

## ANNOUNCEMENT

11 SEPTEMBER 2024

### SYBELLA RARE EARTH DISCOVERY STEP-OUT DRILLING CONFIRMS VAST RESOURCE POTENTIAL

Assay results from step-out drilling over an 8 kilometre by 3 kilometre portion of the rare earth enriched Sybella granite have confirmed its impressively large tonnage potential extending from surface. Infill drilling of the higher-grade zones is now the priority.

#### KEY RESULTS AND IMPLICATIONS:

- Assays reveal multiple, long intercepts of magnet rare earth oxide (MREO) mineralisation (neodymium, praseodymium, dysprosium and terbium) with many starting at surface and ending in mineralisation.
- Two wide parallel zones of significant strike length have been outlined with mineralisation from surface grading between 340-400 ppm MREO. Both zones can confidently be extended beyond 120 metres in depth.
- The ***Eastern Zone*** extends for over 4.8 kilometres along strike and is up to 1.5 kilometres wide. It covers an interpreted **surface area of at least 3.6 square kilometres** and appears to remain open to the southeast.
- The parallel ***Western Zone*** is 7.2 kilometres long and varies from about 400 metres to over 1.6 kilometres wide. It covers an interpreted **surface area of about 7.6 square kilometres**.
- Importantly, both zones show scope for more localised, wide intervals of higher-grade near surface mineralisation which will be targeted for infill drilling and further metallurgical studies.
- New drill data from the 108 step out drill holes and previous drill results have been forwarded to consultants to quantify the resource potential.
- Heritage surveying ahead of planned infill drilling is scheduled for September.

Our Sybella rare earth oxide (REO) discovery is unique being a granite-hosted deposit type. It offers very large tonnage potential and is well located just 20 kilometres from the city of Mt Isa. Early-stage drilling, metallurgical and comminution studies have added to our confidence that a low-cost, low-capital, heap leach processing option may prove feasible.

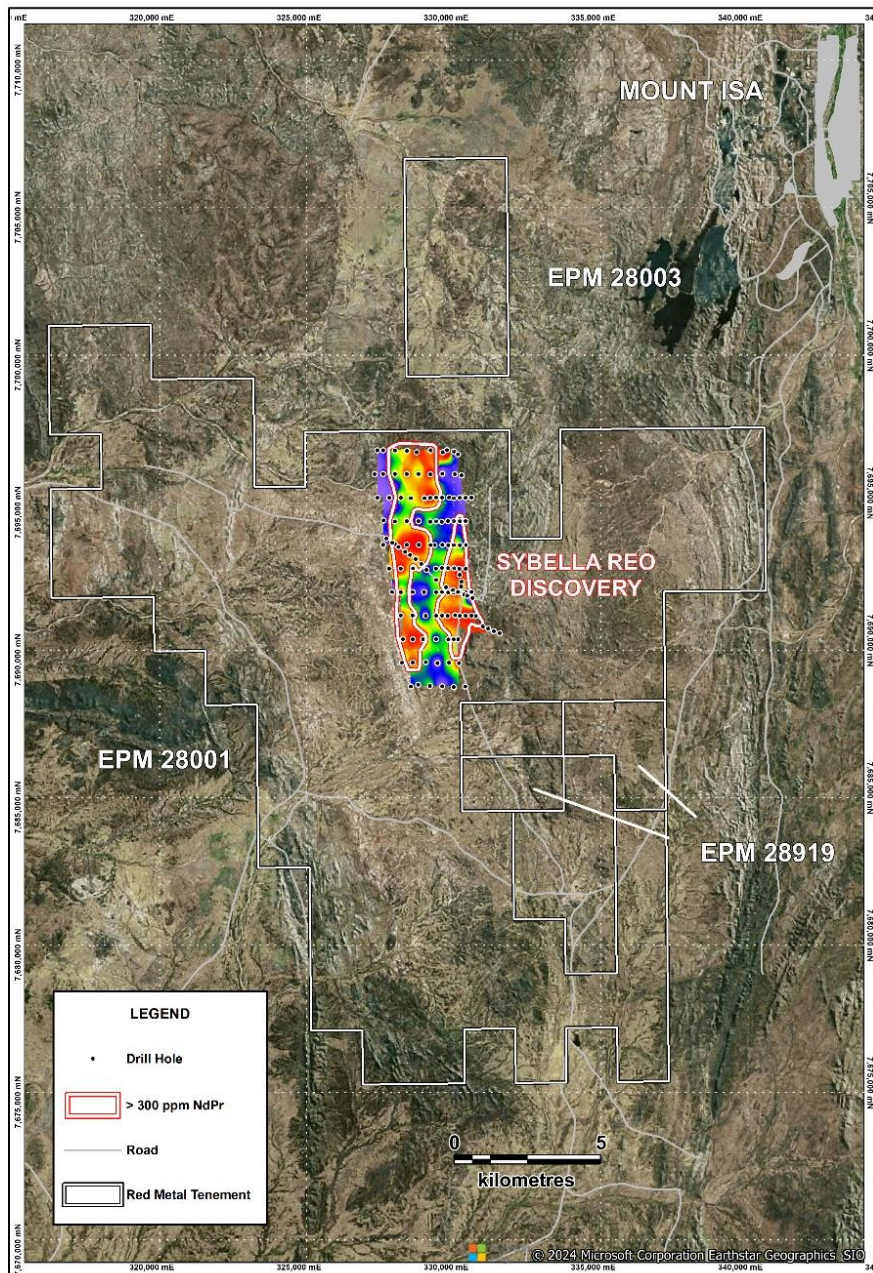
**Managing Director Rob Rutherford said:**

*“Step-out drilling has successfully confirmed Sybella’s vast size potential and most importantly, it has shown opportunity for wide shallow zones of higher-grade mineralisation where potential starter pits could be initiated.*

*This drilling together with our positive early-stage metallurgical test work has enhanced the potential for a bulk tonnage heap leach opportunity at Sybella.*

*Preparations for infill drilling this season are underway and we look forward to announcing results from more detailed assessments on this exciting new drill data in the months ahead”.*

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[Figure 1] Sybella Project: Red Metal drill hole locations (black dots) on satellite imagery overlain by a colour image of the average grade of NdPr oxide to 60 metre down-hole (refer to Figure 3).

### Step-Out Drill Program

Step-out drilling over an 8 kilometre by 3 kilometre portion of the rare earth enriched Sybella granite was recently completed on 800 metre by 200 metre and 800 metre by 400 metres spacing with the aim of outlining the extent of the REO mineralisation and its resource potential (Figure 2). The 7451 metre air core and RC percussion program comprised 108 set depth angled drill holes mostly to 60 metres. Several localised deeper holes extended to between 120 and 240 metres. Samples were composited for analysis over an interval of six metres down each drill hole.

### Grade

Assays from the drilling have delivered multiple, long intercepts of Magnet Rare Earth Oxide (MREO) mineralisation (neodymium, praseodymium, dysprosium plus terbium) hosted within the granite intrusion with many starting at surface and ending in mineralisation (Table 1).

Cross section grade interpretations highlighting the plus 300 ppm neodymium plus praseodymium oxide (NdPr) values reveal two separate, laterally continuous zones of mineralisation within the granite body broadly located near its eastern and western margins (Figures 6 to 8).

The average NdPr grade from surface to 60 metres down-hole is presented thematically in Figure 3. The associated dysprosium plus terbium (DyTb) grade over a similar interval is presented thematically in Figure 4. The average NdPr grade from surface to 30 metres down-hole is also presented thematically in Figure 5 highlighting higher-grade near surface mineralisation which has priority.

Total magnet rare earths within the eastern and western zones generally range from 340-400 ppm MREO (Table 1) comprising about 320-360 ppm NdPr and 20-40 ppm of the higher-value critical heavy rare earth oxides DyTb.

### Volume

The interpreted shallower portion of the ***Eastern Zone***, where successful proof-of-concept metallurgical work has been focused, starts at surface and extends for over 4.8 kilometers along strike and is up to 1.5 kilometres wide (Figures 2 to 5). This zone covers an interpreted **surface area of at least 3.6 square kilometres** and appears to remain open towards the southeast (Figure 3).

Drill holes SBAC080, SBRC023 and SBRC048 intersected wide intervals of plus 300 ppm NdPr mineralisation to 120 metres, 180 metres and 240 metres down-hole highlighting the Eastern Zones significant vertical continuity (Figures 6 and 8).

The interpreted shallow portion of the ***Western Zone*** also starts at surface and extends for over 7.2 kilometres of strike and varies from about 400 metres to over 1.6 kilometres wide (Figures 2 to 5). This interpreted zone covers a **surface area of about 7.6 square kilometre**.

Within the Western Zone, widely spaced deeper drill holes SBRC001, SBRC006, SBRC007, SBRC048, SBRC057, SBRC092 and SBRC121 intersected broad intervals of > 300 ppm NdPr mineralisation to 120 metres down-hole underlining its significant vertical continuity (Figures 6 to 8).

The very large surface areas from both zones can be confidently extended to depths of at least 120 metres down-hole highlighting the substantial volume and tonnage potential of Sybella.

### Weathered Rock

Preliminary metallurgical test work is showing differing processing options between the more weathered granite and the less weathered and fresh granite (refer ASX: RDM announcement dated 3 June 2024). The depth to this metallurgical boundary defined by the base of the lower saprolite interval (Figures 6 to 8) is shown thematically in Figure 9 and ranges from about 20 to 30 metres within the Eastern Zone and 10 to 20 metres over the Western Zone. Depth to fresh rock across these zones (Figures 6 to 8) is also shown thematically in Figure 10.

Potentially rippable strongly weathered granite defined by the depth of blade-bit refusal during air core drilling extends to about 10-15 metres and is presented thematically in Figure 11.

### **Specific Gravity**

Comminution test work by JKteck on granite core samples from the Eastern Zone returned a specific gravity of 2.6 for tests on both the partially weathered and fresh samples (refer Table 3 in ASX: RDM announcement dated 3 June 2023).

### **Higher Grade Zones**

Importantly, both the Western Zone and Eastern Zone show scope for wide intervals of higher-grade MREO mineralisation located at or near to surface (Table 1, Figures 5 to 8) which provide a focus for future infill drilling and detailed metallurgical studies. Although subject to further test work these areas may offer potential for early development.

### **Ongoing Work**

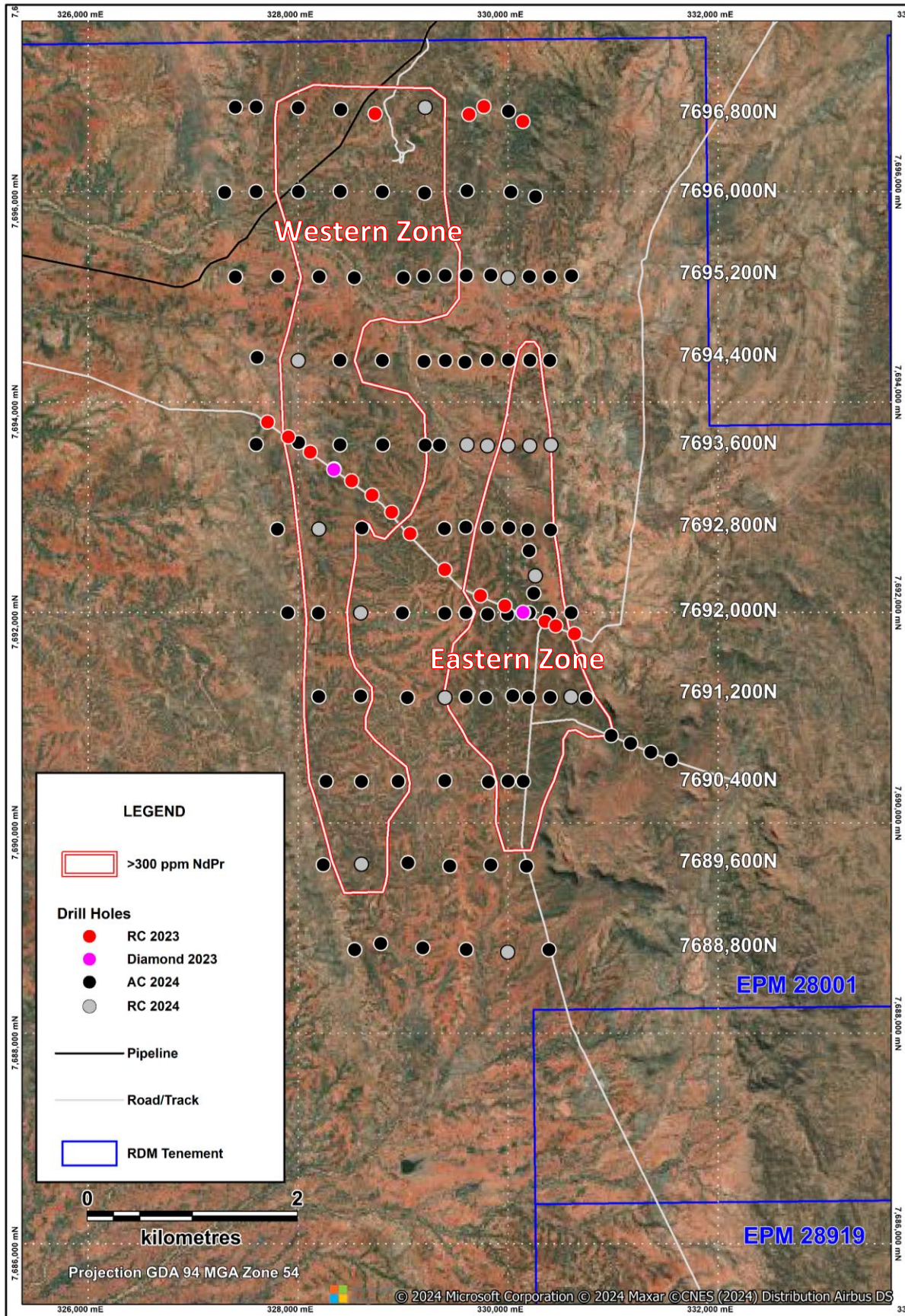
The new assay data has been forwarded to consultants to quantify the resource potential and advise on the required infill drill spacing.

More focused infill drilling will enable targeted metallurgical test work and facilitate early-stage mining studies. Heritage surveying ahead of the proposed infill drilling is underway.

The additional bottle roll and column leach tests using weak sulphuric acid over extended residence times are progressing.



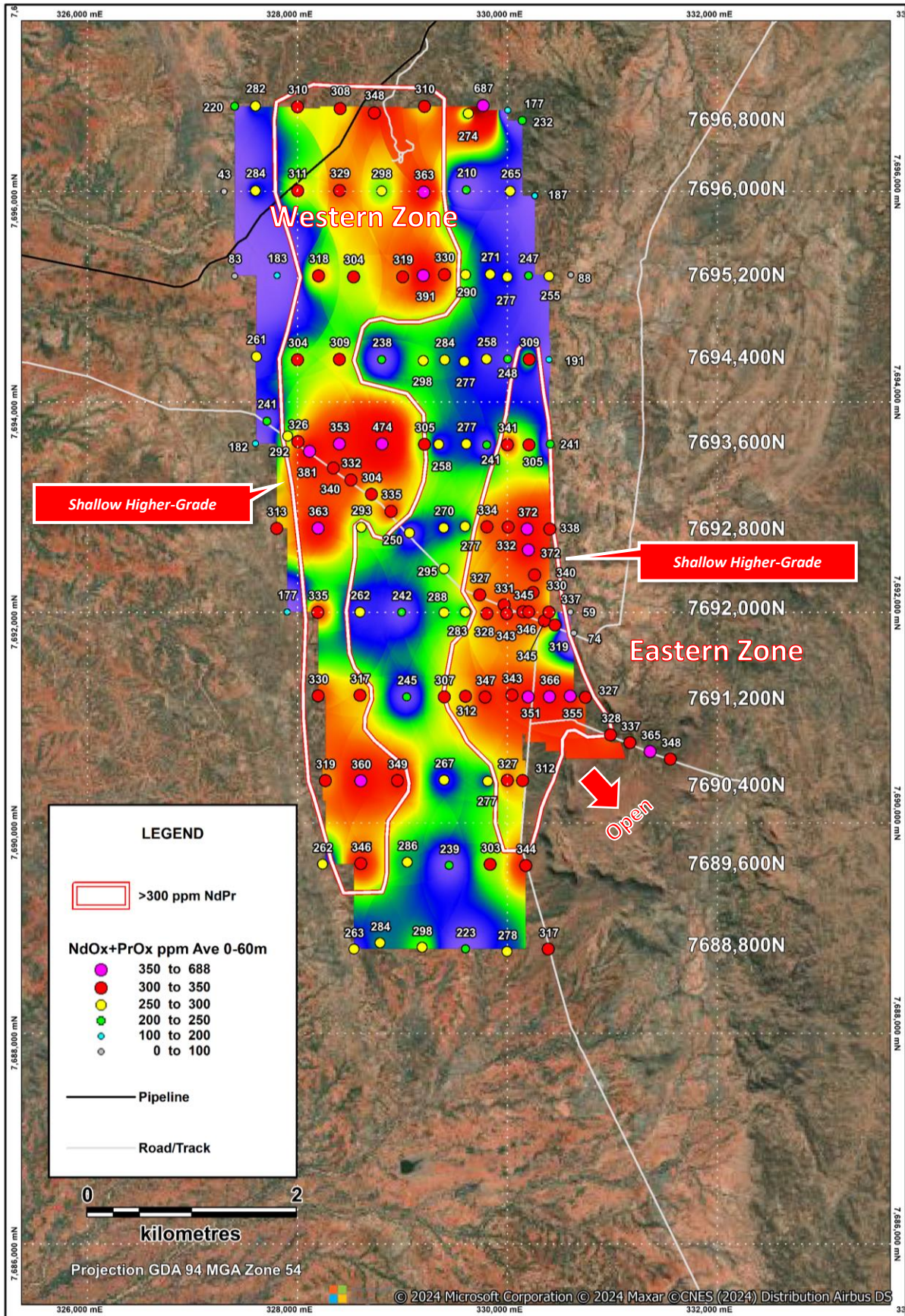
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[Figure 2] Sybella Project: Drill hole locations and drill hole type on satellite image highlighting wide zones of near to surface >300 ppm NdPr oxide (white/red line) with end of hole depth posted by the hole collar.



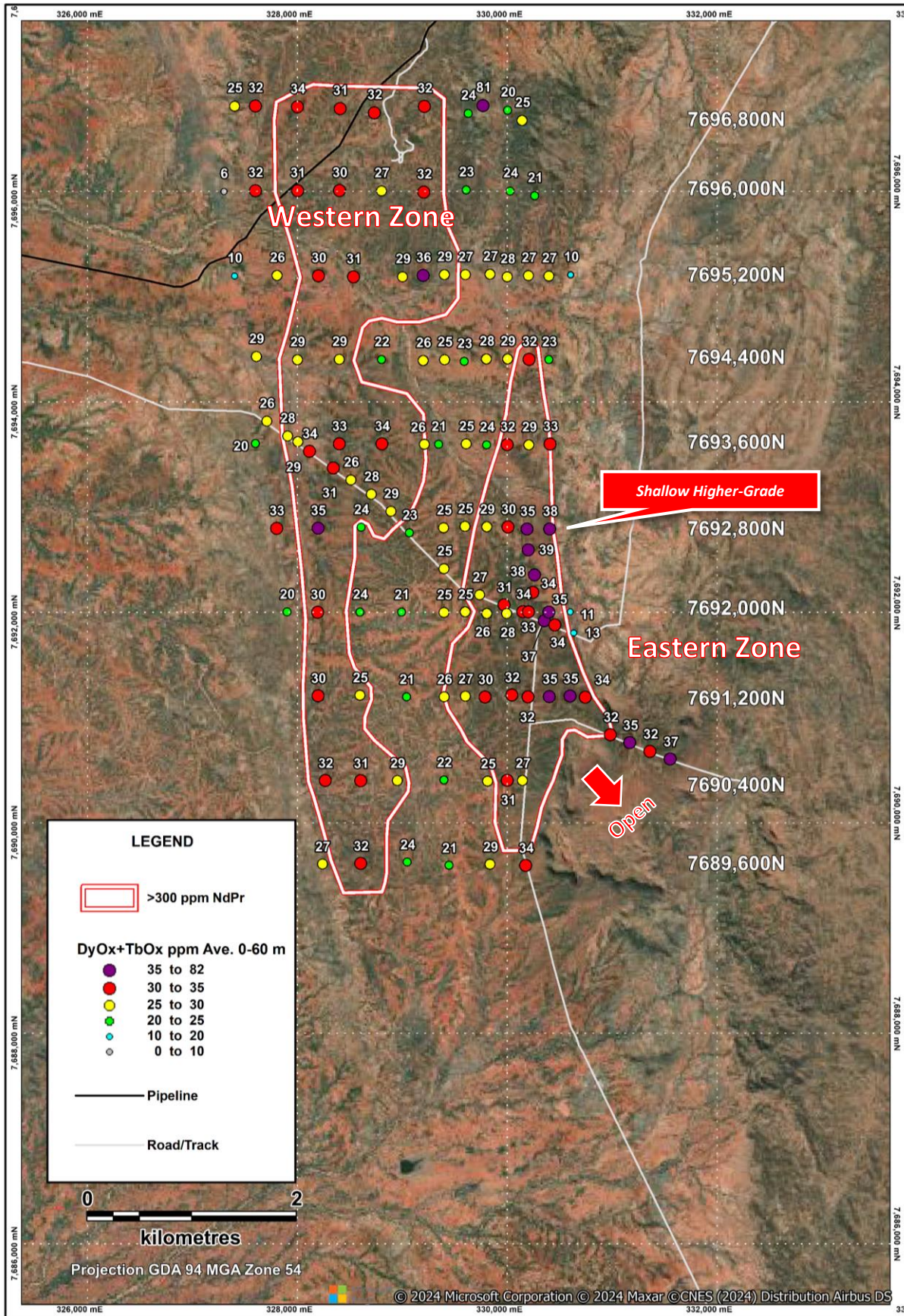
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[Figure 3] Sybella Project: Drill hole locations on satellite image highlighting wide zones of near to surface >300 ppm NdPr oxide (white/red line) overlain by thematic plot and grid image showing average grade of NdPr oxide to 60 metre down-hole with value posted by the hole collar.



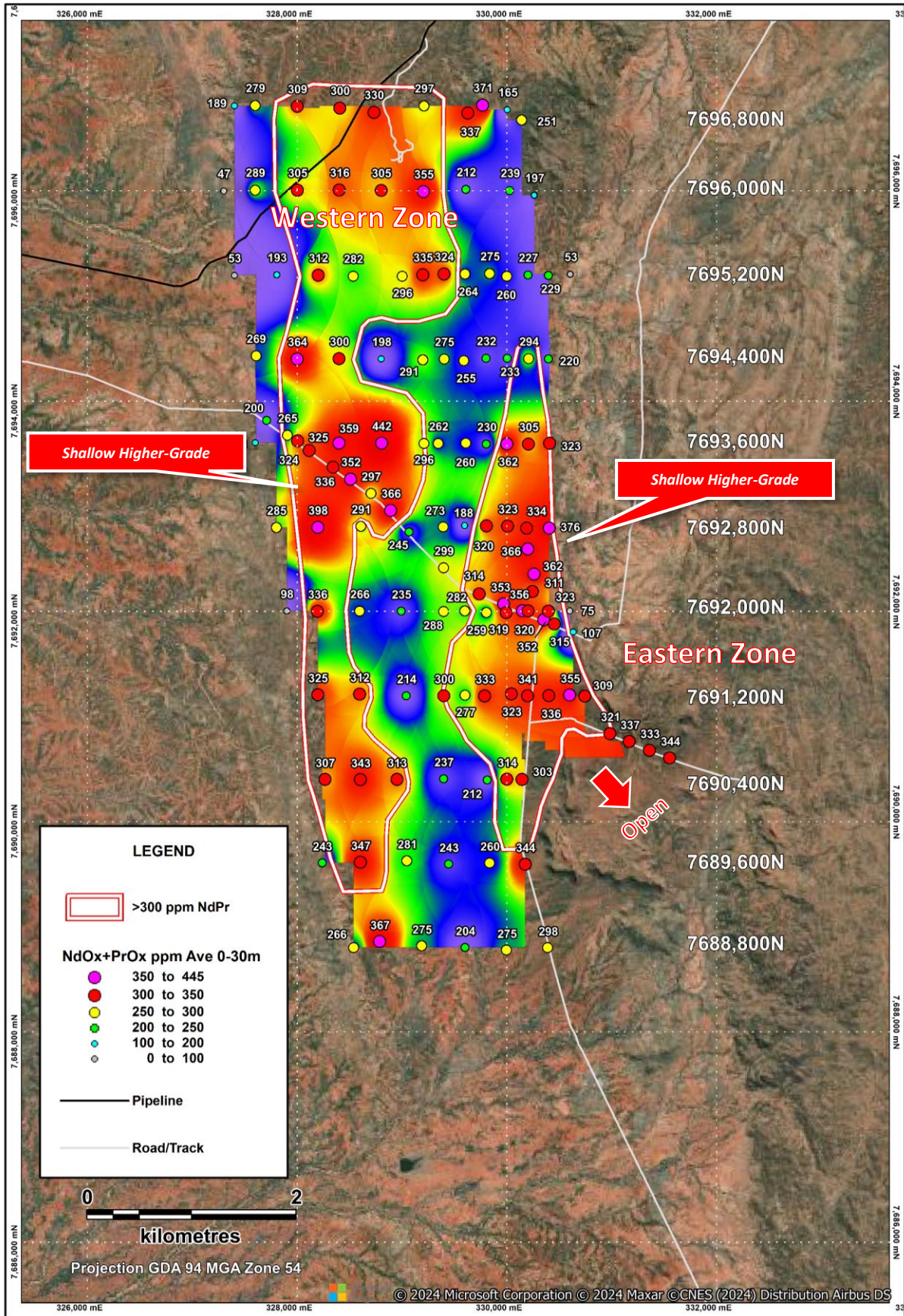
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[Figure 4] Sybella Project: Drill hole locations on satellite image highlighting wide zones of near to surface >300 ppm NdPr oxide (white/red line) overlain by thematic plot and grid image showing average grade of DyTb oxide to 60 metre down-hole with value posted by the hole collar.



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[Figure 5] Sybella Project: Drill hole locations on satellite image highlighting wide zones of near to surface >300 ppm NdPr oxide (white/red line) overlain by thematic plot and grid image showing average grade of NdPr oxide to 30 metre down-hole with value posted by the hole collar.



[Table 1] Sybella Project: Summary of REO assay results applying a 300 ppm NdPr cut to the data highlighting **wide intervals of higher-grade MREO mineralisation located at or near to surface** which provide a focus for future infill drilling and detailed metallurgical studies (refer to Appendix 2 for collar data and Appendix 3 for all REO assays).

Hole ID	From	To	Intercept	TREO ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	NdPr ppm	MREO	Zone	Section Northing
SBRC020	0	24	24	1747	73	257	38	6	222	331	375	Eastern	7,693,600
SBRC021	0	121 (EOH)	121	1670	72	241	29	5	163	313	346	Eastern	7,693,600
SBRC022	0	60 (EOH)	60	1707	78	258	26	5	152	336	367	Eastern	7,693,600
SBRC023	126	180 (EOH)	54	1850	85	283	28	5	152	368	401	Eastern	7,693,600
SBAC025	0	53	53	1924	81	289	34	6	200	370	410	Eastern	7,692,800
SBAC026	0	79 (EOH)	79	1878	81	289	29	5	171	370	404	Eastern	7,692,800
SBAC027	0	60 (EOH)	60	1705	72	260	26	5	146	332	363	Eastern	7,692,800
SBAC028	0	60 (EOH)	60	1695	74	260	24	4	136	334	362	Eastern	7,692,800
SBAC029	24	60 (EOH)	36	1676	76	252	26	5	142	329	360	Eastern	7,692,800
SBAC032	12	60 (EOH)	48	1642	73	239	22	4	118	312	338	Western	7,693,600
SBAC034	12	60 (EOH)	48	1723	77	253	29	5	162	330	364	Western	7,694,400
SBAC037	30	84	54	1550	79	237	21	4	133	307	341	Western	7,694,400
SBAC039	18	60 (EOH)	42	1570	71	234	23	4	128	305	332	Western	7,694,400
SBAC044	34	60 (EOH)	26	1688	82	268	27	5	148	350	382	Western	7,695,200
SBAC045	6	44	38	1758	80	259	25	4	143	339	368	Western	7,695,200
SBAC046	4	60 (EOH)	56	2251	103	330	31	5	169	433	469	Western	7,695,200
SBAC047	12	60 (EOH)	48	1765	79	257	27	5	150	336	368	Western	7,695,200
SBRC048	122	240 (EOH)	118	1671	70	252	29	5	164	322	356	Western	7,695,200
SBAC053	12	120 (EOH)	108	1746	78	255	25	5	148	332	363	Western	7,696,000
SBAC054	10	60 (EOH)	50	1806	81	263	26	5	154	344	376	Western	7,696,000
SBAC055	24	60 (EOH)	36	1709	78	246	26	4	148	324	354	Western	7,696,000
SBRC057	0	120 (EOH)	120	1648	71	239	26	5	149	310	341	Western	7,696,800
SBAC058	4	60 (EOH)	56	1744	75	252	27	5	152	327	359	Western	7,696,800
SBAC059	12	60 (EOH)	48	1731	73	244	29	5	157	317	351	Western	7,696,800
SBAC064	18	60 (EOH)	42	1692	74	248	28	5	158	322	355	Western	7,695,200
SBAC065	6	60 (EOH)	54	1685	72	251	26	4	143	323	353	Western	7,695,200
SBAC069	44	60 (EOH)	16	1942	83	272	26	5	148	355	386	Western	7,694,400

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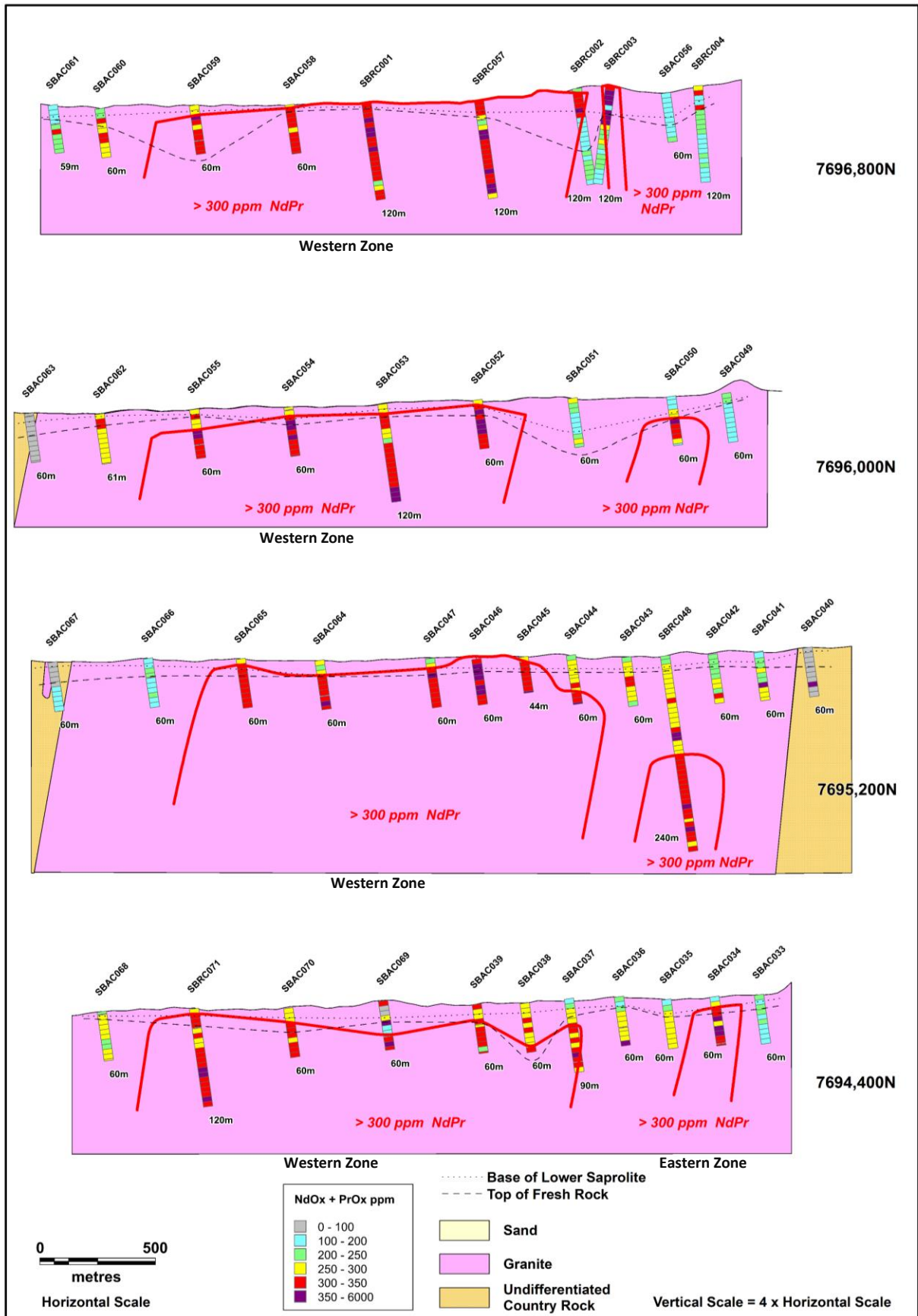
Hole ID	From	To	Intercept	TREO ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	NdPr ppm	MREO	Zone	Section Northing
SBAC070	18	60 (EOH)	42	1705	73	245	26	4	146	319	349	Western	7,694,400
SBRC071	6	120 (EOH)	114	1726	74	249	26	5	150	323	354	Western	7,694,400
SBAC072	0	60 (EOH)	60	2260	105	335	27	5	147	441	472	Western	7,693,600
SBAC073	0	60 (EOH)	60	1822	80	266	26	5	146	347	378	Western	7,693,600
SBAC075	12	60 (EOH)	48	1790	79	270	31	5	172	349	385	Eastern	7,692,000
SBAC076	18	60 (EOH)	42	1856	82	279	29	5	161	361	396	Eastern	7,692,000
SBAC077	10	60 (EOH)	50	1980	88	293	33	5	183	382	419	Eastern	7,692,573
SBRC078	0	116	116	1809	80	268	32	6	177	348	385	Eastern	7,692,593
SBAC079	6	60 (EOH)	54	1743	77	260	29	5	166	337	371	Eastern	7,692,190
SBAC081	0	60 (EOH)	60	1671	74	253	29	5	160	327	361	Eastern	7,691,200
SBAC082	0	60 (EOH)	60	1732	76	265	30	5	156	341	376	Eastern	7,691,200
SBRC083	0	120 (EOH)	120	1797	79	278	30	5	163	357	392	Eastern	7,691,200
SBAC084	0	60 (EOH)	60	1804	78	269	31	6	172	348	385	Eastern	7,690,605
SBAC085	0	60 (EOH)	60	1961	87	292	27	5	151	379	412	Eastern	7,690,762
SBAC086	6	60 (EOH)	54	1758	78	265	30	5	164	344	379	Eastern	7,690,762
SBAC087	8	60 (EOH)	52	1720	77	264	29	5	157	342	375	Eastern	7,690,837
SBAC089	6	60 (EOH)	54	1705	77	258	25	4	143	335	365	Western	7,693,600
SBAC090	12	52	40	1673	77	248	23	4	118	325	352	Western	7,692,800
SBRC092	0	120 (EOH)	120	1864	83	280	28	5	154	363	396	Western	7,692,800
SBAC093	6	60 (EOH)	54	1765	77	272	24	4	141	349	377	Eastern	7,692,000
SBAC094	0	60 (EOH)	60	1697	74	270	23	4	133	344	371	Eastern	7,692,000
SBAC098	0	60 (EOH)	60	1796	82	253	26	5	156	335	366	Western	7,692,000
SBAC101	6	60 (EOH)	54	1857	83	274	28	5	151	358	391	Eastern	7,691,200
SBAC102	0	60 (EOH)	60	1767	79	264	27	5	145	343	375	Eastern	7,691,200
SBAC103	0	60 (EOH)	60	1689	78	269	25	5	132	347	377	Eastern	7,691,200
SBAC104	30	60 (EOH)	30	1711	78	269	26	4	145	347	378	Eastern	7,691,200
SBAC106	0	60 (EOH)	60	1621	72	245	21	4	112	317	342	Eastern	7,691,200
SBAC107	0	60 (EOH)	60	1687	74	256	25	4	143	330	360	Western	7,691,200

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Hole ID	From	To	Intercept	TREO ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	NdPr ppm	MREO	Zone	Section Northing
SBRC108	18	120 (EOH)	102	1505	68	229	22	4	121	297	323	Western	7,691,200
SBAC109	8	60 (EOH)	52	1635	74	249	23	4	124	323	350	Eastern	7,690,400
SBAC110	18	60 (EOH)	42	1780	79	266	28	5	150	346	379	Eastern	7,690,400
SBAC111	24	60 (EOH)	36	1703	78	266	26	4	143	343	373	Eastern	7,690,400
SBAC112	40	60 (EOH)	20	1541	71	239	20	4	112	310	334	Eastern	7,690,400
SBAC113	6	60 (EOH)	54	1935	87	277	25	4	146	364	393	Western	7,690,400
SBAC114	0	60 (EOH)	60	1818	84	276	25	4	142	360	389	Western	7,690,400
SBAC115	6	60 (EOH)	54	1797	77	259	28	5	161	336	369	Western	7,690,400
SBAC116	12	60 (EOH)	48	1927	81	281	30	5	167	363	398	Eastern	7,689,600
SBAC117	34	60 (EOH)	26	1882	81	278	28	5	156	359	392	Eastern	7,689,600
SBAC120	42	60 (EOH)	18	1787	75	267	31	5	193	342	378	Western	7,689,600
SBRC121	0	120 (EOH)	120	1843	83	277	27	5	150	360	392	Western	7,689,600
SBAC123	12	60 (EOH)	48	1651	75	254	28	4	151	328	361	Eastern	7,688,800
SBAC125	24	60 (EOH)	36	1563	72	239	24	4	127	311	338	Western	7,688,800
SBCA126	0	30	30	1890	86	280	28	4	153	367	399	Western	7,688,800

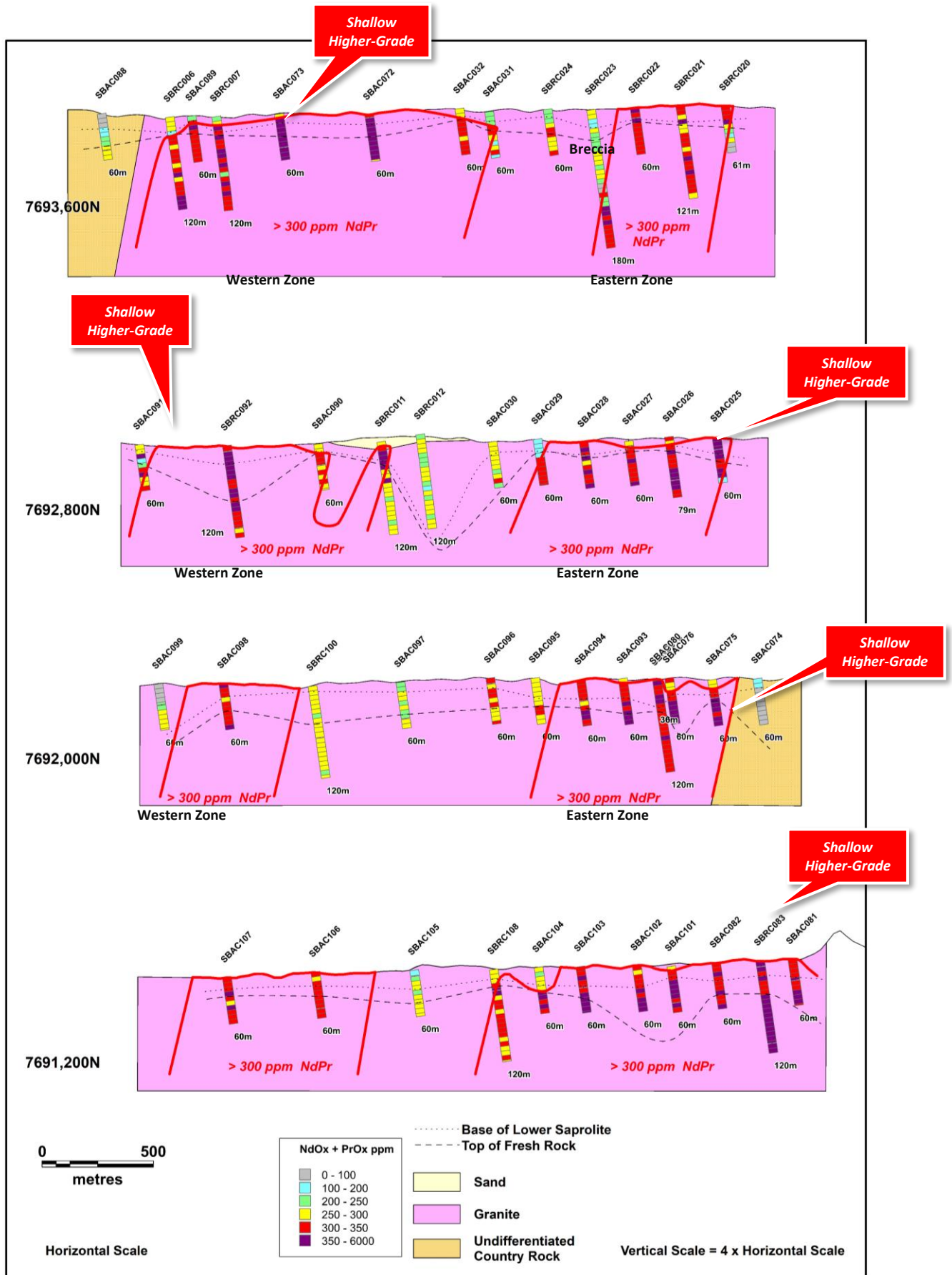
EOH = to the end of hole

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[Figure 6] Northern stacked drill sections showing variation in *NdPr oxide assay* values at depth and between drill lines in the granite.

