ARK MINES LTD.

ASX ANNOUNCEMENT
29 May 2024

Robust Maiden Indicated Mineral Resource Estimate (MRE) at Sandy Mitchell Rare Earth and Heavy Mineral Project

HIGHLIGHTS

- Indicated Mineral Resource Estimate (MRE) of 21.7Mt @ 1,419ppm Monazite Equivalent calculated using a 700ppm MzEq lower cut-off grade (see Appendix A for Resource Report).
- Places Sandy Mitchell as the first surface-expressed Placer Rare Earth deposit with a JORC Resource on the ASX.
- Reported MzEq grades are expected to support strong project economics through simple low-cost downstream processing, with reference to current market prices for monazite concentrate[1].
- The resource includes a basket of high value Heavy Minerals, comprised of the following:
  - ✓ *Monazite @ 674ppm*
  - ✓ *Zircon @ 699ppm*
  - ✓ *Rutile @ 622ppm*
  - ✓ *Xenotime @89ppm*
  - ✓ *Ilmenite @ 11,365ppm*
- High magnetic REO (Nd, Pr, Dy, Tb) element proportion of 24% of the TREO basket, positioning Sandy Mitchell as one of Australia's most enriched MREO deposits.
- MRE developed from only 1.2% of the available anomaly area at Sandy Mitchell, with 100.7 km^2 available for further exploration (see Figures 2 and 3). Real and substantial potential for Mineral Resource expansion.
- The mineralisation is from surface to around 12m, amenable to low-cost open pit mining methods.
- First pass un-optimised beneficiation test work of the Sandy Mitchell Rare Earth sands has produced a high-grade rare earth concentrate.
- The beneficiation test work has shown the greatest upgrade is by simple gravity separation, confirming the material is amenable to straightforward beneficiation by gravity processing:
  - ✓ The final concentrate assays returned 51.9% TREO, and contained mostly La, Ce, Pr and Nd, plus Heavy Rare Earths Dy and Tb, which collectively represents a very high-value saleable product.
  - ✓ Direct cerium oxide (CeO_2) recovery from gravity feed to REM concentrate is estimated to be 71.7%, with indications that >83% may be achievable.
  - ✓ 49% of the feed mass is rejected by screening.

	Indicated Resource	Monazite Equivalent	Monazite	Xenotime	Zircon	Rutile	Ilmenite	TREO+Y+Sc	TREO	LREO	HREO	MREO	CREO
Grade ppm		1,419.1	674.4	89.1	699.4	622.2	11,365.1	494.5	435.1	420.6	14.5	105.2	87.5
Tonnes	21,686,232	30,775	14,626	1,932	15,168	13,493	246,465	10,724	9,436	9,121	315	2,282	1,897

Table 1: **Reported oxide resource for Sandy Mitchell at a 700ppm MzEq lower cut off** (After HGS 2024, see Appendix A).

Executive Director Ben Emery said:

"This maiden MRE has significantly exceeded our expectations. We have consistency in grade from surface to basement for a basket of high value minerals including combined Heavy Mineral grades of 13,450ppm. The commercialisation pathway for Sandy Mitchell is now more clearly defined, given the fact it is the simplest REE style of deposit to mine and beneficiate. Importantly , the MzEq grades of 1,419ppm are also indicative of potential commercial scale based on current market prices for monazite concentrate."

[1] https://price.metal.com/mobile/RE/spot

"In addition, the MRE was achieved from a target drilling area which accounts for just 1.2% of the available anomaly area at Sandy Mitchell, providing plenty of scope for additional exploration upside. We are also pleased to have the resource in an Indicated category, which bodes well for our upcoming pre-feasibility study and the Mineral licence application. We are looking forward to taking receipt of our Stage 2 drilling results, with final assays due imminently, which will be incorporated into an updated MRE ahead of a planned pre-feasibility study in the second half of 2024."

Ark Mines Limited (ASX: AHK) is pleased to announce the maiden Indicated Mineral Resource Estimate (MRE) for the Sandy Mitchell REE deposit in North Queensland. The Indicated MRE incorporates results from Ark's initial Stage 1 drilling program completed in 2023. Stage 2 drilling, covering twice the area of Stage 1, is yet to be resourced and will be added to this maiden resource in the coming months.

The MRE was carried by independent consultants HGS Australia in accordance with the 2012 JORC Code using variographically informed ordinary kriging coupled with an ID^2 validation model (see Appendix A). The Mineral Resource Estimate (MRE) is wholly categorised as Indicated and totals 21.7Mt at 1,419 ppm monazite equivalent (MzEq) using a lower cut-off grade of 700ppm. Top-cuts were applied on specific elements to control statistical outliers (see Appendix A for top-cut statistics).

In addition to the high value economic commodities modelled, the MRE included estimates for Arsenic (As) and Sulphur (S) for environmental considerations. The modelling shows these to be at very low levels; S (dominantly as sulphate in this oxide zone orebody) was modelled at 147ppm and As, a common contaminant in monazite, was modelled at 8ppm.

Table 2*: Reported oxide zone resource for Sandy Mitchell at a 700ppm MzEq lower cut off in the form reported by HGS Australia* *(see Appendix A).*

MzEq Cut-off	Tonnes	Creo	Hreo	Ilmenite	Lreo	Magreo	Monazite	Mzeq	Rutile	Treo	Treo+Y+Sc	Xenotime	Zircon
700ppm	21,686,232	87.5	14.5	11,365	420.6	105.2	674.4	1,419.1	622.2	435.1	494.5	89.1	699.4

MzEq Cut-off	Tonnes	Sc	Tb	Dy	Ho	Er	Tm	Yb	Lu	Th	U	Zr	Y
700ppm	21,686,232	15.94	1.12	4.96	0.94	2.55	0.38	2.34	0.36	33.07	2.03	340.61	27.49

MzEq Cut-off	Tonnes	Hf	Nb	As	Ti	S	La	Ce	Pr	Nd	Sm	Eu	Gd
700ppm	21,686,232	9.91	16.43	8.17	3959	147.21	79.28	167.3	18.26	65.3	11.63	1.4	7.62

The maiden MRE leaves Ark Mines well positioned to execute on its stated development strategy for Sandy Mitchell, with low-cost mining of rare earths and heavy minerals combined with low-cost downstream processing through simple gravity separation.

The grades observed in the MRE build off previous drilling results, which were used for metallurgical testing by independent processing firm, Mineral Technologies. First-pass water-based beneficiation test work on air core samples returned final concentrate assays of 51.9% TREO (519,000ppm) (refer ASX Announcement 24 November 2023).

The assays contained mostly La, Ce, Pr and Nd, plus Heavy Rare Earths Dy and Tb, which collectively represents a very high value saleable product when incorporated into a basket of minerals as part of a monazite concentrate.

Metallurgical analysis subsequently commissioned by consulting firm Harrier Project Management concluded that based on the beneficiation test work by Mineral Technologies, rare earth mineral concentrate (REMC) from Sandy Mitchell will almost certainly be suitable for existing sulphuric acid baking refiners -- the most widely used and understood process for treating refractory concentrates.

Results from the Company's Stage 2 drilling program will be incorporated into an updated MRE in the coming months. The updated MRE will form part of Ark's forthcoming pre-feasibility study for the Sandy Mitchell project, which is scheduled to be completed before the end of the 2024 calendar year.

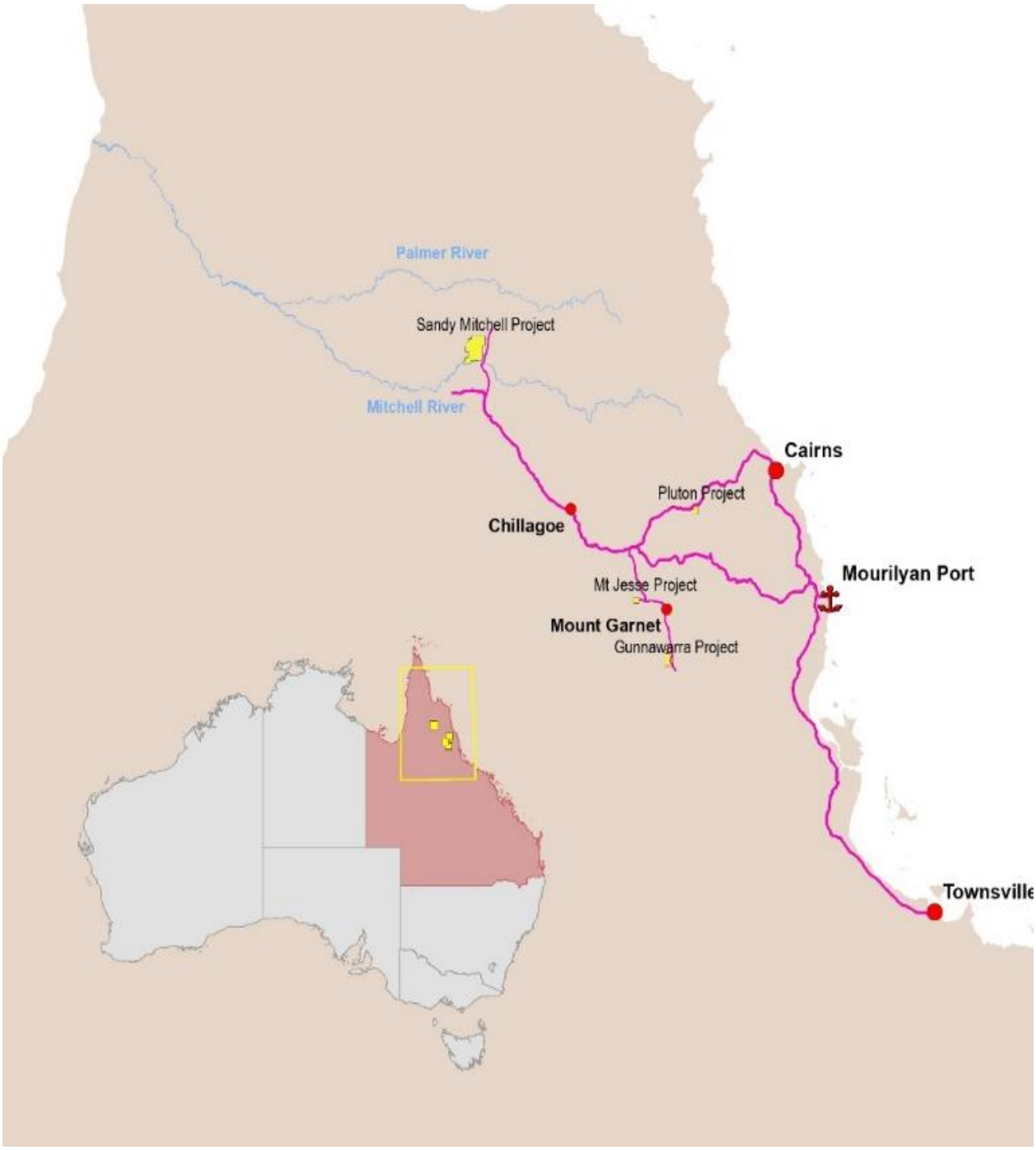

Figure 1: *Sandy Mitchell Rare Earth and Heavy Mineral Project location.*

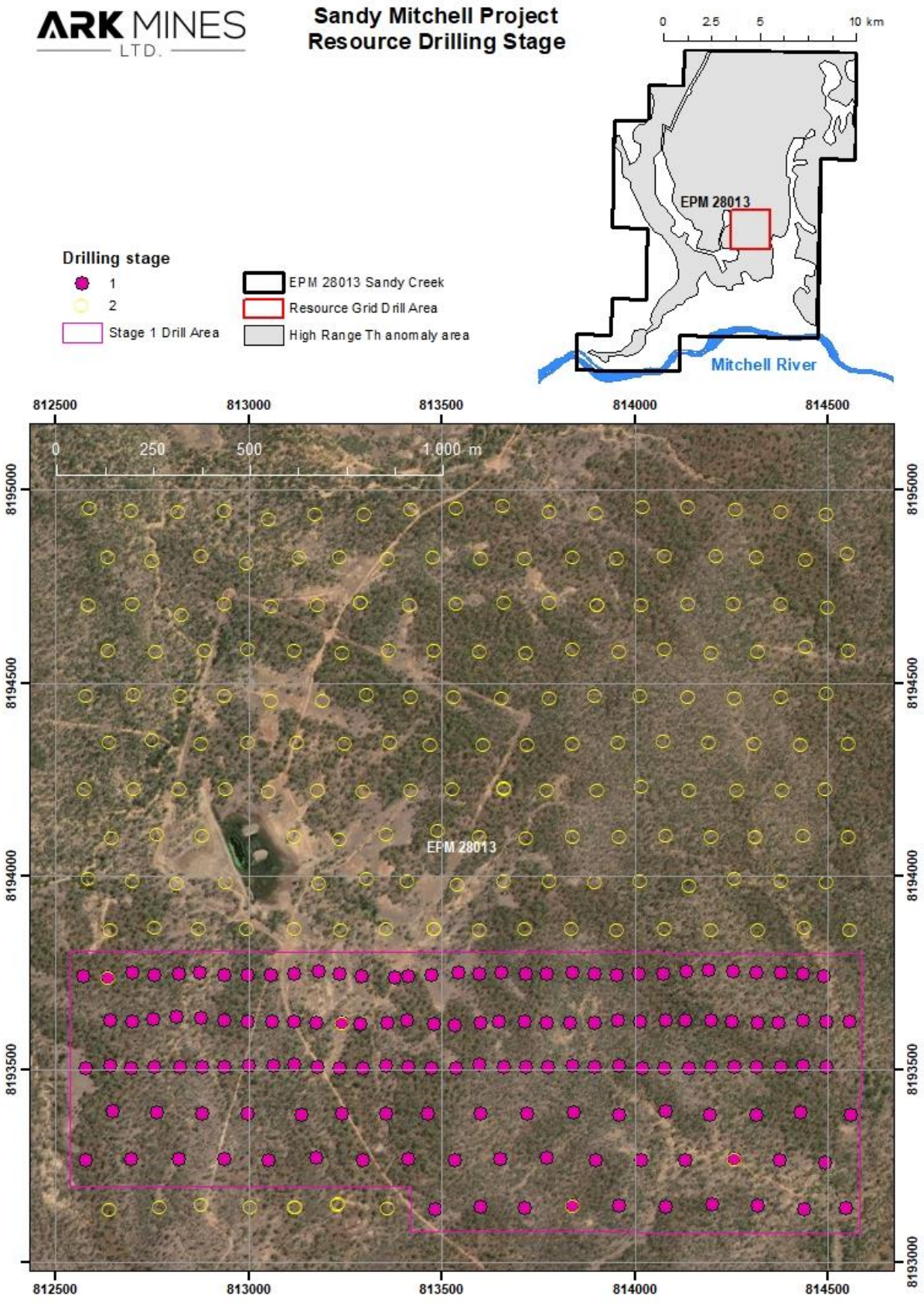

***Figure 2**: Sandy Mitchell resource area showing stage 1 (pink) and stage 2 (yellow) drill collars against a 500m grid.*

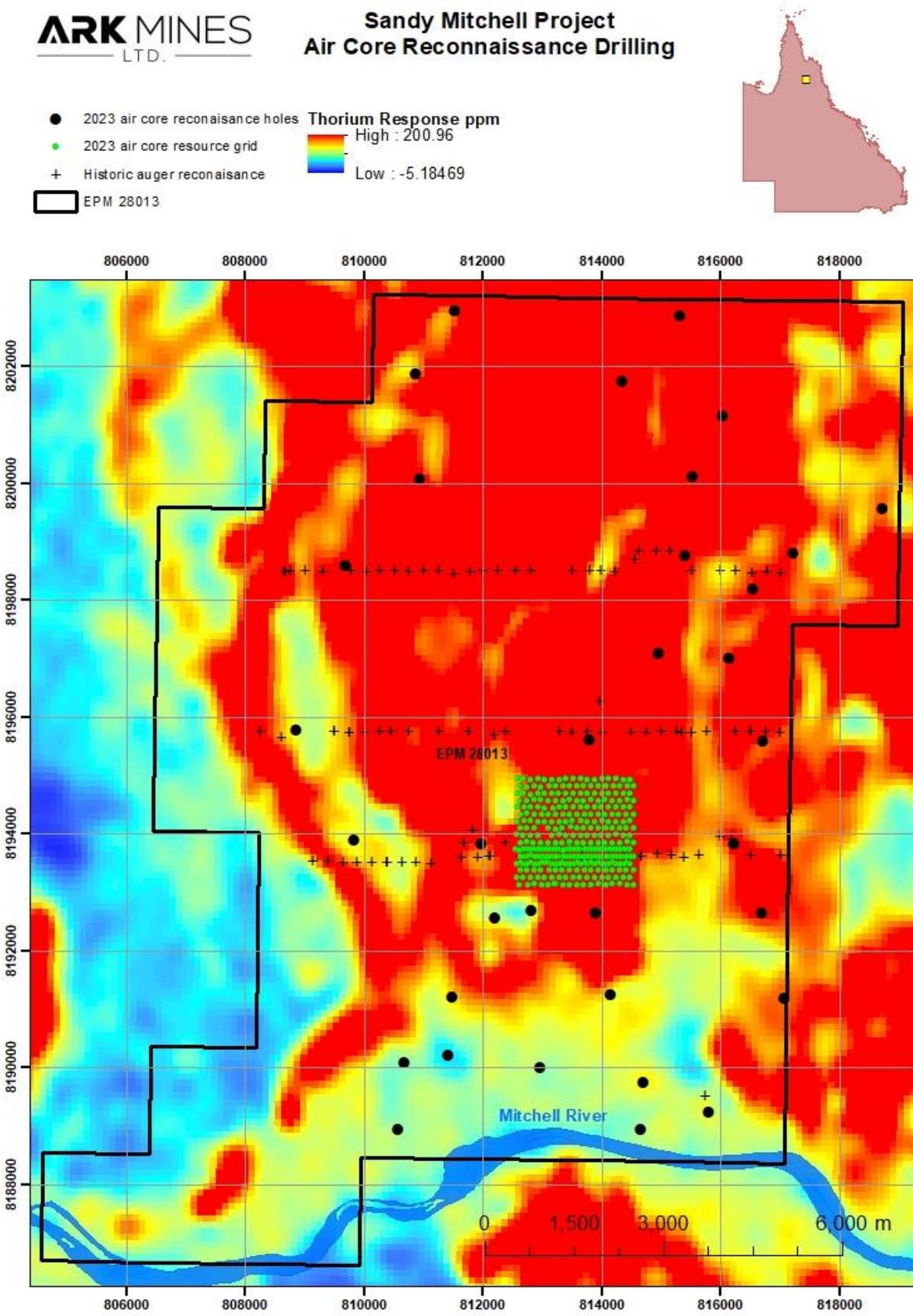

***Figure 3**: Sandy Mitchell 2023 air core reconnaissance and resource drilling against the thorium radiometric response data. Historic auger reconnaissance is also shown. The high range radiometric thorium band anomaly, associated with REE mineralisation, covers an area of 100.7km within the tenement. The stage 1 resource is approximately 1.2% of the anomaly area.*

ASX ANNOUNCEMENT
29 May 2024

AUTHORITY FOR RELEASE

This announcement has been approved for release to the ASX by the Board of Ark Mines Ltd.

Roger Jackson
Executive Chairman
29 May 2024

FURTHER INFORMATION

For further information please contact:

Roger Jackson
Executive Chairman
info@arkmines.com.au

Ben Emery
Executive Director
info@arkmines.com.au

Or visit our website and social media:
www.arkmines.com | www.twitter.com/arkmineslimited

ABOUT ARK MINES LIMITED

Ark Mines is an ASX listed Australian mineral exploration company focused on developing its 100% owned projects located in the prolific Mt Garnet and Greenvale mineral fields of Northern Queensland. The Company's exploration portfolio consists of three four quality projects that are prospective for copper, iron ore, nickel-cobalt porphyry gold and rare earth elements.

Sandy Mitchell Rare Earth and heavy Mineral Project

- Ark has recently Acquired the 147km2 EPM 28013 'Sandy Mitchell' – an advanced Rare Earths Project in North Queensland with additional 138km2 of sub blocks under application
- Project contains all critical Light Rare Earths as well as Heavy Rare Earths including dysprosium (Dy), terbium (Tb), holmium (Ho), erbium (Er), thulium (Tm) ytterbium (Yb), yttrium (Y) and excluding only Lutetium
- Up to 25% of the TREO is Nd and Pr (magnet metals)
- Rare Earths at 'Sandy Mitchell' are amenable to panning a concentrate; Planned low-cost, fast start up, straightforward beneficiation by gravity processing

Mt Jesse Copper-Iron project

- Project covers a tenure area of 12.4km2 located ~25km west of Mt Garnet
- Centered on a copper rich magnetite skarn associated with porphyry style mineralization
- Three exposed historic iron formations
- Potential for near term production via toll treat and potential to direct ship

Gunnawarra Nickel-Cobalt Project

- Comprised of 11 sub-blocks covering 36km2
- Borders Australian Mines Limited Sconi project - the most advanced Cobalt-Nickel-Scandium project in Australia
- Potential synergies with local processing facilities with export DSO Nickel/Cobalt partnership options

Pluton Porphyry Gold Project

- Located ~90km SW of Cairns near Mareeba, QLD covering 18km2
- Prospective for gold and associated base metals (Ag, Cu, Mo)
- Porphyry outcrop discovered during initial field inspection coincides with regional scale geophysical interpretation.

MINERAL RESOURCE STATEMENT

The resource estimates are classified in accordance with the Australasian Code for Reporting of Identified Mineral Resources and Ore Reserves (JORC, 2012). The Resource estimate was completed by Andrew Hawker of HGS Australia. Mr Hawker has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken 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'. Mr Hawker consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. The resource is classified as Indicated. The classification was considered appropriate based on drill hole spacing, sample intervals, geological interpretation and representativeness of all available assay and density data. The classification reflects the low confidence in short range grade estimations in the model.

COMPETENT PERSONS STATEMENT

The Information in this report that relates to exploration results, mineral resources or ore reserves is based on information compiled by Mr Roger Jackson, who is a Fellow of the Australian Institute of Mining and Metallurgy and a Fellow of the Australasian Institute of Geoscientists. Mr Jackson is a shareholder and director of the Company. Mr Jackson has sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration and to the activity that he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the `Australian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves '(the JORC Code). Mr Jackson consents to the inclusion of this information in the form and context in which it appears in this report. Mr Jackson confirms information in this market announcement is an accurate representation of the available data for the exploration areas being acquired.

FORWARD LOOKING STATEMENTS AND IMPORTANT NOTICE

This report contains forecasts, projections and forward-looking information. Although the Company believes that its expectations, estimates and forecast outcomes are based on reasonable assumptions it can give no assurance that these will be achieved. Expectations and estimates and projections and information provided by the Company are not a guarantee of future performance and involve unknown risks and uncertainties, many of which are out of Ark Mines 'control.

