zone_54 is the grid format for all xyz data reported.</li> <li>No downhole surveys have been completed – all holes are vertical and shallow.</li> </ul>
Data spacing and distribution	<ul style="list-style-type: none"> <li>Data spacing for reporting of Exploration Results.</li> <li>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</li> <li>Whether sample compositing has been applied.</li> </ul>	<ul style="list-style-type: none"> <li>The drillhole spacing for the program is suitable as a 'first pass' for establishing a general trend of grade continuity for REE..</li> <li>See drill table for hole positions.</li> <li>Data spacing at this stage is not suitable for Mineral Resource Estimation.</li> </ul>
Orientation of data in relation to geological structure	<ul style="list-style-type: none"> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.</li> </ul>	<ul style="list-style-type: none"> <li>Vertical drilling generally achieved a very high angle of intercept with the flat lying, stratabound mineralisation.</li> <li>No sample bias is known at this time.</li> </ul>
Sample security	<ul style="list-style-type: none"> <li>The measures taken to ensure sample security.</li> </ul>	<ul style="list-style-type: none"> <li>All geochemical samples were collected, bagged, and sealed by competent exploration contractor and delivered to Bureau Veritas Laboratories in Adelaide.</li> </ul>
Audits or	<ul style="list-style-type: none"> <li>The results of any audits or reviews of</li> </ul>	The program is continuously reviewed by senior

Criteria	JORC Code explanation	Commentary
reviews	sampling techniques and data.	company personnel.

## Section 2 Reporting of Exploration Results

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	<ul style="list-style-type: none"> <li>Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</li> <li>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</li> </ul>	<p>Lanthanein Resources Ltd entered into a conditional agreement to acquire all of the shares in Southern Rare Earths Pty Ltd (SRE) which holds the granted exploration licences in the South East of South Australia. The acquisition was completed on 16 September 2021.</p> <ul style="list-style-type: none"> <li>The Murraydium Project consists of 1 granted Exploration Licence EL6717.</li> <li>All tenements are 100% owned by Southern Rare Earths.</li> </ul>
Exploration done by other parties	<ul style="list-style-type: none"> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	<ul style="list-style-type: none"> <li>There has been limited drilling for mineral sands by Iluka Resources along existing roads and tracks in 2002 and Australian Desalinated Water Pty Ltd in 2013.</li> </ul>
Geology	<ul style="list-style-type: none"> <li>Deposit type, geological setting and style of mineralisation.</li> </ul>	<ul style="list-style-type: none"> <li>The project area forms part of an extensive Tertiary strand plain comprising a series of sandstone-dominant fluvial and beach-dune strand complexes. The sand units commonly form undulating sand ridges interspersed with low lying areas of clay, mud and sand.</li> <li>The neighboring Koppamura Deposit of REE-bearing clays that contain the Yellow Tail and Red Tail deposits occurs within the lower part of the Loxton-Parilla Sand unit. The Loxton-Parilla Sand is a very extensive unit widely distributed across the southern Murray Basin. Extensive areas of Loxton-Parilla Sand are exposed at surface within the Bordertown Block where it typically forms rolling terrain of low sandy hills and ridges</li> </ul>
Drill hole Information	<ul style="list-style-type: none"> <li>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: <ul style="list-style-type: none"> <li>easting and northing of the drill hole collar</li> <li>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</li> <li>dip and azimuth of the hole</li> <li>down hole length and interception</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>An overview of the drilling program is given within the text within this document.</li> </ul>

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	<p>depth</p> <ul style="list-style-type: none"> <li>o hole length.</li> <li>• If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.</li> </ul>	
Data aggregation methods	<ul style="list-style-type: none"> <li>• In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.</li> <li>• Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.</li> <li>• The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	<ul style="list-style-type: none"> <li>• pXRF readings conducted on the sample on the chip trays are reported.</li> </ul>
Relationship between mineralisation widths and intercept lengths	<ul style="list-style-type: none"> <li>• These relationships are particularly important in the reporting of Exploration Results.</li> <li>• If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> <li>• If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').</li> </ul>	<ul style="list-style-type: none"> <li>• Drillhole angle relative to mineralisation has been almost perpendicular, with vertical drillholes through the flat horizontal mineralisation related to the regolith. Generally, the stratabound intercepts are close to true width.</li> </ul>
Diagrams	<ul style="list-style-type: none"> <li>• Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.</li> </ul>	<ul style="list-style-type: none"> <li>• Refer to figures within this report.</li> </ul>
Balanced reporting	<ul style="list-style-type: none"> <li>• Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</li> </ul>	<ul style="list-style-type: none"> <li>• The accompanying document is a balanced report with a suitable cautionary note.</li> </ul>
Other substantive exploration	<ul style="list-style-type: none"> <li>• Other exploration data, if meaningful and material, should be reported including (but not limited to):</li> </ul>	<p>All material results are reported in this release.</p>



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data	<i>geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</i>	
Further work	<ul style="list-style-type: none"> <li><i>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</i></li> <li><i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i></li> </ul>	<p>Additional AC drilling</p> <p>Metallurgical test work</p> <p>Resource Modelling</p>

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