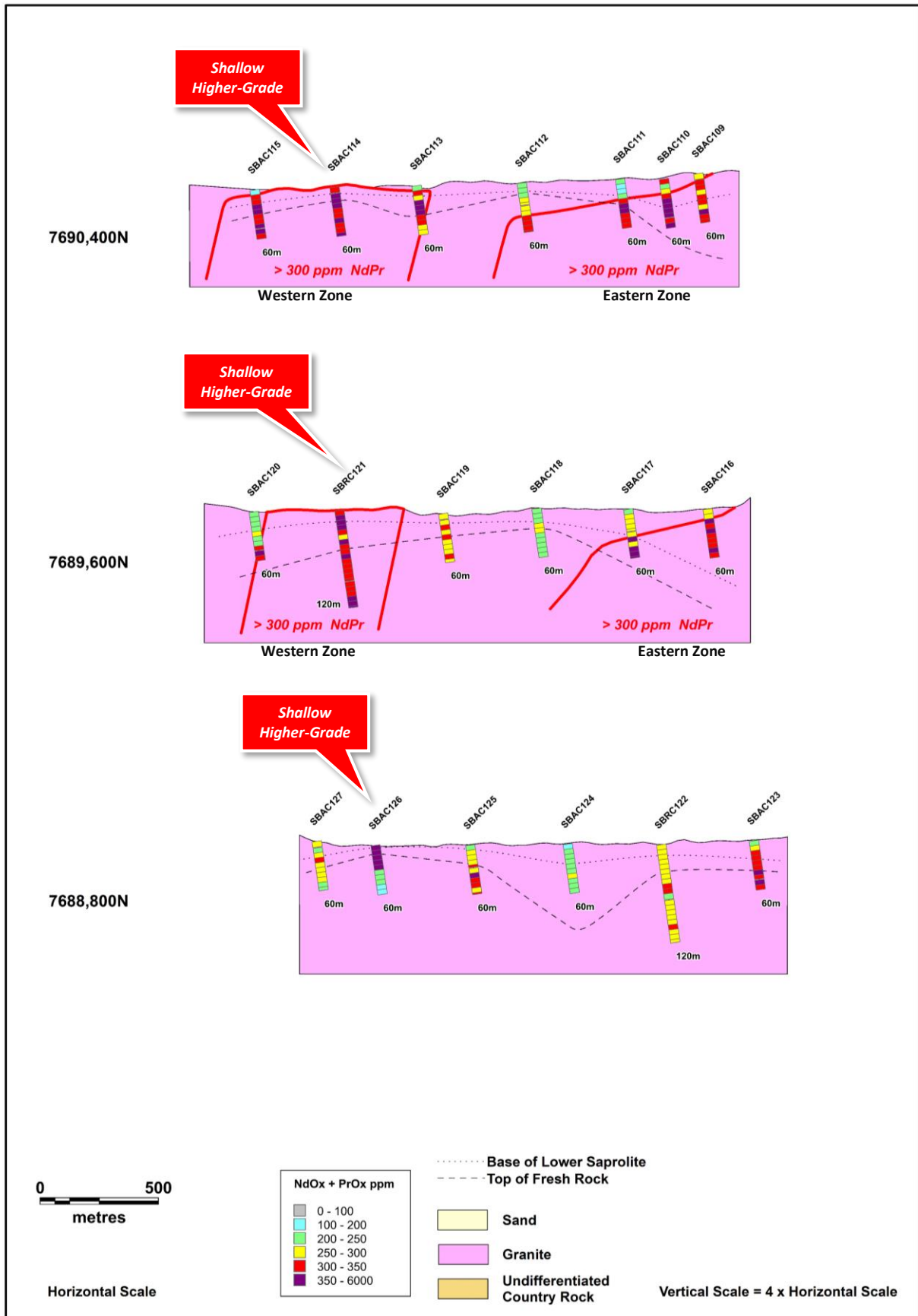




[Figure 7] Central stacked drill sections showing variation in **NdPr oxide assay** values at depth and between drill lines in the granite.

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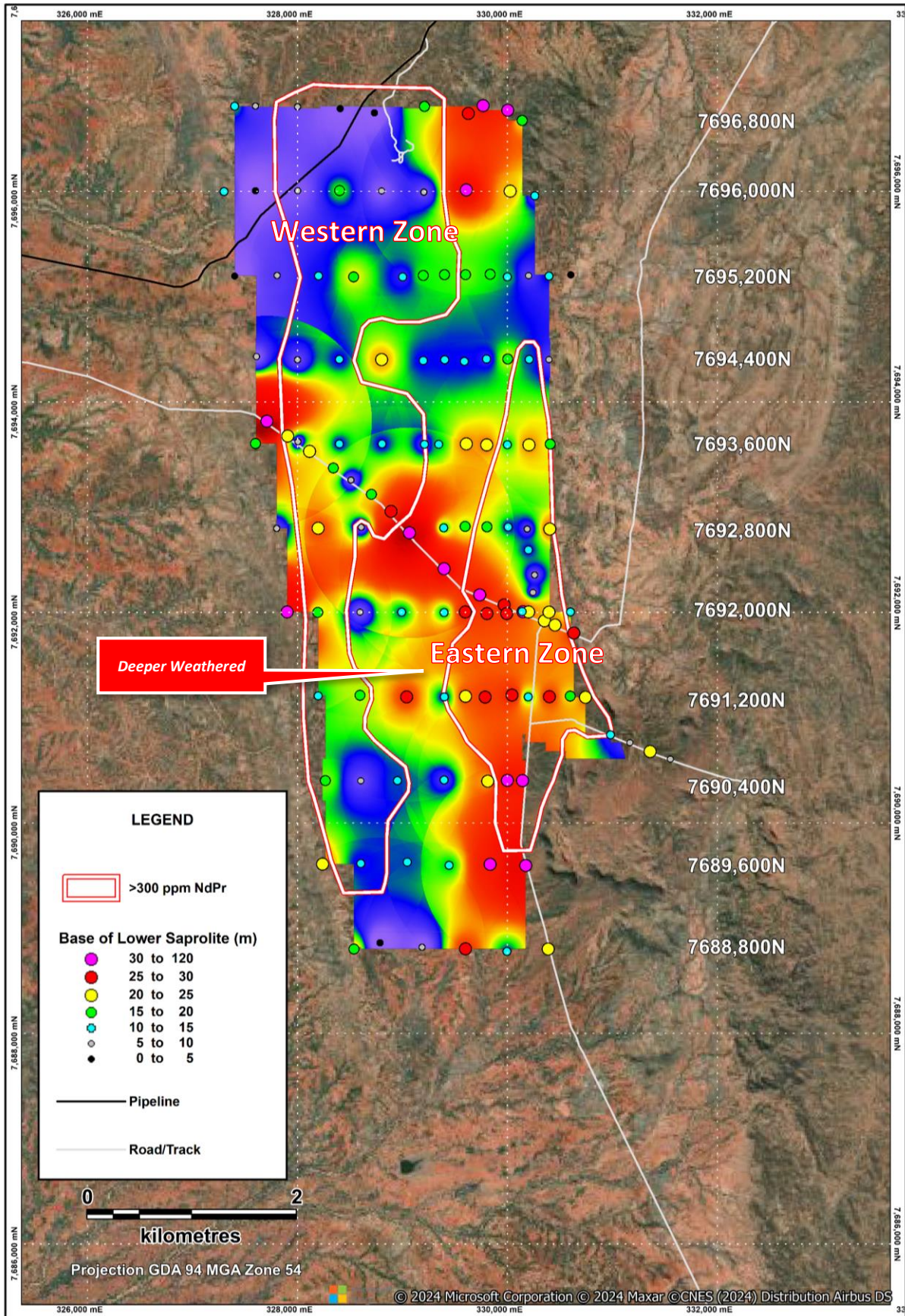
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[Figure 8] Southern stacked drill sections showing variation in **NdPr oxide assay** values at depth and between drill lines in the granite.



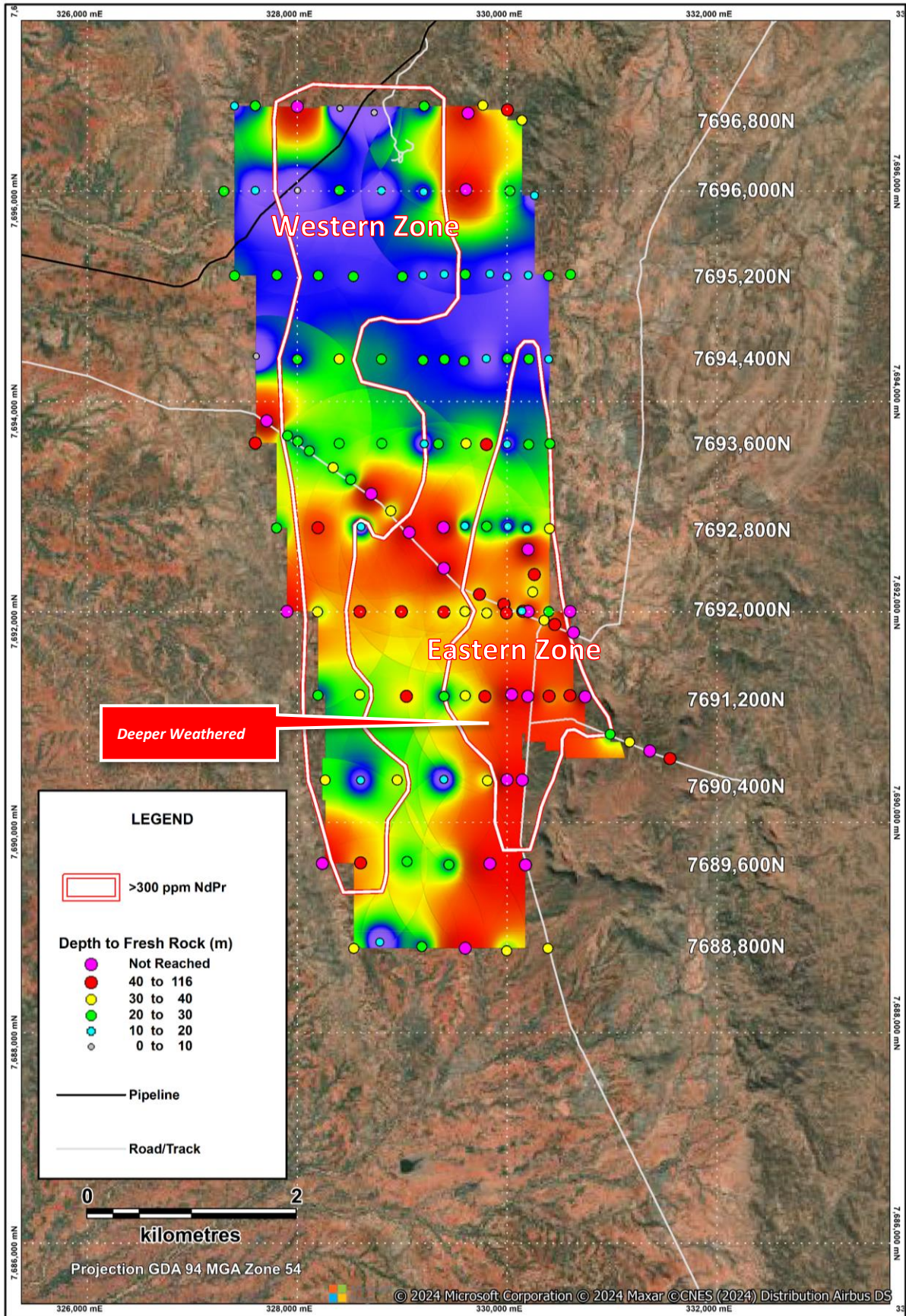
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[Figure 9] Sybella Project: Drill hole locations on satellite image highlighting wide zones of near to surface >300 ppm NdPr oxide (white/red line) overlain by thematic plot and grid image showing **depth to the base of the lower saprolite boundary**.



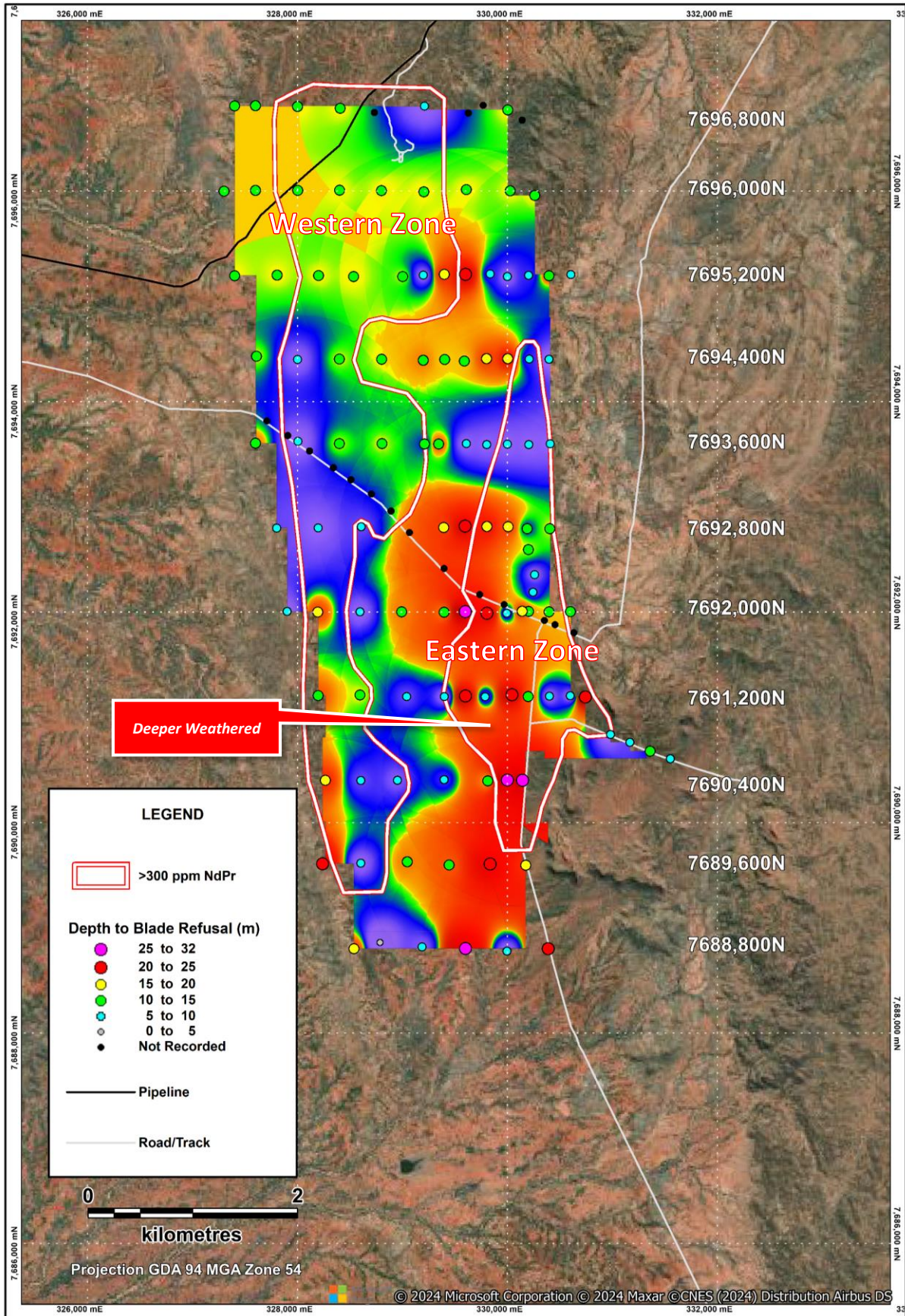
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[Figure 10] Sybella Project: Drill hole locations on satellite image highlighting wide zones of near to surface >300 ppm NdPr oxide (white/red line) overlain by thematic plot and grid image showing **depth to fresh rock boundary**.



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[Figure 11] Sybella Project: Drill hole locations on satellite image highlighting wide zones of near to surface >300 ppm NdPr oxide (white/red line) overlain by thematic plot and grid image showing depth to air core blade-bit refusal.

This announcement was authorised by the Board of Red Metal. For further information concerning Red Metal's operations and plans for the future please refer to the recently updated web site or contact Rob Rutherford, Managing Director at:

Phone +61 (0)2 9281-1805  
www.redmetal.com.au



Rob Rutherford  
Managing Director



Russell Barwick  
Chairman

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### Competent Persons Statement

The information in this report that relates to Exploration Results is based on and fairly represents information and supporting documentation compiled by Mr Robert Rutherford, who is a member of the Australian Institute of Geoscientists (AIG). Mr Rutherford is the Managing Director of the Company. Mr Rutherford has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (the JORC Code). Mr Rutherford consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

**Appendix 1: Table 1 Sybella Project - JORC 2012 sampling techniques and data**

Criteria	JORC 2012 Explanation	Commentary
<b>Sampling Techniques</b>	Nature and quality of sampling	<i>Step-out drilling over a 8 kilometre by 3 kilometre portion of the rare earth enriched Sybella granite was recently completed on 800 metre by 200 metre and 800 metre by 400 metres spacing with the aim of outlining the extent of the REO mineralisation and its resource potential. The 7451metre air core and RCP program comprised 108 set depth angled drill holes mostly to 60 metres with several localised deeper holes extended to between 120 and 240 metres. The drill collar coordinates are available in Appendix 2. The method of drilling is considered to be of an acceptable quality for evaluating the REO mineralisation within the granite and reporting of exploration results</i>
	Include reference to measures taken to ensure representativity samples and the appropriate calibration of any measurement tools or systems used.	<i>Sampling for geochemical analysis was continuous down the length of each hole with 1 sample collected every metre and composited over six metres for initial assay using a total acid digest. Locally compositing varied between 2-7 metres based on the hole depth and geology.</i>
	Aspects of the determination of mineralisation that are Material to the Public Report.	<i>1265 composite samples were submitted for analyses. Significant results are summarised in Table 1 of this report and assay results are tabulated in Appendix 3.</i>
<b>Drilling Technique</b>	Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. 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.).	<i>A truck mounted, multi-purpose air core / RCP rig was utilised from surface to end of hole. 93 air core holes (5649 metres) and 15 RCP holes (1802 metres) were drilled during this program. Air core was drilled to blade bit refusal then switched to an air core hammer bit and drilled to a set depth of about 60 metres. Face sampling blade and hammer air core bits were used at all times. Local deeper drill holes utilised an RC percussion drill set up from surface to the end of hole and also used a face bit.</i>  <i>The holes were surveyed using an Axis Champ north seeking gyro.</i>
<b>Drill Sample Recovery</b>	Method of recording and assessing core and chip sample recoveries and results assessed.	<i>Sample recoveries were visually estimated and recorded for each metre. Chip recovery overall was very good with most intervals logged as 100% recovery with local areas reduced to 60%.</i>
	Measures taken to maximise sample recovery and ensure representative nature of the samples.	<i>Depths are checked against depths marked on the sample bags and rod counts are routinely performed by the drillers.</i>
	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.	<i>No sample recovery bias is observed due to homogenous distribution of the REO mineralisation in the granite.</i>
<b>Logging</b>	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.	<i>Qualitative codes and descriptions were used to record geological data such as lithology, weathering, hardness prior to sampling.</i>
	Whether logging is qualitative or quantitative in nature.	
	Core photography	<i>Chip trays are photographed.</i>
	The total length and percentage of the relevant intersections logged.	<i>The total lengths of all holes have been geologically logged.</i>
<b>Sub-sampling techniques and sample preparation</b>	If core, whether cut or sawn and whether quarter, half or all core taken.	<i>No core was collected.</i>
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	<i>All composite pulp samples were prepared with standard crush then pulverisation techniques at ALS Mt Isa (methods SPL-21 / PUL-23). The composite method of sampling is considered appropriate for a homogeneous, disseminated granite-hosted ore type.</i>
	Quality control procedures adopted for all sub-sampling stages to maximise representativity of samples.	<i>Once results from the composites have been received, selected assaying of individual metre samples will be analysed to check representativity of the composite sampling method. Checks on representativity of composite sampling from the previous RC composite sampling for holes SBRC001 through SBRC019 proved very good.</i>

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Criteria	JORC 2012 Explanation	Commentary
	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.	<i>A total of 66 field duplicate samples were inserted through the assay batch at a rate of about 1 in 19 samples. The duplicates showed very good repeatability.</i>
	Whether sample sizes are appropriate to the grain size of the material being sampled.	<i>6 metre composite sampling is considered appropriate for REE minerals &lt;2mm grainsize evenly distributed throughout the granite. Check sampling using the one metre samples is planned.</i>
<b>Quality of assay data and laboratory tests</b>	The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.	<i>All 1265 composite samples were sent to ALS for analysis of REE's and other traces Ba Ce Cr Cs Dy Er Eu Ga Gd Hf Ho La Lu Nb Nd Pr Rb Sm Sn Sr Ta Tb Th Tm U V W Y Yb Zr using Method ME-MS81d that utilises lithium borate fusion prior to acid dissolution and ICP-MS analysis. This method provides the most quantitative analytical approach for a broad suite of trace elements including REE. For analyses of the major element oxides Zr Si Al Fe Ca Mg Na K Cr Ti Mn P Sr Ba method ME-ICP06 was utilised while LOI used method ME_GRAD.</i>
	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.	<i>No geophysical tools were used to report element concentrations at Sybella.</i>
	Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.	<i>A total of 60 blanks and 245 certified reference standards were inserted evenly throughout the assay batch. In addition to this, ALS has also included standard and blank materials to monitor the performance of the laboratory. The standards and blanks used displayed acceptable levels of accuracy and precision.</i>
<b>Verification of sampling and assaying</b>	The verification of significant intersections by either independent or alternative company personnel.	<i>Result reviewed by Exploration Manager and the Managing Director</i>
	The use of twinned holes.	<i>No holes have been twinned</i>
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	<i>Primary data is stored both in its source electronic form, and, where applicable, on paper. Assay data is retained in both the original certificate (.pdf) form, where available, and the text files received from the laboratory. Primary data was entered in the field into a portable logging device using standard drop-down codes. At this early stage, text data files are exported and stored in an Excel/Access database. MapInfo software is used to check and validate drill-hole data.</i>
	Discuss any adjustment to assay data.	<i>Rare earth elements are reported from ME-MS81 as the elemental concentration. The rare earth elements were converted to the industry standard rare earth oxide format using the conversion factors available below which are based on the molar mass of each rare earth oxide.</i>

Element	Conversion Factor	Oxide
La	1.1728	La <sub>2</sub> O <sub>3</sub>
Ce	1.2284	CeO <sub>2</sub>
Pr	1.2082	Pr <sub>6</sub> O <sub>11</sub>
Nd	1.1664	Nd <sub>2</sub> O <sub>3</sub>
Sm	1.1596	Sm <sub>2</sub> O <sub>3</sub>
Eu	1.1579	Eu <sub>2</sub> O <sub>3</sub>
Gd	1.1526	Gd <sub>2</sub> O <sub>3</sub>
Tb	1.1762	Tb <sub>4</sub> O <sub>7</sub>
Dy	1.1477	Dy <sub>2</sub> O <sub>3</sub>
Ho	1.1455	Ho <sub>2</sub> O <sub>3</sub>
Er	1.1435	Er <sub>2</sub> O <sub>3</sub>
Tm	1.1421	Tm <sub>2</sub> O <sub>3</sub>
Yb	1.1387	Yb <sub>2</sub> O <sub>3</sub>
Lu	1.1371	Lu <sub>2</sub> O <sub>3</sub>
Y	1.2699	Y <sub>2</sub> O <sub>3</sub>
Sc	1.5337	Sc <sub>2</sub> O <sub>3</sub>



Criteria	JORC 2012 Explanation	Commentary
		<p>Rare earth abbreviations typically used in industry reporting and throughout this report were in accordance with IUPAC guidelines, and were as follows:</p> <p><b>REE</b> - Rare Earth Elements, value presented as elemental assay.</p> <p><b>REO</b> - Rare Earth Oxides, value presented as oxide assay.</p> <p><b>TREE</b> - La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu plus Y and Sc.</p> <p><b>MREE</b> - Pr, Nd, Tb, Dy.</p> <p><b>LREE</b> - La, Ce, Pr, Nd and Sm.</p> <p><b>HREE</b> - Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu plus Y.</p> <p><b>TREO</b> - La<sub>2</sub>O<sub>3</sub>, CeO<sub>2</sub>, Pr<sub>6</sub>O<sub>11</sub>, Nd<sub>2</sub>O<sub>3</sub>, Sm<sub>2</sub>O<sub>3</sub>, Eu<sub>2</sub>O<sub>3</sub>, Gd<sub>2</sub>O<sub>3</sub>, Tb<sub>4</sub>O<sub>7</sub>, Dy<sub>2</sub>O<sub>3</sub>, Ho<sub>2</sub>O<sub>3</sub>, Er<sub>2</sub>O<sub>3</sub>, Tm<sub>2</sub>O<sub>3</sub>, Yb<sub>2</sub>O<sub>3</sub>, Lu<sub>2</sub>O<sub>3</sub> plus Y<sub>2</sub>O<sub>3</sub> and Sc<sub>2</sub>O<sub>3</sub></p> <p><b>MREO</b> - Pr<sub>6</sub>O<sub>11</sub>, Nd<sub>2</sub>O<sub>3</sub>, Tb<sub>4</sub>O<sub>7</sub>, Dy<sub>2</sub>O<sub>3</sub></p> <p><b>LREO</b> - La<sub>2</sub>O<sub>3</sub>, CeO<sub>2</sub>, Pr<sub>6</sub>O<sub>11</sub>, Nd<sub>2</sub>O<sub>3</sub>, Sm<sub>2</sub>O<sub>3</sub></p> <p><b>HREO</b> - Eu<sub>2</sub>O<sub>3</sub>, Gd<sub>2</sub>O<sub>3</sub>, Tb<sub>4</sub>O<sub>7</sub>, Dy<sub>2</sub>O<sub>3</sub>, Ho<sub>2</sub>O<sub>3</sub>, Er<sub>2</sub>O<sub>3</sub>, Tm<sub>2</sub>O<sub>3</sub>, Yb<sub>2</sub>O<sub>3</sub>, Lu<sub>2</sub>O<sub>3</sub> plus Y<sub>2</sub>O<sub>3</sub></p> <p><b>NdPr</b> - is the sum of the oxide values for neodymium and praseodymium.</p> <p><b>DyTb</b> - is the sum of the oxide values for dysprosium and terbium.</p>
<b>Location of data points</b>	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.	The collar positions were surveyed by Handheld GPS using GDA94, Zone54 datum. GPS locations are accurate to about 3m.
	Specification of the grid system used.	GDA94_Zone54 datum.
	Quality and adequacy of topographic control.	Topographic relief has been extracted using the ELVIS digital terrain information at Geoscience Australia.
<b>Data spacing and distribution</b>	Data spacing for reporting of Exploration Results.	Step-out drilling over an 8 kilometre by 3 kilometre portion of the rare earth enriched Sybella granite was drilled on 800 metre by 200 metre and 800 metre by 400 metres spacing with the aim of outlining the extent of the REO mineralisation and its resource potential. This is in addition to the 19 holes drilled along the boundary fence and Donkey Dam traverses (refer Red Metal ASX release dated 21 August 2023).
	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.	The drill pierce point spacing is sufficient to establish the degree of geological and grade continuity appropriate for an Exploration Target or early-stage resource estimation. Data has been forward to a resource consultant assessment.
	Whether sample compositing has been applied.	Two separate cyclone split samples were collected for each metre with one stored on site for subsequent use and analysis while the second was sent to ALS for compositing.
<b>Orientation of data in relation to geological structure</b>	Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.	The granite displays a deformation foliation that varies from steep west dipping to sub-vertical. Where access permitted, the drilling was oriented 60 degrees to the east across the dominant fabric.
	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.	Insufficient data to determine bias at this point.
<b>Sample security</b>	The measures taken to ensure sample security.	Chips were logged and sampled in the field with chip tray records and two split one metre samples collected and stored at Red Metal's Cloncurry base for future reference. 6 metres composite samples were transported directly to ALS Mt Isa for preparation and analysis.
<b>Audits or reviews</b>	The results of any audits or reviews of sampling techniques and data.	No external audits have been undertaken at this early stage.

**Appendix 1: Table 2 Sybella Project - JORC 2012 reporting of exploration results**

Criteria	JORC 2012 Explanation	Commentary
<b>Mineral tenement and land tenure status</b>	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.	<i>The Sybella drilling is located within EPM 28001 situated in the Mount Isa region of north-west Queensland. EPM 28001 is owned 100% by Red Metal Limited. A landholder conduct and compensation agreement has been established with the pastoral lease holder at May Down and Ardmore Stations. An ancillary exploration access agreement has been established with the Kalkadoon native title party.</i>
	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.	<i>The tenement is in good standing.</i>
<b>Exploration done by other parties</b>	Acknowledgment and appraisal of exploration by other parties.	<i>No previous drilling by other parties has been directed towards REE, however the granite of interest was regularly drilled and sampled as part of a regional seismic traverse by Geoscience Australia in 1994 (line L138_94MTI_01). End of hole assays from this drill traverse provide regularly spaced REE analyses across the granite, highlighting its grade in fresh rock (refer RDM: ASX Release 26 July 2023). A total of 16 shallow holes intersected the targeted granite with many holes ending in greater than 300ppm neodymium plus praseodymium (NdPr) oxide.</i>
<b>Geology</b>	Deposit type, geological setting and style of mineralisation.	<i>Red Metal's experienced exploration team speculate the potential for a new granite-hosted, weak-acid soluble REO deposit style that can be broadly compared with other granite-hosted, weak-acid soluble mineral deposit types such as the giant Rossing and Husab soluble uranium deposits or the Morenci soluble copper deposits. These large tonnage deposit types are characterised by low-grades of soluble ore minerals hosted in low-acid consuming granite rock and can be bulk mined and then extracted using simple coarse grind and low-acid leach processing.</i>
<b>Drill hole information</b>	A summary of all information material to the understanding of the exploration results including a tabulation of survey information for all Material drill holes:	<i>Refer to Figures 1 to 11, Table 1 and Appendix 2 and Appendix 3 in this announcement for a summary of Red Metal's 2024 drill hole data.</i>
<b>Data aggregation methods</b>	In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.	<i>No data aggregation methods have been applied</i>
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	<i>No metal equivalent values have been applied</i>
<b>Relationship between mineralisation widths and intercept lengths</b>	These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').	<i>At this stage of exploration insufficient data exists to confidently estimate true widths.</i>
<b>Diagrams</b>	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.	<i>Refer to Figures 1 to 11 to this announcement.</i>
<b>Balanced reporting</b>	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.	<i>See text to this announcement</i>

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Criteria	JORC 2012 Explanation	Commentary
<p><b>Other substantive exploration data</b></p>	<p>Other exploration data, if meaningful and material, should be reported including (but not limited to): 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.</p>	<p><i>A preliminary mineralogical study undertaken for Red Metal by ANSTO Minerals (ANSTO), show most of the rare earth elements within a typical fresh surface sample of the granite occur within the highly soluble fluorocarbonate minerals bastnasite and synchysite..</i></p> <p><i>Although subject to further detailed metallurgical studies, proof of concept leach test work confirmed strong REO extractions can be achieved using low levels of ambient temperature sulphuric acid on coarse fractions of both weathered and fresh granite. Lowering the acid strength and increasing the residence time have significantly improved the reduction of iron and aluminium contaminants and significantly reduced the acid consumption rate (refer to Red Metal ASX releases dated 1 February 2024, 18 March 2024,.3 June 2024).</i></p> <p><i>In addition, purification experiments on the pregnant leach solutions derived from the bottle roll test work successfully precipitated our first potentially saleable mixed rare earth carbonate (MREC) product (refer to Red Metal ASX release dated 8 July 2024).</i></p> <p><i>Comminution test work show the coarsely crushed granite is classified as “Very Soft” when weathered and “Soft” when fresh which should translate into very competitive capital and operating costs for both mining and crushing product (refer to Red Metal ASX release dated 8 July 2024).</i></p>
<p><b>Further work</b></p>	<p>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</p>	<p><i>The new assay data has been forward to consultants to assess the resource potential and advise on the infill drill spacing. More focused infill drilling will enable targeted metallurgical test work and facilitate early-stage mining studies. Heritage surveying ahead of the proposed infill drilling is underway.</i></p>

**Appendix 2: Sybella Project Red Metal 2024 Drill Hole Collar Data.**

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HOLE ID	Hole Type	Easting	Northing	RL	Dip	Azim_True	Depth
SBRC020	RC	330408	7693598	421	-60	90	61
SBRC021	RC	330205	7693592	421	-60	90	121
SBRC022	RC	330000	7693594	418	-60	90	60
SBRC023	RC	329804	7693592	416	-60	90	180
SBRC024	RC	329608	7693600	417	-60	90	60
SBAC025	AC	330404	7692792	424	-60	90	60
SBAC026	AC	330189	7692792	424	-60	90	79
SBAC027	AC	330007	7692811	421	-60	90	60
SBAC028	AC	329805	7692812	418	-60	90	60
SBAC029	AC	329597	7692817	421	-60	90	60
SBAC030	AC	329394	7692803	418	-60	90	60
SBAC031	AC	329345	7693597	414	-60	90	60
SBAC032	AC	329211	7693596	417	-60	90	60
SBAC033	AC	330396	7694402	422	-60	90	60
SBAC034	AC	330207	7694404	420	-60	90	60
SBAC035	AC	330003	7694407	417	-60	90	60
SBAC036	AC	329802	7694408	420	-60	90	60
SBAC037	AC	329590	7694384	418	-60	90	90
SBAC038	AC	329402	7694400	413	-60	90	60
SBAC039	AC	329199	7694393	412	-60	90	60
SBAC040	AC	330604	7695207	422	-60	90	60
SBAC041	AC	330396	7695196	418	-60	90	60
SBAC042	AC	330202	7695200	415	-60	90	60
SBAC043	AC	329836	7695213	412	-60	90	60
SBAC044	AC	329601	7695208	414	-60	90	60
SBAC045	AC	329400	7695209	412	-60	90	44
SBAC046	AC	329198	7695202	413	-60	90	60
SBAC047	AC	329003	7695188	411	-60	90	60
SBRC048	RC	330000	7695188	413	-60	90	240
SBAC049	AC	330261	7695958	424	-60	90	60
SBAC050	AC	330027	7696003	421	-60	90	60
SBAC051	AC	329608	7696014	419	-60	90	60
SBAC052	AC	329205	7695992	417	-60	90	60
SBAC053	AC	328801	7696004	412	-60	90	120
SBAC054	AC	328402	7696008	409	-60	90	60
SBAC055	AC	328002	7696006	407	-60	90	60
SBAC056	AC	330004	7696771	423	-60	90	60
SBRC057	RC	329211	7696807	415	-60	90	120
SBAC058	AC	328407	7696787	411	-60	90	60
SBAC059	AC	328001	7696803	410	-60	90	60

HOLE ID	Hole Type	Easting	Northing	RL	Dip	Azim_True	Depth
SBAC060	AC	327600	7696811	406	-60	90	60
SBAC061	AC	327401	7696809	410	-60	90	59
SBAC062	AC	327600	7696007	402	-60	90	61
SBAC063	AC	327300	7695999	402	-60	90	60
SBAC064	AC	328535	7695188	409	-60	90	60
SBAC065	AC	328201	7695198	410	-60	90	60
SBAC066	AC	327807	7695201	411	-60	90	60
SBAC067	AC	327402	7695196	407	-60	90	60
SBAC068	AC	327609	7694430	404	-60	90	60
SBAC069	AC	328802	7694401	415	-60	90	60
SBAC070	AC	328400	7694403	408	-60	90	60
SBRC071	RC	328000	7694400	407	-60	90	120
SBAC072	AC	328805	7693600	410	-60	90	60
SBAC073	AC	328399	7693600	411	-60	90	60
SBAC074	AC	330601	7692004	426	-60	90	60
SBAC075	AC	330397	7692002	425	-60	90	60
SBAC076	AC	330203	7692005	427	-60	90	60
SBAC077	AC	330200	7692593	425	-60	90	60
SBRC078	RC	330259	7692355	423	-60	90	120
SBAC079	AC	330245	7692190	426	-60	90	60
SBAC080	AC	330142	7692007	426	-60	90	36
SBAC081	AC	330744	7691193	434	-60	90	60
SBAC082	AC	330400	7691200	430	-60	90	60
SBRC083	RC	330599	7691204	432	-60	90	120
SBAC084	AC	331553	7690605	439	-60	90	60
SBAC085	AC	331360	7690678	438	-60	90	60
SBAC086	AC	331168	7690762	438	-60	90	60
SBAC087	AC	330982	7690837	435	-60	90	60
SBAC088	AC	327600	7693604	412	-60	90	60
SBAC089	AC	328005	7693622	409	-60	90	60
SBAC090	AC	328608	7692810	416	-60	90	60
SBAC091	AC	327802	7692798	415	-60	90	60
SBRC092	RC	328197	7692799	414	-60	90	120
SBAC093	AC	329994	7691988	427	-60	90	60
SBAC094	AC	329805	7691988	425	-60	90	60
SBAC095	AC	329599	7692004	427	-60	90	60
SBAC096	AC	329397	7691999	427	-60	90	60
SBAC097	AC	328992	7692002	422	-60	90	60
SBAC098	AC	328194	7692001	421	-60	90	60
SBAC099	AC	327901	7692005	420	-60	90	60
SBRC100	RC	328596	7692003	418	-60	90	120