Actual results and developments will almost certainly differ materially from those expressed or implied. Ark Mines has not audited or investigated the accuracy or completeness of the information, statements and opinions contained in this announcement. To the maximum extent permitted by applicable laws, Ark Mines makes no representation and can give no assurance, guarantee or warranty, express or implied, as to, and takes no responsibility and assumes no liability for the authenticity, validity, accuracy, suitability or completeness of, or any errors in or omission from, any information, statement or opinion contained in this report and without prejudice, to the generality of the foregoing, the achievement or accuracy of any forecasts, projections or other forward looking information contained or referred to in this report. Investors should make and rely upon their own enquiries before deciding to acquire or deal in the Company's securities.

Appendix A: Sandy Mitchell Resource Evaluation Report

SANDY MITCHELL REE PROJECT

Resource Evaluation Report

For Ark Mines Ltd

May 2024

Andrew Hawker (*BSc. Geol MAusIMM MAIG MSEG AWASM)*
Principal Geologist
HGS Australia

Version 1 – DRAFT

EXECUTIVE SUMMARY

At the request of Ark Mines Ltd (Ark), HGS Australia (HGS) conducted a resource of the Sandy Mitchell REE Project located in northern Queensland.

The project is located 230 km north-west of Cairns and 200 km north north-west of Chillagoe in Far North Queensland

HGS created a database from spreadsheets of collars, surveys, geology and assay data provided by Ark. A high quality QAQC sampling protocol and report was conducted by Arc and validated b HGS.

The mineral resource estimate is based on a number of factors and assumptions:

- The data was supplied by Ark in excel files.
- Validation work was conducted and the database is considered valid.
- Mineralised outlines were interpreted by HGS within the coordinates:
    - 8193000 N to 8193900 N,
    - 812400 E to 814700 E and
    - 140RL to 176RL.
- The interpretation was used in compositing the sample data.
- Sample data was composited over 1m intervals and all 24 elements were extracted for interpolation.
- A surface topography profile was created by HGS using drill hole collars.
- The mineralisation is flat and exposes the surface to a depth of approximately 11m.
- Geological block models were constructed by HGS using Surpac. The main model cell sizes are 50m North, 25m East and 2m RL, with sub-celling to a minimum of 12.5 North, 6.25m East and 0.5m RL.
- Bulk density data was significant and sufficient to interpolate into the model.
- Ordinary Kriging interpolation method was used for the evaluation of each of the 24 elements. Inverse distance squared interpolations were conducted for validation purposes.
- High-grade cutting was conducted on outlier assays for some of the elements.
- The resource is classified as **indicated** due to data density, structural definition and geostatistical evaluations.

Three block models were created in Surpac (version 6.6.2 x64) due to limitations on the number of attributes that could be entered into the model. The models are identical with the only change due to interpolation process as follows:

- "**sandy_mitchell_model_OK_may24.mdl**". Uses Ordinary Kriging (OK) interpolation on the upper-cut datasets. This is the main reportable model.
- **"sandy_mitchell_model_id2_may24.mdl".** Uses Inverse Distance squared (ID2) interpolation on the upper-cut datasets. This is used for validation purposes to compare complex and simple algorithms.
- "**sandy_mitchell_model_OKcut_may24.mdl".** Uses Ordinary Kriging (OKcut) interpolation on the uncut datasets. This is used for validation purposes to compare complex and simple algorithms.

The monazite equivalent (MzEq) value is considered the appropriate combination for reporting due to the potential to process the ore as a concentrate for shipment, therefore providing a more representative grade.

The Sandy Mitchell Mineral Resource is reported at a 700ppm MzEq lower cut-off grade. HGS considers the grade cut-off within expected mining cut-off grades. The supporting reported numbers are within the MzEq cut-off as follows:

MzEq Cut-off	Tonnes	Creo	Hreo	Ilmenite	Lreo	Magreo	Monazite	Mzeq	Rutile	Treo	Treo+Y+Sc	Xenotime	Zircon
700ppm	21,686,232	87.5	14.5	11,365	420.6	105.2	674.4	1,419.1	622.2	435.1	494.5	89.1	699.4

MzEq Cut-off	Tonnes	Sc	Tb	Dy	Ho	Er	Tm	Yb	Lu	Th	U	Zr	Y
700ppm	21,686,232	15.94	1.12	4.96	0.94	2.55	0.38	2.34	0.36	33.07	2.03	340.61	27.49

MzEq Cut-off	Tonnes	Hf	Nb	As	Ti	S	La	Ce	Pr	Nd	Sm	Eu	Gd
700ppm	21,686,232	9.91	16.43	8.17	3959	147.21	79.28	167.3	18.26	65.3	11.63	1.4	7.62

Contents

1.0 INTRODUCTION

HGS Australia (HGS) at the request of Ark Mines Ltd (Ark) conducted a 2012 JORC compliantresource evaluation on the Sandy Mitchell Rare Earth Metals Project in northern Queensland.

The Sandy Mitchel project area was selected as a target based on the Sandy Creek drainage system which empties into the Mitchell River. The creek drains a large area of Mesoproterozoic metasediments of the Yambo Inlier which has been intruded by lower Palaeozoic granitoids. These rock units have been shown historically to contain heavy minerals and REEs within them and within their weathered profiles.

The major minerals containing rare earths are monazite and xenotime which are recovered from beach sand and mineral sand deposits. Early exploration in the Sandy Mitchell area was for heavy minerals (Laskan Minerals Pty Ltd, 1970). Subsequent exploration (O'Toole, 1982; Barron, 1990) concentrated on the heavy mineral content of all the creeks and streams draining the Inlier. The most recent exploration programmes were carried out by BHP Billiton in a wider ranging exercise for nickel, copper and PGE, (Crosato, 2007).

The data supplied by Ark was extensive with wireframe interpretations of the mineralisation, QAQC reporting and spreadsheet data containing collar, survey, assay, geology and downhole density results. Multiple reporting and stoichiometric factors for oxide and element ratios of minerals.

For this exercise HGS used the wireframe interpretation , following visual validations, and concentrated on the geostatistical analyses, element interpolations, and block calculations of minerals and element groups.

The objective of this study is to produce a resource estimation of the elements that define REE as well as deleterious and other compound forming elements. The final outcome was in determining the monzonite equivalent (MzEq) as the mineable product will be sold as a concentrate.

The grid system used was GDA 94 zone 55.

2.0 DISCLAIMER

HGS does not hold responsibility for the quality of the database or geological controls on the interpretation. The database was provided to HGS in a professional manner with all relevant information including QAQC data and report. HGS will accept responsibility for the validated interpretation, wireframing, block model and final interpolated results.

JORC Compliance Statement:
The information in this report that relates to Exploration Targets, Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr Andrew James Hawker, a Competent Person who is a Member of The Australasian Institute of Mining and Metallurgy (210569), andthe Australian Institute of Geoscientists (5343). Mr Hawker is the Principal Geologist employed by HGS Australia.

Mr Hawker has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken 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'. Mr Hawker consents to the inclusion in the reportof the matters based on his information in the form and context in which it appears.

3.0 LOCATION

Sandy Mitchell is located 230 km north-west of Cairns and 200 km north north-west of Chillagoe in Far North Queensland.

Access to the tenement is via Dimbulah to Chillagoe, then along the Burke Developmental Road to the Mount Mulgrave turnoff, proceeding north to that property. Access to the tenement is then via station tracks and cleared fence lines to the west of the station. The road distance from Mareeba is approximately 250 kilometres.

Access is not available during the wet season.

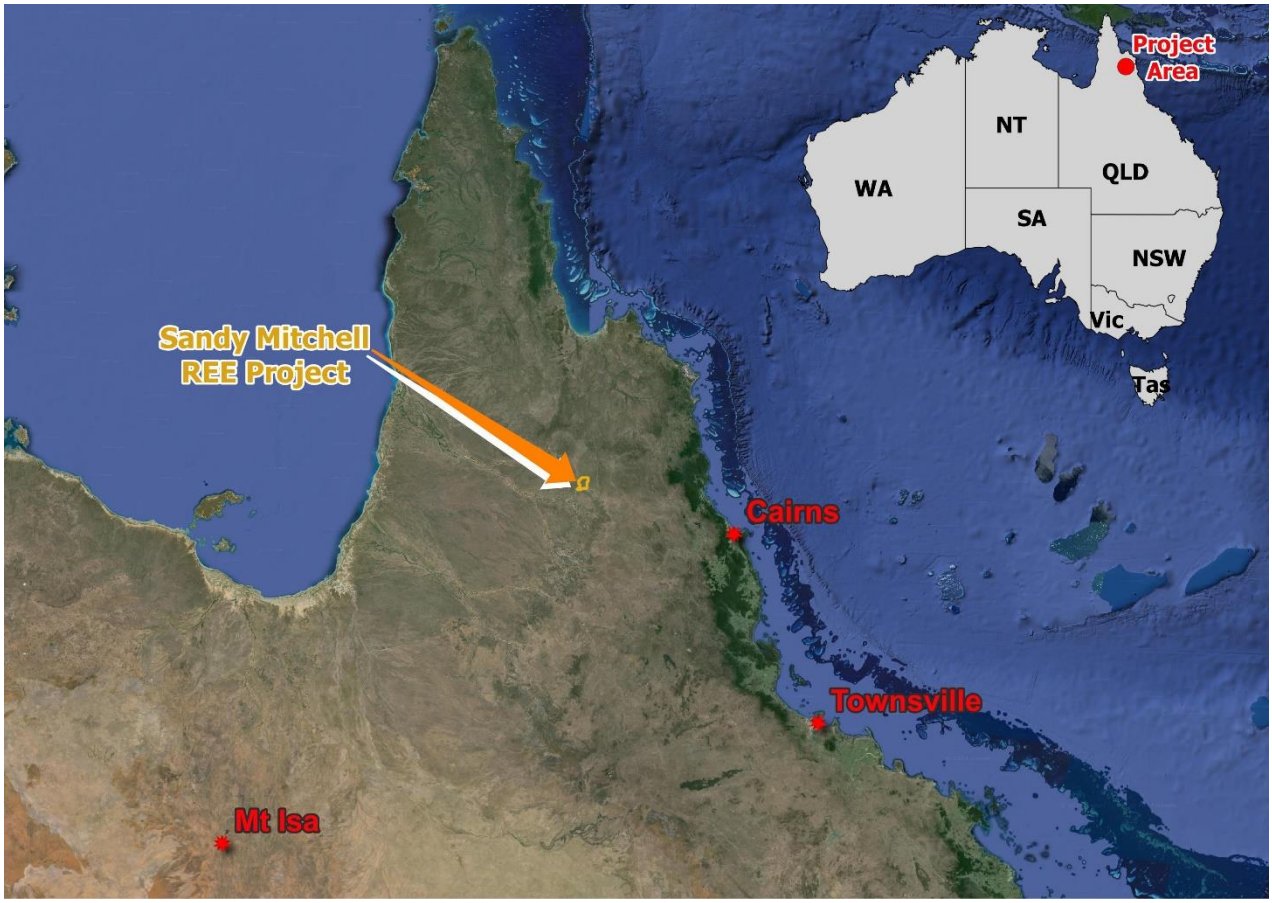

Figure 4: *Sandy Mitchel location plan.*

4.0 GEOLOGY and MINERALISATION

The tenement covers portion of the southern extent of the Yambo Inlier, one of the several Proterozoic inliers to the west of the Palmerville Fault System.

Rocks of the Yambo Inlier covered by the tenement comprise those of the middle Proterozoic Yambo Metamorphic Group of mainly amphibolites and gneisses ranging in age from ~1690 Ma to ~1585Ma. These rocks have been intruded by Silurian-Devonian granites of the Lukinville Suite which form an integral part of the Cape York Batholith. Within the tenement they form a belt roughly 10 km wide trending NNW.

Governmental radiometric surveys (Bain, 1997) highlighted areas of anomalous radiometric emission within the Yambo Inlier, (Figure 2). The project tenements originally covered the majority of the anomalous radiometric areas, but have been reduced with systematic sampling programmes, consolidation, and reduction in the face of rising administration charges.

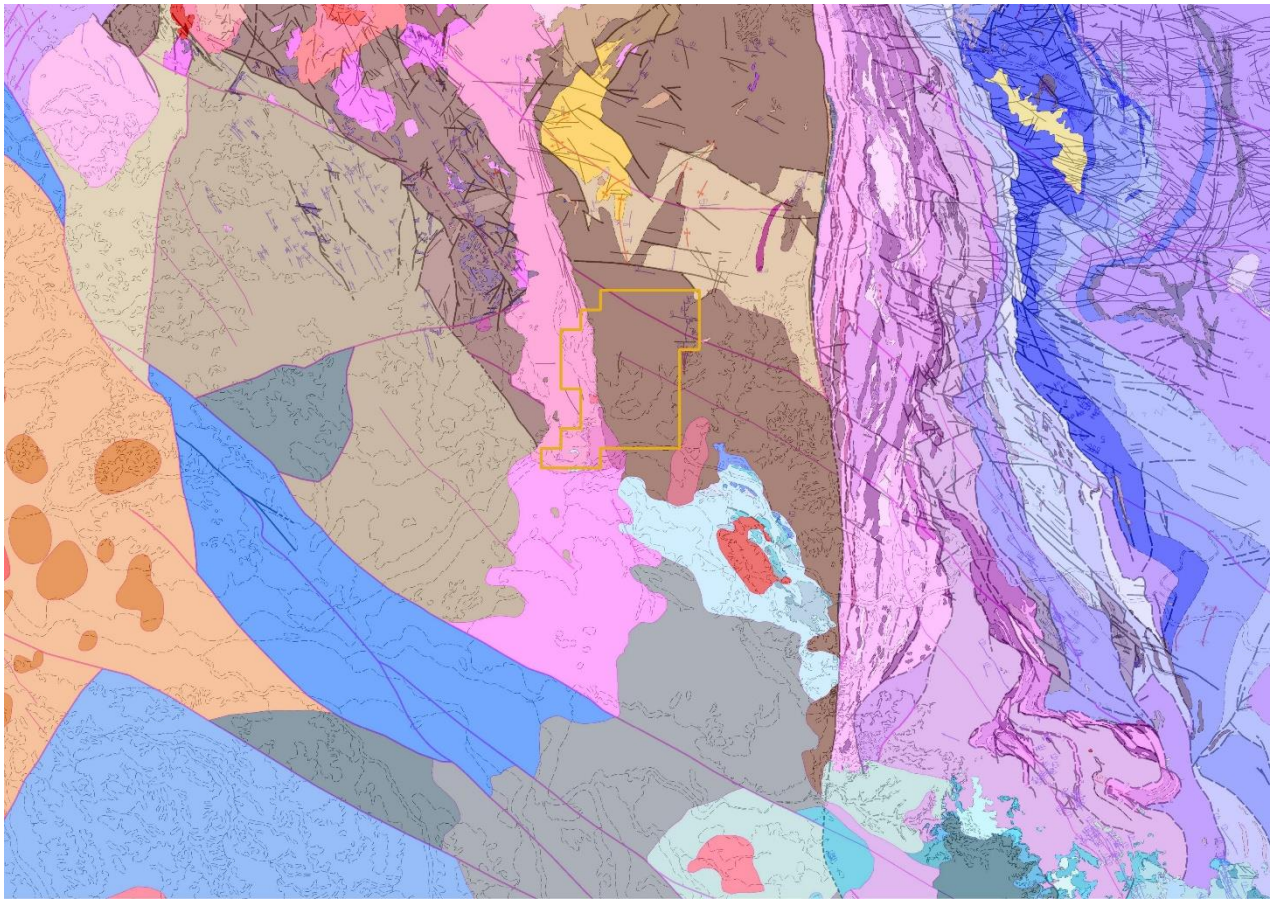

Figure 5: *Interpreted 100k Geology*

Prospecting and exploration by various companies from the 1980's onwards and more recent follow-up prospecting have shown that many stream systems within the Mulgrave tenements contain concentrations of rare earth minerals. These minerals have been derived from the now denuded remnant Jurassic-Cretaceous sandstone-pebble conglomerates and quartz sandstones, with the greater volumes being associated with the breakdown of the Mesoproterozoic basement rocks.

Isolated areas of high garnet concentrations are derived from irregular zones of highly garnetiferous dolerites and schists.

4.0 DATABASE

The database was created by HGS using Surpac data importer into an Access Database. The data was provide to HGS as csv files containing collars, downhole surveys, assays, geology and downhole density data.

A full comprehensive QAQC report as well as spreadsheet data was provided to HGS to review for this resource evaluation. The data QAQC analysis and report was by Daemon de Chaeney and is provided in full in Appendix 4.

A summary of the report is as follows: In June 2023 Ark Mines completed the first stage of a grid drilling programme to inform a maiden resource on the Sandy Mitchell REE Project. The Stage 1 air core drill programme, sampling unconsolidated residual in-situ sands, drilled 1488.3 m on 144 collars with an average depth of 10.5m.

The quality assurance measures applied to drilling and sampling were excellent with the procedural deficits identified and corrected on site.

The quality control measures applied to sample and assay were best practice and the resultant QC data affords comprehensive analysis of the assay set. The minor anomalies identifiable in the QC data are of small enough magnitude that they are not material.

The QAQC shows the assay data to be of good quality and fit for the purpose of estimating a JORC 2012 resource mode with good confidence.

4.1 Drilling Techniques Sampling Techniques

Drilling was carried out with a Comacchio track mounted air core rig using a 100 mm air core bit
sampled at 1m intervals bar the final interval, which may be less than 1m, depending on the refusal depth at the bedrock intersection.

This yields an ideal sample volume of 0.008 m³ per metre which at the mean dry loose bulk density of 1.52 yields ideal sample of 11.94 kg/m.

4.2 Sampling Techniques

Sample was passed through a cyclone and retained by a manual gate to minimise fines loss, with the gate opened at the end of each sampling interval to pass into a collection bucket. The collection bucket was distributed across the riffles of a truck mounted 87.5/12.5 riffle splitter derive a 1.5 kg representative sample caught in a pre-numbered calico sample bag, and a 10.4 kg reject caught in a green bag and retained for pan concentrate production and for further metallurgical testing.
The splitter was cleaned after each metre. The cyclone was cleaned by air blast after each metre, and by opening and air hosing after each hole.

4.3 Logging and Assaying

Samples were logged by the metre on site by EES and EES provided senior geologist oversite of drilling and sampling. At the end of the programme, drill collar coordinates were picked up by Twine Surveys using RTK GPS equipment with 20mm accuracy; considered best practice.

4.4 QAQC

control measure are the use of control samples and statistical analysis of assay results to ensure suitability and reliability of the assay results for their end purpose. In this case to yield assay to inform a JORC 2012 compliant resource model, estimation and report.

The QC procedures put in place were:

- A single pair of twin holes (further twins were drilled in the later stage 2 programme).
- Field duplicates at 1 in 40.
- Laboratory repeats at 1 in 8.
- Standards at 1 in 16.
- Blank flush of the LM-5 after each grind, with blanks assayed at 1 in 40.
- Grind size testing at 1 in 34.

4.5 Assaying Method

Sample was driven to the Chillagoe each night and locked up in the Ark Mines undercover laydown, where it was stored in pumpkin crates. At the end of the programme, the pumpkin crates were wrapped in plastic and transported to North Australian Laboratories (NAL) in Pine Creek, Northern Territory for assay. NAL is an Austest facility.

The sample was submitted for:

- Sodium peroxide fusion in nickel crucibles for ICP-MS assay of Sc, Y, La, Ce, Pr, Nd, Sm, Eu, Gd,
- Tb, Dy, Ho, Er, Tm, Yb, Lu, Th, U, Zr, Hf, Nb, Ta, Sr, Pb and As.
- Sodium peroxide fusion in nickel crucibles for ICP-OES assay of Al, Ca, Cr, Fe, Mg, P, S, Si and Ti.
- Four acid digest for ICP-OES assay of Na and K.
- Gravimetric moisture measurement at a rate of 1 in 5 samples.
- Gravimetric dry loose bulk density at a rate of 1 in 3 samples.

The elements of economic interest are Sc, Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Zr, Hf, Ti ± Nb, defining the minerals monazite, xenotime, zircon, rutile and ilmenite.

The assay techniques applied are considered suitable for the elements of interest and are considered to be total digest methods.

Samples were prepared by weighing, kiln drying, re-weighing, pulverisation in LM-5 to 94% passing 75 µm, followed by two aliquots taken by laboratory splitter for fusion and four acid digest.

5.0 TENEMENT

Ark Mines Sandy Mitchell REE project is located within a single tenement, EPM28013, under ownership of Aurum Vale Pty Ltd (Figure 3): EPM28013 has an area of 169km², was granted on 22/08/2022 and expiry date of 21/08/2027.

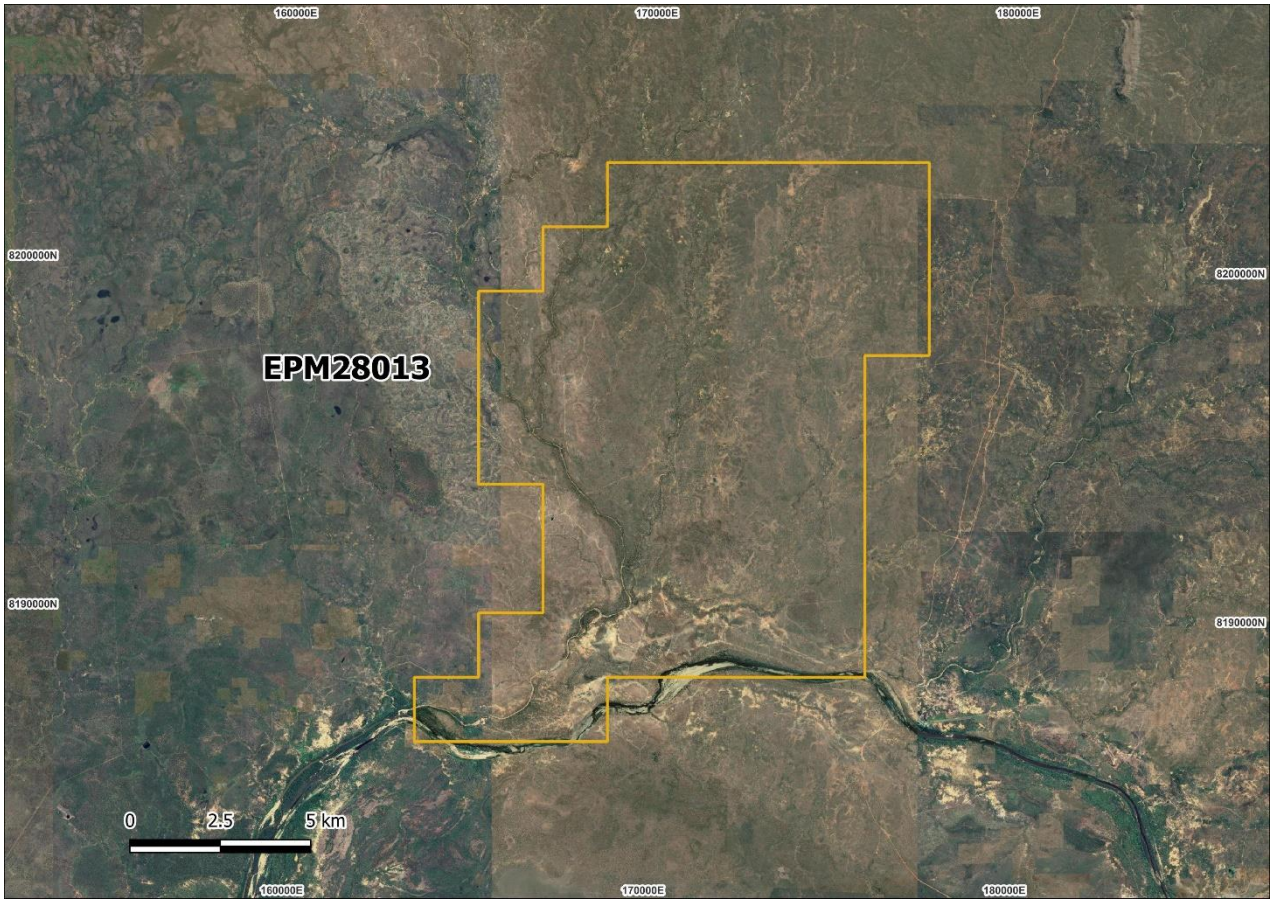

Figure 6: *EPM28013 over satellite imagery.*

7.0 INTERPRETATION, COMPOSITING & STATISTICS

Interpretations were conducted by Ark and validated by HGS for drill hole snapping and geological controls.

The mineralisation is flat lying from surface down to approximately 11m. The mineralisation appears to be split into 2 separated by a probably cross dyke (Figure 4).

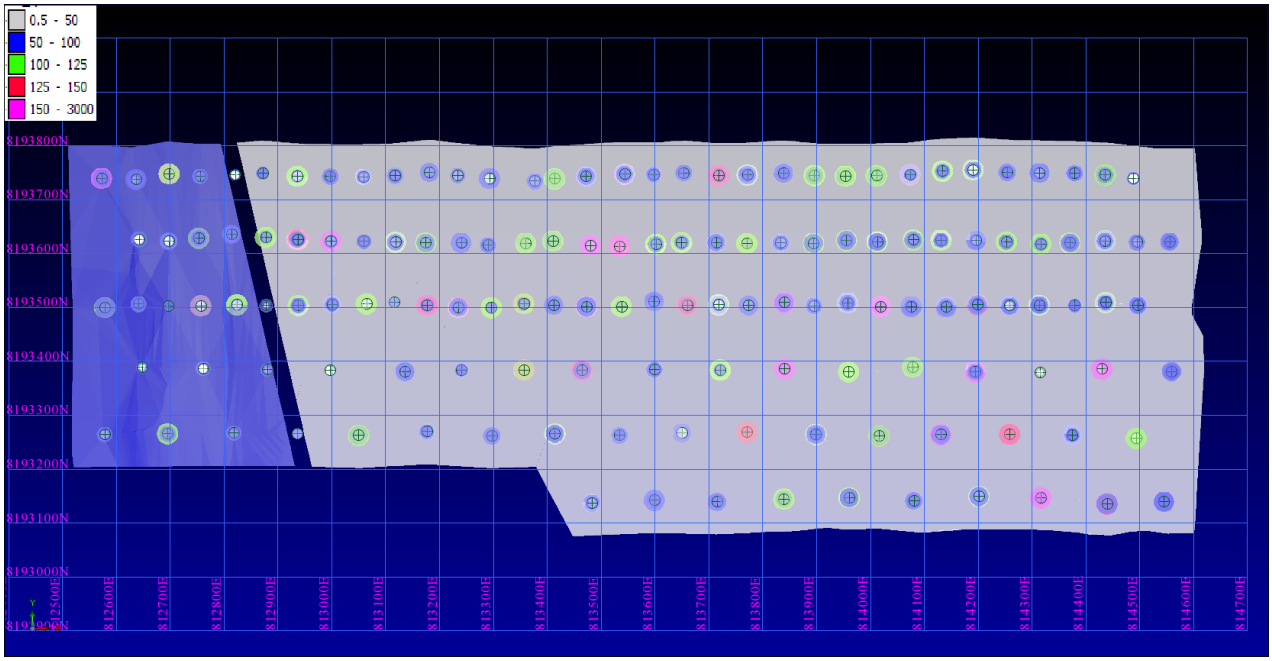

Figure 7: *Mineralisation interpretation with drill holes showing variable grade widths on Neodymium (Nd).*

The process of data preparation and compositing involved the following:

- Flagging the raw sample intervals within the database from the interpreted wireframe solids and numbering according to the individual elements. The individual element sample extraction data is listed below.
    - LODE 1: Sc
    - LODE 2: Y
    - LODE 3: La
    - LODE 4: Ce
    - LODE 5: Pr
    - LODE 6: Nd
    - LODE 7: Sm
    - LODE 8: Eu
    - LODE 9: Gd
    - LODE 10: Tb
    - LODE 11: Dy
    - LODE 12: Ho
    - LODE 13: Er
    - LODE 14: Tm
    - LODE 15: Yb
    - LODE 16: Lu

  - LODE 17: Th
  - LODE 18: U
  - LODE 19: Zr
  - LODE 20: Hf
  - LODE 21: Nb
  - LODE 22: As
  - LODE 23: Ti
  - LODE 24: S
- All drill holes were used in the interpretation and data extraction.
- Extraction & compositing the individual element values to 1m.

Statistics were conducted on each element dataset for the purpose of identifying outlier assays. Some elements required upper cutting as significant outliers were detected.

Table 2: *Statistics for each sample element.*

File	Sc	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
Number of samples	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483
Minimum value	0.5	0.3	1.4	2.6	0.3	1.0	0.3	0.3	0.3	0.3	0.3	0.2
Maximum value	99	162	4,961	6,444	986	2,813	435	113	240	20	82	12
Mean	16	27	84	172	19	68	12	1.5	7.8	1.1	5.1	0.9
Median	15	25	78	163	18	65	12	1.3	7.7	1.0	4.9	0.9
Geometric Mean	15	23	73	152	17	60	11	1.3	7.0	0.9	4.4	0.8
Variance	55	260	17,305	31,712	695	5,876	144	8.6	46.0	0.8	9.8	0.4
Standard Deviation	7	16	132	178	26	77	12	2.9	6.8	0.9	3.1	0.6
Coefficient of variation	0	1	2	1	1	1	1	2.0	0.9	0.8	0.6	0.6
Skewness	3	2	34	30	33	31	30	37	27	11	11	5.2
Kurtosis	27	16	1,274	1,038	1,220	1,109	1,042	1,403	933	190	251	73
Natural Log Mean	2.7	3.1	4.3	5.0	2.8	4.1	2.4	0.3	1.9	-0.1	1.5	-0.2
Log Variance	0.2	0.4	0.2	0.3	0.3	0.3	0.2	0.1	0.2	0.3	0.3	0.4
10.0 Percentile	9.0	10.2	40.2	82.6	8.8	33	5.8	0.9	4.0	0.5	2.2	0.3
20.0 Percentile	11	15	55	114	12	44	8.0	1.0	5.2	0.7	3.0	0.5
30.0 Percentile	13	18	63	132	15	52	9.3	1.1	6.1	0.8	3.7	0.7
40.0 Percentile	14	22	71	149	17	59	10.6	1.2	7.0	0.9	4.2	0.8
50.0 Percentile (median)	15	25	78	163	18	65	11.7	1.3	7.7	1.0	4.9	0.9
60.0 Percentile	16	28	85	176	20	70	12.6	1.4	8.3	1.1	5.5	1.0
70.0 Percentile	18	32	92	192	22	76	13.7	1.6	9.0	1.2	6.1	1.1
80.0 Percentile	20	37	102	216	24	85	15.0	1.7	9.9	1.4	6.8	1.3
90.0 Percentile	23	44	117	255	28	99	17.2	2.0	11.0	1.8	8.0	1.5
95.0 Percentile	28	53	137	291	32	112	19.3	2.2	12.8	2.0	8.7	1.8
97.5 Percentile	35	68	166	329	36	129	22.3	2.5	14.0	2.3	9.8	2.0
98.0 Percentile	36	71	174	346	38	132	23.5	2.6	14.2	2.3	10.2	2.1
99.0 Percentile	42	80	193	396	44	155	26.0	3.0	16.0	2.9	12.5	2.6
99.5 Percentile	52	99	258	480	51	186	30.1	3.5	18.2	4.3	15.8	3.6

File	Er	Tm	Yb	Lu	Th	U	Zr	Hf	Nb	As	Ti	S
Number of samples	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483
Minimum value	0.2	0.2	0.2	0.2	0.5	0.3	9.2	0.3	0.5	0.0	32.0	10.0
Maximum value	27	3.9	30	5.6	273	196	5,308	136	1,617	107	67,998	14,096
Mean	2.6	0.4	2.4	0.4	34	2	346	10	19	4	4,069	195
Median	2.3	0.3	2.1	0.3	33	2	322	9	15	3	3,869	10
Geometric Mean	2.1	0.3	1.9	0.3	30	2	309	9	15	NC	3,675	41
Variance	3.4	0.1	3.8	0.1	285	29	54,353	44	3,333	35	8,737,402	351,960
Standard Deviation	1.8	0.3	2.0	0.3	17	5.4	233	6.6	58	5.9	2,956	593
Coefficient of variation	0.7	0.7	0.8	0.8	0.5	2.4	0.7	0.7	3.0	1.4	0.7	3.0
Skewness	4.6	4.3	5.3	6.8	3.0	32	10	8.4	26	4.8	14	13
Kurtosis	48	36	60	83	35	1,124	173	130	687	68	265	264
Natural Log Mean	0.8	-1.1	0.6	-1.1	3.4	0.6	5.7	2.2	2.7	NC	8.2	3.7
Log Variance	0.4	0.2	0.5	0.2	0.3	0.3	0.2	0.3	0.3	NC	0.2	2.9
10.0 Percentile	1.0	0.3	0.7	0.3	15	1.0	184	5.0	8.2	0.0	2,235	10
20.0 Percentile	1.3	0.3	1.0	0.3	22	1.2	233	6.4	11.0	0.0	2,844	10
30.0 Percentile	1.6	0.3	1.4	0.3	26	1.5	266	7.3	12.3	0.0	3,263	10
40.0 Percentile	2.0	0.3	1.9	0.3	30	1.8	292	8.2	14.0	0.0	3,589	10
50.0 Percentile (median)	2.3	0.3	2.1	0.3	33	2.0	322	9.1	15.0	2.9	3,869	10
60.0 Percentile	2.7	0.3	2.5	0.3	37	2.1	350	10.0	16.2	5.0	4,159	56
70.0 Percentile	3.1	0.3	3.0	0.3	40	2.4	377	10.9	18.0	7.0	4,480	150
80.0 Percentile	3.6	0.5	3.3	0.5	44	2.8	413	12.0	20.7	8.1	4,843	259
90.0 Percentile	4.4	0.7	4.1	0.6	51	3.3	489	14.2	25.9	10.2	5,452	504
95.0 Percentile	5.1	1.0	5.0	0.9	58	3.9	578	17.4	32.0	12.9	6,250	750
97.5 Percentile	6.0	1.0	5.8	1.0	66	4.9	769	20.6	41.1	16.0	7,367	1,304
98.0 Percentile	6.3	1.0	6.3	1.1	70	5.1	813	25.1	43.0	17.2	7,918	1,415
99.0 Percentile	8.1	1.4	9.5	1.5	80	5.9	1,018	32.0	53.0	24.5	11,181	2,244
99.5 Percentile	11.9	1.9	13.0	2.0	97	8.5	1,334	43.9	70.4	28.8	15,929	3,062

High-grade cutting involves identifying the point where continuity of the data is no longer consistent. The process uses histograms and probability plots. The high-grade cut-off values applied to the individual elements is shown in Table 2 with full histogram and probability plots available in Appendix 2:

Table 3: *High-grade cutting results from histograms and probability plots for each element.*

Element	Histogram	Probability Plot	High Grade Cut Used	Comments
Sc	46	46	46	
Y	87	87	87	
La	212	280	280	Uneven distribution. No values between 429ppm and 4902ppm
Ce	450	403	450	
Pr	50	50	50	
Nd	168	168	168	
Sm	30	30	30	
Eu	3.6	3.6	3.6	
Gd	19	18	19	
Tb	3	3	No cutting	
Dy	14	14	14	
Ho	3.5	3	No cutting	
Er	8	8	8	
Tm	2	2	No cutting	
Yb	9	9	9	
Lu	2	2	No cutting	
Th	105	101	105	
U	8	8	8	
Zr	1100	1100	1100	
Hf	46	46	46	
Nb	61	66	66	
As	32	32	32	
Ti	12700	12700	12700	
S	3800	3650	3800	

8.0 VARIOGRAPHY

Variography and anisotropy was conducted on each element for the purpose of independent interpolation parameters and continuity for interpolation grouping. The main purpose of the variography is to define the anisotropy variables or search ellipse parameters. Major/Semi-major are ratios of the semi-major axis (vertical plunge component) to the major axis (lode azimuth), and Major/Minor ratio is the minor axis (lodes width) to the major axis (azimuth).

Due to consistency with many of the element anisotropies, there was consistency to sufficiently create 2 combined groups for interpolation.

Details of the anisotropy variable for each element group are shown in Table 3. Full details of the variography for each element is shown in Appendix 3.

Table 4: *Variography and anisotropy results for each element and groupings.*

Group A									
Lode	**Element**	**DH Nugget**	**Sill**	**Range**	**Bearing**	**Plunge**	**Dip**	**Maj-Semi**	**Maj-Minor**
Lode 1	Sc	0.25	0.26	386	80	0	-5	1.7	14
Lode 3	La	0.35	0.55	234	80	0	-5	1.5	14
Lode 4	Ce	0.51	0.33	380	80	0	-5	1.6	18
Lode 5	Pr	0.35	0.41	317	80	0	-5	1.2	16
Lode 6	Nd	0.35	0.37	334	80	0	-5	1.2	17
Lode 7	Sm	0.36	0.43	355	80	0	-5	1.3	18
Lode 8	Eu	0.52	0.31	227	80	0	-5	1.2	13
	Average	**0.38**	**0.38**	**319.00**	**80**	**0**	**-5**	**1.39**	**15.71**

Group B									
Lode	**Element**	**DH Nugget**	**Sill**	**Range**	**Bearing**	**Plunge**	**Dip**	**Maj-Semi**	**Maj-Minor**
Lode 10	Tb	0.5	0.14	245	90	0	0	1.6	28
Lode 11	Dy	0.24	0.24	333	90	0	0	2	17
Lode 12	Ho	0.45	0.65	204	90	0	0	1.2	11
Lode 13	Er	0.18	0.3	228	90	0	0	1.4	10
Lode 14	Tm	0.38	0.18	214	90	0	0	1.4	8
Lode 15	Yb	0.16	0.4	198	90	0	0	1.5	8.8
Lode 16	Lu	0.3	0.46	197	90	0	0	1.5	6
Lode 17	Th	0.24	0.27	311	90	0	0	2.2	17
Lode 18	U	0.4	0.2	283	90	0	0	2	18
Lode 19	Zr	0.2	0.33	266	90	0	0	1.2	16
Lode 2	Y	0.18	0.27	341	90	0	0	1.7	11
Lode 20	Hf	0.17	0.54	178	90	0	0	1	7.6
Lode 21	Nb	0.41	0.14	168	90	0	0	1.3	17
Lode 22	As	0.2	0.26	399	90	0	0	2.6	24

Lode 23	Ti	0.46	0.18	163	90	0	0	1.3	11
Lode 24	S	0.21	0.53	318	90	0	0	2	17
Lode 9	Gd	0.3	0.21	324	90	0	0	1.5	16
	Average	**0.29**	**0.31**	**257.06**	**90**	**0**	**0**	**1.61**	**14.32**

9.0 BLOCK OPTIMISATION

Surpac macros were created to determine optimum block size, search distance and maximum samples within 2 element groups, Nd & Y. The process involves selecting a centre point between drill samples within the ore boundaries, creating a single block model, and graphically representing the Kriging efficiency and conditional bias slope. The optimal position is where the slopes are closest to one and each other. The location for the block optimisation studies for each model area were:

- Lode 6 (Nd): Y=8193558 X=813509 Z=160.5
- Lode 2 (Y): Y=8193558 X=813509 Z=160.5

The graphs of the studies can be viewed in Appendix 4. Optimum results for each model are listed in Table 2:

Table 5: *Block optimisation results.*

Lode	Block Size (m)	Max no. Samples	Max Search (m)
Nd	50	30	60
Y	60	30	60

10.0 BLOCK MODELLING

Three block models were created in Surpac (version 6.6.2 x64) due to limitations on the number of attributes that could be entered into the model. The models are identical with the only change due to interpolation process as follows:

- **"sandy_mitchell_model_OK_may24.mdl".** Uses Ordinary Kriging (OK) interpolation on the upper-cut datasets. This is the main reportable model.
- **"sandy_mitchell_model_id2_may24.mdl".** Uses Inverse Distance squared (ID2) interpolation on the upper-cut datasets. This is used for validation purposes to compare complex and simple algorithms.
- **"sandy_mitchell_model_OKcut_may24.mdl".** Uses Ordinary Kriging (OKcut) interpolation on the uncut datasets. This is used for validation purposes to compare complex and simple algorithms.

The interpolation process used Ordinary Kriging (OK) as the preferred algorithm. Kriging preventsoutlier smoothing within the search parameters using mathematical inputs derived from the variography.

10.1 Block Model Parameters

The dimensions and parameters for the Sandy Mitchell models are listed in Tables 5 and model attributes are listed in Table 6.

Table 6: *Block model dimensions and attributes for the Main Model area.*

Type	Northing	Easting	Elevation
Minimum Coordinates	8193000	812400	140
Maximum Coordinates	8193900	814700	176
User Block Size	50	25	2
Min. Block Size	12.5	6.25	0.5
Rotation	0	0	0
Total Blocks	138511		
Storage Efficiency %	92.73		

Table 7: *Attributes used in both models.*

Attribute Name	Type	Decimals	Background	Description
creo	Float	-	0	calculated CREO
hreo	Float	-	0	calculated HREO
lode	Integer	-	0	Lode = 1
lreo	Float	-	0	calculated LREO
magreo	Float	-	0	calculated MagREO
monazite	Float	-	0	Calculated monazite
mzeq	Float	-	0	Calculated Monazite Equivilent MzEq
ok1	Float	2	0	Sc interpolation using Ordinary Kriging
ok10	Float	2	0	Tb interpolation using Ordinary Kriging
ok11	Float	2	0	Dy interpolation using Ordinary Kriging
ok12	Float	2	0	Ho interpolation using Ordinary Kriging
ok13	Float	2	0	Er interpolation using Ordinary Kriging

ok14	Float	2	0	Tm interpolation using Ordinary Kriging
ok15	Float	2	0	Yb interpolation using Ordinary Kriging
ok16	Float	2	0	Lu interpolation using Ordinary Kriging
ok17	Float	2	0	Th interpolation using Ordinary Kriging
ok18	Float	2	0	U interpolation using Ordinary Kriging
ok19	Float	2	0	Zr interpolation using Ordinary Kriging
ok2	Float	2	0	Y interpolation using Ordinary Kriging
ok20	Float	2	0	Hf interpolation using Ordinary Kriging
ok21	Float	2	0	Nb interpolation using Ordinary Kriging
ok22	Float	2	0	As interpolation using Ordinary Kriging
ok23	Float	2	0	Ti interpolation using Ordinary Kriging
ok24	Float	2	0	S interpolation using Ordinary Kriging
ok3	Float	2	0	La interpolation using Ordinary Kriging
ok4	Float	2	0	Ce interpolation using Ordinary Kriging
ok5	Float	2	0	Pr interpolation using Ordinary Kriging
ok6	Float	2	0	Nd interpolation using Ordinary Kriging
ok7	Float	2	0	Sm interpolation using Ordinary Kriging
ok8	Float	2	0	Eu interpolation using Ordinary Kriging
ok9	Float	2	0	Gd interpolation using Ordinary Kriging
rutile_ilmenite	Float	-	0	calculated rutile & ilmenite
sg	Float	2	0	interpolated density data
treo	Float	-	0	calculated TREO
treo_y_sc	Float	-	0	calculated TREO + Y + Sc
xenotime	Float	-	0	calculated xenotime
zircon	Float	-	0	calculated zircon

10.2 Interpolation Parameters

The raw elements identified in Section 7 under compositing were interpolated independently into the models using Ok, ID2 and OKcut.

The interpolation pass parameters used are as follows for all elements:

- Pass 1: 6-30 samples 100m max search
- Pass 2: 3-30 samples 200m max search
- Pass 3: 1-30 samples 500m max search

Pass 3 was conducted due to a few outlier blocks not filled during pass 1 & 2. The unfilled blocks form part of the main interpretation and data continuity. Pass 1 & 2 did not fulfill the interpolation of the entire interpreted outlines due to the search ellipse limitations. The influence of this is inconsequential and will not impact on the final result or classification.

Additional elemental combinations and mineral formulas were mathematically calculated into the block model using provided formulas by Ark. The details are shown in Table 7.

Table 8: *Block Model calculated element group formulas.*

Formulas	Element Lode No.
• **MzEq:**	
○ (0.9112*(2.0682*Y)	Lode2
○ +1.6837*La	Lode3
○ +1.6778*Ce	Lode4
○ +1.674*Pr	Lode5
○ +1.6584*Nd	Lode6
○ +1.6316*Sm	Lode7
○ +1.4093*Th	Lode17
○ +1.9663*U)	Lode18
○ +3.1125*Sc	Lode1
○ +0.0888*(2.0682*Y)	Lode2
○ +1.625*Eu	Lode8
○ +1.6039*Gd	Lode9
○ +1.5976*Tb	Lode10
○ +1.5844*Dy	Lode11
○ +1.5758*Ho	Lode12
○ +1.5678*Er	Lode13
○ +1.5622*Tm	Lode14
○ +1.5488*Yb	Lode15
○ +1.5428*Lu)	Lode16
○ + 0.3217 *(1.5159*Hf+2.0094*Zr)	Lode20 & Lode19
○ + 0.2957*(0.0942*(1.6685*Ti))	Lode23
○ + 0.0217*(0.9058*(3.1694*Ti))	Lode23

• **Monazite:**	
○ + 91.12%*Y*2.0682	Lode2
○ +1.6837*La	Lode3
○ +1.6778*Ce	Lode4
○ +1.6740*Pr	Lode5
○ +1.6584*Nd	Lode6

○ +1.6316*Sm	Lode7
○ +1.4093*Th	Lode17
○ +1.9663*U	Lode18

• **Xenotime,**	
○ 3.1125*Sc	Lode1
○ +8.88% *Y*2.0682	Lode2
○ +1.625*Eu	Lode8
○ +1.6039*Gd	Lode9
○ +1.5976*Tb	Lode10
○ +1.5844*Dy	Lode11
○ +1.5758*Ho	Lode12
○ +1.5678*Er	Lode13
○ +1.5622*Tm	Lode14
○ +1.5488*Yb	Lode15
○ +1.5428*Lu	Lode16

• **zircon,**	
○ 1.5159*Hf	Lode20
○ +2.0094*Zr	Lode19

• **Rutile and Ilmenite,**	
○ 1.5159*Hf	Lode20
○ +2.0094*Zr	Lode19
○ +90.58%*3.1694*Ti	Lode23

• **TREO,**	
○ 1.1728*La	Lode3
○ +1.2284*Ce	Lode4
○ +1.2082*Pr	Lode5
○ +1.1664*Nd	Lode6
○ +1.1596*Sm	Lode7
○ +1.1579*Eu	Lode8
○ +1.1526*Gd	Lode9
○ +1.1762*Tb	Lode10
○ +1.1477*Dy	Lode11
○ +1.1455*Ho	Lode12
○ +1.1435*Er	Lode13
○ +1.1421*Tm	Lode14
○ +1.1387*Yb	Lode15
○ +1.1371*Lu	Lode16

• **TREO+Y+Sc,**	
○ TREO	
○ + 1.2699*Y	Lode2
○ + 1.5338*Sc	Lode1

• **LREO,**	
○ 1.1728*La	Lode3
○ +1.2284*Ce	Lode4
○ +1.2082*Pr	Lode5
○ +1.1664*Nd	Lode6
○ +1.1596*Sm	Lode7
○ +1.1579*Eu	Lode8
○ +1.1526*Gd	Lode9

• **HREO,**	
○ +1.1762*Tb	Lode10
○ +1.1477*Dy	Lode11
○ +1.1455*Ho	Lode12
○ +1.1435*Er	Lode13
○ +1.1421*Tm	Lode14
○ +1.1387*Yb	Lode15
○ +1.1371*Lu	Lode16

• **CREO**	
○ + 1.2699*Y	Lode2
○ +1.1664*Nd	Lode6
○ +1.1579*Eu	Lode8
○ +1.1762*Tb	Lode10
○ +1.1477*Dy	Lode11

• **MagREO**	
○ +1.2082*Pr	Lode5
○ +1.1664*Nd	Lode6
○ +1.1762*Tb	Lode10
○ +1.1477*Dy	Lode11

11.0 METALLURGICAL TESTWORK

Ark conducted metallurgical testwork following encouraging results from initial exploration and to assist with next stage development.