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HOLE ID	Hole Type	Easting	Northing	RL	Dip	Azim_True	Depth
SBAC101	AC	330198	7691197	426	-60	90	60
SBAC102	AC	330043	7691215	427	-60	90	60
SBAC103	AC	329789	7691196	426	-60	90	60
SBAC104	AC	329601	7691202	425	-60	90	60
SBAC105	AC	329041	7691197	422	-60	90	60
SBAC106	AC	328596	7691213	419	-60	90	60
SBAC107	AC	328198	7691207	413	-60	90	60
SBRC108	RC	329399	7691197	422	-60	90	120
SBAC109	AC	330145	7690402	431	-60	90	60
SBAC110	AC	329999	7690404	425	-60	90	60
SBAC111	AC	329813	7690396	425	-60	90	60
SBAC112	AC	329397	7690408	420	-60	90	60
SBAC113	AC	328952	7690402	418	-60	90	60
SBAC114	AC	328604	7690400	416	-60	90	60
SBAC115	AC	328266	7690401	413	-60	90	60
SBAC116	AC	330175	7689595	421	-60	90	60
SBAC117	AC	329836	7689607	421	-60	90	60
SBAC118	AC	329445	7689596	422	-60	90	60
SBAC119	AC	329047	7689628	417	-60	90	60
SBAC120	AC	328239	7689609	418	-60	90	60
SBRC121	RC	328604	7689614	420	-60	90	120
SBRC122	RC	329997	7688779	413	-60	90	120
SBAC123	AC	330389	7688801	417	-60	90	60
SBAC124	AC	329601	7688803	413	-60	90	60
SBAC125	AC	329188	7688819	412	-60	90	60
SBAC126	AC	328787	7688860	412	-60	90	60
SBAC127	AC	328538	7688801	416	-60	90	60

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**Appendix 3: Sybella Project Rare Earth Oxide (REO) Assay Data.**

Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBRC020	0	6	6 m Composite	SC8001	628	38.9	20.35	3.55	38.15	7.23	332	2.59	258	72	11.66	73.4	5.75	2.81	214.0	18.33
SBRC020	6	12	6 m Composite	SC8002	639	38.1	22.41	3.75	37.11	7.54	319	2.60	253	71	9.51	69.6	6.00	2.82	221.6	17.14
SBRC020	12	18	6 m Composite	SC8003	604	33.5	20.01	3.98	33.43	6.44	298	2.33	238	68	12.73	66.0	5.25	2.44	196.2	16.45
SBRC020	18	24	6 m Composite	SC8004	726	43.4	25.16	4.28	43.11	8.42	359	3.13	281	81	12.58	58.4	6.39	3.30	256.5	21.29
SBRC020	24	30	6 m Composite	SC8005	581	36.8	20.70	3.33	33.77	6.49	284	2.34	228	63	6.44	52.1	5.53	2.76	203.8	17.02
SBRC020	30	36	6 m Composite	SC8006	466	28.2	17.50	2.48	26.97	5.41	230	1.84	190	51	9.97	50.9	4.15	2.11	158.7	14.01
SBRC020	36	42	6 m Composite	SC8007	330	18.1	10.22	2.26	19.08	3.52	162	1.32	132	37	7.98	88.8	2.76	1.51	107.4	9.30
SBRC020	42	48	6 m Composite	SC8008	522	30.9	18.24	2.88	31.12	5.66	256	2.23	210	57	8.74	46.5	4.80	2.44	167.6	14.46
SBRC020	48	54	6 m Composite	SC8009	99	8.7	5.72	1.96	8.58	1.67	46	0.68	47	12	45.71	223.2	1.35	0.75	52.7	4.94
SBRC020	54	61	7 m Composite	SC8010	152	9.5	5.59	1.51	9.88	1.83	74	0.63	66	17	13.65	147.3	1.49	0.81	56.5	5.37
SBRC021	0	6	6 m Composite	SC8011	613	24.3	13.61	4.62	27.89	4.74	319	1.86	233	68	14.42	92.4	4.14	1.93	147.3	12.53
SBRC021	6	12	6 m Composite	SC8012	608	24.3	13.61	4.25	28.58	4.70	301	2.00	247	67	14.72	90.0	3.96	1.74	134.6	12.30
SBRC021	12	18	6 m Composite	SC8013	606	23.1	13.61	4.43	26.97	4.52	291	1.68	221	64	11.81	73.3	4.05	1.78	128.9	12.01
SBRC021	18	24	6 m Composite	SC8014	740	28.0	15.27	5.28	34.23	5.44	353	2.07	271	80	17.18	74.9	4.99	2.22	157.5	14.52
SBRC021	24	30	6 m Composite	SC8015	586	22.2	12.64	4.64	26.28	4.35	281	1.63	213	63	13.96	66.6	3.79	1.76	129.5	11.96
SBRC021	30	36	6 m Composite	SC8016	623	23.1	13.38	4.38	27.20	4.28	296	1.89	227	66	15.49	63.6	4.15	1.85	134.0	12.35
SBRC021	36	42	6 m Composite	SC8017	716	29.0	15.32	4.79	31.93	5.29	338	2.07	259	76	16.41	70.7	4.74	2.15	158.1	14.69
SBRC021	42	48	6 m Composite	SC8018	652	26.7	14.35	4.91	29.51	4.97	310	2.05	243	70	10.58	70.6	4.52	1.99	148.6	13.21
SBRC021	48	54	6 m Composite	SC8019	641	26.5	14.98	4.81	30.77	5.21	301	1.92	234	68	15.03	64.0	4.46	2.03	151.1	13.89
SBRC021	54	60	6 m Composite	SC8020	593	21.6	12.98	4.08	25.01	4.18	280	1.71	214	63	13.80	60.4	3.75	1.78	125.2	11.44
SBRC021	60	66	6 m Composite	SC8021	657	31.5	16.81	4.23	33.89	6.04	310	2.17	234	70	14.11	63.6	5.26	2.34	173.3	14.69
SBRC021	66	72	6 m Composite	SC8022	787	37.2	19.50	4.17	39.42	7.08	382	2.38	281	83	14.72	68.2	6.06	2.64	212.7	17.31
SBRC021	72	78	6 m Composite	SC8023	679	31.2	17.21	4.25	33.31	6.19	331	1.73	237	70	11.35	75.3	5.27	2.43	185.4	14.92
SBRC021	78	84	6 m Composite	SC8024	728	33.7	17.15	4.38	34.92	6.15	353	1.96	241	76	15.64	80.0	5.42	2.44	185.4	15.71
SBRC021	84	90	6 m Composite	SC8025	780	34.9	19.38	4.68	37.69	6.70	376	2.35	268	82	15.64	79.4	5.96	2.60	203.8	16.51
SBRC021	90	96	6 m Composite	SC8026	733	32.1	18.41	4.45	34.12	6.07	351	2.00	262	77	13.04	69.9	5.39	2.43	189.9	15.60
SBRC021	96	102	6 m Composite	SC8027	705	32.6	17.84	4.27	34.46	6.17	338	1.86	239	73	9.97	76.8	5.49	2.39	183.5	15.54
SBRC021	102	108	6 m Composite	SC8028	719	32.4	18.01	3.60	34.12	6.59	351	2.13	251	74	12.42	71.8	5.61	2.49	188.0	15.43

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBRC021	108	114	6 m Composite	SC8029	701	32.8	18.12	3.73	32.96	6.00	341	2.09	238	73	13.50	69.3	5.38	2.32	182.2	15.37
SBRC021	114	121	7 m Composite	SC8030	624	26.7	15.72	3.32	28.47	5.18	299	2.02	215	67	11.35	61.5	4.58	2.12	147.9	13.04
SBRC022	0	6	6 m Composite	SC8031	867	33.3	18.70	5.84	40.69	6.24	436	2.67	322	99	21.17	48.6	5.95	2.39	186.7	16.17
SBRC022	6	12	6 m Composite	SC8032	717	27.8	17.27	5.26	34.35	5.59	334	2.32	260	78	19.79	41.4	5.20	2.32	161.3	14.97
SBRC022	13	19	6 m Composite	SC8033	794	26.5	15.04	5.21	34.69	5.11	367	2.00	276	86	17.03	41.5	4.83	2.12	151.1	13.72
SBRC022	19	25	6 m Composite	SC8034	743	29.5	16.41	5.37	35.85	5.84	340	2.32	266	80	15.95	42.2	5.27	2.18	162.6	15.09
SBRC022	25	31	6 m Composite	SC8035	726	27.2	16.47	5.59	34.46	5.64	339	1.91	262	80	17.49	40.7	5.00	2.15	153.7	13.61
SBRC022	31	37	6 m Composite	SC8036	708	26.9	14.98	5.48	32.16	5.01	327	2.05	253	76	17.18	36.6	4.75	1.92	150.5	13.32
SBRC022	37	43	6 m Composite	SC8037	657	24.3	15.21	4.37	32.27	5.14	305	2.17	236	72	17.64	35.5	4.81	2.25	149.2	13.15
SBRC022	43	49	6 m Composite	SC8038	733	26.4	14.87	4.72	32.85	4.91	338	2.16	258	80	19.33	37.3	4.83	1.99	147.3	13.95
SBRC022	49	55	6 m Composite	SC8039	658	23.8	14.52	4.68	29.16	4.85	304	2.00	236	72	18.10	36.2	4.28	1.88	139.7	12.92
SBRC022	55	60	5 m Composite	SC8040	693	23.1	14.75	4.85	31.35	4.57	320	1.98	247	74	20.86	37.3	4.70	1.94	139.1	13.04
SBRC023	0	6	6 m Composite	SC8041	550	21.0	11.06	4.97	26.86	3.86	249	1.43	195	59	20.71	29.5	3.87	1.46	117.1	9.12
SBRC023	6	12	6 m Composite	SC8042	559	21.0	12.29	4.90	25.36	4.06	256	1.66	191	59	19.94	28.9	3.33	1.58	117.5	10.76
SBRC023	12	18	6 m Composite	SC8043	398	17.2	10.71	3.37	19.48	3.28	177	1.51	142	43	12.27	22.9	2.89	1.38	102.0	9.49
SBRC023	18	24	6 m Composite	SC8044	384	17.9	11.02	3.79	21.03	3.53	179	1.50	148	44	12.12	22.6	3.13	1.51	95.9	9.55
SBRC023	24	30	6 m Composite	SC8045	575	22.4	12.12	4.85	27.32	4.32	266	1.44	209	61	15.34	31.4	3.86	1.55	122.3	10.49
SBRC023	30	36	6 m Composite	SC8046	545	20.9	12.06	4.93	24.67	4.00	250	1.46	191	59	21.01	30.2	4.09	1.62	125.0	10.05
SBRC023	36	42	6 m Composite	SC8047	533	20.4	11.44	4.89	25.01	4.02	246	1.59	189	58	17.49	31.0	3.83	1.58	116.7	9.95
SBRC023	42	48	6 m Composite	SC8048	500	19.1	10.58	4.72	24.09	3.51	233	1.31	181	54	15.95	28.5	3.38	1.39	105.9	9.19
SBRC023	48	54	6 m Composite	SC8049	518	19.7	11.72	4.59	23.86	3.88	239	1.58	191	57	17.79	29.0	3.59	1.46	111.9	10.09
SBRC023	54	60	6 m Composite	SC8050	583	23.1	13.44	5.33	27.32	4.41	269	1.61	212	64	21.78	33.9	4.12	1.62	127.6	11.00
SBRC023	60	66	6 m Composite	SC8051	598	23.2	12.75	5.09	29.62	4.51	277	1.76	218	65	16.26	35.6	4.08	1.82	130.2	12.35
SBRC023	66	72	6 m Composite	SC8052	556	23.0	12.18	4.84	27.66	4.08	253	1.55	204	62	17.18	33.3	4.28	1.72	122.8	10.85
SBRC023	72	78	6 m Composite	SC8053	507	20.7	12.29	5.13	25.47	3.95	229	1.52	190	57	13.65	31.0	3.78	1.61	115.4	10.27
SBRC023	78	84	6 m Composite	SC8054	560	21.1	12.52	4.96	28.01	4.19	255	1.52	205	61	12.58	32.1	4.12	1.63	116.2	10.42
SBRC023	84	90	6 m Composite	SC8055	560	21.9	12.01	5.38	26.28	4.42	255	1.57	202	61	19.02	31.8	3.95	1.60	124.3	11.11
SBRC023	90	96	6 m Composite	SC8056	435	18.6	11.41	3.99	23.05	3.67	196	1.18	160	48	15.95	25.7	3.39	1.47	108.6	9.67
SBRC023	96	102	6 m Composite	SC8057	81	24.5	20.70	2.22	10.73	5.62	36	4.33	33	10	7.52	6.8	3.19	3.61	105.8	27.90
SBRC023	102	108	6 m Composite	SC8058	79	8.1	7.23	0.74	5.97	1.75	38	2.39	29	9	5.83	4.8	1.00	1.24	60.8	11.02

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SBRC023	108	114	6 m Composite	SC8059	597	24.8	14.75	5.15	31.70	5.09	291	2.26	232	69	18.87	40.1	4.35	2.10	148.6	14.23
SBRC023	114	120	6 m Composite	SC8060	500	21.9	12.75	4.57	28.24	4.28	246	1.52	189	57	18.41	34.2	3.99	1.63	125.2	10.69
SBRC023	120	126	6 m Composite	SC8061	484	21.5	12.81	4.74	27.32	4.35	238	1.46	192	56	17.49	32.9	3.96	1.61	118.5	11.06
SBRC023	126	132	6 m Composite	SC8062	1151	35.7	20.13	4.79	47.14	6.92	591	2.57	401	125	24.08	59.5	6.39	2.57	193.7	17.82
SBRC023	132	138	6 m Composite	SC8063	985	32.1	17.67	5.37	41.38	5.93	501	2.19	350	108	21.17	52.4	6.02	2.38	173.3	16.68
SBRC023	138	144	6 m Composite	SC8064	656	22.7	13.04	4.70	28.82	4.56	332	1.61	237	72	15.34	35.4	4.19	1.79	125.6	12.13
SBRC023	144	150	6 m Composite	SC8065	814	28.2	15.89	5.14	34.81	5.18	414	2.33	300	89	15.49	44.0	5.13	2.15	149.2	14.29
SBRC023	150	156	6 m Composite	SC8066	663	25.5	14.01	4.94	31.70	4.80	337	2.09	253	74	15.49	37.8	4.58	1.95	139.1	14.35
SBRC023	156	162	6 m Composite	SC8067	625	28.5	15.89	5.50	32.85	5.41	312	2.24	245	70	13.19	37.8	4.99	2.30	151.1	14.80
SBRC023	162	168	6 m Composite	SC8068	678	25.8	14.98	5.26	32.50	5.12	340	2.07	253	75	16.72	40.4	4.90	2.11	147.9	13.04
SBRC023	168	174	6 m Composite	SC8069	682	26.4	14.47	4.90	32.62	5.12	340	2.12	258	77	17.95	42.0	4.79	1.95	143.5	12.92
SBRC023	174	180	6 m Composite	SC8070	660	26.2	15.27	5.19	31.47	4.96	328	2.40	253	75	19.17	38.2	4.86	2.14	140.3	14.46
SBRC024	0	6	6 m Composite	SC8071	480	17.9	10.36	4.19	21.15	3.47	238	1.33	191	53	11.81	29.0	3.19	1.35	106.3	9.08
SBRC024	6	12	6 m Composite	SC8072	442	20.8	11.30	3.95	23.28	4.01	210	1.33	185	49	12.88	29.5	3.54	1.51	118.1	9.55
SBRC024	12	18	6 m Composite	SC8073	440	18.5	10.15	4.11	21.15	3.65	207	1.27	177	48	9.97	29.3	3.39	1.35	111.0	8.86
SBRC024	18	24	6 m Composite	SC8074	579	22.3	13.15	4.63	25.47	4.47	269	1.61	220	61	16.87	34.1	3.93	1.70	132.1	10.75
SBRC024	24	30	6 m Composite	SC8075	677	24.2	13.84	4.83	27.66	4.82	313	1.75	246	69	13.34	39.3	4.34	1.79	141.0	11.67
SBRC024	30	36	6 m Composite	SC8076	669	24.6	14.24	4.94	27.55	4.91	310	1.69	233	68	16.57	37.6	4.02	1.91	140.3	12.41
SBRC024	36	42	6 m Composite	SC8077	629	21.2	11.95	4.42	25.47	4.27	291	1.46	225	64	12.27	35.4	3.79	1.54	127.6	10.11
SBRC024	42	48	6 m Composite	SC8078	630	21.4	12.41	4.23	25.59	4.30	294	1.46	226	65	16.41	35.4	3.92	1.60	128.9	10.56
SBRC024	48	54	6 m Composite	SC8079	638	22.1	12.58	4.67	26.05	4.33	299	1.51	226	65	11.50	37.2	3.89	1.63	122.0	10.84
SBRC024	54	60	6 m Composite	SC8080	641	21.2	11.24	4.31	26.05	4.04	305	1.42	234	66	10.28	36.2	3.67	1.47	114.3	10.60
SBAC025	0	6	6 m Composite	SC8081	881	36.7	19.61	4.09	42.99	7.16	428	2.12	337	96	19.02	57.5	6.61	2.48	214.6	16.28
SBAC025	6	12	6 m Composite	SC8082	812	33.2	17.50	3.81	38.38	6.28	378	1.92	303	84	12.27	49.2	5.96	2.23	181.0	14.46
SBAC025	12	16	4 m Composite	SC8083	805	37.3	20.93	3.68	39.42	7.64	385	2.54	300	84	16.87	51.8	6.49	2.83	219.1	18.11
SBAC025	17	23	6 m Composite	SC8084	779	35.2	21.96	3.82	36.65	7.33	364	2.82	287	81	13.19	47.1	6.00	3.02	226.7	19.76
SBAC025	23	29	6 m Composite	SC8085	795	36.6	22.36	3.86	37.92	7.41	368	2.68	292	82	12.42	49.3	6.13	2.95	217.8	19.64
SBAC025	29	35	6 m Composite	SC8086	710	31.0	18.47	3.43	31.00	6.13	325	2.32	253	71	13.96	41.5	5.20	2.62	186.7	16.45
SBAC025	35	41	6 m Composite	SC8087	746	29.4	17.67	3.66	31.35	6.08	347	2.12	261	75	12.12	43.5	5.10	2.28	177.2	15.26
SBAC025	41	47	6 m Composite	SC8088	864	35.7	20.01	4.64	37.57	7.33	392	2.43	302	85	9.36	51.8	5.85	2.78	215.9	18.62

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SBAC025	47	53	6 m Composite	SC8089	882	35.6	19.78	4.27	40.23	6.93	419	2.26	315	89	13.50	54.7	6.32	2.75	203.8	16.51
SBAC025	53	60	7 m Composite	SC8090	213	15.0	9.43	1.40	13.72	3.07	105	1.21	85	24	8.59	17.1	2.40	1.31	84.7	8.64
SBAC026	0	5	5 m Composite	SC8091	657	24.2	13.32	4.32	27.43	4.71	330	1.74	252	70	11.81	37.5	4.18	1.86	142.2	12.41
SBAC026	5	11	6 m Composite	SC8092	609	22.0	12.24	3.90	25.36	4.20	287	1.46	227	65	9.97	37.8	3.86	1.64	126.5	10.54
SBAC026	11	17	6 m Composite	SC8093	672	24.3	13.84	4.35	28.82	4.77	317	1.74	244	70	11.35	38.0	4.27	1.90	130.8	12.24
SBAC026	17	23	6 m Composite	SC8094	853	30.5	17.61	4.67	35.27	5.93	395	2.21	311	87	15.03	50.4	5.46	2.32	178.4	15.66
SBAC026	23	29	6 m Composite	SC8095	731	25.5	14.24	4.32	30.31	5.18	335	1.81	266	75	14.42	43.0	4.54	1.91	150.5	13.10
SBAC026	29	35	6 m Composite	SC8096	722	23.2	12.81	4.32	28.58	4.40	339	1.69	265	74	11.81	41.6	4.10	1.69	128.3	11.50
SBAC026	35	41	6 m Composite	SC8097	716	25.8	14.75	4.42	29.39	5.13	339	1.88	269	73	18.10	40.6	4.52	2.02	148.6	13.32
SBAC026	41	47	6 m Composite	SC8098	897	34.2	20.13	5.91	38.73	7.14	416	2.51	325	92	16.57	54.5	5.87	2.74	215.9	17.65
SBAC026	47	53	6 m Composite	SC8099	985	38.3	23.33	4.83	41.26	7.78	454	2.99	353	99	18.71	56.1	6.61	3.08	233.7	20.67
SBAC026	53	56	3 m Composite	SC8100	1113	44.2	24.81	4.09	48.41	8.75	505	3.02	407	114	23.62	69.5	7.61	3.39	266.7	21.35
SBAC026	57	63	6 m Composite	SC8101	1044	38.5	21.04	3.81	44.61	7.65	486	2.49	373	104	17.49	61.6	6.90	2.76	219.1	17.65
SBAC026	63	69	6 m Composite	SC8102	914	32.4	19.38	4.64	37.57	6.55	418	2.42	321	91	17.79	50.2	5.90	2.49	197.5	16.74
SBAC026	69	75	6 m Composite	SC8103	717	28.6	16.87	4.60	32.16	5.75	332	2.12	259	73	14.72	40.9	5.13	2.22	165.1	14.46
SBAC026	75	79	4 m Composite	SC8104	692	27.8	16.18	4.60	30.89	5.52	338	1.83	266	74	17.49	42.8	5.02	2.20	162.6	14.63
SBAC027	2	8	6 m Composite	SC8105	615	21.1	11.95	3.98	25.36	4.24	306	1.50	232	65	13.65	35.1	3.75	1.61	122.3	10.82
SBAC027	8	9	1 m Composite	SC8106	590	21.2	12.58	4.10	25.70	4.33	298	1.61	225	63	9.97	34.8	3.87	1.75	124.6	10.58
SBAC027	9	10	1 m Composite	SC8107	687	21.5	11.89	4.11	25.36	4.14	327	1.46	241	67	9.51	36.1	3.75	1.62	118.0	10.31
SBAC027	10	11	1 m Composite	SC8108	790	26.7	15.61	4.24	31.24	5.34	382	1.94	288	79	13.80	46.2	4.67	2.10	154.9	13.72
SBAC027	11	12	1 m Composite	SC8109	595	21.1	12.06	4.12	25.13	4.08	289	1.51	219	61	12.73	34.2	3.75	1.54	115.8	10.44
SBAC027	12	13	1 m Composite	SC8110	731	26.3	16.01	4.30	29.97	5.22	351	1.93	265	73	13.80	40.7	4.63	2.14	151.8	13.61
SBAC027	13	19	6 m Composite	SC8111	751	27.8	15.55	4.33	31.35	5.45	351	2.17	267	74	17.49	42.6	4.88	2.19	158.7	14.46
SBAC027	19	25	6 m Composite	SC8112	731	28.8	16.24	4.48	31.35	5.65	339	2.12	259	72	16.87	42.3	4.95	2.19	165.1	14.86
SBAC027	25	31	6 m Composite	SC8113	985	32.9	18.24	4.63	37.46	6.49	481	2.27	343	96	18.10	53.6	5.75	2.49	182.2	16.06
SBAC027	31	37	6 m Composite	SC8114	743	28.5	16.58	4.50	30.77	5.56	354	2.08	271	74	17.03	44.3	4.93	2.12	160.0	14.29
SBAC027	37	43	6 m Composite	SC8115	751	25.1	14.81	4.53	30.43	5.33	354	2.04	265	73	13.04	42.9	4.56	1.96	144.1	13.66
SBAC027	43	49	6 m Composite	SC8116	703	23.1	13.04	4.17	26.05	4.48	325	1.58	247	69	11.96	37.1	3.96	1.69	125.0	11.84
SBAC027	49	55	6 m Composite	SC8117	748	28.4	16.18	4.65	31.00	5.42	351	1.92	271	76	17.79	42.1	4.68	2.11	151.1	13.95
SBAC027	55	60	5 m Composite	SC8118	789	30.4	17.78	4.24	33.19	6.06	362	2.19	288	78	18.10	45.9	5.30	2.33	173.3	16.17

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC028	0	7	7 m Composite	SC8119	634	21.2	11.66	4.61	25.82	4.08	296	1.64	237	63	12.12	37.0	3.81	1.64	119.9	10.97
SBAC028	7	13	6 m Composite	SC8120	752	23.4	13.89	4.79	28.93	4.69	349	1.91	276	74	15.18	42.0	4.25	1.91	138.4	12.47
SBAC028	13	17	4 m Composite	SC8121	741	26.5	14.75	4.52	29.97	5.21	341	2.08	273	74	16.87	42.8	4.49	2.10	149.9	14.12
SBAC028	18	24	6 m Composite	SC8122	813	24.9	14.52	5.06	29.85	4.77	369	1.85	293	80	16.57	44.3	4.30	1.93	139.7	13.04
SBAC028	24	30	6 m Composite	SC8123	645	20.7	12.29	3.88	25.24	3.99	293	1.81	232	64	16.72	36.8	3.76	1.69	115.2	12.01
SBAC028	30	36	6 m Composite	SC8124	705	24.0	14.35	4.87	28.58	4.67	325	1.93	259	69	14.88	41.5	4.26	1.91	144.1	13.04
SBAC028	36	42	6 m Composite	SC8125	816	29.5	16.64	5.27	35.50	5.65	398	2.52	281	86	15.95	47.5	5.48	2.32	159.4	14.86
SBAC028	42	48	6 m Composite	SC8126	759	24.1	14.47	4.97	30.43	4.89	379	1.91	257	81	16.57	40.4	4.76	1.93	138.4	12.98
SBAC028	48	54	6 m Composite	SC8127	759	27.3	15.04	4.46	29.74	4.77	371	2.09	265	80	14.57	39.9	4.88	2.12	141.0	13.38
SBAC028	54	60	6 m Composite	SC8128	790	26.3	13.72	5.11	32.73	5.14	389	2.05	276	85	14.26	42.8	4.98	1.83	143.5	13.15
SBAC029	0	6	6 m Composite	SC8129	279	12.1	6.46	3.87	13.95	2.35	149	0.96	107	33	5.06	18.7	2.09	0.93	69.2	6.01
SBAC029	6	12	6 m Composite	SC8130	295	13.1	6.33	4.11	15.33	2.58	143	0.89	113	33	6.90	18.6	2.48	0.99	75.2	6.38
SBAC029	12	18	6 m Composite	SC8131	267	13.1	6.86	4.06	14.29	2.54	129	0.81	100	30	9.51	17.6	2.26	0.95	67.7	6.75
SBAC029	18	24	6 m Composite	SC8132	381	12.6	7.23	4.25	15.79	2.50	188	0.93	134	42	8.13	19.5	2.36	1.03	74.0	6.87
SBAC029	24	30	6 m Composite	SC8133	784	24.0	12.81	4.38	29.16	4.44	387	1.80	265	83	11.50	38.3	4.18	1.90	130.8	11.61
SBAC029	30	36	6 m Composite	SC8134	714	26.7	13.61	4.85	29.62	4.80	351	2.07	250	77	11.20	39.7	4.53	1.99	136.5	12.30
SBAC029	36	42	6 m Composite	SC8135	649	27.5	15.55	5.48	31.70	5.33	311	2.22	239	72	17.79	39.8	4.89	2.25	147.3	13.66
SBAC029	42	48	6 m Composite	SC8136	728	27.3	13.44	5.14	32.04	4.99	345	2.26	264	79	20.71	42.7	4.83	2.04	147.9	13.27
SBAC029	48	54	6 m Composite	SC8137	709	27.5	14.29	5.06	30.43	4.94	335	2.18	254	76	12.88	42.2	4.86	2.01	150.5	13.55
SBAC029	54	58	4 m Composite	SC8138	657	26.2	14.12	4.97	30.54	5.10	317	2.12	240	71	14.57	37.8	4.46	2.08	144.1	12.53
SBAC029	58	60	2 m Composite	SC8139	665	24.5	12.69	4.83	29.39	4.70	315	1.98	245	72	12.73	40.4	4.45	1.86	135.9	12.07
SBAC030	0	6	6 m Composite	SC8140	580	17.6	9.66	4.37	23.05	3.17	310	1.16	204	63	8.59	31.1	3.26	1.29	98.3	8.05
SBAC030	6	12	6 m Composite	SC8141	634	21.6	11.61	4.55	25.47	4.07	308	1.43	216	67	9.66	34.0	3.82	1.61	117.6	9.94
SBAC030	12	18	6 m Composite	SC8142	628	20.2	10.47	4.04	23.97	3.70	306	1.27	215	66	10.12	29.8	3.54	1.31	109.5	8.43
SBAC030	18	24	6 m Composite	SC8143	559	23.9	12.86	4.13	27.55	4.40	259	1.59	205	61	14.88	36.4	4.20	1.77	132.7	10.48
SBAC030	24	30	6 m Composite	SC8144	554	23.1	11.89	4.61	27.55	4.65	259	1.56	206	62	11.04	36.2	4.18	1.85	137.2	11.00
SBAC030	30	36	6 m Composite	SC8145	575	23.1	12.86	4.71	26.28	4.47	276	1.81	206	62	15.95	32.5	4.22	1.69	132.7	11.56
SBAC030	36	42	6 m Composite	SC8146	558	20.1	11.84	4.30	23.28	3.96	266	1.33	190	60	14.72	31.9	3.55	1.60	121.3	10.13
SBAC030	42	48	6 m Composite	SC8147	617	19.0	9.70	4.60	22.25	3.62	303	1.34	201	64	12.42	29.6	3.19	1.29	102.5	9.39
SBAC030	48	54	6 m Composite	SC8148	677	21.9	11.49	4.60	24.78	3.91	324	1.38	232	72	11.35	36.6	3.87	1.58	117.0	9.64

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC030	54	60	6 m Composite	SC8149	536	18.8	10.54	4.54	24.09	3.57	260	1.44	190	57	11.20	30.9	3.52	1.42	107.4	8.70
SBAC031	0	6	6 m Composite	SC8150	499	16.0	9.93	1.78	14.75	2.89	253	1.27	161	53	9.20	22.1	2.47	1.64	92.3	10.52
SBAC031	6	12	6 m Composite	SC8151	525	17.7	11.84	2.87	19.02	4.14	256	1.92	171	55	7.82	26.6	3.03	1.79	115.3	12.24
SBAC031	12	18	6 m Composite	SC8152	534	14.9	8.91	2.91	17.17	2.90	265	1.08	169	55	7.82	25.4	2.62	1.35	83.9	9.09
SBAC031	18	24	6 m Composite	SC8153	709	22.5	10.39	4.01	27.55	4.20	344	1.43	240	75	8.13	37.7	3.87	1.53	117.1	9.46
SBAC031	24	30	6 m Composite	SC8154	767	21.1	10.39	4.18	26.39	4.00	378	1.47	253	80	8.59	37.5	3.96	1.51	117.2	8.89
SBAC031	30	38	8 m Composite	SC8155	683	20.3	10.31	4.02	25.13	3.61	337	1.47	224	71	7.67	33.1	3.63	1.34	107.8	9.11
SBAC031	38	44	6 m Composite	SC8156	431	12.8	6.79	3.35	15.73	2.39	208	1.06	138	45	3.07	23.5	2.34	0.91	71.0	6.16
SBAC031	44	50	6 m Composite	SC8157	597	15.5	8.52	3.43	21.15	3.20	297	1.10	193	62	9.36	30.3	3.09	1.16	93.0	7.33
SBAC031	50	56	6 m Composite	SC8158	717	22.3	11.89	4.12	26.63	4.06	353	1.80	232	73	15.34	38.0	4.00	1.55	124.2	9.78
SBAC031	56	60	4 m Composite	SC8159	447	14.8	7.07	3.42	16.37	2.65	218	0.97	150	48	9.36	22.0	2.48	1.05	77.8	6.64
SBAC032	0	6	6 m Composite	SC8160	650	21.1	11.49	3.62	25.70	3.71	332	1.51	217	66	9.82	32.7	3.81	1.52	115.8	9.44
SBAC032	6	12	6 m Composite	SC8161	618	21.4	10.91	3.62	24.67	4.00	305	1.60	208	62	11.96	31.7	3.61	1.59	117.0	10.15
SBAC032	12	18	6 m Composite	SC8162	719	21.8	11.55	4.70	27.43	3.91	358	1.55	231	71	7.06	33.7	3.61	1.54	114.5	9.71
SBAC032	18	24	6 m Composite	SC8163	724	19.2	9.96	4.37	25.47	3.73	364	1.28	233	71	11.20	33.3	3.53	1.35	105.3	9.06
SBAC032	24	30	6 m Composite	SC8164	748	21.4	11.09	3.90	27.55	3.77	375	1.31	245	75	8.13	36.1	3.76	1.52	114.3	9.68
SBAC032	30	36	6 m Composite	SC8165	767	21.1	10.83	3.93	27.43	3.81	384	1.48	253	76	12.42	38.5	3.60	1.50	111.9	9.46
SBAC032	36	42	6 m Composite	SC8166	591	22.7	10.89	3.97	27.32	4.40	287	1.34	200	62	9.36	32.0	4.03	1.42	119.2	10.23
SBAC032	42	48	6 m Composite	SC8167	720	22.9	11.95	3.58	28.24	4.49	349	1.42	246	77	12.73	40.9	4.26	1.45	123.3	9.27
SBAC032	48	54	6 m Composite	SC8168	781	23.3	12.52	3.72	27.78	4.34	387	1.48	260	79	9.20	37.3	4.20	1.71	130.8	9.67
SBAC032	54	60	6 m Composite	SC8169	735	23.6	11.66	4.18	27.66	4.40	366	1.39	243	75	3.83	37.1	4.03	1.56	127.6	10.40
SBAC033	0	6	6 m Composite	SC8170	498	24.3	12.58	4.71	26.63	4.72	243	1.68	189	55	17.03	32.0	3.98	1.71	132.1	11.96
SBAC033	6	12	6 m Composite	SC8171	423	20.0	11.55	5.05	22.88	3.68	203	1.57	155	44	8.28	28.6	3.35	1.56	120.0	10.92
SBAC033	12	18	6 m Composite	SC8172	473	22.8	12.69	5.15	23.97	4.32	229	1.79	176	49	13.96	31.1	3.95	1.86	129.5	12.41
SBAC033	18	24	6 m Composite	SC8173	511	24.3	13.78	5.75	27.32	4.62	251	1.72	188	53	10.43	31.9	3.89	1.87	139.7	12.81
SBAC033	24	30	6 m Composite	SC8174	404	19.1	10.74	3.88	20.00	3.60	197	1.59	150	43	9.66	25.7	3.38	1.59	111.9	9.92
SBAC033	30	36	6 m Composite	SC8175	483	23.5	13.15	4.65	25.59	4.41	236	1.73	176	53	13.80	30.9	3.72	1.85	136.5	11.14
SBAC033	36	42	6 m Composite	SC8176	275	16.0	8.29	2.99	15.39	2.97	133	1.54	100	31	6.90	19.1	2.65	1.44	94.9	8.81
SBAC033	42	48	6 m Composite	SC8177	418	18.8	11.16	4.04	20.17	3.68	200	1.73	148	44	9.20	26.4	3.09	1.72	117.9	10.86
SBAC033	48	54	6 m Composite	SC8178	310	14.1	8.19	2.83	16.42	2.70	153	1.01	112	35	7.67	19.7	2.45	1.22	88.1	7.48

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC033	54	60	6 m Composite	SC8179	247	12.2	6.64	2.52	13.31	2.41	118	0.98	89	27	9.51	15.8	1.79	1.14	74.3	7.32
SBAC034	0	6	6 m Composite	SC8180	355	16.2	8.63	3.10	19.13	3.23	174	1.35	131	40	12.73	23.4	2.56	1.37	93.6	7.96
SBAC034	6	12	6 m Composite	SC8181	566	26.2	13.84	4.21	31.12	4.95	284	1.80	214	64	7.98	38.3	4.33	2.08	149.9	11.44
SBAC034	12	18	6 m Composite	SC8182	700	29.8	16.52	5.11	35.85	5.41	337	1.83	247	76	12.73	44.9	5.19	2.30	163.8	13.44
SBAC034	18	24	6 m Composite	SC8183	742	27.4	15.15	4.64	32.96	5.38	371	1.96	257	77	15.03	41.5	4.67	2.16	159.4	12.81
SBAC034	24	30	6 m Composite	SC8184	798	31.1	16.29	4.18	37.46	5.72	393	2.10	276	86	18.10	47.1	5.06	2.60	169.5	14.52
SBAC034	30	36	6 m Composite	SC8185	640	25.9	14.81	4.39	31.93	5.10	314	1.84	229	70	10.74	39.9	4.29	2.18	155.6	13.15
SBAC034	36	42	6 m Composite	SC8186	759	31.7	15.32	5.18	37.00	5.78	369	2.25	272	83	8.59	44.0	5.02	2.49	172.7	14.58
SBAC034	42	48	6 m Composite	SC8187	830	32.6	17.50	4.24	39.07	6.09	405	2.27	290	89	13.50	50.0	5.56	2.50	183.5	14.69
SBAC034	48	54	6 m Composite	SC8188	669	28.1	15.55	4.79	33.54	5.43	324	2.00	243	74	11.96	41.1	4.86	2.15	161.3	13.21
SBAC034	54	57	3 m Composite	SC8189	683	27.2	14.18	4.28	32.73	4.93	332	1.89	250	75	11.04	41.6	4.36	2.01	146.7	13.04
SBAC034	58	60	2 m Composite	SC8190	722	27.7	15.61	4.49	33.77	5.78	362	1.91	247	77	11.96	41.8	4.82	2.36	165.7	14.12
SBAC035	0	7	7 m Composite	SC8191	367	17.6	10.25	3.81	21.50	3.55	195	1.18	141	44	4.45	24.1	3.26	1.31	117.3	8.37
SBAC035	7	14	7 m Composite	SC8192	402	25.0	14.98	4.63	26.51	4.94	205	2.05	160	46	10.58	30.0	4.15	2.27	175.3	13.38
SBAC035	14	21	7 m Composite	SC8193	512	24.9	12.81	4.71	25.59	4.43	258	1.72	197	58	14.42	32.5	4.07	1.90	138.4	10.58
SBAC035	21	28	7 m Composite	SC8194	555	23.2	12.81	4.48	28.35	4.70	271	1.61	197	62	15.95	34.3	4.22	1.79	144.8	11.79
SBAC035	28	35	7 m Composite	SC8195	564	24.5	14.41	5.15	29.62	4.87	271	1.73	201	62	14.57	35.5	4.33	2.06	147.9	12.58
SBAC035	35	42	7 m Composite	SC8196	597	26.2	13.66	4.60	30.66	5.07	286	1.98	212	64	19.33	37.5	4.61	2.15	156.2	12.53
SBAC035	42	48	6 m Composite	SC8197	544	26.3	15.32	5.00	31.47	5.13	259	1.92	205	60	13.50	37.6	4.47	2.04	158.7	13.04
SBAC035	48	54	6 m Composite	SC8198	550	25.9	15.27	4.84	31.24	5.22	259	1.96	205	62	15.49	37.9	4.58	2.27	158.7	11.56
SBAC035	54	60	6 m Composite	SC8199	583	25.8	14.24	5.33	29.39	4.56	287	1.92	204	64	11.96	35.7	4.32	2.06	150.5	12.64
SBAC036	0	6	6 m Composite	SC8200	456	19.4	9.80	3.97	22.88	3.60	240	1.39	165	53	15.18	28.9	3.34	1.48	111.5	8.73
SBAC036	6	12	6 m Composite	SC8201	319	15.7	8.98	3.46	17.52	3.15	156	1.16	121	36	13.96	20.4	2.63	1.36	94.2	7.60
SBAC036	12	18	6 m Composite	SC8202	491	20.5	11.66	4.37	23.63	4.20	243	1.52	170	53	15.64	30.6	3.54	1.85	128.3	9.98
SBAC036	18	24	6 m Composite	SC8203	607	23.8	13.84	4.83	28.35	4.73	300	1.56	207	65	13.19	36.8	4.32	1.87	142.9	11.84
SBAC036	24	30	6 m Composite	SC8204	623	27.1	14.81	4.55	30.66	4.94	301	1.80	220	68	13.80	39.7	4.50	2.03	150.5	12.53
SBAC036	30	37	7 m Composite	SC8205	585	24.6	12.58	4.70	30.31	4.91	283	1.64	206	63	16.26	35.8	4.00	2.15	144.1	11.73
SBAC036	38	42	4 m Composite	SC8206	602	27.1	14.98	4.48	31.58	5.25	290	1.69	217	66	12.58	39.0	4.59	2.16	158.7	13.44
SBAC036	42	48	6 m Composite	SC8207	619	24.8	14.52	5.19	29.85	4.81	303	1.73	218	68	14.26	37.8	4.30	1.99	144.1	12.30
SBAC036	48	54	6 m Composite	SC8208	577	24.5	13.66	4.43	30.66	5.03	273	1.47	207	63	12.58	35.1	4.49	1.90	145.4	11.90

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC036	54	60	6 m Composite	SC8209	714	29.7	17.84	5.22	36.65	6.76	337	2.09	282	79	14.42	46.9	5.49	2.36	191.1	15.60
SBAC037	0	6	6 m Composite	SC8210	393	12.7	7.95	3.13	17.81	2.68	199	0.82	138	42	9.36	22.0	2.35	1.06	81.8	6.96
SBAC037	6	12	6 m Composite	SC8211	453	13.9	7.86	3.80	19.08	3.06	232	1.08	171	50	9.36	26.9	2.61	1.21	89.3	7.36
SBAC037	12	18	6 m Composite	SC8212	601	20.5	12.29	5.01	27.09	4.28	300	1.57	218	65	16.10	34.7	3.59	1.74	125.2	10.25
SBAC037	18	24	6 m Composite	SC8213	625	19.7	12.52	4.54	26.16	4.36	311	1.30	227	68	14.42	35.5	3.69	1.55	127.6	9.29
SBAC037	24	30	6 m Composite	SC8214	656	21.2	12.46	4.76	28.70	4.48	323	1.50	228	69	10.74	36.2	3.78	1.70	135.9	10.82
SBAC037	30	36	6 m Composite	SC8215	647	21.3	13.21	4.33	27.43	4.78	320	1.55	239	68	13.96	37.1	3.86	1.71	134.6	11.30
SBAC037	36	42	6 m Composite	SC8216	668	21.7	13.55	5.13	28.35	4.80	328	1.52	241	72	12.58	36.5	4.02	1.83	143.5	11.27
SBAC037	42	48	6 m Composite	SC8217	631	22.8	12.58	4.42	27.89	4.93	308	1.66	228	69	12.42	36.4	3.83	1.76	142.2	11.39
SBAC037	48	54	6 m Composite	SC8218	654	23.9	13.26	5.20	28.82	4.81	325	1.77	239	72	13.50	36.2	4.08	1.61	144.1	11.39
SBAC037	54	60	6 m Composite	SC8219	563	18.6	10.68	4.64	24.32	3.67	278	1.48	204	60	11.81	32.6	3.38	1.42	108.2	9.57
SBAC037	60	66	6 m Composite	SC8220	671	21.7	12.92	4.68	30.08	4.90	332	1.57	246	71	13.04	38.9	4.13	1.87	139.1	12.35
SBAC037	66	72	6 m Composite	SC8221	738	23.0	14.01	4.49	30.77	5.09	362	1.51	272	80	13.80	44.6	4.35	1.85	143.5	11.56
SBAC037	72	77	5 m Composite	SC8222	722	23.5	13.78	4.47	30.08	5.19	352	1.55	259	76	13.19	36.6	4.06	1.85	140.3	11.79
SBAC037	78	84	6 m Composite	SC8223	683	19.8	12.12	4.05	28.24	4.27	339	1.82	247	74	11.04	37.6	3.89	1.62	126.9	11.02
SBAC037	84	90	6 m Composite	SC8224	603	19.9	10.42	3.59	22.99	3.72	284	1.33	220	66	12.88	35.3	3.22	1.60	112.5	10.61
SBAC038	0	6	6 m Composite	SC8225	502	19.1	10.51	3.14	21.38	3.62	264	1.18	193	58	9.05	31.8	3.22	1.30	112.9	8.30
SBAC038	6	12	6 m Composite	SC8226	533	19.9	11.16	3.11	22.13	3.99	259	1.32	197	58	8.90	30.4	3.32	1.51	123.9	9.64
SBAC038	12	18	6 m Composite	SC8227	583	19.5	10.70	3.22	21.50	3.69	271	1.21	201	61	9.66	32.8	3.19	1.34	111.2	8.73
SBAC038	18	24	6 m Composite	SC8228	805	27.2	14.41	3.90	29.51	4.94	358	1.63	265	80	11.20	43.6	4.46	1.82	154.9	12.30
SBAC038	24	30	6 m Composite	SC8229	571	19.8	11.11	3.00	22.07	3.64	276	1.39	199	61	9.05	31.7	3.13	1.45	121.4	9.18
SBAC038	30	36	6 m Composite	SC8230	690	23.5	12.24	3.71	26.86	4.47	330	1.49	239	73	9.36	40.0	3.98	1.53	130.2	10.05
SBAC038	36	42	6 m Composite	SC8231	612	22.1	12.69	3.62	24.55	4.40	298	1.69	219	64	11.50	35.1	3.60	1.62	130.8	11.03
SBAC038	42	48	6 m Composite	SC8232	665	19.3	10.58	3.46	22.59	3.71	323	1.26	220	68	9.66	34.9	3.25	1.38	113.2	9.13
SBAC038	48	54	6 m Composite	SC8233	609	21.8	11.34	4.09	23.63	4.00	296	1.28	212	63	8.28	34.2	3.55	1.62	121.7	9.63
SBAC038	54	60	6 m Composite	SC8234	728	24.9	13.89	3.40	24.90	4.86	333	1.75	237	72	10.28	36.3	4.09	1.92	150.5	11.90
SBAC039	0	6	6 m Composite	SC8235	744	23.1	11.72	3.73	28.01	4.38	362	1.34	245	72	9.05	36.4	3.88	1.52	139.7	9.38
SBAC039	6	12	6 m Composite	SC8236	601	19.0	9.61	2.85	21.03	3.37	281	1.18	196	60	5.98	31.9	2.98	1.29	104.4	8.62
SBAC039	12	18	6 m Composite	SC8237	586	18.6	9.93	2.81	22.59	3.53	292	1.10	206	62	10.58	32.9	3.43	1.31	106.7	8.21
SBAC039	18	24	6 m Composite	SC8238	660	22.7	11.78	3.28	26.86	4.35	321	1.32	236	72	9.36	38.7	3.94	1.56	127.0	9.90

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC039	24	25	1 m Composite	SC8239	581	21.0	10.35	3.49	24.09	3.72	279	1.26	208	62	6.60	34.7	3.43	1.37	109.5	8.56
SBAC039	25	28	3 m Composite	SC8240	552	17.9	9.53	3.36	20.98	3.20	267	1.09	193	59	7.06	30.9	3.02	1.16	96.3	7.70
SBAC039	28	34	6 m Composite	SC8241	746	24.6	12.06	3.16	28.12	4.50	340	1.38	254	77	8.74	40.4	4.05	1.60	137.2	10.21
SBAC039	34	40	6 m Composite	SC8242	762	24.3	13.21	3.29	28.47	4.48	349	1.42	251	76	9.36	40.7	4.12	1.63	133.3	10.35
SBAC039	40	46	6 m Composite	SC8243	732	24.2	13.09	3.61	28.58	4.54	342	1.48	251	75	10.43	41.3	4.20	1.67	139.1	10.74
SBAC039	46	52	6 m Composite	SC8244	712	23.3	12.35	3.44	26.74	4.38	333	1.52	241	72	9.20	37.1	3.92	1.60	130.2	9.75
SBAC039	52	58	6 m Composite	SC8245	532	18.8	10.43	2.89	21.50	3.72	259	1.25	187	57	6.14	30.5	3.15	1.35	110.2	8.76
SBAC039	58	60	2 m Composite	SC8246	803	26.2	13.84	3.87	30.66	5.02	371	1.72	267	81	9.97	44.0	4.46	1.82	152.4	11.84
SBAC040	0	6	6 m Composite	SC8247	107	4.9	3.25	1.29	5.68	1.02	51	0.45	42	12	21.93	8.1	0.81	0.45	32.8	2.84
SBAC040	6	12	6 m Composite	SC8248	111	5.2	3.05	1.16	6.20	1.10	51	0.43	44	13	21.32	8.8	0.91	0.43	35.6	3.12
SBAC040	12	18	6 m Composite	SC8249	109	5.8	3.30	1.52	6.73	1.13	50	0.41	44	12	36.20	8.1	1.02	0.48	36.7	3.27
SBAC040	18	24	6 m Composite	SC8250	81	5.3	2.97	1.45	5.50	0.96	37	0.43	35	9	31.14	7.4	0.81	0.42	33.1	3.13
SBAC040	24	30	6 m Composite	SC8251	114	5.5	2.85	1.20	5.91	1.01	53	0.39	43	13	22.85	7.4	0.88	0.40	31.9	2.72
SBAC040	30	36	6 m Composite	SC8252	157	7.9	4.61	1.40	8.03	1.56	76	0.57	61	17	17.03	11.1	1.27	0.65	53.6	4.17
SBAC040	36	42	6 m Composite	SC8253	127	7.3	4.61	1.22	7.31	1.37	60	0.56	49	14	17.18	9.0	1.07	0.63	48.5	4.33
SBAC040	42	48	6 m Composite	SC8254	876	31.7	17.50	3.15	34.92	6.09	410	2.04	288	88	11.20	48.0	5.14	2.41	191.8	14.40
SBAC040	48	54	6 m Composite	SC8255	107	5.8	3.18	1.03	5.80	1.08	50	0.43	40	12	14.26	6.9	0.88	0.46	36.6	3.23
SBAC040	54	60	6 m Composite	SC8256	88	5.7	3.18	0.94	5.39	1.12	41	0.43	35	10	14.11	6.7	0.78	0.47	35.6	2.94
SBAC041	0	1	1 m Composite	SC8257	249	10.3	5.73	2.17	11.38	1.92	124	0.66	92	27	6.44	15.0	1.63	0.74	62.9	4.54
SBAC041	1	8	7 m Composite	SC8258	382	15.7	9.63	3.46	18.21	3.20	186	1.09	145	41	8.74	24.7	2.69	1.19	96.8	7.80
SBAC041	8	14	6 m Composite	SC8259	488	22.2	12.86	4.39	24.32	4.23	234	1.44	184	54	12.27	31.0	3.82	1.66	130.2	10.99
SBAC041	14	20	6 m Composite	SC8260	509	20.9	11.55	3.98	24.44	4.08	246	1.49	188	56	13.19	33.3	3.56	1.54	126.1	10.58
SBAC041	20	26	6 m Composite	SC8261	529	24.1	14.12	4.11	25.59	4.69	257	1.68	198	58	12.42	35.5	4.05	1.95	147.9	12.35
SBAC041	26	32	6 m Composite	SC8262	515	24.7	14.24	4.26	25.47	4.85	246	1.79	192	56	12.73	34.3	3.80	1.87	151.8	12.47
SBAC041	32	38	6 m Composite	SC8263	502	23.2	13.49	4.11	24.90	4.48	242	1.64	185	56	10.74	32.0	3.73	1.79	140.3	12.30
SBAC041	38	44	6 m Composite	SC8264	801	34.0	19.73	5.07	35.62	6.56	367	2.44	279	82	15.80	47.3	5.43	2.67	201.9	16.45
SBAC041	44	50	6 m Composite	SC8265	581	29.0	16.29	5.04	30.20	5.51	276	1.96	217	65	15.64	38.9	4.54	2.35	174.6	14.23
SBAC041	50	56	6 m Composite	SC8266	538	27.8	15.89	4.85	28.82	5.30	258	1.85	206	59	12.27	38.6	4.40	2.14	166.4	14.01
SBAC041	56	60	4 m Composite	SC8267	542	27.0	15.44	4.64	28.12	5.25	259	2.08	204	60	11.04	36.4	4.42	1.99	160.6	13.38
SBAC042	0	6	6 m Composite	SC8268	473	21.2	12.18	3.91	23.86	4.24	230	1.47	183	52	13.34	31.4	3.59	1.62	128.9	10.25

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SBAC042	6	12	6 m Composite	SC8269	473	21.5	12.29	3.88	23.40	4.07	228	1.39	174	51	11.04	30.5	3.43	1.62	126.2	10.13
SBAC042	12	18	6 m Composite	SC8270	419	20.8	12.12	3.68	21.73	4.12	199	1.50	159	46	9.66	26.8	3.34	1.53	124.2	10.86
SBAC042	18	24	6 m Composite	SC8271	484	22.7	12.98	4.26	24.44	4.44	237	1.61	183	53	11.35	32.2	3.72	1.82	138.4	11.44
SBAC042	24	30	6 m Composite	SC8272	474	21.5	12.81	3.96	23.74	4.19	229	1.55	181	52	12.88	31.5	3.41	1.64	127.6	11.50
SBAC042	30	36	6 m Composite	SC8273	529	26.2	14.52	4.81	27.66	4.96	251	1.72	203	59	17.18	35.7	4.00	1.99	152.4	12.58
SBAC042	36	42	6 m Composite	SC8274	561	26.1	15.27	4.68	27.89	5.15	267	1.90	210	61	14.26	37.7	4.18	2.06	156.8	13.04
SBAC042	42	48	6 m Composite	SC8275	498	20.5	11.66	4.09	22.94	4.04	245	1.42	183	54	11.20	30.4	3.27	1.53	122.8	9.88
SBAC042	48	54	6 m Composite	SC8276	611	30.9	16.98	4.64	32.50	5.67	287	2.08	238	68	16.26	42.3	4.93	2.25	177.8	14.52
SBAC042	54	60	6 m Composite	SC8277	564	24.3	13.84	4.71	26.86	4.80	270	1.81	198	62	17.95	32.4	4.14	1.92	141.6	11.67
SBAC043	0	6	6 m Composite	SC8278	532	21.9	12.75	4.55	22.59	4.33	249	1.64	188	57	16.41	29.5	3.39	1.63	130.8	10.62
SBAC043	6	12	6 m Composite	SC8279	580	20.5	11.41	5.06	23.28	4.06	278	1.59	208	62	14.42	31.5	3.33	1.59	118.1	10.50
SBAC043	12	18	6 m Composite	SC8280	588	22.5	12.46	5.05	26.39	4.36	278	1.84	207	64	11.96	32.4	3.74	1.80	125.1	11.39
SBAC043	18	24	6 m Composite	SC8281	597	22.4	13.26	5.14	25.93	4.23	279	1.52	210	64	18.71	33.5	3.66	1.76	127.6	11.05
SBAC043	24	30	6 m Composite	SC8282	626	25.6	14.64	5.74	28.58	4.82	315	1.82	244	73	12.27	36.6	4.14	1.94	146.7	11.96
SBAC043	30	36	6 m Composite	SC8283	634	28.7	16.07	5.81	30.20	5.83	314	2.14	240	72	13.65	37.5	4.53	2.34	170.2	13.66
SBAC043	36	42	6 m Composite	SC8284	536	23.0	11.34	5.45	25.93	4.56	250	1.44	196	58	16.87	33.5	3.93	1.66	127.6	9.88
SBAC043	42	48	6 m Composite	SC8285	523	23.4	13.04	5.78	27.78	4.58	240	1.41	193	57	14.11	32.1	3.87	1.67	128.3	9.76
SBAC043	48	54	6 m Composite	SC8286	564	22.7	12.24	6.14	27.78	4.36	263	1.57	211	61	17.18	33.7	4.05	1.69	123.4	10.86
SBAC043	54	60	6 m Composite	SC8287	491	20.5	10.49	5.56	24.44	4.23	229	1.55	186	54	15.95	29.9	3.62	1.44	117.9	10.20
SBAC044	0	6	6 m Composite	SC8288	544	18.8	10.02	3.50	22.25	3.60	269	1.23	186	58	8.44	28.3	3.05	1.26	105.3	8.57
SBAC044	6	12	6 m Composite	SC8289	649	22.2	11.38	3.83	26.28	4.24	312	1.31	218	68	8.59	34.3	3.78	1.76	125.3	10.34
SBAC044	12	18	6 m Composite	SC8290	645	21.4	10.91	3.62	24.44	3.99	317	1.32	212	67	6.44	32.0	3.60	1.60	118.1	9.14
SBAC044	18	24	6 m Composite	SC8291	574	21.4	11.78	3.59	24.90	4.06	277	1.39	191	60	9.82	29.6	3.75	1.64	121.2	10.46
SBAC044	24	28	4 m Composite	SC8292	634	23.8	13.38	3.84	27.09	4.60	308	1.75	214	67	12.58	33.4	3.92	1.74	132.1	10.31
SBAC044	28	34	6 m Composite	SC8293	576	21.4	11.49	3.64	24.32	4.18	280	1.50	191	60	9.05	29.7	3.48	1.54	123.3	10.52
SBAC044	34	40	6 m Composite	SC8294	752	26.2	14.24	4.65	29.51	4.96	365	1.83	255	77	11.04	39.1	4.29	1.90	145.4	12.01
SBAC044	40	46	6 m Composite	SC8295	682	23.9	13.15	4.27	28.01	4.47	334	1.82	230	70	11.04	37.1	4.06	1.66	131.4	11.61
SBAC044	46	52	6 m Composite	SC8296	773	25.3	13.66	4.12	29.97	4.63	379	1.39	258	80	13.96	36.4	4.42	1.76	136.5	11.67
SBAC044	52	58	6 m Composite	SC8297	684	23.2	12.35	4.03	28.01	4.26	346	1.59	239	73	15.49	34.7	3.88	1.77	128.3	10.78
SBAC044	58	60	2 m Composite	SC8298	759	27.0	13.95	4.04	30.31	5.03	375	1.61	268	82	18.71	39.7	4.54	2.06	149.2	12.58

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC045	0	6	6 m Composite	SC8299	604	20.3	10.20	3.08	22.13	3.81	308	1.34	212	63	13.34	29.0	3.28	1.58	109.1	9.05
SBAC045	6	12	6 m Composite	SC8300	688	24.1	12.12	3.97	28.82	4.49	351	1.64	248	75	13.65	37.0	4.10	1.86	135.2	11.90
SBAC045	12	18	6 m Composite	SC8301	753	25.3	13.21	3.72	29.74	4.94	373	1.68	265	82	13.50	41.2	4.16	1.96	143.5	11.84
SBAC045	18	24	6 m Composite	SC8302	762	26.1	12.92	3.98	29.05	4.77	379	1.55	261	81	14.72	38.6	4.41	1.91	141.6	12.53
SBAC045	24	30	6 m Composite	SC8303	751	24.3	11.84	3.95	28.01	4.57	379	1.57	254	78	10.12	37.5	4.39	1.76	139.1	10.97
SBAC045	30	36	6 m Composite	SC8304	781	27.1	14.64	3.88	30.08	5.10	399	1.59	258	82	11.66	40.4	4.82	2.03	154.3	13.15
SBAC045	36	42	6 m Composite	SC8305	768	25.4	14.01	4.35	29.05	4.87	395	1.89	264	80	13.34	39.5	4.42	1.80	142.2	11.84
SBAC045	42	44	2 m Composite	SC8306	741	25.0	13.04	3.32	30.77	5.03	378	1.41	268	82	13.34	39.3	4.69	1.76	144.8	11.30
SBAC046	4	10	6 m Composite	SC8307	685	19.8	9.70	2.99	23.86	3.62	344	1.27	234	72	7.82	36.1	3.54	1.45	112.1	8.41
SBAC046	10	16	6 m Composite	SC8308	871	28.5	14.58	2.92	33.08	5.35	436	1.73	300	93	10.89	43.8	5.19	2.10	162.6	12.58
SBAC046	16	24	8 m Composite	SC8309	883	26.6	13.26	3.01	31.00	4.79	449	1.34	294	93	11.35	42.1	4.56	1.80	142.2	10.29
SBAC046	24	30	6 m Composite	SC8310	1038	33.9	16.64	3.61	36.88	6.29	534	2.02	351	109	13.50	48.7	5.94	2.26	180.3	14.40
SBAC046	30	36	6 m Composite	SC8311	752	26.1	13.32	3.02	28.58	4.88	391	1.57	260	78	15.95	40.0	4.48	1.75	140.3	11.67
SBAC046	36	42	6 m Composite	SC8312	1212	42.8	20.98	3.54	48.87	8.25	593	2.76	416	130	20.55	63.8	7.26	2.96	229.2	18.11
SBAC046	42	48	6 m Composite	SC8313	1904	51.0	24.70	3.35	63.74	9.52	930	3.16	608	192	23.62	87.7	8.70	3.72	284.5	22.89
SBAC046	48	54	6 m Composite	SC8314	753	22.3	11.49	3.11	26.51	4.24	389	1.32	257	80	12.12	38.7	3.94	1.58	125.0	10.29
SBAC046	54	60	6 m Composite	SC8315	757	27.4	13.84	3.83	31.12	5.29	378	1.47	266	81	9.05	39.3	4.90	2.01	153.0	13.21
SBAC047	0	6	6 m Composite	SC8316	526	18.0	8.32	2.54	21.90	3.08	265	1.09	178	55	8.59	26.9	3.32	1.21	98.3	7.96
SBAC047	6	12	6 m Composite	SC8317	588	19.4	10.44	3.36	23.17	3.78	303	1.18	205	63	8.28	31.4	3.38	1.36	112.0	9.10
SBAC047	12	18	6 m Composite	SC8318	725	25.7	13.21	3.11	28.35	4.63	373	1.43	241	76	13.65	37.5	3.98	1.88	139.7	12.30
SBAC047	18	24	6 m Composite	SC8319	782	27.3	14.18	3.98	30.54	5.26	399	1.57	274	83	16.72	43.1	4.88	1.93	157.5	13.10
SBAC047	24	30	6 m Composite	SC8320	704	23.4	11.89	3.81	27.09	4.55	360	1.57	233	73	10.43	36.5	4.08	1.71	130.8	10.36
SBAC047	30	36	6 m Composite	SC8321	770	27.3	14.47	4.28	30.89	5.15	399	1.98	265	82	13.65	40.4	4.92	2.11	160.0	13.44
SBAC047	36	42	6 m Composite	SC8322	720	26.9	14.07	3.62	30.20	5.35	366	1.73	257	76	9.82	35.7	4.68	2.11	151.8	12.81
SBAC047	42	48	6 m Composite	SC8323	763	27.7	14.12	3.81	31.81	5.28	385	1.61	264	81	12.27	40.6	5.05	2.03	153.0	11.96
SBAC047	48	54	6 m Composite	SC8324	752	27.9	14.24	4.01	31.58	5.27	378	1.68	265	81	14.26	38.5	4.78	2.08	149.2	12.64
SBAC047	54	60	6 m Composite	SC8325	754	27.1	14.52	3.72	31.81	5.28	378	1.75	259	81	13.65	41.5	4.99	2.18	157.5	14.12
SBRC048	0	4	4 m Composite	SC8326	404	19.1	10.15	3.75	19.77	3.56	203	1.32	156	46	17.18	25.3	3.22	1.43	106.2	9.77
SBRC048	4	10	6 m Composite	SC8327	499	21.1	11.16	3.88	21.32	4.03	256	1.72	180	54	14.26	27.3	3.68	1.46	120.9	10.70
SBRC048	10	16	6 m Composite	SC8328	558	24.7	13.09	4.21	25.93	4.72	273	1.59	211	61	17.03	34.2	4.07	1.83	140.3	12.35

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SBRC048	16	22	6 m Composite	SC8329	580	23.3	12.92	5.12	26.63	4.50	287	1.64	213	63	14.42	37.0	4.06	1.96	139.1	12.58
SBRC048	22	28	6 m Composite	SC8330	575	25.9	14.47	5.18	28.01	5.02	284	1.82	219	64	19.33	34.4	4.28	2.22	154.9	14.35
SBRC048	28	34	6 m Composite	SC8331	547	25.1	14.29	5.27	27.20	4.94	267	1.97	212	61	18.71	34.1	4.12	2.03	146.7	13.32
SBRC048	34	40	6 m Composite	SC8332	541	26.3	14.87	4.78	28.35	4.98	260	2.07	214	62	22.09	34.4	4.62	2.24	156.2	13.38
SBRC048	40	46	6 m Composite	SC8333	595	26.1	14.01	4.99	28.47	4.99	293	1.89	230	67	18.10	35.4	4.49	1.96	153.0	13.89
SBRC048	46	52	6 m Composite	SC8334	576	24.8	14.58	5.55	28.47	4.90	284	2.13	232	66	16.72	37.9	4.27	2.03	146.0	13.15
SBRC048	52	58	6 m Composite	SC8335	666	27.0	16.29	5.45	30.89	5.23	331	2.23	253	74	16.87	39.4	4.52	2.18	154.9	13.72
SBRC048	58	64	6 m Composite	SC8336	574	25.7	14.35	5.18	29.16	5.11	284	2.32	226	65	18.71	35.1	4.20	2.15	153.7	12.75
SBRC048	64	70	6 m Composite	SC8337	603	24.5	13.38	5.47	28.82	4.72	304	1.89	231	65	20.71	33.7	4.07	2.06	144.8	12.53
SBRC048	70	76	6 m Composite	SC8338	601	25.8	14.01	4.84	28.70	4.94	301	2.23	229	67	14.11	35.4	4.10	1.94	151.1	13.32
SBRC048	76	82	6 m Composite	SC8339	593	24.3	13.04	4.77	27.20	4.88	296	2.05	225	66	16.87	34.7	4.09	1.88	143.5	12.47
SBRC048	82	88	6 m Composite	SC8340	592	25.4	14.64	5.26	28.47	4.99	287	1.90	231	67	11.96	36.4	4.53	1.96	145.4	12.81
SBRC048	88	94	6 m Composite	SC8341	635	27.5	15.61	5.26	30.66	5.05	315	1.93	245	71	25.00	39.4	4.41	2.26	157.5	13.55
SBRC048	94	100	6 m Composite	SC8342	737	30.2	15.84	5.07	33.89	5.64	373	2.24	283	82	17.18	42.6	4.87	2.32	172.1	14.29
SBRC048	100	104	4 m Composite	SC8343	918	31.9	17.67	4.91	39.42	6.01	456	2.47	346	102	23.01	51.6	5.25	2.23	188.0	15.32
SBRC048	104	110	6 m Composite	SC8344	507	23.3	12.75	4.54	25.01	4.50	250	1.56	201	56	15.64	29.7	3.72	1.80	134.0	12.01
SBRC048	110	116	6 m Composite	SC8345	599	20.1	11.33	4.71	23.05	3.86	319	1.30	209	62	11.66	29.7	3.27	1.50	114.3	10.26
SBRC048	116	122	6 m Composite	SC8346	513	23.9	13.55	5.03	26.39	4.65	253	1.96	208	58	19.94	36.0	3.78	1.90	142.2	13.27
SBRC048	122	128	6 m Composite	SC8347	617	27.3	14.92	4.94	30.20	4.88	301	2.21	246	68	17.64	38.4	4.32	2.19	157.5	13.72
SBRC048	128	134	6 m Composite	SC8348	629	28.6	17.10	5.64	31.93	5.51	312	2.24	251	73	17.18	39.4	4.78	2.17	163.8	14.06
SBRC048	134	140	6 m Composite	SC8349	586	27.1	15.21	5.33	29.97	4.93	285	1.93	237	69	18.41	35.7	4.58	2.04	157.5	13.89
SBRC048	140	146	6 m Composite	SC8350	654	29.7	16.29	6.24	32.27	5.69	323	2.02	257	69	15.95	41.2	5.20	2.26	168.9	13.72
SBRC048	146	152	6 m Composite	SC8351	609	27.9	16.52	5.40	30.89	5.64	306	2.27	238	64	15.49	39.1	4.81	2.41	162.6	14.80
SBRC048	152	158	6 m Composite	SC8352	623	27.1	15.61	5.22	30.89	5.27	305	2.00	241	66	15.80	40.0	4.76	2.12	160.6	12.47
SBRC048	158	164	6 m Composite	SC8353	650	32.7	17.38	5.38	35.96	6.37	313	1.86	258	70	20.71	45.0	5.47	2.50	181.0	14.58
SBRC048	164	170	6 m Composite	SC8354	618	30.0	15.89	5.79	32.27	5.96	304	2.14	237	64	17.03	40.8	5.12	2.18	167.6	14.40
SBRC048	170	176	6 m Composite	SC8355	655	30.3	17.15	5.28	32.73	5.81	331	1.98	246	68	14.42	42.7	5.13	2.24	171.4	13.95
SBRC048	176	182	6 m Composite	SC8356	743	28.1	16.47	5.28	32.85	5.42	385	1.96	264	76	19.33	41.8	5.08	2.14	164.5	12.35
SBRC048	182	188	6 m Composite	SC8357	853	26.9	15.78	5.14	31.70	5.13	462	1.61	285	82	13.65	42.1	4.83	2.07	152.4	12.07
SBRC048	188	194	6 m Composite	SC8358	710	30.8	16.98	5.48	33.43	6.00	360	2.02	259	72	9.97	45.1	5.14	2.20	168.3	13.38

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SBRC048	194	200	6 m Composite	SC8359	711	28.2	15.72	4.93	31.58	5.04	362	2.01	261	72	14.11	40.6	4.79	2.00	160.6	12.47
SBRC048	200	204	4 m Composite	SC8360	601	28.1	15.72	5.65	31.81	5.37	296	1.76	229	63	16.87	38.5	4.82	2.10	160.0	12.92
SBRC048	204	210	6 m Composite	SC8361	757	29.5	17.04	5.77	33.31	5.50	396	2.21	266	76	11.81	39.2	4.94	2.22	173.3	12.75
SBRC048	210	216	6 m Composite	SC8362	837	32.1	18.87	5.96	36.54	6.63	435	2.30	301	84	12.73	45.6	5.36	2.56	182.9	14.75
SBRC048	216	222	6 m Composite	SC8363	620	28.4	14.98	5.64	32.50	5.42	308	1.81	238	65	15.95	40.7	5.06	2.17	163.2	12.81
SBRC048	222	228	6 m Composite	SC8364	658	28.2	15.38	5.14	30.89	5.28	330	1.72	246	68	17.79	40.4	4.83	1.92	162.6	11.61
SBRC048	228	234	6 m Composite	SC8365	603	25.9	13.84	5.04	27.78	5.26	301	1.88	222	62	17.18	37.0	4.22	1.93	149.2	11.96
SBRC048	234	240	6 m Composite	SC8366	758	26.3	14.64	6.06	28.58	5.02	401	1.89	254	74	19.17	40.4	4.58	2.08	156.2	12.30
SBAC049	0	6	6 m Composite	SC8367	474	13.1	7.17	2.71	16.60	2.50	246	0.99	169	49	5.52	23.3	2.56	1.07	70.4	5.69
SBAC049	6	12	6 m Composite	SC8368	429	16.4	7.98	2.89	19.54	2.94	217	0.84	170	47	10.43	26.6	2.81	0.97	83.8	6.21
SBAC049	12	18	6 m Composite	SC8369	322	21.2	13.09	3.22	22.71	4.22	141	1.60	144	36	17.18	28.0	3.42	1.60	125.9	9.47
SBAC049	18	24	6 m Composite	SC8370	317	18.3	9.72	3.13	19.31	3.31	144	1.23	135	36	16.10	24.5	3.21	1.32	105.0	8.55
SBAC049	24	30	6 m Composite	SC8371	362	21.1	10.63	3.38	21.50	3.95	172	1.34	158	41	17.79	26.6	3.54	1.55	118.6	8.60
SBAC049	30	36	6 m Composite	SC8372	348	19.3	11.21	3.28	22.13	4.25	164	1.40	155	40	17.49	28.5	3.47	1.53	121.5	9.27
SBAC049	36	42	6 m Composite	SC8373	344	18.9	10.70	3.20	20.63	3.89	167	1.24	154	39	12.42	26.9	3.02	1.44	112.4	8.77
SBAC049	42	48	6 m Composite	SC8374	297	17.4	9.38	2.87	17.81	3.64	143	1.19	126	34	14.57	22.2	2.92	1.34	100.6	8.10
SBAC049	48	54	6 m Composite	SC8375	287	14.8	8.95	2.61	18.27	3.23	138	1.24	126	34	17.18	24.5	2.79	1.21	90.8	7.22
SBAC049	54	60	6 m Composite	SC8376	333	19.3	11.61	3.35	19.82	4.03	157	1.48	143	38	15.95	24.7	2.99	1.43	118.0	8.63
SBAC050	0	4	4 m Composite	SC8377	299	13.1	7.02	3.96	15.50	2.46	169	0.93	128	34	11.50	20.4	2.29	0.89	80.3	5.74
SBAC050	4	10	6 m Composite	SC8378	371	16.1	8.61	3.77	17.29	3.10	196	1.11	143	41	11.50	22.0	2.76	1.15	95.4	7.45
SBAC050	10	16	6 m Composite	SC8379	308	13.1	8.11	2.93	14.98	2.70	162	0.93	124	33	7.06	20.1	2.48	0.93	80.3	5.51
SBAC050	16	22	6 m Composite	SC8380	469	27.9	14.52	3.24	29.74	5.49	228	1.51	204	53	16.26	38.5	4.78	1.88	151.8	9.42
SBAC050	22	28	6 m Composite	SC8381	630	22.8	12.41	3.52	27.55	4.43	331	1.33	231	66	13.19	35.8	4.03	1.46	124.7	8.12
SBAC050	28	34	6 m Composite	SC8382	763	25.1	11.72	3.57	28.58	4.79	405	1.35	273	79	15.18	40.4	4.39	1.61	127.6	8.43
SBAC050	34	40	6 m Composite	SC8383	749	24.0	11.95	4.04	26.86	4.34	394	1.32	265	78	9.51	39.3	4.23	1.48	122.2	8.18
SBAC050	40	46	6 m Composite	SC8384	667	23.1	11.27	3.45	26.86	4.06	353	1.24	233	69	11.20	38.0	4.13	1.51	123.1	8.19
SBAC050	46	52	6 m Composite	SC8385	688	21.9	11.21	3.77	25.70	4.24	364	1.23	234	70	14.57	39.0	3.88	1.46	116.2	8.54
SBAC050	52	58	6 m Composite	SC8386	629	21.6	11.07	3.43	26.51	4.10	333	1.32	231	66	7.82	33.4	3.74	1.43	109.9	8.46
SBAC050	58	60	2 m Composite	SC8387	303	14.5	7.63	3.05	15.39	2.77	157	0.82	118	33	8.44	21.2	2.52	0.98	78.4	6.37
SBAC051	0	6	6 m Composite	SC8388	486	22.9	11.95	4.02	25.70	4.64	246	1.69	202	55	14.11	32.8	4.13	1.66	127.0	10.33

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SBAC051	6	12	6 m Composite	SC8389	461	21.6	12.29	4.34	23.05	4.03	249	1.51	185	50	10.89	29.3	3.72	1.68	123.9	9.47
SBAC051	12	18	6 m Composite	SC8390	397	20.8	12.86	4.15	26.05	3.87	196	1.57	170	45	10.28	29.2	3.61	1.59	118.0	8.55
SBAC051	18	24	6 m Composite	SC8391	312	18.3	10.02	4.71	18.96	3.59	159	1.25	135	35	7.52	23.2	3.06	1.26	103.2	8.68
SBAC051	24	30	6 m Composite	SC8392	327	17.3	10.58	4.03	20.46	3.84	164	1.34	146	37	9.51	22.9	3.22	1.40	106.3	8.03
SBAC051	30	36	6 m Composite	SC8393	354	19.2	10.45	4.34	20.92	3.97	179	1.43	155	40	11.96	27.0	3.38	1.39	111.0	8.41
SBAC051	36	44	8 m Composite	SC8394	305	16.0	8.07	3.40	17.92	3.13	154	1.16	130	34	11.04	23.5	2.42	1.03	86.0	6.99
SBAC051	44	50	6 m Composite	SC8395	393	18.1	9.53	3.99	19.54	3.21	201	1.26	160	44	10.89	25.3	2.99	1.32	102.9	8.05
SBAC051	50	56	6 m Composite	SC8396	538	24.0	12.46	5.99	24.55	4.54	291	1.51	211	58	15.95	34.1	4.00	1.60	136.5	10.42
SBAC051	56	60	4 m Composite	SC8397	456	19.9	10.84	5.96	21.50	4.07	238	1.48	180	48	11.04	31.0	3.29	1.62	113.5	8.96
SBAC052	0	6	6 m Composite	SC8398	579	24.0	13.04	3.65	27.43	4.69	326	1.59	234	65	10.74	35.1	4.33	1.59	137.8	11.67
SBAC052	6	12	6 m Composite	SC8399	706	29.4	15.84	4.01	32.04	5.72	359	1.86	267	72	10.74	40.1	5.01	2.10	161.3	12.70
SBAC052	12	18	6 m Composite	SC8400	1007	32.9	17.55	4.82	37.69	6.37	554	2.31	343	101	11.20	49.4	5.52	2.44	184.1	15.66
SBAC052	18	24	6 m Composite	SC8401	791	21.1	11.95	4.50	25.24	4.41	443	1.32	257	79	7.21	36.1	3.99	1.61	128.3	10.34
SBAC052	24	30	6 m Composite	SC8402	835	23.3	11.78	4.62	26.97	4.48	471	1.42	278	81	9.51	39.9	3.79	1.64	123.3	9.69
SBAC052	30	36	6 m Composite	SC8403	978	31.5	16.29	4.64	33.66	5.70	537	1.99	327	98	13.65	49.6	5.68	2.27	159.4	13.95
SBAC052	36	42	6 m Composite	SC8404	948	26.1	14.64	5.26	30.08	4.99	523	1.64	325	96	8.90	44.9	4.43	1.82	146.7	12.30
SBAC052	42	48	6 m Composite	SC8405	727	25.5	14.35	4.67	30.54	5.09	359	1.72	254	72	8.44	39.9	4.39	1.76	137.2	12.30
SBAC052	48	54	6 m Composite	SC8406	760	27.7	14.29	4.89	32.73	5.28	371	1.91	262	75	7.36	40.5	4.47	2.04	149.2	11.90
SBAC052	54	60	6 m Composite	SC8407	822	27.8	14.41	4.26	29.74	4.99	418	1.57	267	81	11.50	42.6	4.61	1.98	142.9	11.79
SBAC053	0	6	6 m Composite	SC8408	639	20.7	12.29	3.40	25.82	3.97	315	1.73	212	64	9.05	31.3	3.82	1.61	122.2	10.57
SBAC053	6	12	6 m Composite	SC8409	706	22.0	12.01	3.84	25.59	4.35	357	1.69	226	70	9.20	32.4	4.08	1.75	128.3	11.56
SBAC053	12	18	6 m Composite	SC8410	765	26.3	14.41	3.86	32.73	5.45	381	1.69	258	77	10.89	38.7	4.62	1.91	154.3	12.24
SBAC053	18	24	6 m Composite	SC8411	725	27.3	14.58	4.12	30.43	5.40	353	1.86	237	73	8.13	37.7	4.95	2.08	152.4	12.53
SBAC053	24	30	6 m Composite	SC8412	683	25.7	13.95	3.76	31.70	5.17	331	1.71	237	70	14.88	38.4	4.61	1.98	148.6	11.50
SBAC053	30	36	6 m Composite	SC8413	634	21.2	10.94	3.66	23.74	3.89	318	1.52	209	62	7.21	34.7	3.72	1.60	125.1	10.57
SBAC053	36	42	6 m Composite	SC8414	624	19.9	10.91	3.59	22.59	3.77	314	1.56	204	63	8.74	32.1	3.78	1.48	115.4	9.29
SBAC053	42	48	6 m Composite	SC8415	583	17.3	9.97	3.62	19.19	3.34	298	1.47	189	60	7.98	27.1	3.08	1.47	103.6	9.42
SBAC053	48	54	6 m Composite	SC8416	727	23.8	13.44	4.03	27.89	4.75	358	1.54	244	75	11.50	36.2	4.38	1.82	140.3	11.61
SBAC053	54	60	6 m Composite	SC8417	771	25.9	15.89	3.88	30.54	4.89	378	2.16	269	79	10.58	40.1	4.59	1.94	151.1	12.47
SBAC053	60	66	6 m Composite	SC8418	742	24.7	13.72	3.87	28.70	4.90	368	1.63	248	77	5.06	36.8	4.76	1.80	143.5	11.96