The work was conducted by Mineral Technologies Carrara Laboratory in Queensland and conducted on drill core samples sourced from the deposit.

The metallurgical characterisation was performed using approximately 40kg of feed material and using bench-scale equipment to assess response of the ore sample to conventional beneficiation techniques and show product purity after each stage of separation. The simulated industrial stages and their aims are listed below:

Size classification to remove slimes, trash oversize and prepare sand suitable for beneficiation, Gravity separation to recover the valuable heavy mineral components to concentrate, Mechanical attrition to clean mineral surfaces, followed by froth flotation to extract rare earth minerals, Magnetic separation to perform a final upgrade of the flotation rare-earth concentrate.

A table of the mass yield relative to the as-received feed sample, intermediate and final product assays after each sequential fraction are reported in Table 7.

Table 9: *Progressive characterisation mass and assays.*

Product Description	% Mass to feed	Al_2O_3 %	CeO_2 %	Fe_2O_3 %	P_2O_5 %	SiO_2 %	TiO_2 %	U+Th ppm	$Zr(Hf)O_2$ %
Run of Mine	100	14.7	0.04	2.40	0.05	73.6	0.34	62	0.02
Gravity Feed	51.0	13.9	0.05	2.31	0.06	76.5	0.34	72	0.03
Gravity Concentrate	0.58	46.8	2.61	4.22	3.04	33.7	1.34	5,580	2.36
Flotation Concentrate	0.42	51.9	2.92	1.48	3.48	32.6	0.59	5,720	1.21
REM concentrate	0.04	4.46	23.3	2.47	24.9	5.99	1.58	47,080	0.28

The CeO2 content, used a tracer for rare-earth bearing minerals monazite, is upgraded from 0.04% in the as-received feed to 23.3% in the cleanest product.
Each processing stage increases the CeO2 content, with the most significant upgrade achieved by the gravity concentration stages (from 0.05% to 2.61%, corresponding to an upgrade ratio of 52:1).
Upgrade from the flotation of the gravity concentrate is small.
Similar upgrade trends are observed for ZrO2.
The majority of the TiO2 and Al2O3 minerals are rejected through the process stages.

A table of the rare earth elemental composition of the gravity feed sample, intermediate and final product is reported in Table 8.

Table 10: *Progressive characterisation mass and Rare-Earth-Oxides assays.*

Product Description	% Mass to Grav. Fd	La_2O_3 ppm	CeO_2 ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Tb_4O_7 ppm	Dy_2O_3 ppm	Y_2O_3 ppm	TREO %
Gravity Feed	100.0	216	462	55	204	3	11	45	0.11
Gravity Concentrate	1.13	12,784	27,516	3,153	11,407	139	512	1,880	6.10
REM concentrate	0.08	109,891	235,853	26,942	97,393	1,176	4,109	13,843	51.9

The final concentrate assays 51.9% TREO, and contained mostly heavy rare-earth elements La, Ce, Pr and Nd.

Direct CeO2 recovery from gravity feed to REM concentrate is estimated to be 71.7%.

It is noted that approximately 16.9% of Ce-minerals were stranded in laboratory test work intermediate streams which would normally be recycled in a continuous operation, thereby suggesting overall recovery of 83.8% may be achieved.

12.0 CLASSIFICATION

The classification for this resource is conducted according to JORC 2012 guidelines. HGS considers the resource to be sufficiently drilled to be classified as indicated. The reasons are:

- Quality control and quality assurance of the drilling is to industry standard that can identify issues in drilling methods and laboratory assaying.
- Collar pickups were conducted by a qualified surveyor.
- Drill density is sufficient to have good understanding mineralisation controls.
- There is recognition of the geological controls on the mineralisation.
- Variability in the grade distribution is sufficient to create quality variograms.
- A degree of metallurgical understanding.

A measured resource is not given due to some lone element high grade anomalies that will, although, have minimal impact on the overall resource, may have a local impact on grade distribution.

13.0 MINERAL RESOURCE

The monazite equivalent (MzEq) value is considered the appropriate combination for reporting due to the potential to process the ore as a concentrate for shipment, therefore providing a more representative grade.

The Sandy Mitchell Mineral Resource is reported at a 700ppm MzEq lower cut-off grade. HGS considers the grade cut-off within expected mining cut-off grades. The supporting reported numbers are within the MzEq cut-off.

Table 11: *Reported resource for Sandy Mitchell at a 700ppm MzEq lower cut-off.*

MzEq Cut-off	Tonnes	Creo	Hreo	Ilmenite	Lreo	Magreo	Monazite	Mzeq	Rutile	Treo	Treo+Y+Sc	Xenotime	Zircon
700ppm	21,686,232	87.5	14.5	11,365	420.6	105.2	674.4	1,419.1	622.2	435.1	494.5	89.1	699.4

MzEq Cut-off	Tonnes	Sc	Tb	Dy	Ho	Er	Tm	Yb	Lu	Th	U	Zr	Y
700ppm	21,686,232	15.94	1.12	4.96	0.94	2.55	0.38	2.34	0.36	33.07	2.03	340.61	27.49

MzEq Cut-off	Tonnes	Hf	Nb	As	Ti	S	La	Ce	Pr	Nd	Sm	Eu	Gd
700ppm	21,686,232	9.91	16.43	8.17	3959	147.21	79.28	167.3	18.26	65.3	11.63	1.4	7.62

A full breakdown of the resource details including grade tonnage are in **Appendix 1**.

14.0 MODEL VALIDATIONS

The model was validated via the following:

1. Interpolation method comparisons: The complex Kriging interpolation process was compared to a relatively simple interpolation process of Inverse Distance Squared (ID2). A variation in anticipated but should be relatively close.
2. Trend analysis plots. This is a graphical comparison of the drill data to the block data on even sections. The 2 sets of data should be relatively close to each other.
3. Visual data comparisons. This involves looking at the data in cross sections and comparing the drill assays to the block grades. The interpolated block data should trend similarly to the drill grades.

Appendix B: JORC Code, 2012 Edition – Table 1

Section 1 Sampling Techniques and Data

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

Criteria	JORC Code explanation	Commentary
Sampling techniques	• *Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.* • *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.* • *Aspects of the determination of mineralisation that are Material to the Public Report.* • *In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.*	Ark Mines May to June 2023 Sandy Mitchell programme sampling techniques: • Samples are rock chips and accompanying bulk fines collected on 1m intervals by air core drill using 100mm bit. • Sample was passed through an 82.5: 12.5 riffle splitter to yield a representative aliquot of approx. 1.5 kg collected in prenumbered calico bag, and a remainder retained in a numbered plastic bag, with recoveries volumetrically estimated with periodic checks by mass using digital scale, compared against laboratory loose bulk density measurements. • Historic works by SGS (SGS Oretest Job No: S0580, 2010 for JOGMEC) shows mineralisation to have grainsize < = 125µm (very fine sand) and thus the sample mass is adequate for representivity. • Sample for total digest assay was sent to North Australian Laboratories for Assay. • Sample for pan concentration was sub-sampled by spade channel through the remainder sample to a mass of approx. 1kg per metre as determined by digital scales. These were then panned to a concentrate and the subsequent concentrates composited per hole. • Pan Con composite samples were sent to IHC Mining where samples were screened to -1mm, heavy minerals were further separated by heavy liquid separation with yields weighed at each stage. • The final heavy mineral concentrate was subject to Portable XRF analysis for a limited indicative assay. • Samples for preliminary metallurgical testing were sent to Downer Mineral Technologies and comprised the entire bulk metre remainder after riffle splitting the representative aliquot and removal of the 1kg pan concentrate aliquot. Ark Mines November to December 2023 Sandy Mitchell programme sampling techniques: • All sampling methodologies were as per the June programme, but the air core bit was exchanged for a reverse circulation face hammer to complete the end of hole, at the same diameter. • The bedrock horizon was determined by geological chip logging supported by driller's run sheet records of penetration.
Drilling techniques	• *Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core*	Ark Mines May to June 2023 Sandy Mitchell programme: • Drill was by Comacchio track mounted air core rig using 100mm air core bit.

Criteria	JORC Code explanation	Commentary
	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).	• All holes were vertical and drilled to refusal or 17.5m, whichever came first. Ark Mines November to December 2023 Sandy Mitchell programme: • Drill was by AusRoc 4000 multi-purpose rig using 100mm and changing to slim line 100mm RC face hammer at depth. • All holes were vertical and drilled to complete the final metre in bedrock.
Drill sample recovery	• *Method of recording and assessing core and chip sample recoveries and results assessed.* • *Measures taken to maximise sample recovery and ensure representative nature of the samples.* • *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.*	Ark Mines May to June 2023 and November to December 2023 Sandy Mitchell programme: • Recoveries were assessed by volumetric estimation by the metre based on total sample weights using a digital scale with comparison made via laboratory loose bulk density measurements. • Sample was passed through a cyclone with a gated chute to allow fines to fall out of the air stream. The chute was kept closed until the end of each metre had been drilled, then opened to collect sample, and closed prior to recommencement of drilling. • No relationship between recovery and grade has been identified.
Logging	• *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.* • *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.* • *The total length and percentage of the relevant intersections logged.*	Ark Mines May to June 2023 and November to December 2023 Sandy Mitchell programme: • Sample was logged by the metre for all drilling, by the site geology team for both qualitative and quantitative criteria. • Drill logs for 100% of drilling are available with overall length of 3914.2m. • Logging is sufficient to support resource estimation, mining and metallurgical studies.
Sub-sampling techniques and sample preparation	• *If core, whether cut or sawn and whether quarter, half or all core taken.* • *If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.* • *For all sample types, the nature, quality and appropriateness of the sample preparation technique.* • *Quality control procedures*	Ark Mines May to June 2023 Sandy Mitchell programme: • All sample passed through the drill cyclone dry. • Sub-sampling for laboratory assay was by 87.5:12.5 riffle splitter: the bulk sample was passed evenly through the riffles with the assay aliquot collected in a pre-numbered calico bag, and the reject collected in a numbered plastic bag. • Field duplicates were taken at 1:40 by 50:50 riffle splitter. • Historic works by SGS (SGS Oretest Job No: S0580, 2010 for JOGMEC) shows mineralisation to have

Criteria	JORC Code explanation	Commentary
	adopted for all sub-sampling stages to maximise representivity of samples. • *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.* • *Whether sample sizes are appropriate to the grain size of the material being sampled.*	grainsize < 125µm (very fine sand) and thus the sample mass is representative. • Sample for pan concentration was sub-sampled by spade channel through the reject to a mass of approx. 1kg per metre as determined by digital scales. • Sample for preliminary metallurgical testing was selected from the 11m twinned hole SMDH 00014b and comprised the entire 87.5% bulk metre sample after riffle splitting to yield the representative sample and removal of the 1kg pan concentrate aliquot. Ark Mines November to December 2023 Sandy Mitchell programme: • All sampling was conducted as per the June 2023 programme, but duplicates at 1 in 40 were taken by passing the total reject sample through an 87.5:12.5 riffle splitter in the same manner as the primary sample.

Quality of assay data and laboratory tests	• *The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.*
	• *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.*
	• *Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.*
		Ark Mines May to June 2023 Sandy Mitchell programme:
		• Metre samples were sent to North Australian Laboratories (NAL) for total digest assay:
		• Samples were weighed then kiln dried and re-weighed.
		• 1 in 5 samples was tested for moisture content.
		• 1 in 3 samples was tested for dry loose bulk density.
		• Sample was then pulverization in an LM-5 to 94% passing 75 µm with assay aliquot selected by laboratory splitter.
		• Al, Ca, Cr, Fe, Mg, P, S, Si and Ti were assayed by sodium peroxide fusion in nickel crucibles with ICP-OES finish.
		• Sc, Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Th, U, Zr, Hf, Nb, Ta, Sr, Pb and As were assayed by sodium peroxide fusion in nickel crucibles with ICP-MS finish.
		• Na and K were assayed by 4 acid digest with ICP-OES finish.
		• Field duplicates were taken at 1:40 by 50:50 riffle split of the assay aliquot.
		• For total digest samples:
		  • Laboratory repeats were assayed at than 1 in 8.
		  • Standard insertion was carried out by the laboratory at 1 in 24.
		  • Assay of blank quartz flushes was carried out at 1 in 40.
		  • Grind size testing was carried out at 1 in 34.
		• For pan concentrate samples
		  • Laboratory repeats were requested at no less than 1 in 40.
		  • Standard insertion was requested of the laboratory at no less than 1 in 40.
		  • Assay of blank quartz flushes was requested at 1 in 40.

Criteria	JORC Code explanation	Commentary

		• Total radiometric count was measured on all assay samples using a SAIC Exploranium GR-110G hand held scintillometer, hired from Terra Search Townsville, pre-calibrated.
		• Reading times were 10 second accumulations, which was the machine maximum, with 100x10 second background accumulations taken per day, per measuring station.
		• IHC Mining Laboratory procedures for pan concentrate composite samples was:
		  • Creation of duplicates by split at a rate of 1 in 24
		  • Screen to -1mm and weigh
		  • Heavy liquid separation and weigh
		  • Pulverization of the heavy mineral fines by extended grind
		  • Portable XRF analysis of the pulp
		• QAQC implemented is believed sufficient to establish accuracy and precision with any batches showing QAQC anomalies retested by batch.
		• Mineral Technologies preliminary met' samples were processed at bench scale by:
		  • 55.2kg of individual samples were combined by rotary homogenisation then split to yield a representative aliquot of 38.3 kg for process testing.
		  • The composite sample was screened to 2000 µm, 500 µm and wet screened at 20 µm with the 500 to 20 µm fraction then passed through 2 stages of gravity separation using Wilfley table (rougher stage).
		  • The Wilfley concentrate was passed through a bromoform heavy liquid separation flask (cleaner stage).
		  • The HLS sinks were attrition cleaned for 5 minutes at a 65% wet weight density and deslimed, then passed through a Geoteknica FM3 froth floatation cell using starch depressant and sodium silicate surfactant.
		  • Both sinks and floats were separately processed through a dry induced Reading magnetic separator.
		  • This yielded 4 final streams of mag and non-mag floats (containing the bulk of REE) and mag and non-mag sinks, containing the bulk of zircon, as well as various tails from each previous stage.
		  • Percentages of material passing or rejecting at each stage were determined by mass.
		  • The float magnetic fraction was further refined by semi-lift magnetic separator to determine feasibility of individual mineral species separation, but the yields of this process were not assayed due to volumetric limits from this round of processing.
		• Mineral Technologies sent samples of the tails and

Criteria	JORC Code explanation	Commentary

product concentrates, excluding SLM stage products, to Bureau Veritas Brisbane for assay:

- Samples were dried and pulverised using tungsten carbide bowls in a vibrating pulveriser to 90% passing 75 µm with a BQF before each sample.
- Sample was fused to a glass bead to determine Fe, Si, Al, Cr, Mg, Mn, P, U, Th, V, Nb, S, Ca, K, Ce, Sn, Ti, and Zr oxides by XRF.
- LOI was determined by mass after heating to 105°C (drying temp) and 1000°C (fusing temp).
- Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Tm, Y and Yb were determined by laser ablation of fused bead with ICP-MS finish.
- Standards were assayed at 1 in 3 to cover all elements in the suite for both assay methods.
- Laboratory repeats were carried out at 1 in 4.

Ark Mines May to June 2023 and November to December 2023 Sandy Mitchell programme:

- Metre samples were sent to North Australian Laboratories (NAL) for total digest assay:
- Samples were weighed then kiln dried and re-weighed.
- 1 in 10 samples was tested for moisture content.
- 1 in 10 samples was tested for LOI.
- 1 in 3 samples was tested for dry loose bulk density.
- Sample was then pulverization in an LM-5 to 94% passing 75 µm with assay aliquot selected by laboratory splitter.
- Al, Ca, Cr, Fe, Mg, P, S, Si and Ti were assayed by sodium peroxide fusion in nickel crucibles with ICP-OES finish.
- Sc, Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Th, U, Zr, Hf, Nb, Ta, Sr, Pb and As were assayed by sodium peroxide fusion in nickel crucibles with ICP-MS finish.
- Na and K were assayed by 4 acid digest with ICP-OES finish.
- Field duplicates were taken at 1:40 by 87.5:12.5 riffle split of the bulk reject.
- For total digest samples:
  - Laboratory repeats were requested at no less than 1 in 40 but carried out by the laboratory at 1 in 8.
  - Standard insertion was carried out by the laboratory at 1 in 24.
  - Assay of blank quartz flushes was requested at 1 in 40.
  - Grind size testing was carries out at 1 in 34.
- Total radiometric count, K%, U ppm and Th ppm was measured on all assay samples using an RSI RS-230 103 cm^3 bismuth germanate oxide crystal high sensitivity hand held spectrometer, purchased for the Project and, pre-calibrated.

Criteria	JORC Code explanation	Commentary
		• Reading times were 30 second accumulations, with 20x30 second background accumulations taken per day, per measuring station, one set before and one set after measurement.

Verification of sampling and assaying	• *The verification of significant intersections by either independent or alternative company personnel.*
	• *The use of twinned holes.*
	• *Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.*
	• *Discuss any adjustment to assay data.*
		Ark Mines May to June 2023 and November to December 2023 Sandy Mitchell programme:
		• Significant intersections have not been separately determined or reported.
		• 11 twin holes have been drilled for a total of 104.85 twin metres Two of these twins are using power auger to twin air core, to support both resource and reconnaissance works.
		• Data was entered into MS excel then verified against hard copy data, followed by import into Datamine Studio RM for validation.
		• Primary data is stored as hard copy, electronic tables in CSV format and Datamine format.
		• Assay data yielding elemental concentrations for rare earths (REE) within the sample are converted to their stoichiometric oxides (REO) in a calculation performed using the conversion factors in the table below.
		• Rare Earth oxide is the industry accepted form for reporting rare earths. The following calculations have been used for reporting:
		  • **TREO** = La2O3 + Ce02 + Pr6O11 + Nd2O3 + Sm2O3 + Eu2O3 + Gd2O3 + Tb4O7 + Dy2O3 + Ho2O3 + Er2O3 + Tm2O3 + Yb2O3 + Lu2O3+ Y2O3
		  • **CREO** = Nd2O3 + Eu2O3 + Tb4O7 + Dy2O3 + Yb2O3
		  • **LREO** = La2O3 + Ce02 + Pr6O11
		  • **HREO** = Sm2O3 + Eu2O3 + Gd2O3 + Tb4O7 + Dy2O3 + Ho2O3 + Er2O3 + Tm2O3 + Yb2O3 + Lu2O3+ Y2O3
		  • **MagREO =** Pr6O11 + Nd2O3 + Tb4O7 + Dy2O3
		  • **Where stated as +Y and or +Sc,** the calculated values above have the addition of Y2O3 and or Sc2O3
		  • ND/Pr = Nd2O3 + Pr6O11
		  • TREO – Ce = TREO – CeO2
		  • %NdPr + NdPr/TREO
		• Economic heavy minerals, monazite, xenotime, zircon, rutile and ilmenite are potentially marketable materials contained in the mineralisation as demonstrated by IHC pan concentrate work and Downer Mineral Technologies gravity concentration work to date.
		• Assay data yielding elemental concentrations for rare earths (REE), Zr, Hf and Ti within the sample are converted to their stoichiometric mineralogy in a calculation performed using the conversion factors in

Criteria	JORC Code explanation	Commentary

the table below. For elements that occur in more than one mineral, the proportions of occurrence in each were reported by SGS (SGS Oretest Job No: S0580, 2010 for JOGMEC) and the assayed element is assigned by a percentage determined by these proportion, into the appropriate mineral species.