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC053	66	72	6 m Composite	SC8419	704	22.0	12.92	4.12	27.32	4.44	342	1.58	243	74	11.04	34.8	4.07	1.79	130.2	10.13
SBAC053	72	78	6 m Composite	SC8420	721	22.6	13.15	4.10	29.39	4.86	360	1.68	248	76	7.98	38.9	4.47	1.63	139.1	11.10
SBAC053	78	84	6 m Composite	SC8421	710	24.8	13.15	4.27	29.05	4.82	349	1.83	236	74	11.96	38.7	4.41	1.71	135.9	12.07
SBAC053	84	90	6 m Composite	SC8422	774	24.5	13.95	3.65	29.97	4.95	382	1.77	254	81	10.28	40.7	4.80	1.79	141.6	12.47
SBAC053	90	96	6 m Composite	SC8423	746	23.8	13.78	3.88	28.93	5.05	366	2.00	255	78	8.44	40.8	4.88	1.90	139.7	10.81
SBAC053	96	102	6 m Composite	SC8424	732	24.9	13.84	3.72	29.74	5.18	360	1.94	248	75	9.97	38.2	4.83	1.82	146.0	11.90
SBAC053	102	108	6 m Composite	SC8425	1010	34.1	18.92	3.58	40.23	6.68	489	2.32	342	106	14.42	53.2	6.21	2.64	192.4	15.60
SBAC053	108	114	6 m Composite	SC8426	931	35.4	20.98	4.41	42.19	7.51	441	2.33	341	101	14.88	54.2	6.77	2.83	212.1	17.19
SBAC053	114	120	6 m Composite	SC8427	883	34.9	19.33	4.61	39.53	6.69	420	2.38	324	95	15.95	50.8	6.32	2.57	196.2	16.11
SBAC054	0	3	3 m Composite	SC8428	640	22.2	11.18	3.84	25.70	4.33	327	1.31	222	69	4.29	35.6	3.88	1.58	123.3	9.45
SBAC054	4	10	6 m Composite	SC8429	631	20.6	11.55	3.47	24.55	4.08	318	1.32	212	65	8.90	33.6	3.96	1.54	122.6	9.23
SBAC054	10	16	6 m Composite	SC8430	679	23.1	13.04	3.62	26.97	4.71	334	1.85	232	72	8.28	35.4	4.32	1.75	135.9	10.90
SBAC054	16	22	6 m Composite	SC8431	834	24.8	14.07	4.06	29.28	4.77	426	1.72	275	86	10.43	41.8	4.69	1.96	148.6	11.90
SBAC054	22	28	6 m Composite	SC8432	791	25.9	14.35	3.94	28.93	5.40	394	1.75	271	83	9.05	42.3	4.98	1.99	155.6	12.35
SBAC054	28	34	6 m Composite	SC8433	785	25.1	14.92	3.98	29.51	5.32	394	1.85	267	81	9.51	40.5	4.95	2.26	155.6	13.15
SBAC054	34	40	6 m Composite	SC8434	860	30.6	17.10	3.98	33.31	6.43	423	2.08	300	90	12.27	46.0	5.73	2.24	181.0	14.18
SBAC054	40	46	6 m Composite	SC8435	776	26.1	14.87	3.93	31.12	5.41	379	1.93	264	82	13.65	41.9	4.95	2.01	157.5	12.35
SBAC054	46	52	6 m Composite	SC8436	736	28.5	15.67	4.08	32.62	5.26	354	1.99	250	78	13.04	38.3	4.95	2.12	150.5	13.72
SBAC054	52	58	6 m Composite	SC8437	735	27.2	15.27	3.99	32.27	5.26	355	1.98	253	78	11.20	38.4	4.61	2.08	149.9	13.27
SBAC054	58	60	2 m Composite	SC8438	725	25.5	13.95	4.41	28.58	4.57	352	1.77	247	77	11.96	39.0	4.34	1.91	143.5	12.18
SBAC055	0	6	6 m Composite	SC8439	593	22.2	12.01	3.74	25.47	4.31	291	1.73	209	63	13.04	32.6	3.83	1.64	127.6	11.50
SBAC055	6	12	6 m Composite	SC8440	676	26.1	14.12	3.79	26.74	4.96	328	1.72	232	71	11.20	33.9	4.22	2.03	149.2	13.15
SBAC055	12	18	6 m Composite	SC8441	668	27.1	15.09	4.35	29.51	5.20	325	1.89	228	72	12.88	38.5	4.42	2.10	152.4	14.40
SBAC055	18	24	6 m Composite	SC8442	622	26.4	14.81	4.42	28.35	4.90	299	1.80	222	69	15.80	36.2	4.21	2.06	146.7	13.10
SBAC055	24	30	6 m Composite	SC8443	797	29.3	15.67	4.79	32.39	5.29	388	2.05	274	85	16.26	42.2	4.79	2.19	161.9	13.21
SBAC055	30	36	6 m Composite	SC8444	887	28.0	15.44	4.31	32.39	5.14	441	1.76	287	94	13.04	40.8	4.76	2.24	154.3	13.38
SBAC055	36	43	7 m Composite	SC8445	677	24.8	13.49	4.38	26.97	4.40	333	1.83	228	72	12.88	34.0	4.13	1.99	141.6	12.92
SBAC055	44	50	6 m Composite	SC8446	727	26.4	14.24	4.33	28.01	4.99	357	2.12	254	77	12.88	35.6	4.36	2.02	153.0	13.04
SBAC055	50	56	6 m Composite	SC8447	714	26.3	15.04	4.68	30.43	4.96	346	2.08	238	76	14.72	37.0	4.50	2.17	156.2	13.04
SBAC055	56	60	4 m Composite	SC8448	698	25.3	14.24	4.46	28.01	4.88	339	1.88	237	74	14.11	36.1	4.35	1.92	149.2	13.38

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SBAC056	0	6	6 m Composite	SC8449	413	18.4	10.04	2.88	20.23	3.39	198	1.30	149	47	16.87	23.8	3.02	1.22	101.0	9.31
SBAC056	6	12	6 m Composite	SC8450	405	18.8	10.79	3.27	19.82	3.71	188	1.36	143	44	15.95	24.2	2.93	1.55	114.4	9.61
SBAC056	12	18	6 m Composite	SC8451	335	16.0	8.08	2.43	15.91	2.88	158	1.14	118	37	13.19	19.9	2.45	1.26	89.4	7.65
SBAC056	18	24	6 m Composite	SC8452	323	13.7	8.29	2.63	15.39	2.81	148	1.03	113	35	12.42	20.1	2.16	1.14	84.7	8.44
SBAC056	24	30	6 m Composite	SC8453	295	14.0	7.88	2.44	14.70	2.60	138	1.08	106	32	11.20	18.4	2.26	1.06	79.5	6.90
SBAC056	30	36	6 m Composite	SC8454	387	18.8	10.63	2.92	18.67	3.60	185	1.48	136	42	14.88	23.0	2.88	1.51	103.9	9.45
SBAC056	36	42	6 m Composite	SC8455	382	17.5	10.97	2.70	18.79	3.41	184	1.42	132	41	13.65	21.7	2.87	1.35	102.6	9.11
SBAC056	42	48	6 m Composite	SC8456	420	18.8	11.21	3.35	20.40	3.67	204	1.21	142	45	16.10	24.4	3.38	1.46	109.2	9.74
SBAC056	48	54	6 m Composite	SC8457	451	19.0	10.75	3.14	20.80	4.01	222	1.52	150	49	18.41	25.6	3.19	1.68	113.8	9.99
SBAC056	54	60	6 m Composite	SC8458	479	19.6	10.77	2.93	20.80	3.87	239	1.51	158	51	14.57	25.1	3.32	1.48	112.5	10.29
SBRC057	0	6	6 m Composite	SC8459	660	26.2	13.78	4.01	28.82	4.69	319	1.57	237	72	10.43	36.5	4.38	1.85	141.0	11.56
SBRC057	6	12	6 m Composite	SC8460	705	28.8	15.89	3.93	31.24	5.49	339	1.90	248	75	10.12	39.7	4.78	2.22	160.6	13.44
SBRC057	12	18	6 m Composite	SC8461	765	32.0	18.58	4.11	34.35	6.07	366	2.37	262	83	14.72	42.9	5.38	2.41	178.4	15.37
SBRC057	18	23	5 m Composite	SC8462	607	23.6	13.49	4.16	25.82	4.35	298	1.80	206	65	9.66	32.6	4.02	1.80	130.8	11.16
SBRC057	24	30	6 m Composite	SC8463	542	20.3	10.77	4.06	22.53	3.89	270	1.61	180	58	9.05	28.0	3.36	1.44	115.2	10.56
SBRC057	30	36	6 m Composite	SC8464	608	24.8	14.07	3.97	28.35	4.85	298	1.82	211	67	12.73	33.6	4.32	1.85	141.6	12.07
SBRC057	36	42	6 m Composite	SC8465	819	26.5	15.89	4.32	35.04	5.68	402	2.00	287	83	13.96	43.7	5.40	2.22	162.6	14.40
SBRC057	42	48	6 m Composite	SC8466	849	29.0	16.18	4.20	33.66	5.92	408	2.05	296	86	13.96	43.5	5.22	2.18	167.6	15.03
SBRC057	48	54	6 m Composite	SC8467	672	29.3	15.67	3.87	31.12	5.44	323	1.92	230	73	10.89	37.5	4.68	2.28	160.0	13.95
SBRC057	54	60	6 m Composite	SC8468	708	30.1	17.72	4.08	32.04	5.49	337	2.10	248	78	13.34	42.2	4.89	2.27	174.6	15.37
SBRC057	60	66	6 m Composite	SC8469	668	30.3	16.12	4.23	31.12	5.67	320	1.98	229	72	12.58	39.2	4.86	2.26	167.0	14.29
SBRC057	66	72	6 m Composite	SC8470	774	23.9	13.38	3.87	29.05	4.54	385	1.52	257	74	7.98	37.7	4.25	2.01	141.6	11.67
SBRC057	72	78	6 m Composite	SC8471	758	28.7	15.72	4.15	33.43	5.56	375	1.96	255	75	11.81	39.2	5.05	2.26	172.1	13.89
SBRC057	78	84	6 m Composite	SC8472	748	28.5	18.58	4.41	34.23	5.61	366	2.15	255	73	11.66	41.5	5.27	2.48	171.4	13.61
SBRC057	84	90	6 m Composite	SC8473	923	29.5	17.04	3.79	35.15	6.16	457	2.29	302	89	12.73	47.2	5.69	2.47	182.2	13.95
SBRC057	90	96	6 m Composite	SC8474	779	27.4	15.89	4.37	32.16	5.45	379	1.84	260	77	12.12	41.2	5.02	2.07	165.1	13.66
SBRC057	96	102	6 m Composite	SC8475	688	25.7	14.47	4.04	30.20	5.20	335	1.91	239	66	11.20	38.4	4.59	2.07	149.2	12.81
SBRC057	102	108	6 m Composite	SC8476	829	31.8	17.90	4.43	37.92	6.27	392	1.99	293	81	14.26	46.2	5.80	2.56	184.8	15.03
SBRC057	108	114	6 m Composite	SC8477	1076	25.8	14.98	4.42	35.27	4.83	538	1.54	349	102	15.34	47.1	4.92	1.93	146.0	11.67
SBRC057	114	120	6 m Composite	SC8478	575	21.8	12.64	4.75	27.55	4.28	277	1.71	208	57	11.20	33.4	4.08	1.56	129.5	11.73

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SBAC058	0	3	3 m Composite	SC8479	590	19.2	3.84	11.03	23.97	3.86	323	1.36	212	64	9.82	30.0	3.68	1.42	113.4	9.78
SBAC058	4	10	6 m Composite	SC8480	684	25.0	4.24	13.32	28.58	5.09	353	1.73	236	71	14.72	35.8	4.29	2.01	144.1	11.96
SBAC058	10	16	6 m Composite	SC8481	741	26.6	4.59	14.29	31.7	5.35	379	1.84	260	78	16.26	38.3	4.76	2.01	161.3	12.92
SBAC058	16	22	6 m Composite	SC8482	714	26.5	4.56	14.64	31.24	5.4	366	1.89	250	77	13.19	39.3	4.73	2.1	156.8	12.92
SBAC058	22	28	6 m Composite	SC8483	672	25.1	4.45	13.66	30.08	5.3	340	1.82	247	72	12.58	37.0	4.52	1.94	148.6	12.3
SBAC058	28	34	6 m Composite	SC8484	585	23.5	4.3	12.98	26.86	4.47	299	1.74	209	62	13.8	34.3	4.21	1.87	131.4	11.5
SBAC058	34	40	6 m Composite	SC8485	656	25.8	4.13	12.69	29.97	4.95	337	2.1	233	69	16.87	36.3	4.52	2.03	141.6	12.18
SBAC058	40	46	6 m Composite	SC8486	771	29.7	4.53	17.32	33.54	5.74	386	2.12	260	76	14.11	41.4	5.10	2.25	164.5	13.89
SBAC058	46	52	6 m Composite	SC8487	757	28.8	4.59	17.55	32.96	5.54	378	2.05	251	75	13.8	39.7	5.14	2.44	166.4	14.01
SBAC058	52	58	6 m Composite	SC8488	740	26.7	4.6	14.29	31.93	5.18	367	1.71	237	72	10.43	35.4	4.81	1.87	149.2	13.61
SBAC058	58	60	2 m Composite	SC8489	753	28.2	4.2	16.47	33.54	5.44	373	1.77	245	73	12.12	39.7	4.83	2.14	154.3	13.38
SBAC059	0	6	6 m Composite	SC8490	568	22.3	3.84	11.49	27.89	4.25	310	1.47	205	63	10.12	30.6	3.92	1.67	117.5	9.49
SBAC059	6	12	6 m Composite	SC8491	661	27.8	4.08	14.81	31.93	4.97	330	2.09	230	69	14.26	37.3	4.52	1.93	147.3	12.41
SBAC059	12	18	6 m Composite	SC8492	838	33.1	4.56	18.7	38.04	6.56	409	1.98	283	84	15.64	48.1	5.73	2.55	181.6	15.37
SBAC059	18	24	6 m Composite	SC8493	732	26.6	4.2	15.49	32.5	5.21	353	1.82	244	73	11.66	39.1	4.96	1.9	149.2	13.32
SBAC059	24	30	6 m Composite	SC8494	678	27.4	4.37	15.61	30.89	5.3	334	2.09	225	67	13.65	37.5	4.96	2.1	148.6	13.72
SBAC059	30	36	6 m Composite	SC8495	740	28.8	4.34	16.07	34.23	5.84	367	1.98	246	73	14.26	39.1	4.85	2.11	156.8	13.89
SBAC059	36	43	7 m Composite	SC8496	785	31.2	4.9	17.55	35.27	5.97	384	2.1	260	78	13.96	43.4	5.12	2.51	165.7	14.86
SBAC059	44	50	6 m Composite	SC8497	728	31.9	4.19	19.15	35.38	6.47	352	1.89	245	73	12.73	44.4	5.88	2.27	172.1	15.09
SBAC059	50	56	6 m Composite	SC8498	736	28.1	4.39	15.72	32.27	5.34	364	1.83	241	74	13.8	43.1	5.01	2.04	153.0	13.38
SBAC059	56	60	4 m Composite	SC8499	740	28.6	4.5	15.67	32.96	5.52	360	2.07	244	72	13.8	39.5	4.87	2.24	152.4	13.1
SBAC060	0	6	6 m Composite	SC8500	550	21.5	3.83	12.86	26.16	4.22	279	1.43	191	56	8.44	31.1	3.72	1.68	117.3	10.68
SBAC060	6	12	6 m Composite	SC8501	549	23.2	3.82	13.15	26.74	4.7	269	1.61	189	55	11.2	31.5	3.79	1.83	127.6	11.18
SBAC060	12	18	6 m Composite	SC8502	765	29.2	4.61	17.15	32.27	5.78	381	2.29	254	75	14.26	41.5	5.10	2.17	165.7	14.97
SBAC060	18	24	6 m Composite	SC8503	671	28.4	4.84	15.55	31.81	5.59	331	1.93	229	67	16.87	37.1	4.89	2.31	155.6	14.52
SBAC060	24	30	6 m Composite	SC8504	623	29.8	4.86	16.47	31.81	5.7	305	2.06	218	64	14.26	36.4	4.82	2.34	162.6	14.69
SBAC060	30	36	6 m Composite	SC8505	698	31.6	5.22	18.92	34.23	5.96	345	2.35	241	71	13.65	40.9	5.40	2.31	175.3	15.77
SBAC060	36	42	6 m Composite	SC8506	704	29.8	4.93	18.3	34.23	5.9	348	2.32	237	70	15.95	38.7	5.07	2.48	172.1	16.06
SBAC060	42	48	6 m Composite	SC8507	602	27.4	4.33	16.58	30.89	5.25	292	2.01	209	60	14.72	33.3	4.62	2.04	151.1	14.01
SBAC060	48	54	6 m Composite	SC8508	583	26.3	3.95	14.81	28.35	4.77	284	1.57	202	59	12.73	34.4	4.36	1.92	139.1	12.24

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC060	54	60	6 m Composite	SC8509	603	27.7	4.49	15.32	29.39	5.37	293	1.89	210	62	15.95	35.6	4.55	2.15	154.9	13.78
SBAC061	0	6	6 m Composite	SC8510	362	16.4	4.99	10.02	19.02	3.24	175	1.07	134	37	14.88	23.7	3.05	1.32	88.1	8.72
SBAC061	6	12	6 m Composite	SC8511	376	18.7	5.04	9.78	21.32	3.28	179	1.22	139	39	16.1	23.7	3.19	1.29	91.8	8.76
SBAC061	12	18	6 m Composite	SC8512	370	20.3	6.67	12.06	22.65	4.04	175	1.32	148	40	15.8	27.6	3.52	1.5	105.8	9.8
SBAC061	18	23	5 m Composite	SC8513	402	19.5	6.85	11.66	22.82	3.91	188	1.52	152	42	13.8	28.0	3.42	1.44	106.2	9.69
SBAC061	24	30	6 m Composite	SC8514	436	20.7	6.75	12.24	24.32	3.91	205	1.44	166	47	15.95	28.9	3.68	1.44	112.5	10.24
SBAC061	30	36	6 m Composite	SC8515	764	27.2	6.35	13.72	33.19	5.17	368	1.98	268	77	14.72	43.1	4.76	2.01	141.0	12.75
SBAC061	36	42	6 m Composite	SC8516	520	22.9	5.6	13.15	27.2	4.15	251	1.55	193	54	14.57	32.4	4.09	1.67	115.8	10.69
SBAC061	42	48	6 m Composite	SC8517	525	21.9	5.94	13.04	26.63	4.12	255	1.63	188	54	14.42	31.3	4.01	1.7	117.6	10.51
SBAC061	48	54	6 m Composite	SC8518	493	22.3	5.79	12.58	25.59	4.35	233	1.41	183	50	14.26	31.0	3.76	1.8	117.7	10.05
SBAC061	54	59	5 m Composite	SC8519	455	21.6	5.95	13.09	25.59	4.24	219	1.48	171	49	13.96	31.3	3.69	1.51	117.6	10.66
SBAC062	0	6	6 m Composite	SC8520	615	30.4	4.78	16.92	33.31	5.91	294	2.17	217	64	14.42	37.9	5.21	2.34	161.3	14.8
SBAC062	6	12	6 m Composite	SC8521	673	29.4	4.42	16.52	31.24	5.64	335	1.8	243	71	13.65	41.2	5.07	2.22	172.7	13.55
SBAC062	12	18	6 m Composite	SC8522	635	27.1	4.54	15.78	30.66	5.03	305	1.86	243	69	14.72	40.4	4.65	2.33	157.5	13.55
SBAC062	18	24	6 m Composite	SC8523	613	29.4	4.16	15.67	30.54	5.49	299	1.96	222	65	11.96	38.9	4.69	2.17	161.3	14.29
SBAC062	24	30	6 m Composite	SC8524	531	24.3	4.21	13.26	26.74	4.72	255	1.65	196	58	11.04	33.4	3.87	1.71	137.2	11.73
SBAC062	30	36	6 m Composite	SC8525	534	23.0	4.03	14.12	25.47	4.38	265	1.41	194	57	10.74	33.5	3.99	1.8	132.7	11.61
SBAC062	36	42	6 m Composite	SC8526	603	28.6	5.07	15.38	31.35	5.26	290	2.12	228	65	14.26	40.8	4.82	2.24	163.2	13.78
SBAC062	42	48	6 m Composite	SC8527	583	25.8	4.33	15.27	28.7	5.11	280	1.65	218	62	11.5	38.3	4.67	2.06	147.9	12.47
SBAC062	48	54	6 m Composite	SC8528	598	28.4	5.14	16.35	29.85	5.35	285	1.84	219	64	13.5	38.7	4.70	2.08	158.1	14.18
SBAC062	54	60	6 m Composite	SC8529	607	26.7	4.37	15.27	29.05	5.35	292	1.92	222	65	12.88	37.6	4.45	2	151.8	13.21
SBAC062	60	61	1 m Composite	SC8530	564	28.2	4.45	16.92	29.51	5.64	273	1.86	203	61	11.5	36.8	4.61	2.36	167.6	14.97
SBAC063	0	3	3 m Composite	SC8531	62	5.4	1.25	3.38	5.6	0.99	29	0.49	27	8	36.66	5.2	0.76	0.46	29.8	2.84
SBAC063	4	10	6 m Composite	SC8532	55	7.9	1.9	5.04	7.43	1.65	24	0.67	29	7	59.2	6.8	1.18	0.75	48.3	4.96
SBAC063	10	16	6 m Composite	SC8533	51	6.2	1.64	4.03	6.3	1.37	21	0.59	25	6	61.97	6.0	1.08	0.48	38.1	3.44
SBAC063	16	22	6 m Composite	SC8534	91	7.9	1.37	4.67	7.01	1.44	40	0.66	37	11	39.57	6.9	1.25	0.73	50.8	4.85
SBAC063	22	28	6 m Composite	SC8535	127	6.4	1.51	3.98	6.59	1.31	61	0.52	47	14	11.66	9.5	1.12	0.5	38.2	3.68
SBAC063	28	34	6 m Composite	SC8536	146	8.0	1.62	4.63	9.05	1.6	68	0.65	57	17	14.42	10.9	1.34	0.63	51.2	4.18
SBAC063	34	40	6 m Composite	SC8537	85	5.8	1.25	3.32	5.39	1.08	38	0.63	35	9	8.59	5.5	0.96	0.5	33.4	2.94
SBAC063	40	46	6 m Composite	SC8538	29	2.0	0.79	1.65	1.88	0.41	15	0.42	12	3	1.69	2.2	0.24	0.24	15.6	1.82

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC063	46	52	6 m Composite	SC8539	120	5.0	1.53	3.41	6.14	1.1	58	0.35	44	12	7.82	7.3	0.81	0.5	33.0	3.15
SBAC063	52	58	6 m Composite	SC8540	51	1.4	0.87	0.83	2.29	0.26	23	0.15	21	6	2.91	3.2	0.22	0.09	9.8	0.99
SBAC063	58	60	2 m Composite	SC8541	142	5.0	1.42	2.63	5.67	0.89	71	0.4	52	15	10.12	8.0	0.96	0.31	28.2	2.48
SBAC064	0	6	6 m Composite	SC8542	550	21.4	3.46	12.18	23.74	3.99	279	1.32	202	60	9.2	32.0	3.68	1.61	119.2	9.21
SBAC064	6	12	6 m Composite	SC8543	526	21.4	3.35	10.9	22.82	3.96	269	1.27	191	57	8.13	31.2	3.48	1.53	118.9	9.68
SBAC064	12	18	6 m Composite	SC8544	586	23.6	3.54	13.78	26.39	4.82	291	1.39	209	63	9.2	33.4	3.95	1.83	138.4	11.56
SBAC064	18	24	6 m Composite	SC8545	701	24.9	4.62	13.26	26.86	4.74	348	1.8	236	72	7.82	36.3	4.22	2.01	141.0	12.3
SBAC064	24	30	6 m Composite	SC8546	714	26.5	4.11	15.55	28.93	5.12	352	1.91	244	75	12.27	37.8	4.41	1.99	157.5	12.98
SBAC064	30	36	6 m Composite	SC8547	726	28.4	3.91	14.92	31.24	5.68	353	1.98	255	76	13.8	42.2	4.90	2.26	168.9	13.49
SBAC064	36	43	7 m Composite	SC8548	740	30.2	4.17	16.52	33.31	5.58	357	2	254	79	14.57	41.2	5.16	2.26	171.4	13.32
SBAC064	44	50	6 m Composite	SC8549	671	29.0	3.99	17.55	32.04	5.52	330	2.26	243	69	13.8	37.8	4.90	2.39	170.2	14.29
SBAC064	50	56	6 m Composite	SC8550	796	31.9	4.24	17.84	34.81	5.76	385	2.27	287	83	10.58	45.8	5.29	2.55	169.5	14.35
SBAC064	56	60	4 m Composite	SC8551	742	27.3	4.26	15.09	31.35	5.09	355	1.84	264	78	15.03	40.1	4.75	2.08	148.6	12.58
SBAC065	0	6	6 m Composite	SC8552	591	23.2	3.76	12.01	26.16	4.31	294	1.54	208	59	8.9	30.2	4.13	1.61	128.9	9.99
SBAC065	6	12	6 m Composite	SC8553	687	24.5	3.95	14.12	28.93	4.74	341	1.61	240	69	11.5	35.4	4.34	1.71	141.0	11.5
SBAC065	12	18	6 m Composite	SC8554	703	26.6	3.93	14.75	30.31	4.9	347	1.72	246	71	11.96	38.2	4.38	2.01	147.9	12.18
SBAC065	18	24	6 m Composite	SC8555	746	26.5	4.05	14.81	29.62	4.93	372	1.86	264	76	12.12	38.3	4.82	1.98	149.9	12.41
SBAC065	24	30	6 m Composite	SC8556	722	26.1	4.38	13.95	29.97	4.89	354	1.71	252	73	17.49	38.0	4.54	1.93	143.5	13.04
SBAC065	30	36	6 m Composite	SC8557	694	25.8	4.57	13.78	29.51	4.59	347	2.05	241	70	13.04	36.2	4.33	1.8	136.5	12.13
SBAC065	36	42	6 m Composite	SC8558	733	26.4	4.7	14.29	30.66	5.06	366	1.86	257	74	12.58	38.6	4.35	1.94	145.4	13.55
SBAC065	42	48	6 m Composite	SC8559	758	27.9	4.6	15.89	32.27	5.13	374	2.04	267	76	13.8	39.4	4.82	1.91	152.4	12.81
SBAC065	48	54	6 m Composite	SC8560	698	27.3	4.38	14.12	29.16	4.69	346	1.75	254	73	15.64	37.3	4.56	1.83	145.4	11.9
SBAC065	54	60	6 m Composite	SC8561	682	24.9	4.02	12.98	28.01	4.44	344	1.66	237	68	11.04	35.1	4.01	1.9	128.9	10.73
SBAC066	0	6	6 m Composite	SC8562	393	17.3	2.33	9.47	18.44	3.47	207	1.3	143	40	8.44	21.0	2.91	1.35	110.4	9.26
SBAC066	6	12	6 m Composite	SC8563	445	20.1	2.48	11.84	21.03	3.83	225	1.59	153	46	3.68	23.8	3.38	1.53	127.6	10.58
SBAC066	12	18	6 m Composite	SC8564	472	20.7	3.15	11.16	20.98	4	240	1.61	170	48	7.82	26.6	3.46	1.71	132.1	10.27
SBAC066	18	23	5 m Composite	SC8565	452	16.7	2.85	9.89	19.71	3.32	227	1.48	162	46	6.6	24.7	3.07	1.48	112.8	9.51
SBAC066	24	30	6 m Composite	SC8566	359	24.6	2.63	18.24	18.15	5.69	182	2.79	120	36	4.91	19.3	3.69	2.83	172.1	18.9
SBAC066	30	36	6 m Composite	SC8567	274	48.4	2.51	40.71	20.98	11.74	136	6.49	94	26	5.37	14.3	5.47	6.28	370.8	43.61
SBAC066	36	42	6 m Composite	SC8568	409	26.1	2.41	18.92	18.67	5.64	211	2.82	142	41	8.28	20.9	3.69	2.73	182.2	19.3

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SBAC066	42	48	6 m Composite	SC8569	523	22.9	2.49	13.78	21.96	4.64	269	1.81	176	51	5.68	26.2	3.83	2.1	156.8	13.38
SBAC066	48	54	6 m Composite	SC8570	416	15.5	2.28	9.57	17	2.94	219	1.05	142	41	4.91	21.6	2.63	1.3	106.0	9
SBAC066	54	60	6 m Composite	SC8571	414	17.7	2.27	9.66	17.52	3.54	215	1.43	145	43	6.44	22.0	2.75	1.45	111.2	9.83
SBAC067	0	6	6 m Composite	SC8572	130	8.1	1.39	5.56	7.3	1.7	60	0.98	49	13	11.04	7.9	1.35	0.88	51.6	6.13
SBAC067	6	12	6 m Composite	SC8573	94	9.6	1.73	5.63	7.93	1.67	46	0.99	40	10	31.29	7.8	1.32	0.83	61.1	6.59
SBAC067	12	18	6 m Composite	SC8574	111	9.6	1.86	6.21	9.2	1.94	52	1.05	49	12	45.25	8.7	1.60	0.87	59.2	6.01
SBAC067	18	24	6 m Composite	SC8575	97	4.3	1.04	2.68	4.77	0.8	47	0.41	37	10	10.74	5.3	0.85	0.4	27.6	2.57
SBAC067	24	30	6 m Composite	SC8576	79	6.4	1.44	3.66	5.83	1.31	38	0.49	35	9	43.87	6.4	0.96	0.55	36.2	3.68
SBAC067	30	36	6 m Composite	SC8577	218	9.3	2.07	4.79	10.87	1.64	112	0.71	79	21	25.46	12.2	1.61	0.64	51.9	4.54
SBAC067	36	42	6 m Composite	SC8578	270	9.2	2.29	4.86	10.73	1.7	139	0.48	91	26	16.57	13.2	1.51	0.54	48.5	3.55
SBAC067	42	48	6 m Composite	SC8579	294	9.3	2.61	4.77	10.93	1.7	154	0.57	99	29	16.26	14.7	1.58	0.62	47.8	3.58
SBAC067	48	54	6 m Composite	SC8580	270	8.6	2.51	3.93	10.22	1.47	138	0.43	87	26	14.88	12.9	1.46	0.48	43.1	3.29
SBAC067	54	60	6 m Composite	SC8581	251	8.4	2.3	4.4	9.94	1.49	130	0.53	86	25	19.48	12.3	1.58	0.58	44.2	3.81
SBAC068	0	3	3 m Composite	SC8582	416	18.9	3.44	10.61	19.48	3.83	210	1.36	160	43	11.66	23.9	3.15	1.6	105.4	9.25
SBAC068	4	10	6 m Composite	SC8583	604	27.1	4.56	15.15	30.2	5.01	298	1.8	234	63	16.87	34.9	4.52	2.19	150.5	12.98
SBAC068	10	16	6 m Composite	SC8584	612	26.7	4.91	14.98	29.97	5.01	301	2.09	223	64	16.26	34.9	4.41	2.22	149.2	12.64
SBAC068	16	22	6 m Composite	SC8585	595	28.0	5.21	14.64	30.54	5.09	290	1.82	232	63	15.34	35.5	4.58	2.14	150.5	13.15
SBAC068	22	28	6 m Composite	SC8586	582	26.4	4.91	17.27	29.97	5.43	290	2.23	219	62	15.95	32.6	4.59	2.24	161.9	14.92
SBAC068	28	34	6 m Composite	SC8587	548	26.4	4.75	15.38	31.12	5.34	266	2.13	204	60	13.19	31.8	4.69	2.38	155.6	14.63
SBAC068	34	40	6 m Composite	SC8588	500	21.8	3.89	13.21	21.84	4.49	256	1.61	181	53	13.5	26.4	3.71	1.96	135.2	12.64
SBAC068	40	46	6 m Composite	SC8589	506	22.6	4.04	14.69	27.2	4.64	256	1.9	186	54	11.81	32.2	4.10	1.96	146.0	12.07
SBAC068	46	52	6 m Composite	SC8590	591	21.0	3.68	12.06	25.59	4.3	307	1.55	198	60	8.59	30.9	3.60	1.61	127.0	10.1
SBAC068	52	58	6 m Composite	SC8591	553	23.9	4.53	14.81	26.39	4.52	277	1.65	201	58	12.58	34.2	3.96	1.76	144.8	12.41
SBAC068	58	60	2 m Composite	SC8592	564	28.2	5.31	18.47	31.7	5.7	274	2.34	222	60	14.11	39.4	4.83	2.48	178.4	16.06
SBAC069	0	6	6 m Composite	SC8593	628	23.9	11.42	3.76	29.85	4.44	347	1.46	236	69	10.28	36.2	4.38	1.62	140.3	10.64
SBAC069	6	12	6 m Composite	SC8594	163	7.6	4.81	2.08	8.07	1.48	78	0.67	64	18	4.60	11.6	1.20	0.53	43.8	4.08
SBAC069	12	18	6 m Composite	SC8595	125	6.4	3.98	1.76	6.77	1.10	60	0.56	50	14	4.14	8.9	1.02	0.53	39.0	3.47
SBAC069	18	24	6 m Composite	SC8596	665	22.5	11.78	2.83	26.97	4.11	337	1.46	229	67	10.43	35.8	4.02	1.55	123.3	10.08
SBAC069	24	30	6 m Composite	SC8597	787	25.6	14.01	3.44	32.27	5.11	401	1.56	269	82	10.12	43.4	4.58	1.88	146.7	10.92
SBAC069	30	36	6 m Composite	SC8598	435	16.1	9.23	2.69	21.09	3.30	219	1.09	152	46	7.52	25.9	2.95	1.32	98.8	8.90

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC069	36	43	7 m Composite	SC8599	259	10.9	6.32	1.99	11.99	2.06	124	0.67	87	26	5.06	15.3	1.91	0.79	59.3	4.98
SBAC069	44	50	6 m Composite	SC8600	816	23.6	13.84	2.99	31.58	4.87	410	1.46	254	80	9.20	39.0	4.75	1.78	137.2	11.30
SBAC069	50	56	6 m Composite	SC8601	948	30.6	16.41	3.82	35.96	5.72	477	1.96	302	92	11.66	45.0	5.03	2.19	169.5	12.87
SBAC069	56	60	4 m Composite	SC8602	774	22.8	12.64	3.59	29.39	5.14	394	1.59	253	76	8.13	36.3	4.23	1.85	133.3	10.32
SBAC070	0	6	6 m Composite	SC8603	569	21.5	10.82	3.51	26.63	4.14	361	1.24	223	67	8.90	33.2	3.69	1.55	114.4	9.28
SBAC070	6	12	6 m Composite	SC8604	654	19.6	10.97	3.50	24.44	4.08	333	1.40	209	63	5.83	29.5	3.53	1.68	111.1	8.97
SBAC070	12	18	6 m Composite	SC8605	694	23.2	12.98	3.32	25.70	4.67	349	1.64	228	70	9.36	34.4	4.09	1.77	126.0	10.02
SBAC070	18	24	6 m Composite	SC8606	747	25.1	13.44	4.09	29.74	5.11	372	1.85	241	73	10.28	37.6	4.08	2.02	142.2	11.67
SBAC070	24	30	6 m Composite	SC8607	751	26.5	14.58	3.54	31.00	5.41	365	1.96	250	75	7.52	39.7	4.52	2.03	146.0	12.18
SBAC070	30	36	6 m Composite	SC8608	726	26.1	13.61	3.57	30.43	5.22	353	1.68	245	73	12.42	39.3	4.40	1.94	146.0	11.16
SBAC070	36	42	6 m Composite	SC8609	674	23.4	13.61	3.45	28.70	4.67	330	1.74	221	68	9.20	33.6	4.09	1.94	137.2	10.67
SBAC070	42	48	6 m Composite	SC8610	721	25.0	14.52	3.29	31.35	5.14	352	1.54	244	71	7.67	39.5	4.40	1.80	137.8	11.17
SBAC070	48	54	6 m Composite	SC8611	770	28.9	16.70	3.67	36.42	5.90	367	1.60	261	79	9.20	45.7	5.26	2.28	163.2	13.61
SBAC070	54	60	6 m Composite	SC8612	746	26.2	15.15	3.94	32.85	5.81	365	1.89	254	75	9.05	37.5	4.60	2.08	149.9	12.07
SBRC071	0	6	6 m Composite	SC8613	623	19.7	12.24	3.16	22.88	4.19	313	1.69	206	62	8.90	28.5	3.40	1.60	117.2	11.01
SBRC071	6	12	6 m Composite	SC8614	730	26.3	14.01	4.26	31.12	5.34	359	2.13	244	74	12.27	38.4	4.65	1.99	149.2	12.98
SBRC071	12	18	6 m Composite	SC8615	776	26.1	14.69	4.39	31.35	5.37	387	1.88	267	79	12.58	40.6	4.68	2.32	156.8	13.44
SBRC071	18	23	5 m Composite	SC8616	742	26.7	16.12	4.38	31.70	5.42	365	2.06	252	74	13.80	36.5	4.90	2.20	155.6	12.47
SBRC071	24	30	6 m Composite	SC8617	667	25.6	14.75	4.16	29.05	5.20	325	1.69	223	66	11.35	35.7	4.58	2.06	142.9	12.30
SBRC071	30	36	6 m Composite	SC8618	706	24.8	14.87	4.46	29.16	5.57	345	1.69	239	71	10.43	38.7	4.58	2.01	149.2	11.90
SBRC071	36	42	6 m Composite	SC8619	663	23.9	13.04	4.16	28.47	5.02	333	1.61	223	66	8.90	34.4	4.09	2.01	137.2	11.73
SBRC071	42	48	6 m Composite	SC8620	688	24.3	13.84	4.45	28.24	4.83	342	1.68	225	69	8.90	35.7	4.18	1.92	135.9	11.67
SBRC071	48	54	6 m Composite	SC8621	712	26.9	15.04	4.12	32.62	5.34	352	2.01	247	73	12.88	38.3	4.78	2.12	147.9	13.10
SBRC071	54	60	6 m Composite	SC8622	765	25.9	14.69	4.40	31.47	5.28	375	1.94	258	75	11.04	37.9	4.13	2.32	151.8	12.64
SBRC071	60	66	6 m Composite	SC8623	710	24.8	14.58	4.31	29.62	5.36	346	1.96	239	71	13.04	38.5	4.58	2.24	151.1	12.64
SBRC071	66	72	6 m Composite	SC8624	776	25.3	14.58	4.33	32.27	5.54	387	1.80	259	76	11.04	36.6	4.32	2.00	149.9	12.92
SBRC071	72	78	6 m Composite	SC8625	814	28.2	16.81	5.11	34.58	6.04	400	2.30	275	81	10.58	43.3	5.16	2.18	175.9	13.27
SBRC071	78	84	6 m Composite	SC8626	812	26.5	14.35	5.08	31.35	5.29	398	2.05	273	82	12.27	43.4	4.72	2.06	142.9	12.64
SBRC071	84	90	6 m Composite	SC8627	768	25.8	15.15	4.26	32.62	5.17	379	1.75	254	77	12.42	40.8	4.68	2.04	146.7	12.58
SBRC071	90	96	6 m Composite	SC8628	737	23.9	14.01	4.67	30.77	5.45	364	1.76	248	73	13.34	39.9	4.26	1.99	149.2	12.47