- The following calculated mineralogy has been used for reporting:
  - **Monazite** = La(PO4) + Ce(PO4) + Pr(PO4) + Nd(PO4) + Sm(PO4) + (91.12/100 x Y(PO4)) + Th(PO4) + CaU(PO4)2
  - **Xenotime** = Eu(PO4) + Gd(PO4) + Tb(PO4) + Dy(PO4) + Ho(PO4) + Er(PO4) + Tm(PO4) + Yb(PO4) + Lu(PO4) + (8.88/100 x Y(PO4)_ppm)
  - **Zircon =** Zr(SiO4) + Hf(SiO4)
  - **Rutile** = 9.42/100 x Ti as TiO2
  - **Ilmenite** = 90.58/100 x Ti as FeTiO3
- Stoichiometric Oxide Table:

Element Name	Element Oxide	Oxide Factor
Ce	CeO2	1.2284
Dy	Dy2O3	1.1477
Er	Er2O3	1.1435
Eu	Eu2O3	1.1579
Gd	Gd2O3	1.1526
Ho	Ho2O3	1.1455
La	La2O3	1.1728
Lu	Lu2O3	1.1371
Nd	Nd2O3	1.1664
Pr	Pr6O11	1.2081
Sc	Sc2O3	1.5338
Sm	Sm2O3	1.1596
Tb	Tb4O7	1.1762
Th	ThO2	1.1379
Tm	Tm2O3	1.1421
U	U3O8	1.1793
Y	Y2O3	1.2699
Yb	Yb2O3	1.1387

- Stoichiometric Mineral Table:

Mineral Name	Assay Element	Chemical Formula	Stoichiometric Factor
Monazite	Y	Y(PO4)	2.0682
Monazite	La	La(PO4)	1.6837
Monazite	Ce	Ce(PO4)	1.6778
Monazite	Pr	Pr(PO4)	1.6740
Monazite	Nd	Nd(PO4)	1.6584
Monazite	Sm	Sm(PO4)	1.6316
Monazite	Th	Th(PO4)	1.4093
Monazite	U	CaU(PO4)2	1.9663
Xenotime	Y	Y(PO4)	2.0682
Xenotime	Sc	Sc(PO4)	3.1125

Criteria	JORC Code explanation	Commentary
		<table><tr><td>Xenotime</td><td>Eu</td><td>Eu(PO4)</td><td>1.6250</td></tr><tr><td>Xenotime</td><td>Gd</td><td>Gd(PO4)</td><td>1.6039</td></tr><tr><td>Xenotime</td><td>Tb</td><td>Tb(PO4)</td><td>1.5976</td></tr><tr><td>Xenotime</td><td>Dy</td><td>Dy(PO4)</td><td>1.5844</td></tr><tr><td>Xenotime</td><td>Ho</td><td>Ho(PO4)</td><td>1.5758</td></tr><tr><td>Xenotime</td><td>Er</td><td>Er(PO4)</td><td>1.5678</td></tr><tr><td>Xenotime</td><td>Tm</td><td>Tm(PO4)</td><td>1.5622</td></tr><tr><td>Xenotime</td><td>Yb</td><td>Yb(PO4)</td><td>1.5488</td></tr><tr><td>Xenotime</td><td>Lu</td><td>Lu(PO4)</td><td>1.5428</td></tr><tr><td>Zircon</td><td>Zr</td><td>Zr(SiO4)</td><td>2.0094</td></tr><tr><td>Zircon</td><td>Hf</td><td>Hf(SiO4)</td><td>1.5159</td></tr><tr><td>Rutile</td><td>Ti</td><td>TiO2</td><td>1.6685</td></tr><tr><td>Ilmenite</td><td>Ti</td><td>FeTiO3</td><td>3.1694</td></tr></table> • Because other elements can occur in both xenotime and monazite, the calculation for these minerals should be considered the minimum. • Because Ti and to a lesser extent Zr, can occur in other minerals no included in calculation, the calculated mineralogy for these elements should be considered a maximum.
Location of data points	• *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.* • *Specification of the grid system used.* • *Quality and adequacy of topographic control.*	Ark Mines May to June 2023 and November to December 2023 Sandy Mitchell programme: • An initial collar survey by hand held GPS was conducted as a failsafe, with expected accuracy of ±5000mm in x and y, and ±50000mm in z. • Full survey by Twine Surveys was subsequently carried out using RTKdGPS with accuracy of ±20mm in x and y, and ±200mm in z • Twine's professional RTK survey was implemented between drill collars and used to generate a digital terrain model for high quality topographic control. • All survey data is recorded in MGA 2020 zone 54 and AHD.
Data spacing and distribution	• *Data spacing for reporting of Exploration Results.* • *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.* • *Whether sample compositing has been applied.*	Ark Mines May to June 2023 and November to December 2023 Sandy Mitchell programme: • Data spacing for 3 lines of drilling is 60m x 120m. • Data spacing for the remaining 13 lines is 120m x 120m • No compositing has been applied to 1m samples for total digest assay. • Pan concentrates were composited per drill hole. • Preliminary metallurgical sample was composited as discussed under *Laboratory Tests.* • Representative metre samples for total digest assay were not composited, residual sub-metre hole ends were similarly assayed separately to preserve geometric representation.
Orientation of data in relation to	• *Whether the orientation of sampling achieves unbiased sampling of*	Ark Mines May to June 2023 and November to December 2023 Sandy Mitchell programme:

Criteria	JORC Code explanation	Commentary
geological structure	*possible structures and the extent to which this is known, considering the deposit type.* • *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.*	• Deposit type is unconsolidated restite sand derived by in-situ weathering, sometimes called saprolite sand, with minor perturbation by small scale fluvial channels. • The applied vertical sampling is the optimal orientation for the deposit type. • No bias by orientation or spatial relationships has been identified.
Sample security	• *The measures taken to ensure sample security.*	Ark Mines May to June 2023 and November to December 2023 Sandy Mitchell programme: • Samples were collected after logging and transported at the end of each day to the company locked storage in Chillagoe. • Samples were boxed in closed pumpkin crates, wrapped in plastic for shipping by courier to the laboratory in Pine Creek, NT. • Samples for IHC Mining and Downer Mineral Technologies were similarly boxed, wrapped and couriered to the laboratories, but prior to shipping were stored on site at the Ark fenced bulk bag farm. • Bagged reject was stored on site in Ark's fenced secure bag farm and covered in UV resistant tarping for future use.
Audits or reviews	• *The results of any audits or reviews of sampling techniques and data.*	Ark Mines May to June 2023 and November to December 2023 Sandy Mitchell programme: • Full audit of sampling techniques and data available to date was carried out by geological consultants, Empirical Earth Science. • EES notes that the composited concentrate samples results in assay representing diluted material with no internal separation possible. • EES noted that the hand panning process of such fine material is prone to heavy mineral loss, with the possibility that concentrates underrepresent the total heavy mineral fraction. • ESS noted that the pXRF technique used in initial concentrate assays is not suited to yield full REE data, but that the results can inform approximate proxy calculations for the full REE suite. • EES noted that none of these factors apply to the representative metre samples and total digest assays, which meet best practice. • EES noted that the preliminary metallurgy was of insufficient volume and source dispersion to represent the entire eventual resource, but was well suited to its stated purpose of proof of concept, testing recovery technique, and process to inform the next stage of bulk metallurgy.

Criteria	JORC Code explanation	Commentary
		• EES also noted that the preliminary metallurgy was selected by reviewing pan con composite results, representing a median grade material within that data set, and is thus a reasonable preliminary representation of grade and recovery performance.

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	• *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.* • *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.*	• EPM 28013 Sandy Mitchell is 100% owned by Ark Mines Limited and was purchased on the 23rd of February 2023. • This tenement was formally EPM18308. • There are no third party agreements. • No known issues impeding on the security of the tenure of Ark Mines ability to operate in the area exist.
Exploration done by other parties	• *Acknowledgment and appraisal of exploration by other parties.*	A number of companies and individuals have explored the area for gold and base metals and for heavy minerals. The summaries presented below are from the IRTM source: • ATP 597M was granted to Laskan Minerals Pty Ltd in 1969 over the Reid Creek area, north of the Mitchell River. From assays of rock chip and stream sediment samples, it was concluded that there was little chance of economic mineralisation occurring in the Authority. Although good monazite grades were obtained, the samples were from creeks with little available wash. Good concentrations of monazite and ilmenite were present in large areas of sandy, alluvial sheet wash in the Reid's Creek area. It was believed that there was a potential for economic exploitation if the monazite concentrations occurred in a large enough volume of sandy material. No further work was reported. • In 1970, Altarama Search Pty Ltd was granted ATP 833M over the Mitchell River in the Reid Creek, Sandy Creek and Mount Mulgrave Homestead area. Four hundred stream sediment samples, at an average density of

Criteria	JORC Code explanation	Commentary
		1.25 samples/km^2, were collected for assay. Copper and lead contents were low. Half of the zinc results were considered to be possibly anomalous. A two population distribution was obtained for zinc, with a standard threshold of about 15 ppm. It was suggested that the two population distributions represented normal background ranges present in different strata. No other work was carried out. • ATP 2580M was granted to Tacam Pty Ltd over Sandy Creek and its tributaries. Stream sediment samples averaged 0.18% monazite (0.01 to 0.45%), 0.07% rutile (0.15% in terraces), and 0.06% zircon (0.14% in terraces). The area had low economic potential and the Authority was abandoned in August 1981. • The principals involved in Tacam Pty Ltd combined with Metcalfe Holdings Pty Ltd in 1986 to take up 4 Authorities to Prospect - 4400,4401,4402 and 4403 centred on Mt Mulgrave, Arkara Creek, Sandy Creek and the Kennedy River respectively. The investigations were for the possibility of locating large-scale heavy minerals in association with major drainages and lower slope eluvial deposits associated with Cretaceous weathering as indicated in previous investigations. EPM 4400, 4401, 4402 and 4403 • Barron and O'Toole focused on Mt Mulgrave for Ilmenite, rutile, REE, Monzonite, Zircon, and Gold.Tenement EPM 4400 consisted of 96 sub-blocks centred on Mount Mulgrave (7665, 7765), EPM 4401 consisted of 97 sub-blocks centred on Arkara Creek (7665), EPM 4402 consisted of 100 sub- blocks centred on Sandy Creek (7665) and EPM 4403 consisted of 86 sub-blocks centred on Kennedy River (7666, 7766) were granted to P.T.C. Barron, A. O'Toole and Metcalfe Holdings Pty Ltd on 22 September 1986 to explore for heavy minerals and precious metals. After three years of exploration the EPMs were surrendered on 22 August 1989. • Tenement EPM 10185 consisted of 157 sub-blocks was granted to Palmer Gold Pty Ltd on 25 October 1994 for an initial 2 year period. The exploration permit was renewed for a further 3 years on 25 October 1996 and surrendered on 3 October 2001.

Criteria	JORC Code explanation	Commentary
		The tenement was situated 200km west of Cooktown. Rationale Significant gold-silver, tin and base metal deposits are known from the Georgetown and southern Dargalong Inliers to the south of EPM 10185 (e.g. Etheridge, Croydon and Oaks goldfields), from the Hodgkinson Province to the east (e.g. Palmer, Hodgkinson, Russell River, Starcke, Jordon Ck, Mareeba and Mount Peter goldfields, and Herberton-Mt Garnet tinfield), and the Coen Inlier to the north (e.g. Alice River & Potallah goldfields). However, other than brief reference to sub-economic alluvial gold occurrences near the junction of the Palmer and Mitchell Rivers, and in the Staaten, Lynd and Walsh Rivers (Culpeper 1993), no precious or base metal deposits are known to occur within rocks of the Yambo Inlier. Application for the area was made after structural interpretation of the region showed prospectivity for gold occurrence. Base metal anomalies delineated from previous exploration were also targeted for follow-up work. • In 2007 exploration activity was carried out by BHP Billiton Minerals Pty Ltd under an extremely large area (2,850 sub-blocks) of the Coen Yambo area from 2005 to 2007. EPM's 14438 and 14445 covered the majority of the Yambo Inlier. BHP targeted Ni sulphide and PGM and carried out AEM surveying, field mapping and sampling and drilling. The AEM targets were found to be related to sedimentary lithological units or obvious shear zones. • In 2007 - 2009 - MTY Resources Ltd undertook bulk sampling program along with a Panned Concentrate sampling program. • In 2012 Waverley Nominees undertook an Augur sampling program.
Geology	• *Deposit type, geological setting and style of mineralisation.*	• The tenement covers a portion of the southern extent of the Yambo Inlier, one of the several Proterozoic inliers to the west of the Palmerville Fault System. Rocks of the Yambo Inlier covered by the tenement comprise those of the middle Proterozoic Yambo Metamorphic Group of mainly amphibolites and gneisses ranging in age from ~1690 Ma to ~1585 Ma. • The dominant Yambo member on the tenement

Criteria	JORC Code explanation	Commentary
		is the Chelmsford Gneiss, and this is thought to be the source of REE sands. • These rocks have been intruded by Silurian-Devonian granites of the Lukinville Suite which form an integral part of the Cape York Batholith. Within the tenement they form a belt roughly 10 km wide trending NNW. • Extensive intrusions of Carboniferous-Permian dolerites occur throughout the Inlier, with only a few occurrences within the tenement. • The tenement is largely gold deficient except for the gold reporting to sediments within the Palmer River to the north. Recent Governmental radiometric surveys have highlighted areas of anomalous radiometric emission within the Yambo Inlier. The project tenements cover the majority of the anomalous radiometric areas. • The project area in the tenement has a 3 to 25m, average 10.5m (stage 1 drilling) to 12.5m (stage 2 drilling), covering of disaggregated fine to very fine sand with sparse pebble or cobble horizons. These sands carry REE as monazite and lesser xenotime, zircon, rutile, illmenite and garnet. The sands are believed to derive from weathering of the Chelmsford Gneiss, with minimal fluvial transport largely constrained to the upper 2m. There is minor clay in the top 1 to 2m of sand which extends from daylight to the bedrock.

Drill hole Information	• *A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:*
	  ○ *easting and northing of the drill hole collar*
	  ○ *elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar*
	  ○ *dip and azimuth of the hole*
	  ○ *down hole length and interception depth*
	  ○ *hole length.*
	• *If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.*
		• Ark Mines May to June 2023 drill data, refer to table in Appendix C

Criteria	JORC Code explanation	Commentary
Data aggregation methods	• *In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.* • *Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.* • *The assumptions used for any reporting of metal equivalent values should be clearly stated.*	• No high or Low-grade top/bottom-cut has been applied to the data presented in Appendix C, which is the total data set. • REE Equivalent TREO (total REE oxides) is reported as this is the industry standard for presentation of REE data. Stoichiometric calculation of REE oxide equivalents were performed in units of ppm, with TREO, LREO (light REE oxides), HREO (heavy REE Oxides), CREO (critical REE oxides) and Mag REO (magnet production REE oxides), as per Table 1 page 5 to 7, yielding these factors as concentrations and percentages of TREO concentration. • Calculated mineralogy is used to derive a monazite equivalent, which represents the heavy minerals of value, present in gravity concentrates, as a single number based on five year commodity price median values. • The assayed elements, coupled with QEMSCAN element proportions in SGS Oretest Job No: S0580, 2010 for JOGMEC, allow calculation of monazite, xenotime, zircon, rutile and ilmenite concentrations stoichiometrically, as described in Table 1 page 5 to 7. • Market analysis of value ranges of these minerals allows calculation of their ratios to monazite, yielding a table of unitless factors: • These factors are applied to the corresponding separate mineral concentrations in PPM for a given element assay, and the results are summed to give a monazite equivalent in PPM for that assay: **Mz EQ =** monazite + xenotime + 0.3217 x zircon + 0.2957 x rutile + 0.0217 x ilmenite • This monazite equivalent thus represents the average value proposition for the main economic mineralogy, in terms of monazite concentration. • The cutoff grade is calculated on monazite equivalent (Mz Eq) which allows the value in the potentially saleable commodities to be tied together in a single calculation, and visible in the drill data in a single instance. • The cutoff grade applied is 700 ppm Mz Eq.

	Mean ratio
Monazite	1
Xenotime	1
Zircon	0.32173913
Rutile	0.295652174
Ilmenite	0.02173913

Criteria	JORC Code explanation	Commentary
Relationship between mineralisation widths and intercept lengths	• *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 (eg 'down hole length, true width not known').*	• Ark Mines May to June 2023 drill data shows no regular variation in REE distribution beyond the top 1 to 2m where fluvial action and lagging may result in some supergene enrichment. • The mineralisation is essentially flat lying, and thus intercept width on the vertical holes drilled is at or approaching the geometric minimum width, which is optimal. • Consequently, only down hole length are reported and these are equivalent to true thickness.
Diagrams	• *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.*	• See release illustrations and illustrations in Appendix A: Sandy Mitchell REE Project Resource Evaluation Report (HGS Australia, 2024).
Balanced reporting	• *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.*	• Appendix C, contains the total data set without application of cut-offs, top-cuts or curtailment to significant intercepts.
Other substantive exploration data	• *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.*	• All data material to this report that has been collected to date has been reported textually, graphically or both.
Further work	• *The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).* • *Diagrams clearly*	• Ark plans further resource estimation based on the November to December 2023 drilling when assays are returned. • Ark plans further gravity beneficiation and metallurgical test work on a larger sample basis, investigating several different techniques to

Criteria	JORC Code explanation	Commentary
	highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	determine optimal processing. • Ark also plans pilot plant test work and other feasibility studies.

Section 3 Estimation and Reporting of Mineral Resources

(Criteria listed in section 1, and where relevant in section 2, also apply to this section.)

Criteria	JORC Code explanation	Commentary
Database integrity	• *Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes.* • *Data validation procedures used.*	• The database was created by HGS Australia for the purpose of conducting a resource evaluation. • The resource evaluation was conducted by HGS Australia
Site visits	• *Comment on any site visits undertaken by the Competent Person and the outcome of those visits.* • *If no site visits have been undertaken indicate why this is the case.*	• No site visits were conducted by HGS Australia

Geological interpretation	• *Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit.*
	• *Nature of the data used and of any assumptions made.*
	• *The effect, if any, of alternative interpretations on Mineral Resource estimation.*
	• *The use of geology in guiding*
		• The resource area has been sufficiently interpreted by geological consultants and the geology matches grade and geological interpretations as anticipated.
		• Criteria used in the interpretations were:
		  • Interpretations were based on the MzEq (monzonite equivalent) grade defined from element ratios and formulas.
		  • A nominal 700ppm MzEq lower cut-off grade with flexibility for geological continuity.
		  • Sections extended half the distance from the previous section.

<table>
<tr><th>Criteria</th><th>JORC Code explanation</th><th>Commentary</th></tr>
<tr><td></td><td>• and controlling Mineral Resource estimation.
• The factors affecting continuity both of grade and geology.</td><td></td></tr>
<tr><td>Dimensions</td><td>• The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource.</td><td>• Mineralised outlines were interpreted by HGS within the coordinates:
○ 8193000N – 8193900N
○ 812400E – 814700E
○ 140mRL – 176mRL</td></tr>
<tr><td>Estimation and modelling techniques</td><td>• The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used.
• The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.</td><td>• The models were created using Surpac software.
• Reported Interpolation method used is Ordinary Kriging
• Interpolation validation method of inverse distance squared was conducted as a check.
• Grade cutting was variable within the 24 elements due to significant outliers. A list of the cut elements are as follows:
<table>
<tr><th>Element</th><th>High Grade Cut Used</th><th>Comments</th></tr>
<tr><td>Sc</td><td>46</td><td></td></tr>
<tr><td>Y</td><td>87</td><td></td></tr>
<tr><td>La</td><td>280</td><td>Uneven distribution. No values between 429ppm and 4902ppm</td></tr>
<tr><td>Ce</td><td>450</td><td></td></tr>
<tr><td>Pr</td><td>50</td><td></td></tr>
<tr><td>Nd</td><td>168</td><td></td></tr>
<tr><td>Sm</td><td>30</td><td></td></tr>
<tr><td>Eu</td><td>3.6</td><td></td></tr>
<tr><td>Gd</td><td>19</td><td></td></tr>
<tr><td>Tb</td><td>No cutting</td><td></td></tr>
<tr><td>Dy</td><td>14</td><td></td></tr>
<tr><td>Ho</td><td>No cutting</td><td></td></tr>
<tr><td>Er</td><td>8</td><td></td></tr>
<tr><td>Tm</td><td>No cutting</td><td></td></tr>
<tr><td>Yb</td><td>9</td><td></td></tr>
<tr><td>Lu</td><td>No cutting</td><td></td></tr>
<tr><td>Th</td><td>105</td><td></td></tr>
</table></td></tr>
</table>

Criteria	JORC Code explanation	Commentary

- *The assumptions made regarding recovery of by-products.*
- *Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation).*
- *In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.*
- *Any assumptions behind modelling of selective mining units.*
- *Any assumptions about correlation between variables.*
- *Description of how the geological interpretation was used to control the resource estimates.*
- *Discussion of basis for using or not using grade cutting or capping.*
- *The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.*

U	8	
Zr	1100	
Hf	46	
Nb	66	
As	32	
Ti	12700	
S	3800	

Type	Northing	Easting	Elevation
Minimum Coordinates	8193000	812400	140
Maximum Coordinates	8193900	814700	176
User Block Size	50	25	2
Min. Block Size	12.5	6.25	0.5
Rotation	0	0	0
Total Blocks	138511		
Storage Efficiency %	92.73		

- Model sizes and parameters are:

Attribute Name	Type	Decimals	Background	Description
creo	Float	-	0	calculated CREO
hreo	Float	-	0	calculated HREO
lode	Integer	-	0	Lode = 1
lreo	Float	-	0	calculated LREO
magreo	Float	-	0	calculated MagREO
monazite	Float	-	0	Calculated monazite
mzeq	Float	-	0	Calculated Monazite Equivilent MzEq
ok1	Float	2	0	Sc interpolation using Ordinary Kriging
ok10	Float	2	0	Tb interpolation using Ordinary Kriging
ok11	Float	2	0	Dy interpolation using Ordinary Kriging
ok12	Float	2	0	Ho interpolation using Ordinary Kriging
ok13	Float	2	0	Er interpolation using Ordinary Kriging
ok14	Float	2	0	Tm interpolation using Ordinary Kriging
ok15	Float	2	0	Yb interpolation using Ordinary Kriging
ok16	Float	2	0	Lu interpolation using Ordinary Kriging
ok17	Float	2	0	Th interpolation using Ordinary Kriging
ok18	Float	2	0	U interpolation using Ordinary Kriging
ok19	Float	2	0	Zr interpolation using Ordinary Kriging
ok2	Float	2	0	Y interpolation using Ordinary Kriging

Criteria	JORC Code explanation	Commentary

ok20	Float	2	0	Hf interpolation using Ordinary Kriging
ok21	Float	2	0	Nb interpolation using Ordinary Kriging
ok22	Float	2	0	As interpolation using Ordinary Kriging
ok23	Float	2	0	Ti interpolation using Ordinary Kriging
ok24	Float	2	0	S interpolation using Ordinary Kriging
ok3	Float	2	0	La interpolation using Ordinary Kriging
ok4	Float	2	0	Ce interpolation using Ordinary Kriging
ok5	Float	2	0	Pr interpolation using Ordinary Kriging
ok6	Float	2	0	Nd interpolation using Ordinary Kriging
ok7	Float	2	0	Sm interpolation using Ordinary Kriging
ok8	Float	2	0	Eu interpolation using Ordinary Kriging
ok9	Float	2	0	Gd interpolation using Ordinary Kriging
rutile_ilmenite	Float	-	0	calculated rutile & ilmenite
sg	Float	2	0	interpolated density data
treo	Float	-	0	calculated TREO
treo_y_sc	Float	-	0	calculated TREO + Y + Sc
xenotime	Float	-	0	calculated xenotime
zircon	Float	-	0	calculated zircon

- The interpolation pass parameters used are as follows for all elements:
  - Pass 1: 6-30 samples 100m max search
  - Pass 2: 3-30 samples 200m max search
  - Pass 3: 1-30 samples 500m max search

Moisture	• *Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.*	• Tonnages were estimated as dry basis
Cut-off parameters	• *The basis of the adopted cut-off grade(s) or quality parameters applied.*	• Univariate statistics were conducted. Upper cut determinations were conducted from histograms and probability plots.
Mining factors or assumptions	• *Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining*	• Resource economics identifies the probable lower cut-off to be 700ppm MzEq

Criteria	JORC Code explanation	Commentary
	dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.	
Metallurgical factors or assumptions	• *The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be*	• Ark conducted metallurgical testwork following encouraging results from initial exploration and to assist with next stage development. • The work was conducted by Mineral Technologies Carrara Laboratory in Queensland and conducted on drill core samples sourced from the deposit. • The metallurgical characterisation was performed using approximately 40kg of feed material and using bench-scale equipment to assess response of the ore sample to conventional beneficiation techniques and show product purity after each stage of separation. The simulated industrial stages and their aims are listed below: • Size classification to remove slimes, trash oversize and prepare sand suitable for beneficiation, Gravity separation to recover the valuable heavy mineral components to concentrate, Mechanical attrition to clean mineral surfaces, followed by froth flotation to extract rare earth minerals, Magnetic separation to perform a final upgrade of the flotation rare-earth concentrate. • The final concentrate assays 51.9% TREO, and contained mostly heavy rare-earth elements La, Ce, Pr and Nd. • Direct CeO2 recovery from gravity feed to REM concentrate is estimated to be 71.7%.