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBRC071	96	102	6 m Composite	SC8629	746	27.2	15.67	4.47	30.08	5.41	367	1.80	248	73	11.20	40.5	4.38	2.06	151.8	13.04
SBRC071	102	108	6 m Composite	SC8630	731	27.1	14.69	4.25	29.85	5.36	353	2.06	250	73	12.12	40.4	4.10	2.24	151.1	13.78
SBRC071	108	114	6 m Composite	SC8631	859	33.1	17.72	4.79	38.61	6.84	409	2.17	304	88	11.96	48.8	5.73	2.50	181.6	14.52
SBRC071	114	120	6 m Composite	SC8632	742	25.8	14.75	4.55	31.58	5.34	359	1.75	251	75	15.34	40.5	4.34	1.91	147.9	12.18
SBAC072	0	3	3 m Composite	SC8633	728	19.3	10.44	2.84	25.01	3.72	389	1.22	233	73	4.60	33.2	3.54	1.26	114.4	7.44
SBAC072	4	10	6 m Composite	SC8634	1004	24.7	11.95	3.39	31.81	4.24	520	1.23	317	105	4.45	47.5	4.23	1.44	137.2	8.97
SBAC072	10	16	6 m Composite	SC8635	977	24.9	11.61	3.33	32.39	4.25	501	1.31	325	103	6.14	46.9	4.32	1.67	136.5	9.69
SBAC072	16	22	6 m Composite	SC8636	994	26.7	13.38	3.67	34.69	4.87	510	1.60	335	106	4.91	52.0	4.50	1.80	145.4	10.75
SBAC072	22	28	6 m Composite	SC8637	1652	46.5	21.61	3.82	57.75	7.81	824	2.64	568	176	17.79	76.3	8.25	2.81	239.4	17.88
SBAC072	28	34	6 m Composite	SC8638	991	26.4	12.46	3.36	32.85	4.91	489	1.63	325	103	9.36	47.1	5.21	1.90	147.9	10.32
SBAC072	34	40	6 m Composite	SC8639	1108	27.3	12.12	3.71	35.96	5.02	544	1.64	355	112	12.12	48.8	5.26	1.80	153.7	10.08
SBAC072	40	46	6 m Composite	SC8640	910	22.7	12.29	2.89	34.69	4.56	463	1.75	310	93	7.67	41.3	4.32	1.67	134.6	9.28
SBAC072	46	52	6 m Composite	SC8641	1091	28.7	14.29	3.67	36.77	4.98	538	1.68	363	113	10.28	53.6	5.70	1.96	154.3	11.01
SBAC072	52	58	6 m Composite	SC8642	791	21.6	11.61	3.05	30.89	4.11	394	1.32	269	82	7.36	35.5	4.01	1.70	123.8	9.58
SBAC072	58	60	2 m Composite	SC8643	582	22.7	10.89	3.18	24.90	4.03	274	1.30	211	64	15.34	31.8	4.12	1.60	124.2	8.77
SBAC073	0	6	6 m Composite	SC8644	586	21.1	10.46	3.15	25.47	3.76	293	1.44	205	63	20.25	32.8	3.96	1.63	120.9	8.46
SBAC073	6	12	6 m Composite	SC8645	848	29.4	15.61	3.98	32.50	5.38	420	2.01	289	88	15.64	44.1	5.39	2.17	157.5	12.53
SBAC073	12	18	6 m Composite	SC8646	801	26.7	14.12	4.28	32.96	5.06	394	1.76	275	83	13.19	43.0	5.22	2.17	150.5	11.34
SBAC073	18	24	6 m Composite	SC8647	769	28.0	14.41	3.64	34.00	5.43	373	1.99	269	81	14.57	39.7	5.08	2.06	155.6	11.73
SBAC073	24	30	6 m Composite	SC8648	940	31.2	16.98	3.95	40.69	6.01	464	2.23	336	99	14.42	49.3	5.43	2.54	181.6	15.60
SBAC073	30	36	6 m Composite	SC8649	796	24.3	14.18	3.75	34.12	5.34	402	1.89	276	84	10.43	40.1	4.93	2.16	141.6	11.84
SBAC073	36	43	7 m Composite	SC8650	780	24.8	14.18	4.25	32.85	4.94	393	1.98	275	82	9.97	41.3	4.66	2.01	143.5	12.92
SBAC073	44	50	6 m Composite	SC8651	801	27.8	13.84	3.61	33.08	5.27	399	1.74	274	84	15.03	39.5	4.81	1.86	151.1	11.44
SBAC073	50	56	6 m Composite	SC8652	811	28.2	13.78	4.18	33.43	5.49	400	1.82	279	85	13.04	41.1	5.33	2.11	155.6	12.24
SBAC073	56	60	4 m Composite	SC8653	786	27.0	12.86	3.87	33.19	5.14	387	1.67	274	83	13.96	39.8	5.30	1.76	146.7	10.56
SBAC074	0	6	6 m Composite	SC8654	228	15.9	8.24	1.76	16.02	3.20	103	1.00	84	25	38.04	17.2	2.66	1.32	88.3	7.19
SBAC074	6	12	6 m Composite	SC8655	269	19.9	12.01	2.43	19.13	4.27	131	1.77	103	30	42.64	19.9	3.47	1.58	124.5	10.18
SBAC074	12	18	6 m Composite	SC8656	71	8.0	4.79	1.23	7.25	1.58	33	0.63	33	9	50.92	7.1	1.29	0.73	49.2	4.38
SBAC074	18	24	6 m Composite	SC8657	70	8.1	4.72	1.83	7.76	1.65	31	0.66	32	8	50.77	7.1	1.27	0.71	49.4	3.84
SBAC074	24	30	6 m Composite	SC8658	97	7.8	3.95	1.12	7.27	1.53	43	0.60	38	11	24.08	7.4	1.25	0.62	40.6	3.60

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SBAC074	30	36	6 m Composite	SC8659	63	3.3	1.94	0.97	3.98	0.68	31	0.34	27	7	15.03	4.4	0.56	0.38	22.2	1.94
SBAC074	36	42	6 m Composite	SC8660	101	7.4	4.84	1.64	7.46	1.35	48	0.63	43	11	37.58	8.3	1.20	0.64	47.5	3.99
SBAC074	42	48	6 m Composite	SC8661	46	8.8	7.17	1.26	7.42	1.95	21	0.82	25	6	60.89	5.7	1.24	0.95	63.8	6.52
SBAC074	48	54	6 m Composite	SC8662	93	7.1	4.44	1.77	7.88	1.41	43	0.66	39	11	49.70	7.8	1.18	0.61	43.7	4.19
SBAC074	54	60	6 m Composite	SC8663	98	7.5	3.74	1.18	6.72	1.26	48	0.71	41	11	32.06	8.0	1.14	0.56	41.5	3.70
SBAC075	0	6	6 m Composite	SC8664	538	21.1	12.86	4.24	27.66	4.54	270	1.57	209	61	11.66	31.3	3.67	1.71	120.1	12.30
SBAC075	6	12	6 m Composite	SC8665	606	26.5	13.95	4.32	30.08	5.03	300	1.97	232	66	14.88	34.8	4.67	2.06	146.0	11.96
SBAC075	12	18	6 m Composite	SC8666	720	30.2	16.12	5.14	33.43	5.81	352	2.38	268	78	15.34	41.2	5.40	2.35	167.6	13.89
SBAC075	18	23	5 m Composite	SC8667	715	31.8	16.29	5.15	35.73	5.89	347	2.17	260	77	14.11	42.4	5.67	2.41	167.6	14.40
SBAC075	24	30	6 m Composite	SC8668	736	32.1	17.50	4.50	34.12	6.19	364	2.39	276	80	15.18	44.4	5.46	2.58	173.3	16.23
SBAC075	30	36	6 m Composite	SC8669	792	30.6	18.01	5.16	36.88	6.15	393	2.59	288	85	17.49	46.4	5.81	2.56	179.7	15.88
SBAC075	36	42	6 m Composite	SC8670	770	31.3	17.61	4.97	35.27	6.04	387	2.09	282	82	17.18	43.3	5.80	2.66	182.9	15.54
SBAC075	42	48	6 m Composite	SC8671	709	31.6	16.70	4.50	34.35	6.29	351	2.51	266	76	18.10	43.4	5.56	2.60	180.3	16.11
SBAC075	48	54	6 m Composite	SC8672	769	30.8	18.87	4.57	36.77	5.99	382	2.29	286	83	20.09	43.6	5.48	2.19	174.6	15.03
SBAC075	54	60	6 m Composite	SC8673	747	32.9	17.32	4.64	35.73	6.21	366	2.27	279	82	23.31	44.2	5.52	2.47	180.3	14.86
SBAC076	0	6	6 m Composite	SC8674	650	25.3	15.61	4.89	32.96	4.93	345	2.08	244	73	18.25	39.8	4.66	2.16	147.3	13.32
SBAC076	6	12	6 m Composite	SC8675	633	25.0	14.52	4.49	28.82	4.99	319	1.68	227	68	17.64	35.5	4.42	2.08	146.0	11.79
SBAC076	12	18	6 m Composite	SC8676	617	24.9	13.55	4.30	29.39	5.02	307	2.12	232	66	19.63	35.1	4.39	1.98	141.0	12.64
SBAC076	18	24	6 m Composite	SC8677	711	24.6	12.12	4.33	30.54	4.55	357	1.61	257	76	18.10	39.0	4.68	1.76	132.1	11.50
SBAC076	24	30	6 m Composite	SC8678	740	29.6	17.61	4.56	32.85	5.74	367	2.43	262	78	19.79	40.0	4.96	2.28	168.3	13.72
SBAC076	30	36	6 m Composite	SC8679	754	30.0	16.70	4.67	33.89	5.84	376	2.16	276	80	14.26	40.2	4.93	2.28	164.5	13.89
SBAC076	36	42	6 m Composite	SC8680	735	28.4	16.41	4.46	33.31	5.58	371	2.31	271	80	14.72	40.1	4.67	2.56	156.2	14.40
SBAC076	42	48	6 m Composite	SC8681	771	30.5	15.95	4.75	34.81	5.99	381	2.30	279	81	17.64	45.0	5.47	2.48	169.5	13.44
SBAC076	48	54	6 m Composite	SC8682	870	30.9	16.29	5.01	37.46	5.88	436	2.22	318	92	19.02	46.7	5.27	2.79	165.1	15.88
SBAC076	54	60	6 m Composite	SC8683	824	30.3	17.32	5.27	36.88	6.55	423	2.38	293	87	24.85	44.8	5.67	2.42	169.5	15.60
SBAC077	0	3	3 m Composite	SC8684	416	19.5	10.90	3.79	20.63	3.68	227	1.61	172	49	17.33	27.0	3.31	1.60	109.7	9.74
SBAC077	4	10	6 m Composite	SC8685	583	26.3	14.01	4.13	28.12	5.04	285	2.07	218	63	16.41	35.5	4.53	2.10	156.2	12.47
SBAC077	10	16	6 m Composite	SC8686	612	30.6	17.27	4.76	32.62	5.99	307	2.48	233	69	20.25	39.7	4.89	2.49	173.3	15.66
SBAC077	16	22	6 m Composite	SC8687	996	31.6	18.47	4.65	38.50	6.01	518	2.33	349	108	13.19	55.4	5.59	2.47	184.1	15.94
SBAC077	22	28	6 m Composite	SC8688	947	34.2	19.21	4.97	38.15	6.36	481	2.43	343	105	15.95	52.2	5.43	2.73	198.7	17.08

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC077	28	34	6 m Composite	SC8689	753	29.3	18.07	4.63	36.42	6.13	372	2.81	272	80	12.73	41.1	5.39	2.46	167.0	16.23
SBAC077	34	40	6 m Composite	SC8690	780	33.4	17.84	4.46	37.23	6.52	380	2.52	288	83	20.86	43.4	5.81	2.58	188.0	15.77
SBAC077	40	46	6 m Composite	SC8691	973	30.8	16.29	5.11	38.73	6.04	491	2.35	339	103	13.65	48.5	4.95	2.48	168.3	15.88
SBAC077	46	52	6 m Composite	SC8692	730	34.7	18.75	5.03	37.92	7.04	362	2.56	258	79	13.65	46.0	5.82	2.72	189.9	15.88
SBAC077	52	58	6 m Composite	SC8693	759	35.0	18.87	5.84	40.34	6.79	373	2.40	273	82	14.57	48.1	6.05	2.83	194.9	16.91
SBAC077	58	60	2 m Composite	SC8694	784	34.1	17.27	5.27	36.31	6.52	395	2.41	266	84	13.96	45.5	5.50	2.67	184.8	16.17
SBRC078	0	6	6 m Composite	SC8695	742	37.9	20.81	6.24	47.14	8.03	505	3.12	342	107	18.56	57.2	6.85	2.83	224.1	18.22
SBRC078	6	12	6 m Composite	SC8696	753	33.1	19.21	5.16	37.92	6.53	378	2.67	266	83	15.03	46.4	5.89	2.64	188.6	17.93
SBRC078	12	18	6 m Composite	SC8697	714	31.0	17.04	4.89	35.04	6.08	353	2.14	255	76	17.33	45.5	5.18	2.39	170.2	15.66
SBRC078	18	24	6 m Composite	SC8698	728	31.5	16.01	5.15	36.77	5.93	359	2.56	264	78	15.18	44.8	5.59	2.46	173.3	15.26
SBRC078	24	30	6 m Composite	SC8699	741	30.9	17.10	5.40	34.58	5.97	365	2.40	258	79	11.50	43.5	5.35	2.43	175.9	15.49
SBRC078	30	36	6 m Composite	SC8700	736	31.0	16.24	5.16	37.00	5.91	367	2.14	267	79	13.50	47.4	5.10	2.54	172.7	15.49
SBRC078	36	43	7 m Composite	SC8701	629	30.3	16.75	4.93	36.65	5.88	306	2.19	230	69	10.89	44.1	5.42	2.32	170.2	15.60
SBRC078	44	50	6 m Composite	SC8702	709	32.8	18.47	4.57	35.73	6.48	346	2.17	246	77	14.26	42.6	5.62	2.72	172.7	15.43
SBRC078	50	56	6 m Composite	SC8703	753	31.3	17.38	4.43	35.85	6.15	368	2.39	272	81	16.10	44.6	5.53	2.62	178.4	16.11
SBRC078	56	62	6 m Composite	SC8704	712	32.6	18.18	4.65	35.62	6.53	352	2.37	258	77	11.81	45.8	5.82	2.70	184.1	16.40
SBRC078	62	68	6 m Composite	SC8705	786	35.0	19.84	4.93	37.69	6.96	391	2.49	286	84	12.73	48.1	6.29	2.87	194.3	17.14
SBRC078	68	74	6 m Composite	SC8706	669	30.9	16.64	4.42	33.43	6.08	334	2.37	246	72	11.50	41.8	5.03	2.43	163.2	14.69
SBRC078	74	80	6 m Composite	SC8707	765	33.6	17.32	4.98	36.08	6.29	375	2.35	279	82	14.72	46.0	5.79	2.55	180.3	14.69
SBRC078	80	86	6 m Composite	SC8708	726	31.0	17.21	4.52	32.39	6.00	355	2.32	260	77	18.25	45.5	5.19	2.54	177.8	15.26
SBRC078	86	92	6 m Composite	SC8709	768	32.3	17.44	5.11	37.23	6.52	380	2.56	279	83	16.41	46.6	5.76	2.74	184.1	15.03
SBRC078	92	98	6 m Composite	SC8710	807	34.0	17.50	4.93	35.62	6.45	406	2.39	288	86	11.50	46.6	5.69	2.59	186.7	14.80
SBRC078	98	104	6 m Composite	SC8711	832	29.8	16.75	4.71	34.58	5.74	416	2.09	292	87	12.12	46.9	5.15	2.42	165.7	14.75
SBRC078	104	110	6 m Composite	SC8712	725	28.5	16.24	4.31	33.08	5.46	353	1.94	266	79	17.33	44.0	5.08	2.18	156.2	13.38
SBRC078	110	116	6 m Composite	SC8713	780	30.5	16.35	4.49	36.54	6.16	385	2.17	283	84	11.04	46.4	5.56	2.59	167.6	14.40
SBRC078	116	120	4 m Composite	SC8714	579	30.3	16.64	4.68	31.93	5.90	289	1.84	211	63	11.81	38.2	4.96	2.40	160.0	14.58
SBAC079	0	6	6 m Composite	SC8715	447	19.0	11.39	3.16	19.82	3.85	232	1.72	163	51	12.27	26.3	2.96	1.63	105.9	9.82
SBAC079	6	12	6 m Composite	SC8716	676	28.1	15.32	4.33	32.96	5.51	337	2.18	247	73	17.49	40.7	5.07	2.24	156.8	14.52
SBAC079	12	18	6 m Composite	SC8717	722	28.6	16.81	4.50	34.92	5.68	358	2.33	265	79	11.96	44.1	5.41	2.22	166.4	14.35
SBAC079	18	23	5 m Composite	SC8718	688	27.9	15.15	4.48	31.81	5.60	341	2.40	247	74	15.03	40.2	4.88	2.12	159.4	13.04

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC079	24	30	6 m Composite	SC8719	752	31.2	16.64	4.84	34.46	6.06	372	2.49	273	80	14.57	42.0	5.35	2.60	175.9	15.49
SBAC079	30	36	6 m Composite	SC8720	748	30.3	17.21	4.83	34.00	6.06	368	2.33	271	81	17.95	43.8	5.07	2.54	172.1	15.66
SBAC079	36	42	6 m Composite	SC8721	728	29.7	17.27	4.42	33.08	5.96	358	2.02	253	77	13.50	44.3	5.27	2.67	165.7	14.63
SBAC079	42	48	6 m Composite	SC8722	760	31.1	16.47	5.18	34.69	6.19	374	2.13	278	81	13.50	45.3	5.43	2.66	174.0	14.35
SBAC079	48	54	6 m Composite	SC8723	760	30.5	16.58	4.55	33.19	6.19	378	2.18	272	83	16.87	45.6	5.26	2.44	178.4	15.49
SBAC079	54	60	6 m Composite	SC8724	727	30.4	15.89	4.87	33.89	5.96	359	2.25	273	78	14.26	41.8	5.38	2.49	172.1	14.12
SBAC081	0	6	6 m Composite	SC8725	662	28.0	14.92	5.06	34.12	5.57	325	2.09	243	70	11.81	39.3	4.82	2.32	155.6	13.84
SBAC081	6	12	6 m Composite	SC8726	609	25.5	13.95	4.62	31.47	5.37	310	1.98	232	69	11.66	37.9	4.70	2.19	147.3	13.21
SBAC081	12	18	6 m Composite	SC8727	618	27.4	15.04	4.53	29.97	5.36	313	2.02	240	69	12.73	38.3	4.56	2.10	151.1	13.21
SBAC081	18	24	6 m Composite	SC8728	607	28.2	15.72	4.23	31.35	5.60	307	2.06	238	68	14.11	36.0	5.02	2.20	156.2	13.44
SBAC081	24	27	3 m Composite	SC8729	740	30.4	16.75	4.62	35.27	6.15	375	2.19	274	81	11.81	43.7	5.70	2.62	167.0	15.54
SBAC081	28	34	6 m Composite	SC8730	725	30.5	16.58	4.98	35.38	6.27	362	2.44	266	79	13.04	45.7	5.36	2.48	172.1	14.92
SBAC081	34	40	6 m Composite	SC8731	721	32.1	16.58	5.60	34.81	5.76	357	2.54	259	78	15.95	42.2	5.40	2.62	172.7	14.75
SBAC081	40	46	6 m Composite	SC8732	737	26.9	15.67	5.80	34.58	5.72	367	2.23	272	80	15.80	42.3	4.99	2.51	165.1	14.92
SBAC081	46	52	6 m Composite	SC8733	764	31.2	15.67	5.13	35.96	6.01	375	2.57	279	83	13.65	42.9	5.35	2.62	170.2	14.75
SBAC081	52	58	6 m Composite	SC8734	741	31.6	17.55	4.83	35.04	6.00	367	2.46	278	81	14.42	43.6	5.40	2.38	173.3	15.09
SBAC081	58	60	2 m Composite	SC8735	714	31.1	15.89	4.70	34.00	5.90	351	2.30	266	77	15.18	44.3	5.08	2.46	163.8	14.97
SBAC082	0	6	6 m Composite	SC8736	625	26.5	13.78	4.04	31.12	5.43	334	1.77	239	69	13.04	39.3	4.88	2.12	148.6	12.98
SBAC082	6	12	6 m Composite	SC8737	655	27.3	15.84	3.88	32.73	5.72	334	1.85	250	72	14.88	39.3	4.89	2.31	148.6	12.35
SBAC082	12	18	6 m Composite	SC8738	726	31.5	17.84	4.61	38.04	6.69	366	2.26	274	79	12.12	45.1	5.40	2.68	164.5	16.28
SBAC082	18	24	6 m Composite	SC8739	725	31.5	17.72	4.05	36.31	6.70	359	1.79	269	77	14.72	42.1	5.45	2.55	163.8	16.40
SBAC082	24	30	6 m Composite	SC8740	737	30.5	16.12	4.40	35.62	6.08	366	1.91	273	77	10.58	44.4	5.12	2.46	155.6	14.75
SBAC082	30	36	6 m Composite	SC8741	712	30.3	16.92	4.39	33.43	5.99	347	2.14	266	76	12.88	43.6	5.08	2.42	156.2	14.52
SBAC082	36	42	6 m Composite	SC8742	748	30.8	16.92	5.20	36.31	6.33	369	1.91	278	79	14.72	44.5	5.33	2.43	156.8	14.40
SBAC082	42	48	6 m Composite	SC8743	698	30.4	17.67	4.94	35.85	6.23	342	2.16	257	76	17.95	41.6	5.08	2.66	154.3	14.86
SBAC082	48	54	6 m Composite	SC8744	693	27.4	16.58	4.82	34.23	5.86	341	1.96	259	74	13.19	40.1	4.90	2.35	147.9	13.49
SBAC082	54	60	6 m Composite	SC8745	769	31.0	16.70	4.74	35.62	6.39	379	2.02	285	82	17.18	45.1	5.40	2.34	164.5	15.03
SBRC083	0	7	7 m Composite	SC8746	644	32.0	18.18	5.51	38.15	6.48	459	2.00	322	89	13.96	46.9	5.59	2.51	177.8	15.03
SBRC083	8	14	6 m Composite	SC8747	740	30.2	16.92	5.18	37.23	6.58	365	2.34	275	80	18.56	44.1	5.27	2.59	165.1	15.26
SBRC083	14	20	6 m Composite	SC8748	720	29.3	16.47	5.12	35.38	6.04	359	2.07	268	78	18.71	43.0	5.21	2.56	155.6	15.37

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBRC083	20	26	6 m Composite	SC8749	762	31.5	18.47	5.31	37.46	6.46	374	2.10	283	80	20.09	46.0	5.58	2.63	173.3	15.54
SBRC083	26	32	6 m Composite	SC8750	715	30.1	17.27	4.86	36.19	6.52	348	2.23	271	76	19.63	43.3	5.19	2.55	169.5	15.14
SBRC083	32	38	6 m Composite	SC8751	716	27.9	15.44	5.04	32.85	5.96	357	2.21	264	76	16.41	41.5	4.82	2.17	148.6	14.40
SBRC083	38	44	6 m Composite	SC8752	724	29.0	16.35	5.22	34.81	5.96	355	1.75	266	77	15.18	42.9	5.21	2.49	156.8	14.23
SBRC083	44	50	6 m Composite	SC8753	741	30.3	16.24	4.98	35.73	6.24	367	2.01	279	80	14.72	45.3	5.29	2.57	160.0	15.37
SBRC083	50	56	6 m Composite	SC8754	778	31.0	17.84	5.07	36.54	6.39	386	2.18	289	83	15.64	46.7	5.12	2.65	165.1	16.40
SBRC083	56	62	6 m Composite	SC8755	741	30.9	17.72	5.38	36.77	6.62	367	1.94	285	79	14.11	45.8	5.22	2.42	164.5	15.03
SBRC083	62	68	6 m Composite	SC8756	784	31.7	18.12	4.99	35.85	6.53	386	1.99	294	85	17.33	47.5	5.34	2.55	168.9	15.94
SBRC083	68	74	6 m Composite	SC8757	748	29.4	17.72	5.16	34.81	6.55	362	2.07	279	79	13.04	43.7	5.35	2.62	165.7	16.74
SBRC083	74	80	6 m Composite	SC8758	759	32.0	17.72	5.08	35.04	6.41	369	2.13	280	83	16.72	45.2	5.15	2.66	172.1	16.45
SBRC083	80	86	6 m Composite	SC8759	786	31.6	17.72	5.45	36.65	6.70	385	2.33	296	83	18.56	47.5	5.35	2.63	172.7	17.08
SBRC083	86	92	6 m Composite	SC8760	749	32.3	16.98	5.70	37.00	6.32	369	2.18	283	79	14.88	44.1	5.47	2.55	171.4	15.66
SBRC083	92	98	6 m Composite	SC8761	743	28.7	15.15	4.96	34.58	6.09	366	2.07	286	81	20.09	45.8	4.86	2.41	156.8	14.52
SBRC083	98	104	6 m Composite	SC8762	755	31.8	16.64	4.62	35.15	6.30	373	2.12	281	80	20.40	46.3	5.40	2.64	170.2	16.11
SBRC083	104	107	3 m Composite	SC8763	726	29.4	15.89	4.84	35.62	6.20	355	2.00	273	78	15.03	45.9	5.06	2.35	154.9	14.12
SBRC083	108	114	6 m Composite	SC8764	759	30.5	17.90	5.25	36.08	5.91	372	1.97	278	80	15.34	43.0	5.23	2.60	163.8	16.57
SBRC083	114	120	6 m Composite	SC8765	765	31.8	17.21	5.26	36.31	6.43	376	2.19	290	82	16.87	46.9	5.43	2.54	168.3	16.00
SBAC084	0	6	6 m Composite	SC8766	608	28.5	15.27	4.55	34.12	6.04	337	1.77	246	70	13.96	39.4	5.07	2.32	151.8	14.18
SBAC084	6	12	6 m Composite	SC8767	755	31.3	17.21	4.79	37.00	6.59	373	2.14	278	80	14.42	44.6	5.43	2.43	164.5	14.69
SBAC084	12	18	6 m Composite	SC8768	692	30.4	17.72	3.87	34.00	6.53	344	1.99	254	75	13.65	39.3	5.15	2.44	164.5	14.18
SBAC084	18	24	6 m Composite	SC8769	754	34.0	18.81	4.60	37.57	6.83	374	2.42	279	79	15.03	47.4	5.41	2.64	179.7	16.45
SBAC084	24	30	6 m Composite	SC8770	754	31.8	17.21	4.82	37.57	6.40	373	2.29	280	79	15.95	46.3	5.76	2.62	168.9	15.83
SBAC084	30	36	6 m Composite	SC8771	843	33.4	20.30	5.14	39.65	7.11	422	2.79	311	88	14.42	55.8	6.12	3.25	198.7	19.19
SBAC084	36	42	6 m Composite	SC8772	741	30.1	16.35	4.69	35.62	6.12	378	2.31	259	80	11.35	39.8	5.69	2.22	163.2	15.14
SBAC084	42	48	6 m Composite	SC8773	752	31.0	16.41	4.52	36.19	6.09	375	1.91	275	81	13.80	43.4	5.90	2.36	175.3	14.97
SBAC084	48	54	6 m Composite	SC8774	737	31.7	17.21	4.20	34.81	6.77	366	2.14	260	79	13.34	41.6	5.58	2.66	171.4	15.60
SBAC084	54	60	6 m Composite	SC8775	706	31.3	19.33	4.52	35.62	6.75	355	2.40	251	76	14.42	44.1	5.73	2.64	182.9	17.08
SBAC085	0	6	6 m Composite	SC8776	920	47.5	26.19	7.38	58.67	9.43	577	2.97	388	110	13.19	64.4	9.04	3.75	233.0	22.49
SBAC085	6	12	6 m Composite	SC8777	717	31.2	20.18	4.57	34.12	6.67	373	2.74	265	76	14.72	40.4	5.42	3.14	188.6	18.45
SBAC085	12	18	6 m Composite	SC8778	737	27.7	16.87	4.50	30.77	5.49	371	2.31	261	78	13.96	41.5	4.79	2.36	169.5	14.69

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC085	18	24	6 m Composite	SC8779	674	17.9	11.72	3.36	23.17	3.70	332	1.32	236	72	11.66	34.9	3.61	1.59	99.8	10.12
SBAC085	24	27	3 m Composite	SC8780	606	10.6	5.91	2.70	17.92	2.15	300	0.81	212	65	13.19	30.7	2.35	0.96	54.6	5.68
SBAC085	28	34	6 m Composite	SC8781	587	17.9	11.95	3.80	21.44	3.61	277	1.60	200	62	11.66	30.2	3.34	1.62	102.5	11.96
SBAC085	34	40	6 m Composite	SC8782	576	14.2	8.78	2.99	19.36	2.67	267	1.23	204	61	17.33	28.6	2.62	1.28	74.7	8.44
SBAC085	40	46	6 m Composite	SC8783	730	19.7	12.12	3.52	22.88	4.04	315	1.44	229	70	13.80	35.8	3.90	1.92	113.3	11.39
SBAC085	46	52	6 m Composite	SC8784	1053	24.7	13.78	5.23	34.69	4.97	482	1.71	342	104	18.71	52.7	4.96	2.03	133.3	13.66
SBAC085	52	58	6 m Composite	SC8785	1474	48.2	28.82	7.70	56.59	9.54	724	3.39	488	143	19.02	77.6	8.69	3.92	275.6	24.37
SBAC085	58	60	2 m Composite	SC8786	1022	37.0	21.21	5.48	38.61	7.64	456	2.73	296	88	12.58	50.4	6.21	3.35	208.3	21.29
SBAC086	0	6	6 m Composite	SC8787	615	26.4	14.81	4.01	28.93	5.44	297	1.82	217	63	9.97	36.2	4.89	2.03	145.4	13.89
SBAC086	6	12	6 m Composite	SC8788	743	28.2	15.72	4.74	33.77	5.56	365	1.98	274	81	12.73	45.0	5.20	2.24	153.0	13.66
SBAC086	12	18	6 m Composite	SC8789	705	32.1	17.38	5.06	35.96	6.27	347	2.48	258	76	18.25	42.8	5.69	2.70	175.3	17.14
SBAC086	18	24	6 m Composite	SC8790	751	32.0	18.01	5.28	36.31	6.33	375	2.23	268	82	14.57	45.7	5.85	2.51	179.1	16.00
SBAC086	24	30	6 m Composite	SC8791	764	32.1	17.84	4.67	36.54	6.24	380	2.50	282	82	12.88	43.4	6.09	2.68	180.3	16.45
SBAC086	30	36	6 m Composite	SC8792	744	32.9	17.10	4.39	35.04	6.47	368	2.43	275	80	12.88	44.3	5.72	2.56	172.1	16.40
SBAC086	36	42	6 m Composite	SC8793	706	29.2	16.24	5.07	34.00	5.92	351	2.19	258	78	15.49	37.7	5.34	2.39	157.5	14.92
SBAC086	42	48	6 m Composite	SC8794	684	28.5	16.70	5.01	32.85	5.41	341	2.26	260	78	15.34	39.4	4.76	2.19	154.3	14.63
SBAC086	48	54	6 m Composite	SC8795	698	29.8	16.81	4.47	34.23	5.43	346	2.38	257	77	15.80	43.1	5.07	2.26	154.9	15.66
SBAC086	54	60	6 m Composite	SC8796	673	28.6	16.35	4.62	33.54	5.83	331	2.04	253	74	13.50	41.5	5.05	2.25	152.4	14.63
SBAC087	0	7	7 m Composite	SC8797	581	23.9	14.64	4.26	28.58	4.89	273	2.08	216	61	15.64	33.6	4.21	1.92	141.0	13.38
SBAC087	8	14	6 m Composite	SC8798	652	26.6	15.49	4.76	31.58	5.05	327	2.33	248	74	11.04	39.5	4.46	1.96	142.9	13.44
SBAC087	14	20	6 m Composite	SC8799	737	30.0	17.44	4.75	34.00	5.57	367	2.32	278	82	10.43	43.4	5.08	2.26	160.0	14.75
SBAC087	20	26	6 m Composite	SC8800	709	27.5	15.55	4.71	34.00	5.37	349	2.30	271	78	14.57	41.8	4.90	2.26	152.4	15.32
SBAC087	26	32	6 m Composite	SC8801	778	34.2	17.55	5.38	36.88	6.51	376	2.37	280	79	13.80	46.2	5.99	2.22	181.6	15.09
SBAC087	32	38	6 m Composite	SC8802	724	27.1	15.38	5.34	35.15	5.43	352	2.26	267	80	17.95	44.5	4.90	2.10	153.7	14.46
SBAC087	38	44	6 m Composite	SC8803	679	28.5	17.27	4.60	33.89	5.50	332	2.00	258	75	14.88	44.0	4.68	2.28	151.8	14.35
SBAC087	44	50	6 m Composite	SC8804	657	26.4	15.49	4.33	30.43	5.09	328	1.90	251	72	11.50	38.4	4.40	2.03	145.4	13.49
SBAC087	50	56	6 m Composite	SC8805	711	29.2	16.58	4.86	35.85	5.85	352	2.56	265	78	18.25	43.7	4.93	2.40	165.1	15.26
SBAC087	56	60	4 m Composite	SC8806	692	28.1	16.58	4.56	34.12	5.85	341	2.24	261	75	11.04	43.7	4.88	2.18	157.5	15.94
SBAC088	0	6	6 m Composite	SC8807	133	5.8	3.83	1.40	5.89	1.19	62	0.71	50	13	23.01	8.8	1.00	0.57	35.3	3.63
SBAC088	6	12	6 m Composite	SC8808	147	4.9	3.14	1.49	6.43	0.99	66	0.43	54	15	35.74	8.7	0.91	0.39	28.3	3.11

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SBAC088	12	18	6 m Composite	SC8809	173	21.4	15.38	2.30	16.02	4.69	72	1.83	68	17	46.32	13.5	3.07	2.39	147.9	13.95
SBAC088	18	24	6 m Composite	SC8810	305	21.6	14.58	3.16	20.52	4.52	137	2.04	119	34	28.07	21.2	3.29	1.94	138.4	13.21
SBAC088	24	30	6 m Composite	SC8811	414	15.4	9.22	4.65	18.73	3.23	206	1.27	151	45	9.51	26.6	2.72	1.30	91.4	8.70
SBAC088	30	36	6 m Composite	SC8812	456	16.5	9.38	4.93	20.57	2.99	224	1.18	171	50	11.81	26.1	2.96	1.23	92.7	8.35
SBAC088	36	42	6 m Composite	SC8813	504	20.1	11.07	4.86	23.74	3.77	247	1.57	192	56	11.35	33.1	3.47	1.62	117.0	11.15
SBAC088	42	47	5 m Composite	SC8814	529	22.0	13.38	4.84	26.74	4.27	258	2.16	199	59	12.27	34.8	3.71	1.76	129.5	12.81
SBAC088	48	54	6 m Composite	SC8815	555	25.4	15.15	4.84	29.97	4.96	267	2.00	215	62	10.89	35.5	4.16	1.99	144.1	14.06
SBAC088	54	60	6 m Composite	SC8816	607	26.1	15.27	4.93	29.97	5.10	298	2.08	228	67	15.49	39.2	4.43	2.19	151.1	14.23
SBAC089	0	6	6 m Composite	SC8817	507	18.9	11.30	3.42	22.99	3.69	243	1.57	185	55	10.74	29.7	3.18	1.51	106.9	10.12
SBAC089	6	12	6 m Composite	SC8818	699	24.7	14.69	3.51	29.51	4.74	345	1.65	258	76	11.81	40.0	4.19	1.86	142.2	13.49
SBAC089	12	18	6 m Composite	SC8819	877	31.6	17.78	4.37	38.15	5.91	432	2.39	321	95	16.87	49.9	5.33	2.33	174.6	15.20
SBAC089	18	24	6 m Composite	SC8820	679	24.0	13.95	4.76	28.82	4.77	344	1.79	240	73	8.44	36.9	4.10	1.98	135.9	13.15
SBAC089	24	30	6 m Composite	SC8821	687	24.2	13.95	4.16	29.62	4.65	345	1.55	245	73	10.43	37.1	4.14	1.84	139.7	11.96
SBAC089	30	36	6 m Composite	SC8822	700	25.1	14.92	4.18	28.12	4.71	354	1.73	248	76	11.50	38.6	4.15	1.79	138.4	11.09
SBAC089	36	42	6 m Composite	SC8823	654	22.7	13.55	4.02	26.97	4.52	332	1.59	233	70	10.28	37.1	4.01	1.84	130.8	11.39
SBAC089	42	48	6 m Composite	SC8824	701	24.5	14.58	4.33	29.39	5.18	349	1.67	252	76	10.12	39.1	4.21	2.00	142.9	12.35
SBAC089	48	54	6 m Composite	SC8825	730	25.5	14.81	4.20	32.04	4.93	361	1.88	266	79	9.66	41.8	4.46	2.03	145.4	12.87
SBAC089	54	60	6 m Composite	SC8826	727	25.9	13.66	4.57	30.54	4.67	364	1.77	258	78	5.83	40.4	4.32	1.88	141.6	12.92
SBAC090	0	6	6 m Composite	SC8827	598	17.6	10.07	3.37	23.40	3.31	319	1.09	219	67	4.60	33.9	3.32	1.31	98.3	7.94
SBAC090	6	12	6 m Composite	SC8828	647	19.1	10.65	3.14	25.47	3.57	332	1.31	227	70	7.36	35.5	3.33	1.35	105.3	8.29
SBAC090	12	18	6 m Composite	SC8829	689	22.2	10.38	3.37	26.28	3.97	349	1.25	232	72	9.51	33.2	3.81	1.40	107.7	9.11
SBAC090	18	24	6 m Composite	SC8830	755	23.3	12.01	3.25	27.32	4.19	385	1.34	255	78	8.44	39.2	4.18	1.51	123.6	9.80
SBAC090	24	27	3 m Composite	SC8831	767	24.9	11.95	3.73	28.82	4.79	388	1.41	258	81	10.12	38.6	3.99	1.74	124.7	10.50
SBAC090	28	34	6 m Composite	SC8832	581	15.9	8.63	3.03	21.38	3.22	307	0.96	194	62	7.06	29.0	3.22	1.05	89.9	7.48
SBAC090	34	40	6 m Composite	SC8833	690	22.3	11.17	3.51	25.82	3.86	346	1.08	239	72	8.28	36.6	3.69	1.50	111.2	8.21
SBAC090	40	46	6 m Composite	SC8834	651	20.1	10.47	3.35	25.59	3.96	325	1.27	227	68	8.74	33.7	3.90	1.58	107.4	8.79
SBAC090	46	52	6 m Composite	SC8835	722	23.5	11.89	3.59	29.16	4.35	358	1.34	248	77	9.36	39.2	4.39	1.67	123.9	9.84
SBAC090	52	58	6 m Composite	SC8836	596	18.4	9.39	2.93	22.42	3.33	299	1.10	204	62	7.98	31.1	3.33	1.39	100.7	7.53
SBAC090	58	60	2 m Composite	SC8837	595	17.9	8.74	2.94	22.88	3.22	299	1.07	204	62	10.28	31.3	3.39	1.26	96.9	6.91
SBAC091	0	6	6 m Composite	SC8838	564	22.4	12.35	4.16	26.63	4.16	277	1.52	205	61	11.20	34.0	4.13	1.86	129.5	10.52