Criteria	JORC Code explanation	Commentary
	rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.	• It is noted that approximately 16.9% of Ce-minerals were stranded in laboratory test work intermediate streams which would normally be recycled in a continuous operation, thereby suggesting overall recovery of 83.8% may be achieved.
Environmental factors or assumptions	• *Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with an explanation of the environmental assumptions made.*	• No assessments have been made yet
Bulk density	• *Whether assumed or determined. If*	• Bulk densities for 495 samples were conducted from the drill program and interpolated into the model. Densities ranged

Criteria	JORC Code explanation	Commentary
	assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples. • *The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vugs, porosity, etc), moisture and differences between rock and alteration zones within the deposit.* • *Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.*	from 1.24t/m³ to 1.92 t/m³ with an average of 1.52 t/m³
Classification	• *The basis for the classification of the Mineral Resources into varying confidence categories.* • *Whether appropriate account has been taken of all relevant factors (ie relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the*	• The classification for this resource is conducted according to JORC 2012 guidelines. HGS considers the resource to be sufficiently drilled to be classified as indicated. The reasons are: • Quality control and quality assurance of the drilling is to industry standard that can identify issues in drilling methods and laboratory assaying. • Collar pickups were conducted by a qualified surveyor. • Drill density is sufficient to have good understanding mineralisation controls. • There is recognition of the geological controls on the mineralisation. • Variability in the grade distribution is sufficient to create quality variograms. • A degree of metallurgical understanding. • A measured resource is not given due to some lone element high grade anomalies that will, although, have minimal impact on the overall resource, may have a

Criteria	JORC Code explanation	Commentary
	data). • *Whether the result appropriately reflects the Competent Person's view of the deposit.*	local impact on grade distribution. • The results reflect the competent person.
Audits or reviews	• *The results of any audits or reviews of Mineral Resource estimates.*	• No available
Discussion of relative accuracy/ confidence	• *Where appropriate a statement of the relative accuracy and confidence level in the Mineral Resource estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate.* • *The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic*	• The competent person has confidence in the interpretation with regards to accuracy for the classification announced. • The interpolation process was run in inverse distance squared to compare a complex algorithm to a simple one. • The competent person in confident of the accuracy of the resource

Criteria	JORC Code explanation	Commentary
	evaluation. Documentation should include assumptions made and the procedures used. • *These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.*	

Appendix C: Sandy Mitchell Stage 1 complete assay return

See Appendix A for stoichiometric oxide factors and REE calculations used.

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00013	813118.6	8193621.1	161.5	0	1	25	1510.3	792.1	93.5	646.6	602.0	10995.3	499.7	558.7	484.2	15.5	74.4	135.4	126.2	24.5	34.4	112.0
SMDH 00013	813118.6	8193621.1	161.5	1	2	50	1393.3	412.6	125.3	525.5	991.8	18115.0	269.2	340.6	256.0	13.2	84.6	84.9	70.3	44.5	26.9	56.9
SMDH 00013	813118.6	8193621.1	161.5	2	3	70	836.7	292.3	69.4	312.1	541.1	9884.3	191.5	230.2	184.8	6.7	45.4	53.2	47.8	24.5	14.1	42.2
SMDH 00013	813118.6	8193621.1	161.5	3	4	70	1095.9	650.2	87.8	375.6	342.6	6258.4	421.6	470.6	413.1	8.6	57.5	99.9	100.1	29.1	19.8	96.1
SMDH 00013	813118.6	8193621.1	161.5	4	5	80	594.6	228.0	37.8	217.4	374.1	6832.6	150.5	171.5	146.0	4.5	25.5	39.7	38.5	12.3	8.8	33.8
SMDH 00013	813118.6	8193621.1	161.5	5	6	90	1102.0	376.3	88.1	376.3	746.4	13633.6	245.8	298.7	233.3	12.5	65.4	78.4	64.6	27.6	25.3	50.2
SMDH 00013	813118.6	8193621.1	161.5	6	7	80	1258.5	564.9	104.0	399.3	666.4	12172.4	273.2	338.6	259.4	13.8	79.1	88.0	68.4	33.7	31.6	58.9
SMDH 00013	813118.6	8193621.1	161.5	7	8	80	1067.0	429.3	74.1	423.4	617.7	11282.4	282.4	323.2	275.2	7.2	48.0	69.0	68.2	26.1	14.7	63.8
SMDH 00013	813118.6	8193621.1	161.5	8	9	90	1397.4	737.0	93.4	287.8	685.6	12522.6	475.3	540.4	457.2	18.0	83.2	137.1	118.3	23.0	42.2	105.4
SMDH 00013	813118.6	8193621.1	161.5	9	10	70	1825.7	1139.0	119.4	814.9	440.9	8052.7	744.5	814.6	727.9	16.5	86.7	179.0	179.3	33.7	36.4	164.8
SMDH 00013	813118.6	8193621.1	161.5	10	10.5	90	1272.6	679.2	76.0	481.5	523.9	9568.5	450.7	493.8	440.2	10.6	53.6	109.9	110.3	21.5	21.6	101.8
SMDH 00012b	813175.0	8193619.9	161.6	0	1	40	1415.1	891.7	72.0	827.9	267.4	4883.3	567.8	620.7	551.1	16.7	69.6	150.2	137.6	12.3	40.6	122.8
SMDH 00012b	813175.0	8193619.9	161.6	1	2	50	1730.3	1077.3	90.4	1045.2	327.2	5977.1	691.7	755.2	671.6	20.1	83.6	186.0	172.6	16.9	46.6	149.1
SMDH 00012b	813175.0	8193619.9	161.6	2	3	80	349.2	181.1	18.5	209.7	118.7	2167.5	118.9	130.2	115.8	3.1	14.4	29.7	29.1	4.6	6.7	25.1
SMDH 00012b	813175.0	8193619.9	161.6	3	4	80	1227.6	664.0	71.9	586.5	437.7	7995.3	436.6	479.6	425.0	11.6	54.6	113.3	109.2	18.4	24.6	91.8
SMDH 00012b	813175.0	8193619.9	161.6	4	5	70	1144.6	641.8	73.6	623.6	330.2	6031.6	412.9	458.4	403.0	9.9	55.3	107.4	101.2	19.9	25.5	90.7
SMDH 00012b	813175.0	8193619.9	161.6	5	6	70	1105.2	629.6	80.6	504.6	336.2	6140.7	403.4	454.6	390.3	13.1	64.3	111.4	101.6	21.5	29.7	84.8
SMDH 00012b	813175.0	8193619.9	161.6	6	7	80	1011.8	528.5	61.4	594.7	333.2	6086.2	338.8	377.9	328.3	10.6	49.6	90.5	83.5	15.3	23.7	72.0
SMDH 00012b	813175.0	8193619.9	161.6	7	8	80	1228.7	655.7	70.8	477.3	503.9	9203.9	430.1	470.6	419.2	10.9	51.4	108.0	107.0	18.4	22.1	94.6
SMDH 00012b	813175.0	8193619.9	161.6	8	9	80	1363.6	764.3	88.9	617.7	450.5	8227.8	497.0	550.8	483.9	13.1	66.8	129.7	123.9	23.0	30.7	105.0
SMDH 00012b	813175.0	8193619.9	161.6	9	10	90	920.8	519.9	60.3	413.9	299.7	5474.7	326.3	376.6	316.3	10.0	60.4	102.4	81.4	13.8	36.6	66.1
SMDH 00012b	813175.0	8193619.9	161.6	10	11	80	967.7	556.0	61.4	384.1	327.7	5985.7	356.9	399.9	348.2	8.7	51.7	99.8	89.7	15.3	27.7	74.4
SMDH 00012b	813175.0	8193619.9	161.6	11	12	75	1147.3	556.0	68.2	715.8	423.0	7725.4	349.6	401.2	340.4	9.2	60.7	101.7	85.5	18.4	33.1	72.8
SMDH 00012b	813175.0	8193619.9	161.6	12	13	85	1210.7	623.5	70.5	545.7	492.9	9003.0	409.2	450.4	397.8	11.4	52.6	105.9	103.1	18.4	22.9	88.8
SMDH 00012b	813175.0	8193619.9	161.6	13	14	80	1061.8	661.2	65.8	269.4	358.5	6548.4	423.2	473.2	413.1	10.1	60.1	117.9	103.8	15.3	34.7	90.1
SMDH 00012	813240.5	8193620.2	161.4	0	1	45	1560.0	979.6	71.4	1126.9	211.7	3867.0	617.2	685.1	602.1	15.2	83.0	177.9	152.2	10.7	57.1	131.6
SMDH 00012	813240.5	8193620.2	161.4	1	2	60	1320.6	641.8	68.5	973.5	429.4	7843.1	404.2	459.7	394.5	9.6	65.1	112.4	94.8	18.4	37.1	85.1
SMDH 00012	813240.5	8193620.2	161.4	2	3	65	812.6	324.0	44.6	800.7	269.2	4917.8	208.7	239.4	203.8	4.9	35.6	61.2	54.4	13.8	16.9	46.3
SMDH 00012	813240.5	8193620.2	161.4	3	4	70	1049.5	562.9	57.7	526.8	374.9	6847.0	351.6	402.6	342.3	9.3	60.3	106.9	86.5	13.8	37.2	75.1
SMDH 00012	813240.5	8193620.2	161.4	4	5	75	1265.7	712.5	69.8	672.8	385.9	7047.9	464.6	508.1	455.1	9.5	52.9	111.0	109.7	19.9	23.5	101.3
SMDH 00012	813240.5	8193620.2	161.4	5	6	90	922.8	464.2	55.1	443.0	377.1	6887.2	305.3	337.7	297.3	7.9	40.4	80.4	77.7	15.3	17.1	67.2
SMDH 00012	813240.5	8193620.2	161.4	6	7	90	654.4	307.6	36.8	310.1	303.7	5546.5	202.2	222.2	197.3	4.9	24.9	53.5	54.8	10.7	9.3	43.7
SMDH 00012	813240.5	8193620.2	161.4	7	8	90	1314.9	670.4	65.7	623.5	546.5	9981.9	440.1	481.3	429.4	10.7	51.9	111.8	109.2	16.9	24.4	97.5
SMDH 00012	813240.5	8193620.2	161.4	8	9	85	1405.3	748.6	78.5	723.8	499.0	9114.9	487.9	536.7	476.0	11.9	60.7	124.1	121.3	21.5	27.3	109.4
SMDH 00012	813240.5	8193620.2	161.4	9	10	90	1328.7	679.0	75.4	621.7	540.8	9878.6	445.5	491.4	434.9	10.7	56.5	113.6	111.3	21.5	24.4	99.6
SMDH 00011b	813290.3	8193615.6	161.0	0	1	65	1420.2	717.9	83.4	705.8	566.3	10343.6	465.9	518.8	452.4	13.5	66.4	125.4	119.3	23.0	29.8	102.5
SMDH 00011b	813290.3	8193615.6	161.0	1	2	80	1223.0	672.7	83.1	396.5	490.7	8962.8	436.6	491.1	422.8	13.8	68.3	117.4	108.5	23.0	31.5	97.1
SMDH 00011b	813290.3	8193615.6	161.0	2	3	85	1219.1	677.8	68.3	559.4	423.4	7734.0	438.4	481.0	427.0	11.3	54.0	112.0	110.4	18.4	24.3	93.5
SMDH 00011b	813290.3	8193615.6	161.0	3	4	95	1033.3	507.9	80.2	457.0	430.8	7869.0	318.5	373.0	305.2	13.3	67.8	93.7	77.4	23.0	31.5	72.2
SMDH 00011b	813290.3	8193615.6	161.0	4	5	90	630.2	240.9	44.8	439.0	293.6	5362.7	156.9	181.9	154.0	2.9	27.9	47.0	48.0	16.9	8.1	31.9
SMDH 00011b	813290.3	8193615.6	161.0	5	6	80	1169.8	551.6	88.1	468.9	547.9	10007.8	353.6	410.2	340.8	12.8	69.4	97.8	85.9	27.6	29.0	79.2
SMDH 00011b	813290.3	8193615.6	161.0	6	7	95	1088.4	532.8	59.4	387.9	536.7	9803.9	350.9	384.7	343.7	7.2	40.9	82.5	84.1	18.4	15.4	80.1
SMDH 00011b	813290.3	8193615.6	161.0	7	8	60	723.6	438.7	37.6	484.0	132.3	2417.2	287.9	312.3	278.9	8.9	33.4	74.3	69.6	6.1	18.3	61.7
SMDH 00011	813360.3	8193619.4	160.8	0	1	50	1758.0	1074.9	100.5	759.1	489.0	8931.2	689.2	762.1	668.1	21.2	94.1	190.3	170.3	21.5	51.4	150.7
SMDH 00011	813360.3	8193619.4	160.8	1	2	60	1132.2	678.8	69.4	418.6	360.2	6580.0	435.1	485.4	422.7	12.4	62.7	115.2	102.2	16.9	33.4	96.3
SMDH 00011	813360.3	8193619.4	160.8	2	3	85	1632.3	815.5	79.2	898.6	648.0	11836.5	538.1	581.9	528.3	9.8	53.6	127.1	130.7	23.0	20.8	119.7
SMDH 00011	813360.3	8193619.4	160.8	3	4	80	1835.6	860.6	92.2	974.1	823.0	15031.7	568.3	620.1	557.1	11.3	63.0	138.2	139.4	27.6	24.1	126.5
SMDH 00011	813360.3	8193619.4	160.8	4	5	70	1728.8	710.4	86.3	1152.9	811.0	14813.5	463.2	514.3	452.2	11.0	62.1	118.5	113.6	26.1	25.0	102.9
SMDH 00010b	813411.1	8193623.6	161.9	0	1	60	2434.5	1235.4	163.2	1101.7	984.7	17985.8	780.7	902.3	747.0	33.7	155.4	241.5	194.9	39.9	81.8	163.8
SMDH 00010b	813411.1	8193623.6	161.9	1	2	50	1411.0	786.2	156.6	512.3	438.4	8006.8	476.7	605.0	438.6	38.1	166.3	188.1	118.1	36.8	91.4	95.1
SMDH 00010b	813411.1	8193623.6	161.9	2	3	80	2002.5	892.4	143.5	969.7	945.9	17276.7	564.0	664.1	539.6	24.4	124.5	173.4	139.9	41.4	58.7	119.2
SMDH 00010b	813411.1	8193623.6	161.9	3	4	90	1722.1	808.4	117.0	775.3	790.9	14446.1	513.0	596.8	491.0	22.0	105.8	158.5	128.0	30.7	53.1	108.4
SMDH 00010b	813411.1	8193623.6	161.9	4	5	85	1114.7	626.1	73.3	479.2	377.2	6890.0	408.2	453.5	396.3	11.9	57.3	104.4	98.4	19.9	25.4	88.4
SMDH 00010b	813411.1	8193623.6	161.9	5	6	85	1273.8	541.2	59.2	745.0	626.8	11448.9	358.5	390.8	351.8	6.7	39.0	86.9	90.7	18.4	13.8	80.7
SMDH 00010b	813411.1	8193623.6	161.9	6	7	80	1757.9	836.2	81.4	931.7	781.1	14268.1	548.2	597.9	535.3	12.9	62.5	139.8	139.5	21.5	28.2	121.7
SMDH 00010	813480.8	8193615.1	163.0	0	1	50	2124.4	1584.6	112.3	542.6	365.6	6677.6	1013.2	1096.4	983.8	29.5	112.6	263.6	247.0	15.3	67.8	207.5
SMDH 00010	813480.8	8193615.1	163.0	1	2	55	1012.0	450.4	66.0	604.2	435.4	7952.2	288.1	328.5	279.1	9.1	49.4	79.9	74.0	19.9	20.4	61.0
SMDH 00010	813480.8	8193615.1	163.0	2	3	60	1192.4	678.7	58.0	720.0	323.8	5913.9	434.6	473.5	422.1	12.5	51.4	118.4	112.4	10.7	28.2	92.1
SMDH 00010	813480.8	8193615.1	163.0	3	4	95	1118.8	583.8	65.1	473.9	458.8	8380.0	373.1	416.0	360.5	12.6	55.5	106.3	97.5	15.3	27.6	78.9
SMDH 00010	813480.8	8193615.1	163.0	4	5	80	1232.6	642.1	63.8	640.9	463.2	8460.4	411.0	451.5	399.7	11.4	51.8	109.5	105.7	15.3	25.1	87.7
SMDH 00010	813480.8	8193615.1	163.0	5	6	90	1287.0	707.4	74.2	571.9	464.4	8483.3	452.7	500.6	439.7	13.0	60.8	124.1	118.0	18.4	29.5	96.4
SMDH 00010	813480.8	8193615.1	163.0	6	7	95	1300.0	697.2	83.8	672.8	437.1	7983.8	438.1	500.0	419.9	18.2	80.1	134.2	112.3	18.4	43.6	92.1
SMDH 00010	813480.8	8193615.1	163.0	7	8	80	1286.6	675.7	67.6	667.7	474.7	8669.9	430.9	475.5	418.1	12.8	57.4	119.0	111.6	15.3	29.2	91.0
SMDH 00009b	813534.9	8193613.7	163.4	0	1	55	2507.6	1663.3	136.4	1093.3	514.6	9399.1	1077.4	1171.0	1048.7	28.7	122.3	279.0	269.6	27.6	66.0	235.1
SMDH 00009b	813534.9	8193613.7	163.4	1	2	60	1814.2	1234.0	94.0	542.7	450.3	8225.0	813.3	869.6	798.6	14.7	71.0	195.0	203.4	23.0	33.3	185.4
SMDH 00009b	813534.9	8193613.7	163.4	2	3	75	1855.9	1006.0	83.8	957.5	662.0	12092.0	660.3	707.5	647.9	12.4	59.5	159.1	167.8	21.5	25.7	146.4
SMDH 00009b	813534.9	8193613.7	163.4	3	4	90	1850.3	939.5	94.3	970.5	728.7	13309.2	622.6	672.5	612.3	10.3	60.2	144.6	156.0	29.1	20.7	139.2

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00009b	813534.9	8193613.7	163.4	4	5	80	2078.1	1100.6	114.3	903.1	827.7	15117.9	725.3	789.4	710.8	14.5	78.6	176.4	183.8	33.7	30.4	160.6
SMDH 00009b	813534.9	8193613.7	163.4	5	6	90	2119.6	1083.1	120.1	1059.1	831.9	15195.4	704.0	776.7	686.2	17.8	90.5	180.2	177.7	33.7	39.0	154.2
SMDH 00009b	813534.9	8193613.7	163.4	6	7	75	2101.6	961.3	115.0	766.9	1124.9	20546.6	621.2	693.8	603.1	18.1	90.7	166.0	157.2	32.2	40.4	136.4
SMDH 00009b	813534.9	8193613.7	163.4	7	8	75	1545.3	961.3	87.7	574.0	450.3	8225.0	623.7	680.9	607.8	15.8	73.1	162.0	154.8	19.9	37.3	140.1
SMDH 00009	813602.2	8193617.7	163.9	0	1	45	1307.1	744.2	80.3	721.9	361.8	6608.7	475.0	535.0	457.0	18.0	78.0	139.3	119.6	16.9	43.2	101.3
SMDH 00009	813602.2	8193617.7	163.9	1	2	55	1935.7	1082.0	102.3	828.9	700.4	12792.5	709.5	776.5	690.8	18.7	85.8	184.1	178.2	24.5	42.5	170.9
SMDH 00009	813602.2	8193617.7	163.9	2	3	80	1974.0	1008.1	130.7	830.9	820.6	14988.7	653.1	735.7	631.9	21.2	103.7	176.2	163.8	36.8	45.7	142.7
SMDH 00009	813602.2	8193617.7	163.9	3	4	90	2040.7	1054.4	126.1	1003.1	776.7	14187.7	685.4	764.6	665.5	19.8	99.1	181.1	172.1	35.3	43.9	151.9
SMDH 00009	813602.2	8193617.7	163.9	4	5	90	1758.8	883.6	107.8	723.2	772.5	14110.2	577.7	642.1	563.0	14.7	79.0	147.1	144.1	32.2	32.1	128.2
SMDH 00009	813602.2	8193617.7	163.9	5	6	90	1270.1	622.2	71.6	556.1	574.3	10490.1	408.8	451.3	398.1	10.7	53.2	107.5	104.8	19.9	22.6	89.3
SMDH 00009	813602.2	8193617.7	163.9	6	7	95	1810.2	926.5	108.6	827.2	735.6	13435.5	602.2	672.4	584.1	18.1	88.3	164.8	153.8	29.1	41.0	129.4
SMDH 00009	813602.2	8193617.7	163.9	7	8	95	1881.5	983.1	122.7	843.3	728.8	13312.1	632.7	716.1	609.0	23.7	107.1	185.4	164.7	30.7	52.7	134.3
SMDH 00009	813602.2	8193617.7	163.9	8	9	95	1784.6	821.9	94.4	851.9	858.8	15686.3	539.4	594.6	526.4	13.0	68.1	137.2	136.9	27.6	27.6	118.6
SMDH 00009	813602.2	8193617.7	163.9	9	10	90	1826.1	848.3	87.7	796.8	915.7	16725.5	558.8	608.8	546.4	12.4	62.5	140.0	142.8	24.5	25.5	120.8
SMDH 00009	813602.2	8193617.7	163.9	10	11	95	2124.7	1025.0	105.1	987.9	977.9	17862.4	675.3	734.6	661.7	13.6	72.9	165.2	170.9	30.7	28.7	148.1
SMDH 00009	813602.2	8193617.7	163.9	11	12	95	1851.1	883.3	99.1	812.0	877.8	16033.7	574.4	636.6	557.5	16.9	79.1	150.8	143.2	26.1	36.2	124.7
SMDH 00009	813602.2	8193617.7	163.9	12	13	95	1826.5	918.1	148.3	954.9	654.5	11954.2	587.8	684.5	563.1	24.8	121.4	171.5	147.3	42.9	53.7	124.8
SMDH 00008b	813649.9	8193620.5	164.3	0	1	50	1344.6	649.0	79.7	721.2	554.7	10131.2	417.6	471.3	402.4	15.2	68.9	119.9	107.3	19.9	33.8	90.1
SMDH 00008b	813649.9	8193620.5	164.3	1	2	85	1972.4	1036.1	130.5	829.0	778.9	14227.9	671.9	751.9	652.7	19.2	99.1	175.5	168.6	38.3	41.7	146.2
SMDH 00008b	813649.9	8193620.5	164.3	2	3	90	1482.3	673.6	83.2	726.7	710.6	12979.1	443.3	488.4	434.6	8.7	53.9	105.7	110.6	27.6	17.5	99.8
SMDH 00008b	813649.9	8193620.5	164.3	3	4	70	1717.2	916.3	95.5	668.9	708.4	12938.9	599.2	654.2	586.2	13.0	68.0	145.2	148.1	27.6	27.4	131.9
SMDH 00008b	813649.9	8193620.5	164.3	4	5	85	1638.9	832.6	101.9	665.3	708.4	12938.9	541.5	604.0	526.4	15.1	77.7	141.1	135.2	29.1	33.4	118.7
SMDH 00008b	813649.9	8193620.5	164.3	5	6	90	1661.0	864.2	90.1	760.3	667.7	12195.3	564.5	615.7	552.6	11.9	63.2	136.8	140.5	26.1	25.1	124.7
SMDH 00008b	813649.9	8193620.5	164.3	6	7	90	1627.9	879.3	102.6	765.9	577.3	10544.6	572.4	634.1	557.1	15.3	77.0	146.7	142.8	29.1	32.6	124.9
SMDH 00008b	813649.9	8193620.5	164.3	7	8	95	1661.2	1000.8	98.8	764.5	456.1	8331.2	653.5	713.1	638.2	15.3	74.9	162.3	162.3	26.1	33.5	143.6
SMDH 00008b	813649.9	8193620.5	164.3	8	9	98	1596.4	887.0	110.8	716.9	531.7	9712.1	568.8	641.2	549.2	19.6	92.1	159.9	145.5	29.1	43.3	123.4
SMDH 00008b	813649.9	8193620.5	164.3	9	10	95	1542.7	830.6	127.4	726.8	507.0	9261.3	528.7	613.9	504.3	24.4	109.6	162.1	136.8	33.7	51.4	112.0
SMDH 00008b	813649.9	8193620.5	164.3	10	10.5	95	1536.8	787.4	110.2	805.8	549.0	10027.9	501.4	578.0	479.6	21.8	98.4	153.1	129.2	27.6	49.0	105.9
SMDH 00008	813714.1	8193620.8	166.1	0	1	50	1518.6	780.0	84.0	728.8	607.0	11087.2	501.7	555.8	487.0	14.7	68.8	135.1	128.5	21.5	32.6	107.9
SMDH 00008	813714.1	8193620.8	166.1	1	2	65	1194.2	624.7	114.0	379.3	481.9	8802.0	390.1	466.9	372.7	17.4	94.2	118.2	95.9	35.3	41.5	86.1
SMDH 00008	813714.1	8193620.8	166.1	2	3	90	1548.4	765.6	97.6	720.9	655.1	11965.7	486.5	555.6	466.3	20.2	89.3	145.8	124.0	23.0	46.1	104.0
SMDH 00008	813714.1	8193620.8	166.1	3	4	95	1471.8	759.7	98.0	682.6	570.1	10412.5	487.3	553.4	468.6	18.7	84.8	140.9	123.5	24.5	41.5	104.1
SMDH 00008	813714.1	8193620.8	166.1	4	5	95	1431.2	698.7	89.6	690.0	608.3	11110.2	449.4	507.7	432.8	16.6	74.9	127.0	114.1	23.0	35.3	96.5
SMDH 00008	813714.1	8193620.8	166.1	5	6	95	1350.9	641.4	84.7	638.8	605.7	11064.2	414.2	468.5	400.2	14.0	68.2	114.9	103.9	23.0	31.2	90.0
SMDH 00008	813714.1	8193620.8	166.1	6	7	95	2042.1	926.3	134.6	931.1	985.0	17991.6	588.3	684.1	560.5	27.7	123.6	183.6	150.8	33.7	62.1	123.8
SMDH 00007b	813771.2	8193619.2	167.3	0	1	45	1836.5	1077.1	112.3	1310.3	326.0	5954.1	673.1	771.9	653.2	19.8	118.7	203.6	164.6	26.1	72.8	142.6
SMDH 00007b	813771.2	8193619.2	167.3	1	2	5	1192.8	594.4	108.5	734.6	366.4	6691.9	354.4	448.3	339.1	15.4	109.3	135.1	89.3	32.2	61.7	72.7
SMDH 00007b	813771.2	8193619.2	167.3	2	3	40	1229.0	131.9	93.5	968.5	1000.1	18267.2	86.5	136.2	81.8	4.7	54.4	28.2	21.4	39.9	9.8	19.9
SMDH 00007b	813771.2	8193619.2	167.3	3	4	85	1239.7	175.2	110.8	789.5	1011.1	18468.1	109.7	178.2	98.7	11.0	79.5	53.6	30.4	41.4	27.0	19.5
SMDH 00007b	813771.2	8193619.2	167.3	4	5	95	1171.8	189.0	109.2	402.2	1075.4	19642.3	123.4	187.0	114.5	8.8	72.5	48.3	32.7	42.9	20.7	23.7
SMDH 00007b	813771.2	8193619.2	167.3	5	6	95	1173.5	160.4	131.5	238.3	1163.1	21244.2	105.0	178.7	96.0	8.9	82.7	46.9	30.8	53.7	20.1	18.9
SMDH 00007b	813771.2	8193619.2	167.3	6	7	90	1176.7	202.8	128.3	246.9	1107.0	20219.3	122.5	207.5	106.9	15.6	100.6	69.2	34.5	46.0	39.0	21.2
SMDH 00007	813834.1	8193620.1	166.4	0	1	60	1454.2	708.7	79.8	766.4	605.6	11061.4	458.7	511.0	444.2	14.5	66.8	127.6	118.7	19.9	32.4	96.2
SMDH 00007	813834.1	8193620.1	166.4	1	2	50	1040.0	499.9	82.7	750.9	312.0	5698.6	310.9	374.7	301.6	9.3	73.1	100.3	77.2	26.1	37.7	67.2
SMDH 00007	813834.1	8193620.1	166.4	2	3	70	1112.0	607.3	77.5	673.8	304.0	5552.2	382.6	444.4	371.5	11.1	73.0	119.7	98.0	21.5	40.4	81.2
SMDH 00007	813834.1	8193620.1	166.4	3	4	75	1353.5	419.6	57.9	816.2	886.3	16188.7	278.6	309.2	273.6	5.0	35.7	67.5	70.2	19.9	10.7	61.5
SMDH 00007	813834.1	8193620.1	166.4	4	5	75	1446.2	687.3	75.9	527.7	741.5	13544.6	455.8	498.4	446.4	9.4	52.0	109.3	112.9	23.0	19.6	103.2
SMDH 00007	813834.1	8193620.1	166.4	5	6	80	1591.8	740.8	92.4	593.1	820.6	14988.7	480.1	540.0	463.9	16.2	76.0	132.7	121.9	24.5	35.3	105.3
SMDH 00007	813834.1	8193620.1	166.4	6	7	90	2290.5	1307.7	160.4	769.9	830.5	15169.5	559.8	673.2	525.3	34.5	147.9	196.0	148.1	38.3	75.1	117.2
SMDH 00007	813834.1	8193620.1	166.4	7	8	95	1550.7	749.6	102.9	715.7	676.0	12347.5	480.6	549.2	462.0	18.5	87.1	140.3	123.2	27.6	41.0	101.9
SMDH 00007	813834.1	8193620.1	166.4	8	9	95	1592.1	830.6	106.7	764.8	590.8	10791.5	534.1	606.4	514.7	19.4	91.7	153.9	136.5	27.6	44.7	113.4
SMDH 00007	813834.1	8193620.1	166.4	9	10	95	1147.5	612.9	80.5	528.4	410.4	7495.8	395.9	449.2	381.8	14.1	67.3	111.4	99.4	21.5	31.7	85.1
SMDH 00007	813834.1	8193620.1	166.4	10	11	90	1525.3	802.7	100.1	703.9	572.3	10452.7	516.8	580.1	500.4	16.4	79.7	140.7	130.9	27.6	35.7	112.8
SMDH 00006b	813894.9	8193619.3	166.1	0	1	65	1509.2	858.1	86.3	799.9	444.2	8113.0	553.2	612.6	536.2	17.0	76.4	156.4	145.9	19.9	39.5	121.3
SMDH 00006b	813894.9	8193619.3	166.1	1	2	55	1679.3	1064.5	119.5	823.1	333.0	6083.3	662.1	778.0	638.0	24.1	139.9	225.6	166.7	24.5	91.3	141.8
SMDH 00006b	813894.9	8193619.3	166.1	2	3	80	1447.2	782.6	97.0	511.8	582.3	10636.5	495.8	571.4	472.8	23.0	98.6	161.7	130.7	19.9	55.6	104.7
SMDH 00006b	813894.9	8193619.3	166.1	3	4	90	1363.2	733.2	85.4	602.1	507.0	9261.3	467.6	531.7	448.6	19.0	83.1	144.5	122.3	18.4	45.7	100.5
SMDH 00006b	813894.9	8193619.3	166.1	4	5	75	1199.3	693.5	80.7	728.8	275.5	5032.6	433.5	504.2	421.6	11.9	82.5	135.5	107.7	21.5	49.1	91.6
SMDH 00006b	813894.9	8193619.3	166.1	5	6	85	2278.1	1365.3	115.1	783.7	788.4	14400.1	892.0	969.3	870.3	21.8	99.0	232.6	227.3	26.1	51.2	198.9
SMDH 00006b	813894.9	8193619.3	166.1	6	7	90	2003.8	1063.0	107.9	762.8	848.9	15505.4	691.4	762.5	672.9	18.5	89.5	183.8	175.2	27.6	43.4	151.4
SMDH 00006b	813894.9	8193619.3	166.1	7	8	85	2097.5	1206.5	109.8	817.0	748.9	13679.6	786.5	861.8	764.7	21.7	97.1	211.2	199.8	24.5	50.8	172.8
SMDH 00006b	813894.9	8193619.3	166.1	8	9	70	1745.8	1153.4	120.6	763.2	327.1	5974.2	720.4	832.0	699.1	21.3	132.9	234.9	185.7	27.6	83.9	151.5
SMDH 00006b	813894.9	8193619.3	166.1	9	10	90	1970.9	1111.4	101.9	807.8	719.2	13137.0	724.6	795.4	704.6	20.0	90.8	195.6	184.2	23.0	47.9	159.9
SMDH 00006b	813894.9	8193619.3	166.1	10	11	90	2027.9	1189.1	109.3	797.2	683.5	12485.3	772.4	848.7	750.2	22.2	98.6	211.6	199.5	24.5	51.8	168.2
SMDH 00006b	813894.9	8193619.3	166.1	11	11.5	45	1957.6	1214.2	175.0	952.4	378.6	6915.9	763.3	901.4	740.8	22.5	160.6	238.1	191.5	53.7	84.4	161.1
SMDH 00006	813955.9	8193624.5	167.6	0	1	40	1620.0	921.2	102.2	835.9	473.6	8649.8	597.3	665.8	578.5	18.8	87.3	157.2	143.6	26.1	42.4	124.0
SMDH 00006	813955.9	8193624.5	167.6	1	2	60	1304.0	673.3	88.7	506.4	547.9	10007.8	431.7	486.6	419.7	12.0	67.0	113.8	109.1	27.6	27.3	95.5
SMDH 00006	813955.9	8193624.5	167.6	2	3	70	1932.5	1151.2	118.9	658.9	650.9	11888.2	749.1	833.6	726.0	23.1	107.5	216.5	196.1	26.1	58.4	178.4
SMDH 00006	813955.9	8193624.5	167.6	3	4	85	1533.0	839.1	85.7	581.5	608.4	11113.0	539.9	596.8	524.9	15.0	71.9	145.4	137.9	21.5	35.4	115.9
SMDH 00006	813955.9	8193624.5	167.6	4	5	70	1578.1	858.1	80.9	599.1	645.0	11781.9	559.5	609.0	547.1	12.4	61.9	139.1	139.9	21.5	28.1	121.6
SMDH 00006	813955.9	8193624.5	167.6	5	6	85	1789.0	861.4	128.5	828.1	769.8	14061.4	544.2	636.8	519.5	24.6	117.3	171.5	139.9	33.7	58.9	113.3

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00006	813955.9	8193624.5	167.6	6	7	90	1625.5	885.5	109.7	719.2	576.5	10530.3	564.6	642.1	543.6	21.0	98.5	164.2	142.5	27.6	49.9	120.4
SMDH 00006	813955.9	8193624.5	167.6	7	8	80	1596.8	861.7	101.5	756.7	563.9	10300.6	549.7	621.3	529.5	20.2	91.8	158.6	139.2	24.5	47.1	117.2
SMDH 00006	813955.9	8193624.5	167.6	8	9	90	1615.3	896.0	104.6	571.4	622.7	11374.3	579.0	647.6	560.8	18.2	86.8	162.9	151.3	27.6	41.0	124.0
SMDH 00006	813955.9	8193624.5	167.6	9	10	90	1470.8	797.3	87.5	630.0	553.9	10116.8	512.0	570.7	495.6	16.4	75.1	146.3	135.7	21.5	37.2	104.5
SMDH 00005b	814013.0	8193621.9	168.4	0	1	20	1739.1	951.4	86.2	1180.3	465.1	8494.8	622.1	677.4	605.6	16.5	71.8	139.8	133.2	19.9	35.3	111.4
SMDH 00005b	814013.0	8193621.9	168.4	1	2	25	1529.1	786.9	164.7	765.7	478.6	8741.7	518.9	607.4	506.7	12.3	100.7	124.7	125.1	62.9	25.5	106.5
SMDH 00005b	814013.0	8193621.9	168.4	2	3	65	1531.5	766.8	85.5	762.7	627.0	11451.8	499.0	547.6	488.2	10.8	59.5	128.1	131.5	26.1	22.6	108.0
SMDH 00005b	814013.0	8193621.9	168.4	3	4	90	1713.6	1006.9	95.9	720.8	547.4	9999.1	659.6	719.4	644.3	15.4	75.1	173.2	171.5	24.5	35.2	142.4
SMDH 00005b	814013.0	8193621.9	168.4	4	5	90	1757.2	960.1	106.8	785.3	632.3	11549.4	625.0	690.4	609.6	15.4	80.7	162.6	159.6	30.7	34.7	135.3
SMDH 00005b	814013.0	8193621.9	168.4	5	6	95	1649.8	888.4	96.5	788.5	594.1	10851.8	581.1	639.3	567.2	13.9	72.1	148.3	146.9	27.6	30.6	126.4
SMDH 00005	814079.7	8193625.4	168.6	0	1	50	1470.7	768.7	88.5	710.9	555.9	10154.2	500.9	553.5	488.5	12.4	65.0	127.8	126.7	26.1	26.5	104.5
SMDH 00005	814079.7	8193625.4	168.6	1	2	40	1557.2	584.0	168.3	1164.9	621.6	11354.2	382.9	472.0	375.7	7.2	96.3	90.7	90.7	70.6	18.5	84.6
SMDH 00005	814079.7	8193625.4	168.6	2	3	60	1825.4	948.0	99.6	857.6	725.0	13243.2	625.2	683.1	610.1	15.1	73.0	157.4	159.4	27.6	30.2	135.0
SMDH 00005	814079.7	8193625.4	168.6	3	4	65	1634.3	837.7	84.8	815.7	649.4	11862.3	548.7	600.3	535.5	13.2	64.8	139.4	138.6	23.0	28.6	119.3
SMDH 00005	814079.7	8193625.4	168.6	4	5	65	1788.7	895.4	93.2	831.1	769.8	14061.4	585.0	643.5	569.6	15.4	73.9	153.0	148.4	24.5	34.0	126.5
SMDH 00005	814079.7	8193625.4	168.6	5	6	80	1688.5	828.4	99.8	800.7	726.5	13269.0	537.3	601.8	519.9	17.5	81.9	149.9	139.1	26.1	38.4	113.9
SMDH 00005	814079.7	8193625.4	168.6	6	7	75	1531.5	784.1	89.3	746.1	604.0	11032.6	509.1	565.6	493.8	15.3	71.8	138.7	130.9	23.0	33.5	108.6
SMDH 00005	814079.7	8193625.4	168.6	7	8	85	1698.5	905.2	102.8	855.5	600.1	10960.9	588.2	652.7	571.8	16.4	80.8	159.4	152.5	27.6	36.8	124.4
SMDH 00005	814079.7	8193625.4	168.6	8	9	90	1618.3	870.9	102.5	851.7	536.0	9789.6	565.8	630.1	549.1	16.6	80.9	153.6	145.6	27.6	36.7	120.2
SMDH 00005	814079.7	8193625.4	168.6	9	10	92	1746.6	930.9	110.5	918.0	592.2	10817.3	602.6	673.2	584.3	18.3	88.8	166.2	154.8	29.1	41.4	127.2
SMDH 00004b	814131.7	8193625.1	168.2	0	1	40	1477.4	600.3	101.9	888.5	707.3	12918.8	389.0	448.3	376.8	12.2	71.4	100.4	93.5	33.7	25.5	80.5
SMDH 00004b	814131.7	8193625.1	168.2	1	2	45	1508.1	711.7	99.6	715.6	674.3	12315.9	465.2	524.3	452.0	13.2	72.3	116.2	109.8	30.7	28.4	99.6
SMDH 00004b	814131.7	8193625.1	168.2	2	3	90	1574.3	723.4	101.7	758.8	729.8	13329.3	471.8	530.0	459.5	12.3	70.5	116.6	113.3	32.2	26.0	101.9
SMDH 00004b	814131.7	8193625.1	168.2	3	4	85	1591.8	697.9	107.4	800.3	764.5	13963.8	451.9	515.2	438.2	13.6	77.0	119.4	112.1	33.7	29.6	101.6
SMDH 00004b	814131.7	8193625.1	168.2	4	5	85	1974.8	980.6	129.1	828.0	865.1	15801.1	645.4	724.3	622.0	23.4	102.3	184.8	168.6	30.7	48.3	135.3
SMDH 00004b	814131.7	8193625.1	168.2	5	6	80	1499.7	608.3	95.5	717.6	816.5	14914.0	398.7	456.1	385.3	13.3	70.8	112.6	101.9	27.6	29.8	85.4
SMDH 00004b	814131.7	8193625.1	168.2	6	7	60	1707.6	725.2	105.9	856.1	868.5	15864.3	472.4	534.7	458.4	14.0	76.3	124.0	117.8	32.2	30.1	102.2
SMDH 00004b	814131.7	8193625.1	168.2	7	8	65	1849.4	862.4	103.2	906.0	856.0	15634.6	555.5	618.9	539.8	15.7	79.1	145.6	139.9	29.1	34.3	120.2
SMDH 00004	814196.8	8193624.7	167.3	0	1	45	1601.6	543.5	76.5	1263.6	831.0	15178.1	351.0	395.4	341.3	9.6	54.1	87.8	84.7	24.5	19.9	69.9
SMDH 00004	814196.8	8193624.7	167.3	1	2	45	952.9	313.6	48.1	597.4	576.7	10533.1	205.7	233.8	199.8	5.8	34.0	54.2	51.3	15.3	12.8	46.6
SMDH 00004	814196.8	8193624.7	167.3	2	3	40	1072.9	443.7	46.0	507.7	606.7	11081.5	295.1	319.7	290.3	4.8	29.4	70.3	73.2	13.8	10.8	69.7
SMDH 00004	814196.8	8193624.7	167.3	3	4	60	1765.4	876.3	76.1	904.0	754.6	13782.9	578.9	621.4	568.6	10.2	52.8	133.4	141.3	21.5	21.1	132.9
SMDH 00004	814196.8	8193624.7	167.3	4	5	55	1752.8	883.1	77.3	793.7	776.1	14176.2	583.1	626.3	572.3	10.8	54.0	136.3	144.0	21.5	21.7	127.5
SMDH 00004	814196.8	8193624.7	167.3	5	6	75	1400.6	635.9	62.3	739.1	671.4	12264.2	421.3	455.1	413.5	7.8	41.6	99.1	104.4	18.4	15.4	94.3
SMDH 00004	814196.8	8193624.7	167.3	6	7	70	1148.1	456.5	45.3	625.2	643.3	11750.4	302.9	327.1	297.8	5.0	29.3	69.6	73.4	13.8	10.4	67.8
SMDH 00004	814196.8	8193624.7	167.3	7	8	85	1327.3	663.3	60.8	624.1	581.4	10619.2	441.4	471.8	435.1	6.4	36.7	101.5	111.7	18.4	11.9	99.2
SMDH 00003b	814252.8	8193621.9	166.1	0	1	60	1752.7	716.3	95.8	1487.3	667.8	12198.2	463.5	519.7	450.5	13.1	69.3	117.5	113.3	29.1	27.0	98.6
SMDH 00003b	814252.8	8193621.9	166.1	1	2	80	1989.7	1078.3	127.0	942.2	695.6	12706.3	694.8	777.7	671.2	23.6	106.5	198.2	182.2	30.7	52.2	159.4
SMDH 00003b	814252.8	8193621.9	166.1	2	3	85	1345.9	634.8	75.6	524.9	674.4	12318.8	419.7	463.0	410.6	9.1	52.4	104.2	104.3	23.0	20.3	100.3
SMDH 00003b	814252.8	8193621.9	166.1	3	4	65	1440.9	705.0	90.1	591.8	658.1	12020.2	457.6	512.6	444.2	13.4	68.4	118.8	112.1	26.1	29.0	99.7
SMDH 00003b	814252.8	8193621.9	166.1	4	5	70	1661.2	762.5	118.5	756.5	775.6	14167.6	486.3	564.8	465.4	21.0	99.4	144.2	121.7	32.2	46.2	100.7
SMDH 00003b	814252.8	8193621.9	166.1	5	6	88	1558.4	729.2	122.2	669.9	710.3	12973.3	456.3	544.5	431.7	24.6	112.8	152.0	116.5	30.7	57.5	94.8
SMDH 00003b	814252.8	8193621.9	166.1	6	7	75	1552.7	735.6	109.0	673.3	710.3	12973.3	470.8	543.1	451.2	19.6	91.9	138.1	118.0	29.1	43.2	99.0
SMDH 00003b	814252.8	8193621.9	166.1	7	8	70	1149.5	659.4	57.2	345.8	464.8	8489.1	433.8	466.9	424.8	9.0	42.1	104.6	105.9	13.8	19.3	96.1
SMDH 00003b	814252.8	8193621.9	166.1	8	9	85	1241.1	530.9	59.0	601.7	661.2	12077.6	351.4	383.2	345.2	6.3	38.0	81.6	84.7	18.4	13.3	78.7
SMDH 00003	814316.9	8193617.8	164.8	0	1	45	1233.9	615.5	49.6	984.5	364.2	6651.7	395.6	427.6	385.6	10.0	41.9	98.2	96.9	10.7	21.2	80.1
SMDH 00003	814316.9	8193617.8	164.8	1	2	50	1776.5	988.1	85.1	701.2	690.3	12608.7	655.0	706.4	640.6	14.3	65.8	164.1	166.2	19.9	31.5	150.9
SMDH 00003	814316.9	8193617.8	164.8	2	3	55	1365.2	711.6	94.4	443.7	601.8	10992.5	459.7	521.2	441.6	18.1	79.6	129.8	115.6	24.5	37.0	99.0
SMDH 00003	814316.9	8193617.8	164.8	3	4	50	1413.8	722.1	87.7	474.9	652.1	11911.1	466.1	522.5	450.2	15.8	72.2	128.1	118.3	23.0	33.4	98.7
SMDH 00003	814316.9	8193617.8	164.8	4	5	35	1277.4	689.4	91.0	430.5	518.0	9462.3	442.0	502.8	424.2	17.8	78.6	127.4	111.3	23.0	37.8	91.8
SMDH 00003	814316.9	8193617.8	164.8	5	6	50	1329.9	676.9	98.4	488.1	574.5	10492.9	432.6	499.4	413.9	18.7	85.5	128.6	109.1	26.1	40.8	89.8
SMDH 00003	814316.9	8193617.8	164.8	6	7	75	1285.7	646.1	96.8	486.9	558.0	10191.5	408.8	479.2	389.3	19.5	89.9	129.0	102.7	24.5	45.8	85.4
SMDH 00003	814316.9	8193617.8	164.8	7	8	65	1118.9	561.2	94.7	441.7	463.7	8469.0	346.5	421.9	323.8	22.7	98.1	125.8	87.7	21.5	54.0	71.0
SMDH 00003	814316.9	8193617.8	164.8	8	8.5	45	1364.3	708.5	104.0	480.9	573.7	10478.6	446.4	524.0	423.2	23.1	100.8	144.3	112.3	24.5	53.1	91.9
SMDH 00002b	814371.1	8193619.7	163.5	0	1	45	1653.7	867.1	77.8	976.0	570.5	10421.2	568.7	618.4	553.2	15.5	65.2	145.1	139.6	16.9	32.9	121.3
SMDH 00002b	814371.1	8193619.7	163.5	1	2	50	1494.7	707.3	79.2	653.1	719.9	13148.5	459.7	509.8	446.7	13.0	63.1	118.1	110.8	21.5	28.7	98.2
SMDH 00002b	814371.1	8193619.7	163.5	2	3	90	870.8	206.7	41.2	577.0	631.8	11540.8	136.8	160.6	132.6	4.2	28.0	39.2	35.0	13.8	9.9	34.5
SMDH 00002b	814371.1	8193619.7	163.5	3	4	85	1654.1	1041.8	61.1	445.6	589.4	10765.7	699.3	729.7	690.8	8.5	38.9	153.7	171.6	13.8	16.6	159.0
SMDH 00002b	814371.1	8193619.7	163.5	4	5	80	450.7	10.9	5.2	18.9	619.3	11311.1	9.2	10.3	7.2	2.0	3.1	2.4	2.0	0.8	0.3	1.6
SMDH 00002b	814371.1	8193619.7	163.5	5	6	90	1317.7	599.7	58.7	428.8	753.3	13759.9	396.8	425.5	391.8	5.0	33.7	85.1	96.6	19.9	8.8	90.2
SMDH 00002b	814371.1	8193619.7	163.5	6	7	95	1082.9	534.7	57.1	275.4	581.4	10619.2	353.4	383.7	347.4	6.0	36.4	79.4	85.1	18.4	11.9	80.0
SMDH 00002b	814371.1	8193619.7	163.5	7	7.5	50	649.4	223.8	70.0	432.7	312.8	5713.0	146.8	182.9	143.7	3.0	39.2	37.0	36.6	29.1	7.0	33.1
SMDH 00002	814436.0	8193623.8	162.5	0	1	40	1339.6	766.9	73.4	530.8	474.7	8669.9	496.6	543.9	482.4	14.2	61.4	127.5	122.7	16.9	30.4	104.3
SMDH 00002	814436.0	8193623.8	162.5	1	2	70	926.2	380.5	51.6	386.0	534.4	9760.9	247.3	278.5	240.3	6.9	38.1	65.0	60.7	15.3	15.9	53.4
SMDH 00002	814436.0	8193623.8	162.5	2	3	65	485.2	67.5	28.4	246.7	447.8	8179.0	46.3	61.1	44.0	2.3	17.1	14.3	11.4	10.7	4.1	11.7
SMDH 00002	814436.0	8193623.8	162.5	3	4	80	795.6	343.8	44.8	274.5	460.5	8411.6	226.3	251.5	220.7	5.6	30.8	54.9	54.3	13.8	11.4	50.3
SMDH 00002	814436.0	8193623.8	162.5	4	5	90	1382.8	719.5	94.2	396.6	638.1	11655.6	465.7	526.4	448.8	17.0	77.6	125.5	114.6	26.1	34.5	102.9
SMDH 00002	814436.0	8193623.8	162.5	5	6	90	1559.0	715.5	92.3	797.4	714.8	13056.6	462.1	522.1	445.1	17.1	77.0	124.1	111.2	24.5	35.4	97.2
SMDH 00002	814436.0	8193623.8	162.5	6	7	95	819.5	109.7	42.7	614.2	678.5	12393.4	72.3	95.3	69.3	3.0	26.0	20.2	16.3	16.9	6.1	16.1
SMDH 00002	814436.0	8193623.8	162.5	7	8	98	1341.0	522.9	78.3	834.1	681.2	12442.2	336.7	388.8	324.1	12.6	64.7	92.5	79.0	23.0	29.1	72.6
SMDH 00002	814436.0	8193623.8	162.5	8	9	98	1569.6	362.9	59.6	1194.4	1102.3	20133.2	234.8	271.5	228.0	6.8	43.5	60.7	54.3	19.9	16.8	52.1