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SBAC091	6	12	6 m Composite	SC8839	604	26.3	14.29	4.55	28.47	5.21	294	1.80	233	66	10.28	37.7	4.49	2.00	149.9	12.47
SBAC091	12	18	6 m Composite	SC8840	963	33.4	17.21	5.57	42.19	6.43	475	2.12	348	103	14.26	55.7	5.99	2.67	194.3	15.14
SBAC091	18	24	6 m Composite	SC8841	419	18.1	10.03	3.05	20.75	3.61	208	1.31	143	44	8.74	27.3	3.18	1.45	105.9	9.80
SBAC091	24	30	6 m Composite	SC8842	485	20.8	11.55	2.63	21.96	3.87	245	1.48	170	51	11.50	28.1	3.52	1.70	118.9	10.67
SBAC091	30	36	6 m Composite	SC8843	689	27.2	14.35	3.98	30.31	5.35	341	1.61	250	73	15.34	40.9	4.54	1.92	155.6	12.30
SBAC091	36	42	6 m Composite	SC8844	1048	42.0	22.76	6.00	50.14	7.86	487	2.55	400	116	30.06	66.9	7.60	3.14	235.6	18.50
SBAC091	42	48	6 m Composite	SC8845	581	26.1	13.49	4.52	28.82	4.78	287	1.49	213	63	13.19	38.0	4.19	1.96	144.8	12.24
SBAC091	48	54	6 m Composite	SC8846	565	25.8	15.09	4.32	29.05	5.37	276	1.89	211	62	12.88	37.6	4.90	2.22	157.5	13.21
SBAC091	54	60	6 m Composite	SC8847	665	29.3	16.87	4.50	33.66	5.97	323	1.84	244	73	16.10	41.4	5.25	2.50	174.0	14.92
SBRC092	0	7	7 m Composite	SC8848	701	23.9	13.38	3.27	28.58	4.52	369	1.46	260	78	13.19	41.4	4.40	1.76	137.2	11.10
SBRC092	8	14	6 m Composite	SC8849	952	33.9	16.87	4.23	38.15	6.12	469	1.89	335	100	12.58	53.1	5.45	2.43	181.0	14.58
SBRC092	14	20	6 m Composite	SC8850	979	33.4	17.84	4.18	39.07	6.31	479	2.08	343	101	13.34	52.3	6.01	2.41	181.6	15.09
SBRC092	20	26	6 m Composite	SC8851	929	31.0	16.47	4.43	35.96	6.16	454	1.96	320	99	13.04	52.3	5.75	2.31	176.5	14.63
SBRC092	26	32	6 m Composite	SC8852	940	33.9	18.18	4.60	37.81	6.52	459	2.00	331	99	12.12	53.6	5.87	2.43	182.9	14.40
SBRC092	32	38	6 m Composite	SC8853	967	35.5	18.30	4.32	41.49	6.85	471	2.18	351	103	14.42	51.6	6.63	2.82	194.3	16.23
SBRC092	38	44	6 m Composite	SC8854	830	30.1	15.44	4.42	37.81	6.06	412	1.93	306	90	12.58	49.5	5.89	2.26	168.3	12.98
SBRC092	44	50	6 m Composite	SC8855	687	23.5	12.24	3.87	27.78	4.43	349	1.25	230	72	10.89	36.1	4.16	1.86	130.2	10.81
SBRC092	50	56	6 m Composite	SC8856	685	24.1	12.86	3.55	27.66	4.65	338	1.61	232	70	10.28	36.0	4.05	1.88	135.9	11.10
SBRC092	56	62	6 m Composite	SC8857	806	27.8	14.01	4.03	30.08	5.13	410	1.71	273	83	11.66	44.6	4.69	2.04	145.4	12.01
SBRC092	62	68	6 m Composite	SC8858	775	28.5	15.78	4.35	32.62	5.36	395	1.89	273	81	9.66	44.0	5.07	2.16	157.5	12.41
SBRC092	68	74	6 m Composite	SC8859	753	26.1	14.58	4.53	30.54	4.95	378	1.73	267	80	13.34	43.0	4.66	2.08	144.1	11.73
SBRC092	74	80	6 m Composite	SC8860	1022	37.0	20.01	4.67	43.22	7.08	505	2.14	367	109	14.11	60.5	6.23	2.66	187.3	15.66
SBRC092	80	86	6 m Composite	SC8861	833	32.1	17.44	4.53	38.73	5.75	405	1.74	307	90	12.42	49.5	5.66	2.22	175.9	14.52
SBRC092	86	92	6 m Composite	SC8862	712	24.2	13.15	4.09	28.58	4.39	362	1.43	244	75	7.06	36.0	4.36	1.72	130.8	10.59
SBRC092	92	98	6 m Composite	SC8863	731	24.8	14.18	3.93	29.16	5.20	348	1.66	252	72	6.75	39.4	4.19	2.03	144.8	11.84
SBRC092	98	104	6 m Composite	SC8864	740	26.3	13.55	3.39	29.62	5.07	348	2.07	259	75	11.20	44.5	4.52	1.86	146.7	12.13
SBRC092	104	107	3 m Composite	SC8865	733	24.7	12.98	3.89	30.43	4.86	346	1.80	260	76	9.82	41.6	4.36	1.80	144.8	11.24
SBRC092	108	114	6 m Composite	SC8866	574	20.9	12.18	3.99	24.44	4.38	274	1.48	207	60	7.21	35.0	3.76	1.69	127.6	10.46
SBRC092	114	120	6 m Composite	SC8867	764	25.0	14.24	3.66	29.16	5.23	369	1.86	269	78	11.35	44.1	4.32	1.87	142.9	12.30
SBAC093	0	6	6 m Composite	SC8868	608	20.3	11.41	3.81	24.78	4.31	305	1.36	223	64	15.34	37.1	3.92	1.52	118.9	10.04

For personal use only

Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC093	6	12	6 m Composite	SC8869	682	21.9	12.75	4.19	28.24	4.47	326	1.59	245	71	13.80	38.3	4.19	1.74	129.5	11.56
SBAC093	12	18	6 m Composite	SC8870	685	21.9	13.84	3.89	28.47	4.44	330	1.39	251	70	16.87	38.6	4.25	1.72	132.1	11.15
SBAC093	18	24	6 m Composite	SC8871	716	23.5	12.46	3.93	28.47	4.54	347	1.64	257	74	16.87	40.7	4.05	1.85	132.1	11.39
SBAC093	24	30	6 m Composite	SC8872	741	23.3	13.09	3.98	29.05	4.57	355	1.48	266	75	12.58	46.3	4.25	1.86	136.5	12.07
SBAC093	30	36	6 m Composite	SC8873	825	24.2	14.41	4.94	31.81	4.99	396	1.91	293	84	16.87	44.6	4.63	1.78	141.0	12.98
SBAC093	36	42	6 m Composite	SC8874	704	23.9	14.12	4.30	28.12	4.77	335	1.80	253	71	13.34	39.2	4.12	1.80	134.6	12.18
SBAC093	42	48	6 m Composite	SC8875	775	26.5	14.29	4.78	31.93	5.12	368	1.84	279	79	19.33	45.3	4.95	1.90	141.6	12.13
SBAC093	48	54	6 m Composite	SC8876	844	27.3	16.92	5.18	37.46	5.67	400	2.41	306	85	20.09	47.7	5.34	2.33	166.4	13.44
SBAC093	54	60	6 m Composite	SC8877	828	24.8	15.15	4.78	33.08	5.27	393	1.88	297	85	20.86	47.7	4.69	2.00	155.6	14.40
SBAC094	0	6	6 m Composite	SC8878	615	19.5	11.21	4.41	25.93	4.03	318	1.30	239	67	15.18	38.6	3.58	1.44	114.5	9.69
SBAC094	6	12	6 m Composite	SC8879	721	21.1	12.81	5.16	28.35	4.35	342	1.84	272	74	16.57	41.9	4.39	1.77	134.0	12.18
SBAC094	12	18	6 m Composite	SC8880	737	23.8	12.75	4.74	28.58	4.64	355	1.98	269	76	20.25	44.8	4.25	1.71	134.6	12.53
SBAC094	18	24	6 m Composite	SC8881	666	21.2	12.24	4.72	26.97	4.33	317	1.68	248	68	18.10	35.0	3.78	1.74	124.7	11.61
SBAC094	24	27	3 m Composite	SC8882	667	23.9	13.66	5.20	28.70	4.44	320	2.09	248	70	19.02	39.3	4.39	1.90	134.6	11.26
SBAC094	28	34	6 m Composite	SC8883	631	19.3	11.32	4.59	25.47	4.10	294	1.80	234	65	15.34	36.1	3.56	1.55	113.8	9.92
SBAC094	34	40	6 m Composite	SC8884	715	22.1	12.06	5.38	27.89	4.33	337	1.76	268	72	22.39	38.4	4.19	1.70	127.0	11.18
SBAC094	40	46	6 m Composite	SC8885	751	22.0	12.35	4.82	28.12	4.33	355	1.99	275	76	16.87	41.3	4.23	1.74	126.7	12.07
SBAC094	46	52	6 m Composite	SC8886	767	25.1	15.09	4.71	31.81	5.21	362	2.00	294	79	21.17	43.6	4.58	1.87	145.4	13.78
SBAC094	52	58	6 m Composite	SC8887	693	23.8	12.24	4.09	28.12	4.43	325	1.81	258	72	21.78	40.7	3.89	1.71	129.5	12.13
SBAC094	58	60	2 m Composite	SC8888	726	23.6	13.44	5.82	29.85	4.63	345	1.99	271	73	19.33	40.8	4.16	1.94	138.4	12.30
SBAC095	0	6	6 m Composite	SC8889	566	18.8	9.94	4.76	23.40	3.72	291	1.43	223	64	10.89	34.6	3.63	1.38	111.4	10.31
SBAC095	6	12	6 m Composite	SC8890	580	17.9	9.26	4.20	22.53	3.26	279	1.25	220	60	10.12	33.9	3.25	1.30	105.7	9.33
SBAC095	12	18	6 m Composite	SC8891	572	18.0	9.61	4.68	23.17	3.64	276	1.08	220	61	11.20	32.5	3.28	1.47	105.0	9.26
SBAC095	18	24	6 m Composite	SC8892	541	19.4	10.73	4.41	23.63	3.60	260	1.36	205	58	12.27	30.4	3.66	1.43	105.0	8.98
SBAC095	24	30	6 m Composite	SC8893	607	20.1	11.44	4.72	25.82	4.33	283	1.64	233	65	14.88	35.0	3.79	1.59	127.6	11.13
SBAC095	30	36	6 m Composite	SC8894	566	22.2	12.29	4.13	26.16	4.32	264	1.48	211	59	14.26	33.5	3.63	1.58	129.5	11.39
SBAC095	36	42	6 m Composite	SC8895	644	23.9	14.47	5.35	28.70	4.77	298	1.72	239	66	9.97	38.6	4.20	1.86	141.6	11.79
SBAC095	42	48	6 m Composite	SC8896	640	23.4	12.69	5.43	29.16	4.91	298	1.68	244	66	13.50	37.1	4.23	1.61	138.4	12.13
SBAC095	48	54	6 m Composite	SC8897	593	21.3	12.41	5.11	27.55	4.41	277	1.50	216	61	16.87	33.6	3.95	1.71	132.7	10.54
SBAC095	54	60	6 m Composite	SC8898	541	22.8	11.72	4.38	26.51	4.16	279	1.46	202	62	17.79	32.1	4.01	1.61	130.8	10.62

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC096	0	7	7 m Composite	SC8899	689	20.8	11.14	4.02	27.89	3.79	372	1.25	245	79	13.34	37.3	3.86	1.42	119.4	8.62
SBAC096	8	14	6 m Composite	SC8900	542	17.5	8.62	4.15	22.88	3.38	280	1.14	196	62	11.81	31.3	3.32	1.26	99.3	7.26
SBAC096	14	20	6 m Composite	SC8901	646	23.0	13.21	4.31	25.47	4.57	335	1.61	229	71	10.58	36.4	3.94	1.93	133.3	11.50
SBAC096	20	26	6 m Composite	SC8902	671	22.4	12.29	4.52	28.47	4.56	348	1.36	247	75	12.73	37.0	4.03	1.52	132.7	10.41
SBAC096	26	32	6 m Composite	SC8903	587	23.3	11.49	3.67	26.97	4.39	300	1.50	213	66	13.96	35.1	3.81	1.64	124.5	10.33
SBAC096	32	38	6 m Composite	SC8904	662	23.9	13.04	3.77	26.63	4.26	340	1.58	239	73	16.57	34.9	3.83	1.69	133.3	10.93
SBAC096	38	44	6 m Composite	SC8905	611	22.3	13.38	3.84	26.28	4.50	304	1.46	218	65	14.42	35.7	3.56	1.61	132.1	10.65
SBAC096	44	50	6 m Composite	SC8906	556	18.8	11.17	3.69	22.88	3.97	276	1.46	193	57	11.96	31.7	3.46	1.52	109.3	9.00
SBAC096	50	56	6 m Composite	SC8907	615	22.0	11.89	4.06	25.01	4.43	304	1.50	214	65	12.73	33.9	3.79	1.80	128.3	10.52
SBAC096	56	60	4 m Composite	SC8908	701	21.8	11.78	4.47	29.16	4.31	347	1.44	244	76	17.33	38.7	4.22	1.84	133.3	10.24
SBAC097	0	6	6 m Composite	SC8909	504	16.4	9.22	3.67	20.29	3.01	265	1.21	162	54	10.58	25.7	2.93	1.39	96.8	8.75
SBAC097	6	12	6 m Composite	SC8910	439	15.4	9.23	3.39	20.75	2.99	218	1.18	155	48	10.43	26.9	3.03	1.36	95.8	8.23
SBAC097	12	18	6 m Composite	SC8911	588	19.8	11.26	3.64	24.55	3.78	296	1.47	198	62	11.81	31.5	3.58	1.55	114.9	9.95
SBAC097	18	24	6 m Composite	SC8912	631	18.0	11.55	4.49	23.40	3.79	319	1.55	199	64	14.26	32.1	3.45	1.62	112.9	9.90
SBAC097	24	30	6 m Composite	SC8913	552	16.4	9.25	3.67	20.17	3.20	278	1.32	178	57	8.28	27.0	2.79	1.35	94.7	8.38
SBAC097	30	36	6 m Composite	SC8914	674	19.9	10.79	4.41	24.67	3.91	346	1.43	215	70	15.95	33.9	3.71	1.62	121.2	10.04
SBAC097	36	42	6 m Composite	SC8915	515	16.7	9.63	3.97	20.63	3.34	263	1.34	164	54	15.64	26.4	2.82	1.48	97.4	8.04
SBAC097	42	47	5 m Composite	SC8916	528	17.6	10.76	4.18	21.73	3.37	260	1.23	177	56	14.11	30.4	3.28	1.39	112.0	9.16
SBAC097	48	54	6 m Composite	SC8917	656	18.5	10.66	3.83	22.94	3.72	326	1.34	207	67	12.27	32.0	3.43	1.55	114.8	10.51
SBAC097	54	60	6 m Composite	SC8918	607	20.2	12.18	4.77	25.70	4.00	304	1.66	208	65	14.72	34.8	3.72	1.76	125.5	10.68
SBAC098	0	6	6 m Composite	SC8919	726	27.9	15.27	4.37	37.00	5.60	480	2.08	297	97	15.95	46.7	5.30	2.24	174.0	12.47
SBAC098	6	12	6 m Composite	SC8920	719	24.6	14.01	4.03	30.89	4.88	368	1.71	248	79	11.66	41.4	4.46	2.11	153.7	12.58
SBAC098	12	18	6 m Composite	SC8921	751	27.1	15.38	4.24	32.62	5.14	371	1.91	253	80	12.88	44.8	4.73	2.17	158.7	12.98
SBAC098	18	24	6 m Composite	SC8922	695	23.2	13.15	3.66	27.55	4.69	346	1.55	223	73	11.66	36.9	4.10	1.88	142.9	11.50
SBAC098	24	30	6 m Composite	SC8923	782	24.7	13.84	4.27	29.39	4.71	393	1.63	246	81	11.20	37.2	4.55	2.08	144.1	12.75
SBAC098	30	36	6 m Composite	SC8924	770	22.8	13.26	3.97	30.20	4.77	391	1.77	241	81	13.50	38.4	4.32	1.92	139.1	12.13
SBAC098	36	42	6 m Composite	SC8925	742	24.1	13.44	4.06	30.20	4.63	374	1.76	233	78	15.18	37.9	4.34	1.95	142.2	11.44
SBAC098	42	48	6 m Composite	SC8926	767	26.2	14.52	4.08	31.70	5.29	376	1.86	254	82	11.50	43.0	4.80	2.02	160.6	13.32
SBAC098	48	54	6 m Composite	SC8927	797	27.5	16.35	3.89	33.89	5.53	393	2.02	264	84	17.33	43.6	5.08	2.28	168.9	14.18
SBAC098	54	60	6 m Composite	SC8928	821	29.6	16.47	4.30	35.15	6.00	405	2.07	271	87	13.04	47.0	4.98	2.27	174.6	14.18

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC099	0	6	6 m Composite	SC8929	115	6.1	4.09	1.49	6.10	1.31	58	0.60	39	13	2.15	7.5	1.02	0.56	50.7	3.53
SBAC099	6	12	6 m Composite	SC8930	60	3.6	2.36	0.90	3.61	0.73	33	0.41	21	6	1.69	4.4	0.61	0.37	32.1	2.35
SBAC099	12	18	6 m Composite	SC8931	113	6.0	4.08	1.09	5.73	1.37	54	0.48	40	11	1.38	8.0	0.96	0.62	46.9	3.59
SBAC099	18	24	6 m Composite	SC8932	157	9.1	5.99	1.46	7.66	2.00	80	0.72	53	16	4.14	9.1	1.22	0.74	60.8	5.36
SBAC099	24	27	3 m Composite	SC8933	463	17.8	11.15	4.47	21.15	3.44	232	1.64	165	51	17.49	27.7	3.20	1.55	110.9	10.41
SBAC099	28	34	6 m Composite	SC8934	531	20.3	12.69	4.39	24.32	4.18	262	1.66	187	58	14.88	33.4	3.48	1.94	131.4	12.47
SBAC099	34	40	6 m Composite	SC8935	636	26.4	15.89	4.72	29.28	5.13	313	2.21	226	69	19.63	36.8	4.40	2.32	169.5	14.92
SBAC099	40	46	6 m Composite	SC8936	543	22.6	12.46	5.35	27.09	4.22	264	1.65	199	60	16.26	37.3	4.32	2.09	140.3	12.07
SBAC099	46	52	6 m Composite	SC8937	628	26.9	14.98	4.90	31.00	5.33	307	2.21	226	69	19.33	39.5	4.81	2.16	168.9	13.61
SBAC099	52	58	6 m Composite	SC8938	552	24.6	14.81	4.94	26.74	4.88	262	1.97	202	62	22.39	34.3	4.16	2.06	151.1	13.27
SBAC099	58	60	2 m Composite	SC8939	611	28.5	15.55	5.03	33.89	5.84	287	2.16	230	69	20.09	41.5	5.18	2.42	178.4	15.83
SBRC100	0	6	6 m Composite	SC8940	536	21.2	12.06	4.32	25.70	4.06	289	1.59	197	63	14.26	34.9	3.72	1.71	130.8	11.03
SBRC100	6	12	6 m Composite	SC8941	583	22.5	12.86	4.76	26.86	4.48	284	1.71	202	63	18.71	37.2	4.06	1.92	139.7	11.18
SBRC100	12	18	6 m Composite	SC8942	536	22.0	11.95	4.74	24.90	4.18	272	1.50	203	60	9.82	32.2	3.95	1.83	126.2	10.87
SBRC100	18	24	6 m Composite	SC8943	544	20.8	11.44	5.11	24.78	3.86	273	1.32	200	61	11.96	33.2	3.52	1.67	121.0	9.61
SBRC100	24	30	6 m Composite	SC8944	577	19.9	10.51	4.79	23.63	3.60	296	0.96	213	64	14.88	31.1	3.38	1.56	112.5	9.31
SBRC100	30	36	6 m Composite	SC8945	549	20.0	10.54	4.90	24.44	3.84	279	1.34	206	61	12.58	30.3	3.65	1.51	116.7	10.32
SBRC100	36	42	6 m Composite	SC8946	505	18.4	9.51	4.98	23.17	3.24	257	1.33	192	56	14.11	27.3	3.31	1.58	106.9	9.12
SBRC100	42	48	6 m Composite	SC8947	509	18.8	10.45	5.01	22.71	3.40	259	1.09	195	57	16.87	28.9	3.25	1.35	107.2	8.81
SBRC100	48	54	6 m Composite	SC8948	553	20.2	12.01	4.76	24.55	3.88	281	1.32	203	60	14.11	31.3	3.51	1.83	115.1	10.57
SBRC100	54	60	6 m Composite	SC8949	528	18.9	9.79	4.34	23.17	3.49	266	1.24	202	60	18.10	31.1	3.29	1.32	104.8	8.88
SBRC100	60	67	7 m Composite	SC8950	561	19.7	10.50	4.48	24.32	3.65	289	1.28	205	62	11.20	31.7	3.36	1.55	110.0	9.39
SBRC100	68	74	6 m Composite	SC8951	591	17.0	9.46	4.77	22.82	3.28	313	1.27	205	64	11.20	30.7	3.12	1.55	104.5	9.22
SBRC100	74	80	6 m Composite	SC8952	526	19.7	10.27	4.78	22.99	3.70	270	1.41	197	58	13.19	29.6	3.40	1.53	114.5	9.68
SBRC100	80	86	6 m Composite	SC8953	596	19.7	10.35	4.90	25.01	3.96	310	1.39	216	65	13.50	32.2	3.42	1.47	118.1	10.12
SBRC100	86	92	6 m Composite	SC8954	597	20.9	11.16	4.56	25.70	3.97	311	1.23	219	65	14.26	31.3	3.45	1.55	118.4	10.17
SBRC100	92	98	6 m Composite	SC8955	592	22.0	11.03	5.33	25.82	4.04	305	1.34	221	66	15.95	33.5	3.59	1.62	122.6	10.69
SBRC100	98	104	6 m Composite	SC8956	559	21.4	11.89	4.86	25.24	3.80	290	1.22	207	62	16.26	33.4	3.67	1.60	122.4	9.68
SBRC100	104	110	6 m Composite	SC8957	560	20.3	10.87	5.07	24.20	3.79	286	1.30	203	60	11.35	31.4	3.49	1.64	112.3	9.05
SBRC100	110	116	6 m Composite	SC8958	470	16.0	9.55	4.61	20.34	3.02	246	1.13	173	52	12.88	26.0	2.58	1.30	92.5	7.54

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBRC100	116	120	4 m Composite	SC8959	568	21.0	11.72	4.75	25.13	3.99	296	1.17	211	62	11.66	31.4	3.34	1.71	119.8	10.75
SBAC101	0	6	6 m Composite	SC8960	566	20.3	10.92	3.82	25.93	3.68	337	1.30	222	68	12.88	34.8	3.63	1.51	113.5	9.28
SBAC101	6	12	6 m Composite	SC8961	699	24.8	13.21	3.62	29.05	4.58	379	1.76	253	76	16.26	38.5	4.03	1.91	138.4	12.64
SBAC101	12	18	6 m Composite	SC8962	711	23.6	13.04	4.35	27.20	4.30	382	1.52	248	76	15.64	35.8	3.96	1.78	123.2	10.92
SBAC101	18	24	6 m Composite	SC8963	827	26.3	12.92	4.46	31.24	4.62	448	1.71	290	89	12.58	40.8	4.62	2.08	141.6	11.67
SBAC101	24	30	6 m Composite	SC8964	838	31.0	16.52	4.49	34.69	5.82	441	1.82	295	89	18.41	47.2	5.35	2.38	170.8	14.46
SBAC101	30	36	6 m Composite	SC8965	779	30.9	15.27	4.48	35.27	5.52	410	1.76	287	87	16.57	47.4	5.10	2.25	161.9	13.78
SBAC101	36	42	6 m Composite	SC8966	931	30.6	17.04	4.52	39.76	5.96	497	2.16	324	98	17.18	49.2	5.52	2.31	172.7	15.26
SBAC101	42	47	5 m Composite	SC8967	749	29.7	15.84	3.79	33.89	5.60	402	1.84	264	81	16.10	42.7	4.60	2.28	157.5	13.32
SBAC101	48	54	6 m Composite	SC8968	795	30.1	16.41	4.20	35.50	5.49	423	1.84	287	86	15.03	42.8	5.03	2.24	160.0	14.23
SBAC101	54	60	6 m Composite	SC8969	747	28.2	14.92	3.97	34.23	5.57	396	1.86	265	80	13.34	42.1	4.79	2.10	154.9	14.01
SBAC102	0	6	6 m Composite	SC8970	678	27.3	13.44	3.60	30.08	4.94	402	1.68	268	79	16.87	39.7	4.50	2.03	146.7	12.13
SBAC102	6	12	6 m Composite	SC8971	608	23.2	13.32	4.39	28.82	4.67	323	1.61	226	67	12.42	36.8	4.15	1.85	129.5	11.67
SBAC102	12	18	6 m Composite	SC8972	710	27.8	14.29	4.23	31.35	4.95	379	2.02	257	78	13.80	40.4	4.68	2.17	151.8	13.27
SBAC102	18	24	6 m Composite	SC8973	658	26.4	14.64	3.74	29.85	4.83	349	1.59	236	73	9.66	34.9	4.34	1.85	142.2	12.81
SBAC102	24	30	6 m Composite	SC8974	706	26.3	13.66	4.32	31.24	4.77	375	1.64	254	76	14.26	40.0	4.62	2.08	148.6	12.30
SBAC102	30	36	6 m Composite	SC8975	736	29.6	15.67	3.89	31.47	5.69	388	1.89	271	80	14.26	41.1	4.68	2.15	160.6	14.58
SBAC102	36	42	6 m Composite	SC8976	748	27.1	12.92	4.01	30.20	5.01	379	1.98	255	79	13.50	38.7	4.73	2.02	142.2	12.30
SBAC102	42	48	6 m Composite	SC8977	821	27.8	15.67	4.59	34.46	5.58	426	1.98	287	86	18.41	46.5	5.01	2.07	146.7	13.10
SBAC102	48	54	6 m Composite	SC8978	891	27.4	14.75	4.16	33.43	5.29	468	2.05	310	93	10.74	45.3	4.68	2.11	144.8	13.44
SBAC102	54	60	6 m Composite	SC8979	775	26.4	12.81	3.68	30.54	5.01	399	1.81	275	82	12.58	40.8	4.78	1.99	134.6	11.96
SBAC103	0	6	6 m Composite	SC8980	596	23.6	12.41	4.84	29.51	4.74	323	1.83	250	72	13.80	40.2	4.01	1.85	126.6	11.17
SBAC103	6	12	6 m Composite	SC8981	679	24.6	12.81	4.98	29.74	4.62	347	1.80	264	79	16.26	40.1	4.62	1.82	131.4	11.50
SBAC103	12	18	6 m Composite	SC8982	754	27.2	13.89	5.93	33.89	5.25	379	2.06	288	84	15.64	43.6	4.82	2.08	141.6	13.55
SBAC103	18	24	6 m Composite	SC8983	711	26.5	13.89	5.62	31.81	5.04	353	1.93	266	78	12.42	39.2	4.63	1.94	132.7	11.56
SBAC103	24	27	3 m Composite	SC8984	695	26.9	14.98	5.22	32.04	5.22	342	2.07	264	78	18.71	41.9	4.92	2.08	139.1	13.49
SBAC103	28	34	6 m Composite	SC8985	683	24.6	13.72	5.37	30.08	5.09	337	1.89	260	76	14.57	38.7	4.61	1.82	127.6	12.92
SBAC103	34	40	6 m Composite	SC8986	724	25.0	14.07	5.20	31.93	4.96	359	1.96	276	79	16.72	42.9	4.52	2.10	131.4	12.92
SBAC103	40	46	6 m Composite	SC8987	753	26.2	14.47	5.85	32.85	5.13	376	2.12	292	84	15.34	42.3	4.62	2.06	139.1	13.10
SBAC103	46	52	6 m Composite	SC8988	770	27.0	14.47	5.92	34.23	5.30	381	2.27	290	86	17.79	42.2	4.65	2.07	142.2	13.10

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC103	52	58	6 m Composite	SC8989	748	25.8	13.21	5.16	29.97	4.95	362	1.99	276	79	13.65	40.4	4.15	1.96	135.9	12.92
SBAC103	58	60	2 m Composite	SC8990	749	26.5	14.87	5.78	33.08	5.22	373	2.14	282	82	19.02	43.0	4.61	2.01	139.1	12.87
SBAC104	0	6	6 m Composite	SC8991	510	18.3	8.97	4.10	23.28	3.28	298	1.13	209	63	7.06	30.9	3.03	1.35	98.7	7.60
SBAC104	6	12	6 m Composite	SC8992	479	16.2	8.21	3.67	20.63	2.90	258	1.07	191	55	9.51	28.9	2.94	1.19	89.9	7.29
SBAC104	12	18	6 m Composite	SC8993	579	19.8	10.93	4.40	24.20	4.04	297	1.36	222	67	11.96	34.2	3.58	1.59	103.2	8.78
SBAC104	18	24	6 m Composite	SC8994	604	19.6	11.23	4.60	25.93	3.95	312	1.41	227	67	12.27	34.4	3.61	1.51	113.7	10.31
SBAC104	24	30	6 m Composite	SC8995	577	21.2	12.01	4.69	26.39	4.04	290	1.79	219	63	11.50	33.9	3.62	1.50	112.8	10.43
SBAC104	30	36	6 m Composite	SC8996	807	26.6	15.09	5.00	33.31	5.32	410	2.21	297	88	19.33	43.4	4.73	2.15	150.5	13.95
SBAC104	36	42	6 m Composite	SC8997	728	28.0	15.78	5.13	33.19	5.58	364	2.05	274	81	11.04	41.9	4.82	2.24	151.1	14.40
SBAC104	42	48	6 m Composite	SC8998	617	25.1	14.35	4.50	30.20	5.18	304	2.21	244	69	12.27	37.1	4.56	2.18	141.0	12.64
SBAC104	48	54	6 m Composite	SC8999	717	27.0	14.81	5.08	33.31	5.34	354	1.91	275	81	17.18	44.4	4.78	2.25	150.5	14.40
SBAC104	54	60	6 m Composite	SC9000	657	25.5	13.89	4.91	30.08	5.09	326	1.75	254	73	14.57	38.6	4.29	2.08	133.3	11.67
SBAC105	0	7	7 m Composite	SC9001	318	9.5	5.17	2.35	11.70	2.02	177	0.59	114	36	5.83	17.5	1.63	0.67	52.2	4.55
SBAC105	8	14	6 m Composite	SC9002	482	15.2	7.70	3.32	18.96	2.96	263	0.89	166	50	8.13	23.4	2.75	1.12	82.9	6.63
SBAC105	14	20	6 m Composite	SC9003	577	16.6	8.27	3.00	20.40	3.29	307	0.91	192	61	9.51	28.1	2.86	1.23	91.8	7.09
SBAC105	20	26	6 m Composite	SC9004	644	21.6	11.78	3.15	27.09	4.54	326	1.57	220	69	14.26	34.2	3.88	1.64	123.3	10.51
SBAC105	26	32	6 m Composite	SC9005	507	9.7	5.16	2.37	14.18	1.76	269	0.59	157	51	7.82	19.8	1.81	0.70	54.1	4.90
SBAC105	32	38	6 m Composite	SC9006	595	19.6	10.26	3.66	24.44	3.73	306	1.18	198	63	12.58	32.1	3.43	1.48	108.6	8.82
SBAC105	38	44	6 m Composite	SC9007	623	23.1	12.41	3.18	26.16	4.36	315	1.59	223	67	17.18	34.6	3.86	1.67	124.5	10.23
SBAC105	44	50	6 m Composite	SC9008	657	20.8	12.41	3.77	26.05	4.43	340	1.39	220	69	12.27	32.5	3.81	1.68	121.4	9.57
SBAC105	50	56	6 m Composite	SC9009	634	23.1	12.46	3.52	25.36	4.40	326	1.39	218	68	10.89	33.3	3.75	1.60	120.9	9.35
SBAC105	56	60	4 m Composite	SC9010	598	21.5	10.77	3.51	24.90	4.03	305	1.39	210	64	13.65	31.0	3.55	1.44	110.9	8.43
SBAC106	0	6	6 m Composite	SC9011	708	21.1	11.26	3.61	25.24	3.93	371	1.16	250	74	8.28	37.0	3.66	1.50	108.7	8.81
SBAC106	6	12	6 m Composite	SC9012	625	21.2	10.73	3.00	23.40	3.83	321	1.30	225	66	6.75	33.1	3.55	1.46	108.3	8.34
SBAC106	12	18	6 m Composite	SC9013	697	19.8	10.46	3.66	23.74	4.14	347	1.23	239	71	11.35	34.6	3.60	1.35	112.5	8.54
SBAC106	18	24	6 m Composite	SC9014	712	20.6	10.76	3.31	25.93	4.04	354	1.34	239	72	9.82	32.0	3.41	1.44	111.1	8.95
SBAC106	24	30	6 m Composite	SC9015	722	22.3	10.39	3.62	26.86	4.28	353	1.52	251	72	11.20	37.1	3.75	1.53	119.9	9.17
SBAC106	30	36	6 m Composite	SC9016	785	23.3	11.84	3.77	29.28	4.49	387	1.64	268	79	8.28	39.3	4.07	1.64	125.1	9.51
SBAC106	36	42	6 m Composite	SC9017	741	21.7	11.49	3.77	28.93	4.28	367	1.28	253	76	11.04	37.2	3.98	1.62	118.0	10.23
SBAC106	42	47	5 m Composite	SC9018	752	21.9	11.72	3.71	27.09	4.26	368	1.59	258	75	14.57	35.6	3.87	1.55	118.4	10.05

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SBAC106	48	54	6 m Composite	SC9019	789	21.8	11.02	3.71	27.20	4.03	388	1.24	269	78	11.50	37.6	3.80	1.39	112.1	9.18
SBAC106	54	60	6 m Composite	SC9020	712	19.9	10.25	3.94	25.24	3.69	351	1.30	241	72	9.05	33.9	3.53	1.30	103.5	8.45
SBAC107	0	6	6 m Composite	SC9021	649	22.3	12.24	3.45	26.51	4.43	326	1.46	238	69	13.65	33.7	4.07	1.71	127.0	11.19
SBAC107	6	12	6 m Composite	SC9022	668	24.1	12.81	3.84	28.01	4.69	326	1.59	237	69	8.90	37.5	4.26	1.87	135.2	11.27
SBAC107	12	18	6 m Composite	SC9023	663	23.5	12.64	3.55	27.20	4.73	323	1.61	239	69	8.59	35.7	3.96	1.88	134.6	10.69
SBAC107	18	24	6 m Composite	SC9024	776	28.1	16.47	4.31	33.08	5.83	375	1.97	281	82	12.42	41.3	5.16	2.08	164.5	13.15
SBAC107	24	30	6 m Composite	SC9025	753	27.3	14.64	4.02	30.43	5.37	366	1.93	264	77	10.58	39.0	4.59	2.02	154.3	12.35
SBAC107	30	36	6 m Composite	SC9026	666	23.3	12.58	4.05	26.05	4.48	330	1.56	232	68	9.20	33.4	4.00	1.67	129.5	10.83
SBAC107	36	42	6 m Composite	SC9027	801	28.2	15.49	3.91	31.47	5.74	388	1.91	286	83	12.88	41.6	4.70	2.08	159.4	12.53
SBAC107	42	48	6 m Composite	SC9028	742	24.7	14.07	4.05	29.51	5.11	362	1.73	260	76	11.66	40.1	4.48	2.02	143.5	12.07
SBAC107	48	54	6 m Composite	SC9029	728	25.9	13.61	4.39	28.93	4.85	355	1.60	265	74	6.60	37.8	4.52	1.80	142.9	11.79
SBAC107	54	60	6 m Composite	SC9030	730	25.3	13.78	4.01	29.16	5.04	357	1.68	260	75	11.20	37.2	4.13	1.87	141.6	11.56
SBRC108	0	6	6 m Composite	SC9031	586	20.1	10.20	4.18	24.44	3.99	304	1.32	213	63	13.34	32.4	3.52	1.46	113.5	8.55
SBRC108	6	12	6 m Composite	SC9032	598	20.7	11.02	4.21	24.20	3.91	298	1.27	220	63	16.26	32.1	3.36	1.51	115.1	9.36
SBRC108	12	18	6 m Composite	SC9033	642	22.5	11.66	4.21	26.28	4.42	320	1.25	229	66	10.43	32.1	3.79	1.67	121.4	10.29
SBRC108	18	24	6 m Composite	SC9034	682	21.9	11.61	4.20	26.05	4.43	340	1.39	240	70	11.96	34.4	3.65	1.64	120.3	10.15
SBRC108	24	27	3 m Composite	SC9035	770	23.9	13.26	4.90	29.97	4.87	374	1.66	281	80	13.04	39.0	4.50	1.85	137.8	11.13
SBRC108	28	34	6 m Composite	SC9036	780	23.1	12.64	4.69	28.01	4.65	382	1.69	275	81	14.72	38.7	4.08	1.87	130.2	10.85
SBRC108	34	40	6 m Composite	SC9037	650	21.8	11.29	4.50	25.36	3.99	317	1.41	229	68	14.88	33.5	3.73	1.48	116.5	9.45
SBRC108	40	46	6 m Composite	SC9038	668	21.9	11.84	4.45	26.05	4.17	326	1.68	236	69	15.64	34.0	3.92	1.63	120.8	9.57
SBRC108	46	52	6 m Composite	SC9039	669	22.1	11.44	4.65	26.74	4.48	333	1.32	239	71	15.18	35.8	3.79	1.56	123.3	10.03
SBRC108	52	58	6 m Composite	SC9040	595	20.2	10.97	4.02	25.36	3.91	293	1.36	216	65	13.50	31.5	3.62	1.47	113.7	9.33
SBRC108	58	64	6 m Composite	SC9041	647	23.0	12.18	4.69	26.74	4.44	312	1.64	238	67	14.88	38.3	3.68	1.70	126.2	10.13
SBRC108	64	70	6 m Composite	SC9042	629	23.8	11.30	4.61	29.74	4.58	305	1.66	238	69	9.51	39.8	4.07	1.87	130.8	11.25
SBRC108	70	76	6 m Composite	SC9043	642	24.0	11.66	4.53	30.43	4.26	314	1.60	240	68	16.41	38.3	4.22	1.78	130.8	10.82
SBRC108	76	82	6 m Composite	SC9044	685	24.3	12.52	4.61	28.47	4.69	338	1.89	238	73	17.64	37.8	4.55	1.80	135.9	10.61
SBRC108	82	88	6 m Composite	SC9045	676	24.9	12.41	4.77	27.20	4.78	333	1.75	240	73	12.27	36.5	4.28	1.82	136.5	11.44
SBRC108	88	94	6 m Composite	SC9046	676	22.7	12.41	4.77	28.58	4.66	337	1.79	229	70	16.10	38.3	4.21	1.74	132.1	10.91
SBRC108	94	100	6 m Composite	SC9047	661	24.3	11.78	4.43	28.01	4.72	324	1.71	241	72	12.27	35.1	4.02	1.78	132.1	10.87
SBRC108	100	106	6 m Composite	SC9048	630	22.9	11.32	4.69	26.05	4.38	312	1.74	225	66	14.42	36.3	4.08	1.48	120.6	10.86

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SBRC108	106	112	6 m Composite	SC9049	646	21.4	10.83	4.33	26.97	4.20	321	1.55	229	69	6.75	35.5	3.89	1.64	122.6	10.04
SBRC108	112	118	6 m Composite	SC9050	673	22.4	11.03	4.21	27.32	4.11	334	1.30	246	72	9.36	37.2	3.79	1.61	120.3	10.13
SBRC108	118	120	2 m Composite	SC9051	559	18.2	9.16	4.63	22.42	3.60	279	1.17	197	58	15.95	29.6	3.15	1.45	105.7	8.38
SBAC109	0	7	7 m Composite	SC9052	569	21.5	11.14	4.48	25.70	4.23	312	1.56	212	64	11.35	32.6	3.65	1.47	116.7	10.36
SBAC109	8	14	6 m Composite	SC9053	726	23.9	12.81	4.83	30.77	4.58	380	1.71	261	81	15.03	42.0	4.27	1.67	132.1	10.53
SBAC109	14	20	6 m Composite	SC9054	699	24.9	12.64	4.49	29.51	4.63	354	2.07	252	76	16.41	38.9	4.18	1.60	128.9	11.23
SBAC109	20	26	6 m Composite	SC9055	649	22.8	11.78	4.48	27.32	4.41	326	1.74	232	68	16.41	35.4	3.81	1.67	120.6	10.45
SBAC109	26	32	6 m Composite	SC9056	711	22.7	12.18	5.07	27.43	4.40	359	1.74	251	75	13.96	36.5	4.03	1.67	126.7	11.90
SBAC109	32	38	6 m Composite	SC9057	684	22.8	12.24	4.96	28.12	4.83	341	1.96	246	72	16.41	38.7	4.09	1.67	129.5	11.67
SBAC109	38	44	6 m Composite	SC9058	604	21.6	10.77	4.47	25.59	3.83	298	1.35	219	64	13.96	33.3	3.60	1.48	107.8	9.74
SBAC109	44	50	6 m Composite	SC9059	754	24.8	13.26	4.74	31.93	4.99	378	1.91	269	81	17.79	41.8	4.29	1.76	126.9	11.84
SBAC109	50	56	6 m Composite	SC9060	716	22.0	11.49	4.75	29.74	4.31	360	1.93	260	76	17.79	39.8	3.93	1.74	118.9	11.90
SBAC109	56	60	4 m Composite	SC9061	688	22.8	12.06	4.60	29.74	4.59	346	1.89	250	74	17.33	36.6	3.78	1.69	121.8	11.06
SBAC110	0	6	6 m Composite	SC9062	692	23.2	11.95	4.12	26.39	4.72	346	1.74	254	74	15.49	35.5	3.83	1.69	121.7	11.03
SBAC110	6	12	6 m Composite	SC9063	500	19.0	10.21	3.96	23.17	3.87	247	1.43	185	54	13.19	28.0	3.21	1.48	98.9	9.16
SBAC110	12	18	6 m Composite	SC9064	597	25.3	13.49	4.77	28.12	5.03	298	2.04	221	65	18.41	35.4	4.26	1.92	136.5	12.07
SBAC110	18	24	6 m Composite	SC9065	719	24.9	13.26	4.72	30.54	4.80	376	1.81	260	79	11.96	38.7	4.68	1.79	135.2	11.61
SBAC110	24	30	6 m Composite	SC9066	835	27.8	14.52	5.22	33.08	5.52	426	1.66	290	88	14.88	44.9	4.63	1.99	156.2	13.15
SBAC110	30	36	6 m Composite	SC9067	759	31.5	17.04	4.71	34.46	6.36	384	2.52	275	81	16.10	44.5	5.09	2.34	168.9	15.60
SBAC110	36	42	6 m Composite	SC9068	748	30.3	15.72	5.33	31.47	5.48	381	2.33	271	80	18.25	42.8	4.83	2.10	155.6	13.21
SBAC110	42	47	5 m Composite	SC9069	769	27.7	15.15	4.83	31.58	5.65	388	2.02	273	82	15.03	42.9	4.46	2.08	154.3	13.49
SBAC110	48	54	6 m Composite	SC9070	764	28.1	14.12	4.74	31.70	5.22	381	2.09	269	80	16.41	40.8	4.34	2.00	147.9	13.04
SBAC110	54	60	6 m Composite	SC9071	742	28.7	15.61	4.46	33.08	5.51	374	2.09	272	80	13.80	43.6	4.72	2.04	154.9	13.38
SBAC111	0	6	6 m Composite	SC9072	429	15.3	7.84	3.47	19.77	2.97	237	1.10	170	49	5.68	24.5	2.59	1.08	84.2	7.07
SBAC111	6	12	6 m Composite	SC9073	259	10.7	6.00	2.64	12.97	2.31	138	0.89	101	28	6.90	15.1	2.00	0.82	62.4	5.61
SBAC111	12	18	6 m Composite	SC9074	287	12.4	6.55	2.71	13.77	2.33	144	1.03	114	32	7.36	18.2	2.21	1.02	70.9	6.32
SBAC111	18	24	6 m Composite	SC9075	440	17.4	10.07	4.02	21.03	3.43	211	1.33	168	50	14.88	26.6	2.89	1.32	95.8	9.20
SBAC111	24	30	6 m Composite	SC9076	724	24.8	13.61	4.77	30.20	5.04	355	2.14	268	79	15.34	42.7	4.36	1.96	141.6	13.10
SBAC111	30	36	6 m Composite	SC9077	744	28.4	13.66	5.63	31.00	5.28	365	2.13	279	79	17.03	41.9	4.63	2.02	139.7	12.75
SBAC111	36	42	6 m Composite	SC9078	751	26.1	13.61	5.40	32.50	5.35	379	2.18	271	82	13.34	41.2	4.50	1.90	140.3	12.47

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC111	42	48	6 m Composite	SC9079	629	24.5	13.55	4.93	28.24	4.36	297	1.67	236	69	16.41	35.8	4.16	1.80	139.1	11.23
SBAC111	48	54	6 m Composite	SC9080	711	27.1	15.09	5.08	31.58	5.02	339	1.97	271	77	18.87	39.1	4.86	1.92	147.3	12.41
SBAC111	54	60	6 m Composite	SC9081	716	26.3	14.64	5.30	31.12	4.90	339	1.93	269	80	15.64	40.0	4.72	1.99	149.9	12.81
SBAC112	0	6	6 m Composite	SC9082	469	16.3	8.68	3.51	18.21	2.78	246	1.05	171	53	10.28	24.4	2.80	1.18	95.8	7.50
SBAC112	6	12	6 m Composite	SC9083	490	16.1	8.34	3.72	18.38	3.13	239	1.11	173	52	10.89	25.1	2.89	1.21	98.2	7.09
SBAC112	12	18	6 m Composite	SC9084	495	19.1	10.63	4.10	21.61	3.63	239	1.32	182	54	15.49	28.0	3.19	1.51	114.0	9.64
SBAC112	18	24	6 m Composite	SC9085	554	20.3	10.27	4.50	23.86	3.91	269	1.30	196	60	15.80	29.3	3.51	1.67	121.2	9.17
SBAC112	24	27	3 m Composite	SC9086	569	20.1	11.06	4.56	22.99	3.78	278	1.36	201	61	13.96	29.5	3.58	1.45	118.1	8.61
SBAC112	28	34	6 m Composite	SC9087	603	19.1	9.77	4.30	22.01	3.53	293	1.48	210	65	16.72	28.0	3.13	1.37	108.6	8.75
SBAC112	34	40	6 m Composite	SC9088	636	17.5	9.02	4.03	22.53	3.40	311	1.18	219	67	14.26	29.9	3.19	1.20	98.4	7.53
SBAC112	40	46	6 m Composite	SC9089	657	18.1	9.00	4.69	23.17	3.57	319	1.21	232	69	10.43	31.1	3.43	1.30	98.2	8.11
SBAC112	46	52	6 m Composite	SC9090	650	21.2	10.46	4.28	26.16	4.07	308	1.40	233	70	15.95	35.3	3.88	1.47	117.2	8.47
SBAC112	52	58	6 m Composite	SC9091	703	20.6	10.73	4.39	25.01	3.73	338	1.25	251	75	15.64	34.3	3.73	1.47	117.6	8.90
SBAC112	58	60	2 m Composite	SC9092	682	20.2	10.94	3.99	25.36	3.79	328	1.41	243	72	14.26	32.9	3.55	1.44	116.2	8.63
SBAC113	0	6	6 m Composite	SC9093	480	17.6	10.19	2.98	19.08	3.53	229	1.30	167	49	11.66	24.1	2.94	1.46	105.9	8.13
SBAC113	6	12	6 m Composite	SC9094	724	22.0	12.18	3.67	27.32	4.40	364	1.52	245	77	12.12	34.1	3.87	1.64	132.1	9.92
SBAC113	12	18	6 m Composite	SC9095	687	20.8	11.27	3.44	23.97	3.88	345	1.48	226	69	12.42	31.1	3.55	1.46	125.9	9.01
SBAC113	18	24	6 m Composite	SC9096	823	23.3	13.04	3.79	26.63	4.42	420	1.64	266	85	9.97	35.5	4.16	1.75	140.3	11.17
SBAC113	24	30	6 m Composite	SC9097	872	26.4	14.24	3.54	31.12	5.18	442	1.90	290	90	15.34	41.6	4.76	2.02	160.0	11.50
SBAC113	30	36	6 m Composite	SC9098	1695	49.1	24.70	4.11	57.51	8.87	853	2.97	538	172	25.31	75.0	8.75	3.24	261.6	20.27
SBAC113	36	42	6 m Composite	SC9099	811	22.0	11.84	3.49	25.36	4.08	408	1.48	258	82	9.05	35.0	3.79	1.71	127.6	9.39
SBAC113	42	48	6 m Composite	SC9100	736	22.7	11.95	3.53	25.59	4.34	362	1.50	240	75	10.89	33.9	3.81	1.58	131.4	9.58
SBAC113	48	54	6 m Composite	SC9101	667	21.5	11.66	3.35	24.90	4.12	330	1.49	218	69	13.50	30.2	3.68	1.68	130.2	9.50
SBAC113	54	60	6 m Composite	SC9102	644	18.8	9.64	3.14	21.67	3.44	321	1.23	211	65	9.97	30.0	3.23	1.23	106.4	7.47
SBAC114	0	7	7 m Composite	SC9103	720	23.0	11.89	3.55	26.74	4.19	365	1.47	254	77	10.89	36.4	4.18	1.56	135.2	10.04
SBAC114	8	14	6 m Composite	SC9104	828	26.6	14.35	3.74	31.00	4.79	396	1.73	290	87	11.20	40.8	4.73	1.83	149.2	10.68
SBAC114	14	20	6 m Composite	SC9105	786	25.4	13.04	3.79	30.77	4.86	373	1.68	281	83	12.88	40.0	4.49	1.80	147.3	9.84
SBAC114	20	26	6 m Composite	SC9106	780	24.9	13.21	3.53	29.85	4.55	374	1.73	269	81	12.88	36.4	4.28	1.77	141.0	10.15
SBAC114	26	32	6 m Composite	SC9107	768	23.9	12.06	3.61	28.01	4.36	371	1.39	266	83	12.58	38.3	4.29	1.58	130.8	10.01
SBAC114	32	38	6 m Composite	SC9108	770	24.0	12.18	3.90	28.58	4.49	373	1.59	264	80	13.65	38.7	4.10	1.74	137.2	9.69

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SBAC114	38	44	6 m Composite	SC9109	779	26.3	13.38	3.90	32.16	5.33	372	1.69	276	83	13.19	40.1	4.63	1.90	147.9	10.65
SBAC114	44	50	6 m Composite	SC9110	703	22.6	12.64	3.09	27.09	4.51	346	1.68	238	75	8.13	34.8	4.18	1.62	132.1	9.23
SBAC114	50	56	6 m Composite	SC9111	740	23.6	12.46	3.53	28.01	4.25	358	1.50	261	78	9.20	38.0	4.30	1.71	128.9	9.88
SBAC114	56	60	4 m Composite	SC9112	1339	42.8	21.44	3.72	52.33	7.64	632	2.37	477	143	21.01	66.2	7.63	2.65	220.3	16.17
SBAC115	0	6	6 m Composite	SC9113	396	15.7	8.27	1.74	17.81	2.91	205	1.08	133	40	4.14	24.9	2.80	1.19	93.3	7.47
SBAC115	6	12	6 m Composite	SC9114	712	25.3	13.49	3.39	28.70	4.59	355	1.68	241	72	11.50	39.2	4.62	1.86	144.8	11.25
SBAC115	12	18	6 m Composite	SC9115	789	26.2	14.87	3.84	31.12	5.36	385	1.73	257	78	12.12	41.8	4.94	2.01	158.1	12.87
SBAC115	18	24	6 m Composite	SC9116	803	30.4	15.78	4.40	33.31	5.83	391	2.02	272	82	11.96	44.5	5.41	2.26	174.0	13.55
SBAC115	24	30	6 m Composite	SC9117	824	30.3	16.87	4.32	35.85	5.60	395	2.14	278	82	11.66	47.8	5.59	2.24	170.8	13.27
SBAC115	30	36	6 m Composite	SC9118	751	30.0	15.55	4.05	33.19	5.62	361	1.96	255	76	11.66	45.3	5.38	2.08	167.6	13.21
SBAC115	36	42	6 m Composite	SC9119	760	28.1	15.09	4.15	32.16	5.58	371	2.00	261	76	12.58	43.4	5.19	2.03	164.5	12.81
SBAC115	42	47	5 m Composite	SC9120	821	28.6	15.32	4.09	32.85	5.38	402	1.93	274	82	8.74	45.2	5.32	2.15	169.5	13.27
SBAC115	48	54	6 m Composite	SC9121	808	29.0	14.81	4.05	33.54	5.45	399	1.80	275	81	15.34	45.3	5.40	2.15	167.6	13.72
SBAC115	54	60	6 m Composite	SC9122	762	27.7	15.04	4.10	32.16	5.20	373	1.75	261	77	11.35	44.8	4.98	2.01	157.5	12.35
SBAC116	0	6	6 m Composite	SC9123	553	22.2	12.29	4.20	26.05	4.25	311	1.57	213	62	17.03	35.5	4.07	1.77	126.5	11.16
SBAC116	6	12	6 m Composite	SC9124	571	22.1	11.66	4.11	25.93	4.35	284	1.77	204	59	12.12	32.9	3.94	1.70	125.6	11.02
SBAC116	12	18	6 m Composite	SC9125	990	36.0	19.84	3.94	42.76	6.88	482	2.83	341	98	21.93	54.4	6.57	2.88	201.9	16.91
SBAC116	18	24	6 m Composite	SC9126	787	31.3	16.29	4.28	34.69	6.00	394	2.16	271	79	21.93	47.4	5.52	2.27	167.6	14.01
SBAC116	24	30	6 m Composite	SC9127	873	33.2	17.95	5.06	37.92	6.14	425	2.50	308	88	20.40	50.3	6.06	2.49	181.0	15.60
SBAC116	30	36	6 m Composite	SC9128	737	29.0	15.21	4.93	32.73	5.33	364	2.06	267	74	17.95	42.0	5.05	2.22	160.0	13.89
SBAC116	36	42	6 m Composite	SC9129	786	28.4	16.24	4.81	32.96	5.72	385	1.93	267	79	18.87	44.0	5.30	2.11	159.4	13.27
SBAC116	42	48	6 m Composite	SC9130	768	27.7	14.87	4.74	33.08	5.09	372	2.05	261	76	15.95	43.4	5.12	1.92	147.9	13.55
SBAC116	48	54	6 m Composite	SC9131	813	29.3	15.55	4.68	34.58	5.60	402	2.21	276	82	18.87	44.9	5.32	2.10	165.7	14.80
SBAC116	54	60	6 m Composite	SC9132	771	27.8	15.04	4.54	31.35	5.37	375	2.00	259	76	13.65	43.1	4.88	2.12	154.9	13.55
SBAC117	0	6	6 m Composite	SC9133	549	17.5	8.98	3.03	20.40	3.32	264	1.15	176	52	10.58	29.5	3.18	1.26	94.5	8.30
SBAC117	6	12	6 m Composite	SC9134	597	19.8	9.74	3.99	22.76	3.43	312	1.42	208	62	9.82	32.8	3.46	1.29	104.0	8.52
SBAC117	12	18	6 m Composite	SC9135	593	19.5	9.63	3.90	24.90	3.59	303	1.32	211	61	10.89	35.6	3.62	1.36	107.2	8.49
SBAC117	18	24	6 m Composite	SC9136	645	18.5	9.29	4.08	22.30	3.51	335	1.18	208	62	10.12	34.2	3.45	1.26	105.7	8.02
SBAC117	24	27	3 m Composite	SC9137	646	22.2	11.66	3.99	26.74	4.04	321	1.46	227	67	12.12	34.1	4.21	1.59	121.8	10.23
SBAC117	28	34	6 m Composite	SC9138	651	21.6	11.95	4.04	26.63	4.14	323	1.55	219	65	15.03	36.9	4.06	1.45	119.0	9.62

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SBAC117	34	40	6 m Composite	SC9139	883	24.0	12.46	4.35	30.43	4.44	437	1.36	290	87	13.96	42.4	4.55	1.58	132.1	11.13
SBAC117	40	46	6 m Composite	SC9140	684	22.0	11.61	4.56	26.16	3.96	338	1.34	230	67	11.50	35.0	4.05	1.62	118.5	9.76
SBAC117	46	52	6 m Composite	SC9141	870	27.0	14.18	4.30	33.43	5.25	432	1.81	296	87	17.79	47.5	5.26	1.92	151.1	12.41
SBAC117	52	58	6 m Composite	SC9142	794	34.6	18.87	4.46	39.88	6.58	376	2.44	296	84	22.85	52.2	6.27	2.49	197.5	15.49
SBAC117	58	60	2 m Composite	SC9143	767	38.6	22.58	3.06	40.46	7.43	362	3.06	273	78	15.80	49.8	6.79	3.20	233.7	21.64
SBAC118	0	6	6 m Composite	SC9144	543	17.0	9.90	3.50	20.80	3.56	290	1.28	185	57	10.89	29.0	3.52	1.39	105.2	8.77
SBAC118	6	12	6 m Composite	SC9145	475	17.9	9.74	3.46	20.00	3.29	239	1.32	162	48	11.81	27.3	3.33	1.27	104.5	8.31
SBAC118	12	18	6 m Composite	SC9146	502	17.5	9.56	4.33	20.29	3.46	250	1.17	171	51	14.42	28.3	3.25	1.28	102.7	9.04
SBAC118	18	24	6 m Composite	SC9147	574	18.8	9.47	4.35	22.36	3.44	289	1.32	193	58	13.96	30.4	3.46	1.39	105.8	8.75
SBAC118	24	30	6 m Composite	SC9148	650	19.6	11.02	4.70	25.82	3.80	307	1.46	226	65	13.65	32.8	3.73	1.64	116.1	9.50
SBAC118	30	36	6 m Composite	SC9149	521	17.8	9.43	4.82	22.42	3.53	240	1.41	185	54	11.96	28.4	3.20	1.37	105.4	8.39
SBAC118	36	42	6 m Composite	SC9150	528	18.7	10.53	4.41	23.40	3.86	245	1.47	190	55	13.34	30.0	3.46	1.55	115.7	8.46
SBAC118	42	48	6 m Composite	SC9151	532	17.5	9.94	4.33	21.32	3.38	255	1.23	183	54	11.35	27.0	3.31	1.46	103.6	8.31
SBAC118	48	54	6 m Composite	SC9152	570	18.0	9.69	4.41	22.19	3.45	271	1.43	190	58	13.96	28.0	3.48	1.39	105.7	8.43
SBAC118	54	60	6 m Composite	SC9153	462	16.5	10.23	4.19	19.82	3.26	215	1.26	163	47	12.88	27.3	3.01	1.38	105.2	8.72
SBAC119	0	7	7 m Composite	SC9154	633	16.2	8.64	3.46	20.86	3.12	331	1.19	202	63	6.29	28.9	2.82	1.31	91.4	7.73
SBAC119	8	14	6 m Composite	SC9155	629	17.7	10.25	3.50	22.65	3.64	306	1.39	204	62	10.12	30.0	3.25	1.44	106.5	8.19
SBAC119	14	20	6 m Composite	SC9156	742	21.1	11.44	3.98	25.01	4.09	357	1.50	240	73	11.50	36.2	3.93	1.74	121.4	9.80
SBAC119	20	26	6 m Composite	SC9157	694	18.9	10.82	4.23	24.32	4.02	337	1.47	226	69	9.51	35.5	3.68	1.58	114.7	9.76
SBAC119	26	32	6 m Composite	SC9158	699	23.0	12.35	4.48	28.24	4.54	332	1.77	241	70	13.19	35.8	4.38	1.80	137.8	11.03
SBAC119	32	38	6 m Composite	SC9159	635	19.6	11.00	3.49	23.86	4.17	304	1.46	211	63	12.42	32.8	3.74	1.51	119.6	9.19
SBAC119	38	44	6 m Composite	SC9160	677	19.4	11.11	3.71	24.67	3.88	333	1.36	216	66	11.35	32.7	3.55	1.62	116.5	9.21
SBAC119	44	50	6 m Composite	SC9161	658	19.1	9.82	4.02	23.40	3.77	314	1.32	218	65	9.05	32.9	3.63	1.46	112.0	8.62
SBAC119	50	56	6 m Composite	SC9162	743	24.0	13.66	3.91	29.39	4.51	348	1.48	254	74	12.42	39.1	4.32	1.83	142.2	11.50
SBAC119	56	60	4 m Composite	SC9163	710	20.2	11.23	3.97	25.93	4.03	341	1.46	230	69	11.35	35.3	3.89	1.62	121.8	9.46
SBAC120	0	6	6 m Composite	SC9164	467	19.3	10.38	5.25	23.97	3.88	232	1.46	193	53	12.12	31.2	3.41	1.63	115.8	8.95
SBAC120	6	12	6 m Composite	SC9165	499	20.3	11.27	4.62	24.67	4.03	236	1.43	183	53	12.27	30.2	3.54	1.62	122.9	9.41
SBAC120	12	18	6 m Composite	SC9166	493	19.2	10.28	5.31	24.32	3.47	226	1.38	187	53	9.82	29.2	3.65	1.32	106.5	9.54
SBAC120	18	24	6 m Composite	SC9167	461	18.0	9.43	5.41	22.25	3.52	212	1.38	177	49	13.50	28.9	3.23	1.39	105.2	9.35
SBAC120	24	30	6 m Composite	SC9168	571	21.1	10.99	5.66	26.74	4.09	263	1.54	209	59	16.57	32.4	3.82	1.60	123.3	9.94

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC120	30	36	6 m Composite	SC9169	120	475	19.2	4.37	10.99	23.17	3.84	213	1.48	177	49	11.35	31.0	3.74	1.55	115.8
SBAC120	36	42	6 m Composite	SC9170	120	477	16.1	2.65	9.08	18.56	2.96	229	1.36	159	46	8.13	25.2	2.95	1.32	96.1
SBAC120	42	47	5 m Composite	SC9171	120	721	30.5	6.21	17.9	36.19	6.24	331	2.39	267	74	18.1	42.6	5.66	2.66	186.0
SBAC120	48	54	6 m Composite	SC9172	120	768	33.1	6.44	19.5	37.46	6.55	348	2.58	281	80	19.94	47.3	5.86	2.8	210.2
SBAC120	54	60	6 m Composite	SC9173	120	703	28.9	4.74	17.55	31.58	5.93	330	2.46	253	72	13.5	40.4	4.87	2.56	180.3
SBRC121	0	6	6 m Composite	SC9174	121	712	26.7	3.97	14.12	31.93	5.19	332	2.02	250	74	9.97	41.1	4.80	2.08	147.3
SBRC121	6	12	6 m Composite	SC9175	121	818	27.4	3.87	14.52	34.12	5.29	385	1.86	280	83	12.42	43.8	5.25	2.07	153.7
SBRC121	12	18	6 m Composite	SC9176	121	808	26.6	4.1	15.21	33.89	5.2	375	1.65	275	82	9.66	43.6	5.08	2.01	151.1
SBRC121	18	24	6 m Composite	SC9177	121	817	27.0	3.61	14.64	33.31	5.21	381	1.75	274	81	11.35	43.5	4.98	2.08	156.8
SBRC121	24	30	6 m Composite	SC9178	121	758	26.1	3.9	14.07	31.47	4.89	351	1.75	258	76	11.2	40.6	4.68	1.94	146.7
SBRC121	30	36	6 m Composite	SC9179	121	587	21.5	3.52	11.61	26.74	4.22	290	1.41	221	62	13.04	31.7	4.03	1.48	122.0
SBRC121	36	42	6 m Composite	SC9180	121	846	29.5	5.34	15.49	38.04	5.76	416	2.08	302	91	15.18	47.7	5.35	2.15	169.5
SBRC121	42	48	6 m Composite	SC9181	121	703	25.5	4.05	12.98	29.74	4.71	348	1.52	260	75	11.04	39.4	4.48	1.86	134.0
SBRC121	48	54	6 m Composite	SC9182	121	695	22.4	3.84	12.24	29.85	4.74	342	1.65	253	75	12.88	37.3	4.50	1.78	132.1
SBRC121	54	60	6 m Composite	SC9183	121	819	29.0	4.76	14.47	35.73	5.5	402	1.96	294	88	16.26	43.5	5.16	2.07	159.4
SBRC121	60	66	6 m Composite	SC9184	121	699	23.8	4.19	11.89	28.12	4.67	341	1.72	250	75	13.5	35.4	4.18	1.75	130.8
SBRC121	66	72	6 m Composite	SC9185	121	743	24.9	4.31	14.47	30.89	5.26	365	1.73	257	77	9.66	40.5	5.01	2.03	147.3
SBRC121	72	78	6 m Composite	SC9186	121	748	26.3	4.04	14.24	32.62	5.44	366	1.91	260	80	11.81	42.2	4.76	1.67	149.9
SBRC121	78	84	6 m Composite	SC9187	121	746	23.6	4.09	13.21	31	4.89	368	1.58	258	77	9.05	38.3	4.40	1.8	136.5
SBRC121	84	87	3 m Composite	SC9188	121	736	24.8	4.2	14.18	29.74	4.72	384	1.77	254	82	11.35	36.0	4.59	1.83	141.6
SBRC121	88	94	6 m Composite	SC9189	121	753	25.1	4.31	13.84	32.96	5.14	373	1.55	268	80	10.74	41.5	4.76	1.74	140.3
SBRC121	94	100	6 m Composite	SC9190	121	751	25.9	4.75	14.12	33.54	5.43	367	1.82	262	79	13.8	40.4	5.08	1.93	145.4
SBRC121	100	106	6 m Composite	SC9191	121	775	24.6	4.33	13.78	32.39	5.14	378	1.73	267	82	10.12	41.8	4.88	2.14	142.2
SBRC121	106	112	6 m Composite	SC9192	121	1082	34.4	5.04	18.81	47.6	6.96	521	2.25	385	116	14.72	62.9	6.80	2.64	192.4
SBRC121	112	118	6 m Composite	SC9193	121	907	30.3	4.43	16.52	37	6.03	441	1.91	317	94	13.34	48.1	5.33	2.07	161.9
SBRC121	118	120	2 m Composite	SC9194	121	855	27.7	4.43	14.12	33.77	5.42	414	1.71	290	89	13.65	42.0	5.00	2.03	147.3
SBRC122	0	6	6 m Composite	SC9195	122	568	19.6	4.46	10.76	24.2	3.97	297	1.34	211	61	12.42	31.1	3.59	1.58	114.0
SBRC122	6	12	6 m Composite	SC9196	122	607	21.5	3.98	12.06	26.63	4.12	301	1.57	216	64	13.96	35.5	3.74	1.58	121.2
SBRC122	12	18	6 m Composite	SC9197	122	577	21.4	4.81	11.72	26.16	4.39	287	1.25	208	62	15.18	33.4	3.79	1.62	124.7
SBRC122	18	24	6 m Composite	SC9198	122	577	21.8	4.46	11.61	26.28	4.26	280	1.63	204	61	15.03	33.3	3.83	1.52	126.4

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBRC122	24	30	6 m Composite	SC9199	122	633	20.7	4.37	12.29	26.86	4.58	313	1.44	219	68	8.13	36.5	3.99	1.58	127.0
SBRC122	30	36	6 m Composite	SC9200	122	565	19.9	4.55	11.66	25.36	4.22	276	1.58	197	60	11.2	31.5	3.47	1.53	118.9
SBRC122	36	42	6 m Composite	SC9201	122	606	21.5	4.49	11.84	26.51	4.26	293	1.28	209	64	15.95	33.1	4.26	1.48	123.3
SBRC122	42	48	6 m Composite	SC9202	122	579	20.5	4.43	13.15	24.67	4.11	285	1.71	203	62	10.74	31.5	3.75	1.55	121.4
SBRC122	48	54	6 m Composite	SC9203	122	665	22.4	4.33	12.29	25.82	4.48	332	1.8	231	71	13.65	33.5	3.98	1.62	130.2
SBRC122	54	60	6 m Composite	SC9204	122	682	23.4	4.9	12.75	27.78	4.47	337	1.71	241	72	12.58	37.1	4.35	1.74	134.6
SBRC122	60	67	7 m Composite	SC9205	122	506	19.1	3.89	11.44	23.51	3.79	249	1.39	175	52	9.66	29.7	3.40	1.32	112.9
SBRC122	68	74	6 m Composite	SC9206	122	647	22.8	4.48	12.98	26.86	4.42	318	1.65	227	69	11.5	36.6	4.16	1.8	134.6
SBRC122	74	80	6 m Composite	SC9207	122	642	21.2	4.39	11.84	27.2	4.06	321	1.61	219	69	11.66	35.0	3.59	1.71	121.2
SBRC122	80	86	6 m Composite	SC9208	122	684	18.9	4.04	9.71	23.74	3.71	351	1.23	220	70	9.2	32.1	3.20	1.31	102.2
SBRC122	86	92	6 m Composite	SC9209	122	571	17.5	4.03	9.73	20.57	3.39	281	1.27	195	60	8.13	27.8	3.20	1.32	99.2
SBRC122	92	98	6 m Composite	SC9210	122	641	18.8	4.59	10.06	22.71	3.84	320	1.43	222	68	9.05	34.2	3.35	1.45	107.2
SBRC122	98	104	6 m Composite	SC9211	122	701	21.0	4.42	11.16	27.43	4.31	342	1.55	246	73	11.2	36.1	3.74	1.54	115.7
SBRC122	104	110	6 m Composite	SC9212	122	565	18.0	4.61	9.55	23.05	3.84	278	1.23	204	61	11.35	31.7	3.27	1.3	103.1
SBRC122	110	116	6 m Composite	SC9213	122	622	18.0	4.54	10.77	25.24	3.92	305	1.27	216	66	11.66	33.5	3.87	1.51	111.5
SBRC122	116	120	4 m Composite	SC9214	122	658	21.0	4.42	11.72	25.59	4.09	326	1.32	226	70	11.2	36.5	3.81	1.55	116.5
SBAC123	0	6	6 m Composite	SC9215	123	526	18.7	3.68	10.51	23.28	3.97	258	1.55	193	57	9.82	30.7	3.34	1.51	104.3
SBAC123	6	12	6 m Composite	SC9216	123	597	23.4	4.27	13.32	28.01	4.5	293	1.84	226	67	13.5	35.3	4.20	1.88	134.0
SBAC123	12	18	6 m Composite	SC9217	123	662	24.1	4.92	13.66	30.2	5.09	333	2.12	245	74	11.96	39.3	4.50	2.04	137.2
SBAC123	18	24	6 m Composite	SC9218	123	668	26.1	4.97	14.41	30.66	5.21	321	1.96	247	71	14.26	38.7	4.55	2.1	148.6
SBAC123	24	30	6 m Composite	SC9219	123	609	26.4	4.83	12.92	29.62	4.85	298	1.81	243	69	14.42	38.9	3.98	1.99	141.0
SBAC123	30	36	6 m Composite	SC9220	123	601	31.1	5.55	16.07	34.69	5.88	291	2.39	237	69	13.96	42.0	4.88	2.33	160.6
SBAC123	36	42	6 m Composite	SC9221	123	802	31.1	4.93	16.7	34.46	5.81	406	2.19	289	88	17.18	48.1	4.61	2.32	163.8
SBAC123	42	47	5 m Composite	SC9222	123	717	29.8	4.5	15.55	33.66	5.6	355	2.07	261	78	16.26	40.8	4.42	2.26	165.1
SBAC123	48	54	6 m Composite	SC9223	123	753	29.4	4.67	15.84	34.46	5.88	372	2.15	286	82	16.72	45.7	4.81	2.14	164.5
SBAC123	54	60	6 m Composite	SC9224	123	710	28.5	4.65	15.32	34.23	5.43	352	2.22	266	79	15.34	44.2	4.59	2.3	158.7
SBAC124	0	6	6 m Composite	SC9225	124	281	14.0	3.17	7.68	14.41	2.62	150	1.08	106	32	8.13	18.2	2.05	1.13	80.0
SBAC124	6	12	6 m Composite	SC9226	124	472	17.7	4.53	8.94	21.61	3.31	242	1.38	173	52	12.42	28.5	2.55	1.3	96.1
SBAC124	12	18	6 m Composite	SC9227	124	468	17.7	4.24	9.51	20.57	3.45	236	1.21	170	52	11.81	27.7	2.60	1.26	97.4
SBAC124	18	24	6 m Composite	SC9228	124	425	17.0	3.95	9.11	20.06	3.33	213	1.24	160	47	10.28	25.4	2.75	1.4	101.6

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC124	24	30	6 m Composite	SC9229	124	486	18.7	4.53	10.59	22.13	3.75	246	1.64	175	53	14.11	28.1	2.91	1.47	111.1
SBAC124	30	36	6 m Composite	SC9230	124	475	17.3	5.14	8.91	21.67	3.3	239	1.09	172	51	14.72	27.3	2.93	1.46	99.6
SBAC124	36	42	6 m Composite	SC9231	124	582	23.1	4.2	11.84	25.13	4.24	298	1.49	204	62	11.04	35.3	3.32	1.51	120.0
SBAC124	42	48	6 m Composite	SC9232	124	518	19.6	4.39	9.74	23.28	3.92	259	1.56	190	57	13.04	30.7	3.29	1.52	117.1
SBAC124	48	54	6 m Composite	SC9233	124	491	19.3	3.95	10.61	21.55	3.56	249	1.56	174	53	14.72	29.7	3.11	1.44	107.9
SBAC124	54	60	6 m Composite	SC9234	124	586	19.9	4.35	10.85	23.63	3.72	311	1.46	189	60	9.66	31.4	3.15	1.51	115.3
SBAC125	0	6	6 m Composite	SC9235	125	490	17.5	3.72	9.77	21.38	3.37	249	1.17	178	54	9.82	27.5	2.89	1.24	98.5
SBAC125	6	12	6 m Composite	SC9236	125	644	23.1	4.43	11.84	26.51	4.15	321	1.52	225	70	10.28	36.6	3.69	1.53	124.6
SBAC125	12	18	6 m Composite	SC9237	125	615	23.4	4.24	12.12	26.51	4.18	304	1.5	223	67	11.96	34.6	3.63	1.62	122.0
SBAC125	18	24	6 m Composite	SC9238	125	628	21.9	4.48	11.55	26.74	4.5	314	1.55	229	69	13.65	37.9	3.60	1.64	122.8
SBAC125	24	27	3 m Composite	SC9239	125	644	23.9	4.55	11.89	26.74	4.54	317	1.63	234	69	12.73	37.5	3.67	1.55	127.6
SBAC125	28	34	6 m Composite	SC9240	125	633	21.9	4.7	11	25.47	4.12	319	1.57	224	67	12.58	36.3	3.53	1.67	115.7
SBAC125	34	40	6 m Composite	SC9241	125	851	33.2	4.16	16.41	39.3	6.15	408	2.04	310	95	18.71	51.3	5.32	2.08	172.7
SBAC125	40	46	6 m Composite	SC9242	125	655	22.5	4.11	10.63	26.86	4.46	325	1.39	240	72	12.88	38.5	3.58	1.67	121.8
SBAC125	46	52	6 m Composite	SC9243	125	657	24.3	4.81	12.69	28.82	4.65	326	1.48	237	73	10.89	37.6	3.71	1.66	129.5
SBAC125	52	58	6 m Composite	SC9244	125	606	21.4	4.76	11.61	26.86	4.31	298	1.33	220	66	13.65	35.6	3.67	1.51	120.5
SBAC125	58	60	2 m Composite	SC9245	125	679	22.8	4.06	10.87	27.89	3.85	342	1.46	247	75	14.11	41.2	3.25	1.59	118.6
SBAC126	0	6	6 m Composite	SC9246	126	814	28.2	3.37	13.04	31.58	4.83	423	1.76	289	89	10.43	45.8	4.35	1.87	149.9
SBAC126	6	12	6 m Composite	SC9247	126	822	27.2	3.88	14.47	31.58	5.01	413	2.06	275	85	8.74	44.2	4.47	2.03	152.4
SBAC126	12	18	6 m Composite	SC9248	126	816	29.2	3.71	14.87	33.43	5.75	399	1.86	278	87	11.2	45.2	4.67	1.96	161.9
SBAC126	18	24	6 m Composite	SC9249	126	798	28.9	4.1	14.69	33.43	5.35	401	1.84	286	87	9.82	45.0	4.52	1.99	156.2
SBAC126	24	30	6 m Composite	SC9250	126	780	27.2	3.66	13.15	31.47	5.21	392	2.12	273	84	9.66	46.0	4.40	2.01	145.4
SBAC126	30	36	6 m Composite	SC9251	126	455	17.1	4.01	9.67	20.17	3.63	230	1.49	155	47	10.58	26.1	2.66	1.42	99.8
SBAC126	36	42	6 m Composite	SC9252	126	440	19.6	3.89	11.21	22.07	3.94	215	1.64	162	49	10.43	29.0	2.93	1.48	116.8
SBAC126	42	48	6 m Composite	SC9253	126	470	17.5	3.84	10.03	20.69	3.49	235	1.48	167	51	10.12	27.4	2.78	1.37	104.3
SBAC126	48	54	6 m Composite	SC9254	126	413	18.5	4.42	11.06	21.09	3.93	212	1.43	152	46	10.12	25.1	3.33	1.55	117.0
SBAC126	54	60	6 m Composite	SC9255	126	364	14.4	3.6	9.31	18.33	3.1	188	1.11	131	42	9.82	22.1	2.72	1.37	99.4
SBAC127	0	7	7 m Composite	SC9256	127	513	28.6	5.4	15.95	33.54	5.67	258	2.32	211	62	20.86	39.3	5.09	2.12	167.0
SBAC127	8	14	6 m Composite	SC9257	127	459	19.6	5.66	10.55	25.47	4.01	232	1.34	184	55	11.96	31.3	3.66	1.55	108.3
SBAC127	14	20	6 m Composite	SC9258	127	520	22.5	5.77	13.26	28.47	4.86	257	1.75	207	60	15.64	35.1	4.42	1.75	137.2

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Hole ID	From	To	Sample Type	Sample No	CeO <sub>2</sub> ppm	Dy <sub>2</sub> O <sub>3</sub> ppm	Er <sub>2</sub> O <sub>3</sub> ppm	Eu <sub>2</sub> O <sub>3</sub> ppm	Gd <sub>2</sub> O <sub>3</sub> ppm	Ho <sub>2</sub> O <sub>3</sub> ppm	La <sub>2</sub> O <sub>3</sub> ppm	Lu <sub>2</sub> O <sub>3</sub> ppm	Nd <sub>2</sub> O <sub>3</sub> ppm	Pr <sub>6</sub> O <sub>11</sub> ppm	Sc <sub>2</sub> O <sub>3</sub> ppm	Sm <sub>2</sub> O <sub>3</sub> ppm	Tb <sub>4</sub> O <sub>7</sub> ppm	Tm <sub>2</sub> O <sub>3</sub> ppm	Y <sub>2</sub> O <sub>3</sub> ppm	Yb <sub>2</sub> O <sub>3</sub> ppm
SBAC127	20	26	6 m Composite	SC9259	127	590	25.1	5.67	15.38	32.27	5.41	298	2.12	232	70	16.26	38.6	4.93	2	151.8
SBAC127	26	32	6 m Composite	SC9260	127	607	25.0	5.4	14.52	30.43	5.2	306	1.79	226	70	14.42	35.4	4.80	2.15	151.1
SBAC127	32	38	6 m Composite	SC9261	127	641	23.2	4.57	12.86	28.24	4.58	338	1.55	223	70	14.11	36.5	4.46	2.01	144.8
SBAC127	38	44	6 m Composite	SC9262	127	528	22.6	5.52	12.35	28.58	4.67	266	1.73	208	61	16.1	34.1	4.09	1.84	136.5
SBAC127	44	50	6 m Composite	SC9263	127	505	21.9	5.91	12.52	28.12	4.57	253	1.69	195	60	19.94	32.9	4.32	1.85	137.2
SBAC127	50	56	6 m Composite	SC9264	127	477	21.4	4.92	12.01	26.28	4.22	238	1.68	180	54	13.19	31.9	4.29	1.62	127.6
SBAC127	56	60	4 m Composite	SC9265	127	473	18.8	6.03	11.23	24.78	4.12	236	1.59	178	53	12.73	31.8	3.61	1.63	116.7

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