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00002	814436.0	8193623.8	162.5	9	10	90	1749.7	1002.4	81.4	517.3	721.7	13182.9	654.0	706.5	640.0	14.0	66.5	155.9	155.3	19.9	32.5	143.4
SMDH 00002	814436.0	8193623.8	162.5	10	11	95	2010.4	1177.8	136.6	538.3	755.4	13797.3	755.0	850.3	727.2	27.8	123.2	209.2	184.6	33.7	61.6	158.3
SMDH 00002	814436.0	8193623.8	162.5	11	12	98	1729.2	857.4	121.4	761.8	730.2	13337.9	551.4	632.4	528.8	22.6	103.5	155.6	133.1	32.2	48.8	115.5
SMDH 00002	814436.0	8193623.8	162.5	12	13	95	1776.4	912.1	117.4	781.1	716.2	13082.4	591.0	666.6	569.1	21.9	97.5	158.6	142.1	30.7	45.0	124.4
SMDH 00002	814436.0	8193623.8	162.5	13	14	90	1607.8	778.5	97.4	801.1	685.3	12516.9	504.9	568.2	485.6	19.2	82.5	139.3	124.7	24.5	38.7	106.7
SMDH 00001b	814495.3	8193621.3	161.6	0	1	65	1836.3	754.0	91.8	1144.4	899.2	16424.1	489.2	548.4	473.8	15.4	74.6	132.9	121.8	24.5	34.7	103.9
SMDH 00001b	814495.3	8193621.3	161.6	1	2	50	1084.1	273.6	64.3	203.3	983.7	17968.6	175.9	218.7	167.3	8.6	51.4	64.0	49.0	19.9	22.9	50.8
SMDH 00001b	814495.3	8193621.3	161.6	2	3	60	1177.7	212.3	62.2	298.0	1166.7	21310.3	139.3	176.9	132.2	7.0	44.6	46.6	36.2	21.5	16.1	30.8
SMDH 00001b	814495.3	8193621.3	161.6	3	4	70	2243.7	282.0	118.6	340.2	2505.0	45755.5	186.1	259.1	171.5	14.6	87.6	78.4	51.2	39.9	33.1	30.1
SMDH 00001b	814495.3	8193621.3	161.6	4	5	60	2290.8	325.4	113.3	374.5	2502.2	45703.8	212.1	284.5	196.5	15.6	88.0	82.8	54.8	36.8	35.6	34.8
SMDH 00001b	814495.3	8193621.3	161.6	5	6	75	1878.2	655.2	130.6	679.9	1262.4	23058.6	418.1	508.6	395.1	23.0	113.6	134.6	100.8	38.3	52.2	86.3
SMDH 00001b	814495.3	8193621.3	161.6	6	7	70	1146.6	491.0	80.2	481.1	607.9	11104.4	318.8	370.3	306.8	12.0	63.5	89.7	77.6	24.5	26.9	69.4
SMDH 00001b	814495.3	8193621.3	161.6	7	8	85	1538.1	538.9	99.9	694.5	976.5	17836.5	349.2	412.6	333.7	15.5	78.9	102.7	86.2	30.7	32.8	75.6
SMDH 00001b	814495.3	8193621.3	161.6	8	9	90	1781.5	569.6	121.6	641.7	1277.2	23328.5	366.0	446.1	346.0	19.9	100.0	118.6	92.1	36.8	43.3	76.6
SMDH 00001b	814495.3	8193621.3	161.6	9	9.5	80	1161.8	412.6	86.9	595.9	680.1	12422.1	266.9	323.1	254.0	12.9	69.1	82.4	65.2	27.6	28.6	59.2
SMDH 00001	814555.8	8193622.1	161.8	0	1	40	1498.4	596.5	178.7	1132.1	518.8	9476.7	380.4	479.6	369.1	11.2	110.5	103.4	94.7	72.1	27.2	85.3
SMDH 00001	814555.8	8193622.1	161.8	1	2	55	1772.8	842.1	93.5	1049.0	722.2	13191.5	549.5	609.4	532.3	17.2	77.0	145.2	135.2	23.0	36.8	114.3
SMDH 00001	814555.8	8193622.1	161.8	2	3	60	1426.3	662.5	77.2	927.7	560.9	10246.0	433.5	479.6	421.5	12.0	58.2	109.1	105.7	21.5	24.6	89.3
SMDH 00001	814555.8	8193622.1	161.8	3	4	50	1309.4	604.4	104.5	550.7	611.7	11173.3	394.8	456.5	382.9	11.9	73.6	104.9	97.6	35.3	26.4	90.0
SMDH 00001	814555.8	8193622.1	161.8	4	5	90	1236.4	441.3	114.3	512.6	745.5	13616.4	288.2	352.2	277.8	10.3	74.3	77.5	70.0	42.9	21.1	65.8
SMDH 00001	814555.8	8193622.1	161.8	5	6	85	1182.9	396.5	109.5	566.0	715.0	13059.5	259.1	321.0	249.2	9.9	71.8	71.9	63.3	41.4	20.6	58.6
SMDH 00001	814555.8	8193622.1	161.8	6	7	80	1097.2	457.2	83.0	448.7	596.2	10889.1	300.6	347.5	292.2	8.4	55.3	76.9	73.3	29.1	17.8	66.8
SMDH 00001	814555.8	8193622.1	161.8	7	8	95	1303.0	563.9	90.9	617.5	649.6	11865.2	370.9	422.9	360.7	10.2	62.2	95.2	91.9	30.7	21.3	80.6
SMDH 00001	814555.8	8193622.1	161.8	8	9	85	1432.8	744.3	81.4	618.9	589.4	10765.7	492.6	540.6	480.8	11.8	59.8	124.3	124.4	23.0	25.0	110.2
SMDH 00001	814555.8	8193622.1	161.8	9	10	90	1351.2	630.5	85.1	669.6	607.2	11090.1	414.0	463.1	402.7	11.4	60.4	106.0	103.4	26.1	23.0	86.7
SMDH 00001	814555.8	8193622.1	161.8	10	11	60	1287.4	574.3	73.1	579.8	655.1	11965.7	377.9	420.3	367.6	10.3	52.7	97.1	94.6	21.5	21.0	80.2
SMDH 00001	814555.8	8193622.1	161.8	11	12	65	1478.3	699.8	82.8	732.7	664.7	12140.8	460.4	507.8	449.0	11.4	58.8	114.7	115.2	24.5	22.9	97.7
SMDH 00001	814555.8	8193622.1	161.8	12	13	75	1388.2	741.1	58.8	478.4	627.7	11466.1	494.4	523.8	487.9	6.5	35.9	109.1	121.2	16.9	12.6	110.9
SMDH 00001	814555.8	8193622.1	161.8	13	14	70	1201.1	576.6	60.6	447.0	607.2	11090.1	381.0	414.0	373.8	7.2	40.2	91.1	95.6	18.4	14.6	83.2
SMDH 00205	814496.8	8193504.0	162.1	0	1	45	1430.6	738.0	126.9	828.5	432.4	7897.7	483.2	555.3	467.0	16.2	88.3	126.5	119.9	41.4	30.7	99.3
SMDH 00205	814496.8	8193504.0	162.1	1	2	50	1659.1	790.6	89.9	834.9	737.0	13461.4	517.3	572.1	503.5	13.9	68.6	133.4	128.8	24.5	30.2	120.6
SMDH 00205	814496.8	8193504.0	162.1	2	3	50	1358.2	332.0	58.1	1125.1	875.8	15996.3	220.0	250.6	215.4	4.6	35.2	51.2	52.1	21.5	9.1	50.5
SMDH 00205	814496.8	8193504.0	162.1	3	4	60	741.2	114.3	40.2	615.1	561.7	10260.4	77.2	98.4	74.3	2.9	24.1	21.5	18.0	15.3	5.8	19.0
SMDH 00205	814496.8	8193504.0	162.1	4	5	40	342.5	39.1	54.3	304.8	218.2	3984.7	26.4	53.6	24.4	2.0	29.2	8.1	6.1	24.5	2.7	6.9
SMDH 00205	814496.8	8193504.0	162.1	5	6	45	915.6	350.3	47.1	516.1	508.9	9295.8	229.4	255.0	224.5	4.9	30.6	55.0	54.9	15.3	10.3	52.0
SMDH 00205	814496.8	8193504.0	162.1	6	7	70	1602.3	764.9	100.7	883.7	653.8	11942.7	497.1	558.3	480.0	17.1	78.2	129.4	119.4	27.6	33.5	106.3
SMDH 00205	814496.8	8193504.0	162.1	7	8	75	1500.1	674.4	94.8	745.1	709.8	12964.7	438.4	497.0	422.5	15.9	74.5	118.6	107.2	26.1	32.5	95.5
SMDH 00205	814496.8	8193504.0	162.1	8	9	80	1761.5	804.4	107.6	893.0	812.4	14839.4	523.6	589.8	505.2	18.3	84.6	139.6	127.7	29.1	37.1	114.5
SMDH 00205	814496.8	8193504.0	162.1	9	10	80	1981.3	924.5	103.4	1021.4	902.6	16487.2	604.4	667.6	586.1	18.3	81.4	158.7	151.8	26.1	37.1	127.0
SMDH 00205	814496.8	8193504.0	162.1	10	11	90	1789.8	794.1	98.2	959.6	850.8	15539.9	514.2	578.6	495.9	18.3	82.8	142.4	128.0	24.5	39.9	108.0
SMDH 00205	814496.8	8193504.0	162.1	11	12	40	1664.5	773.9	101.3	883.4	729.8	13329.3	495.5	566.4	473.8	21.8	92.7	148.4	124.9	23.0	47.9	102.0
SMDH 00205	814496.8	8193504.0	162.1	12	13	60	1467.5	665.6	89.4	729.7	690.3	12608.7	427.7	488.9	409.9	17.8	79.1	127.1	107.9	21.5	39.7	88.1
SMDH 00205	814496.8	8193504.0	162.1	13	14	55	1484.6	684.7	91.9	705.4	695.0	12694.9	441.5	503.6	422.5	19.0	81.1	130.7	111.1	21.5	40.6	90.9
SMDH 00205	814496.8	8193504.0	162.1	14	15	90	1582.3	695.4	101.9	779.1	772.2	14104.4	448.9	516.5	429.5	19.4	87.0	133.9	114.2	26.1	41.5	92.2
SMDH 00205	814496.8	8193504.0	162.1	15	16	90	2049.7	578.0	144.6	657.5	1612.0	29443.4	373.3	463.7	352.2	21.1	111.5	123.5	96.2	46.0	44.4	73.7
SMDH 00205b	814436.9	8193509.1	163.1	0	1	40	1564.6	715.8	80.0	871.0	706.0	12895.8	463.4	510.3	450.6	12.9	59.7	115.0	112.4	21.5	25.4	87.6
SMDH 00205b	814436.9	8193509.1	163.1	1	2	50	1388.5	678.6	90.7	700.2	569.3	10398.2	441.5	497.9	426.2	15.3	71.7	120.3	110.2	24.5	31.9	100.4
SMDH 00205b	814436.9	8193509.1	163.1	2	3	60	1355.7	635.6	89.0	700.5	586.4	10711.1	408.8	467.3	392.4	16.4	74.9	119.2	103.5	23.0	35.4	88.4
SMDH 00205b	814436.9	8193509.1	163.1	3	4	60	1147.2	539.5	80.1	577.5	494.0	9023.1	347.2	399.5	334.1	13.2	65.4	97.9	85.8	23.0	29.2	76.8
SMDH 00205b	814436.9	8193509.1	163.1	4	5	60	1227.4	585.4	70.0	573.6	560.0	10228.8	381.6	423.3	370.9	10.8	52.4	95.6	92.3	19.9	21.7	85.6
SMDH 00205b	814436.9	8193509.1	163.1	5	6	80	1625.0	685.6	116.1	888.7	776.6	14184.8	433.8	510.1	413.4	20.4	96.7	135.7	112.0	32.2	44.1	94.8
SMDH 00205b	814436.9	8193509.1	163.1	6	7	90	1421.5	564.3	65.2	789.7	777.2	14196.3	368.0	403.4	360.3	7.6	43.1	87.6	90.0	19.9	15.5	82.1
SMDH 00205b	814436.9	8193509.1	163.1	7	8	90	1164.5	328.3	58.8	896.3	706.6	12907.3	216.7	248.0	211.7	4.9	36.3	52.0	51.9	21.5	9.9	50.4
SMDH 00205b	814436.9	8193509.1	163.1	8	9	60	1935.6	809.2	88.6	1094.9	990.7	18094.9	526.9	573.8	516.2	10.7	57.6	125.7	130.9	26.1	20.8	114.1
SMDH 00205b	814436.9	8193509.1	163.1	9	9.8	65	3320.3	1148.0	137.7	2140.4	1945.0	35526.7	747.7	822.1	731.1	16.7	91.1	185.0	190.4	41.4	33.0	159.0
SMDH 00206	814379.5	8193503.9	164.1	0	1	40	1068.4	576.1	82.8	766.0	235.6	4303.4	369.3	422.4	357.2	12.0	65.2	105.8	96.3	24.5	28.6	76.8
SMDH 00206	814379.5	8193503.9	164.1	1	2	40	1168.5	617.2	85.5	467.5	455.6	8322.6	388.1	450.1	370.6	17.5	79.5	124.6	102.0	19.9	42.0	85.4
SMDH 00206	814379.5	8193503.9	164.1	2	3	55	1283.5	599.9	89.6	619.4	570.5	10421.2	375.5	439.1	358.7	16.8	80.4	118.9	96.4	23.0	40.6	77.6
SMDH 00206	814379.5	8193503.9	164.1	3	4	75	1235.6	632.8	94.5	547.7	479.8	8764.7	394.4	462.9	375.2	19.2	87.7	129.4	103.1	23.0	45.5	80.2
SMDH 00206	814379.5	8193503.9	164.1	4	5	80	1338.8	672.7	87.0	515.1	597.3	10909.2	431.2	487.1	416.7	14.5	70.4	121.9	110.0	23.0	32.9	90.2
SMDH 00206	814379.5	8193503.9	164.1	5	6	95	1270.2	592.9	64.3	579.2	616.4	11259.4	388.7	422.9	380.5	8.2	42.4	97.1	100.4	18.4	15.9	82.4
SMDH 00206	814379.5	8193503.9	164.1	6	7	90	1320.5	672.8	89.6	554.2	548.8	10025.0	431.9	487.6	417.7	14.2	69.9	121.8	112.0	24.5	31.1	89.1
SMDH 00206	814379.5	8193503.9	164.1	7	8	80	1206.8	561.3	85.4	568.8	544.9	9953.2	351.4	412.6	334.7	16.7	77.9	113.2	90.5	21.5	39.7	72.6
SMDH 00206	814379.5	8193503.9	164.1	8	9	90	1288.6	569.0	93.8	544.7	651.0	11891.0	354.9	423.4	335.5	19.4	87.8	113.0	84.6	23.0	45.5	74.6
SMDH 00206b	814314.0	8193504.4	164.6	0	1	30	1528.9	768.7	71.6	1088.8	488.8	8928.3	499.7	543.4	486.9	12.8	56.5	118.5	116.8	16.9	26.8	107.5
SMDH 00206b	814314.0	8193504.4	164.6	1	2	50	1540.0	797.9	110.0	628.4	621.1	11345.6	513.1	588.3	491.1	22.0	97.2	152.8	127.5	24.5	50.7	120.8
SMDH 00206b	814314.0	8193504.4	164.6	2	3	65	1600.4	793.1	96.1	718.4	693.8	12671.9	507.2	569.5	489.9	17.3	79.6	138.7	125.4	23.0	39.2	103.9
SMDH 00206b	814314.0	8193504.4	164.6	3	4	60	1677.6	868.4	100.1	695.1	701.5	12812.6	561.5	622.5	545.2	16.3	77.3	144.1	136.5	26.1	34.9	116.6
SMDH 00206b	814314.0	8193504.4	164.6	4	5	80	1548.2	766.5	88.6	623.2	711.8	13002.0	495.0	546.2	481.1	13.9	65.1	122.0	119.0	23.0	28.2	102.3
SMDH 00206b	814314.0	8193504.4	164.6	5	6	75	1533.5	762.3	90.4	691.8	662.0	12092.0	494.2	545.2	477.4	16.7	67.8	133.0	129.4	21.5	29.6	103.0
SMDH 00206b	814314.0	8193504.4	164.6	6	7	80	1651.4	816.6	98.2	719.6	729.9	13332.2	530.8	589.4	512.9	17.9	76.5	143.7	138.7	24.5	34.0	109.5

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00206b	814314.0	8193504.4	164.6	7	8	85	1912.7	964.4	98.8	948.7	786.5	14365.7	622.0	680.2	607.8	14.2	72.4	160.0	160.4	26.1	32.1	129.2
SMDH 00206b	814314.0	8193504.4	164.6	8	9	90	1533.6	751.8	75.6	746.6	673.3	12298.7	495.8	536.5	487.0	8.8	49.4	118.5	127.5	21.5	19.2	110.0
SMDH 00206b	814314.0	8193504.4	164.6	9	10	80	1631.6	868.9	89.8	566.2	709.2	12953.2	571.4	620.2	559.2	12.2	61.0	145.3	152.6	24.5	24.3	121.5
SMDH 00206b	814314.0	8193504.4	164.6	10	11	90	1696.6	886.2	93.4	719.4	701.6	12815.4	590.7	644.3	575.3	15.4	69.0	155.6	157.0	23.0	30.6	123.5
SMDH 00206b	814314.0	8193504.4	164.6	11	12	90	1814.8	888.6	100.6	922.9	763.9	13952.3	580.0	638.2	561.4	18.5	76.7	150.5	149.0	24.5	33.7	122.1
SMDH 00207	814258.7	8193503.5	165.1	0	1	50	1331.5	490.4	58.3	736.8	788.7	14405.9	307.7	343.5	300.2	7.5	43.2	67.6	64.0	16.9	18.9	61.0
SMDH 00207	814258.7	8193503.5	165.1	1	2	65	1430.9	771.5	86.9	459.7	613.6	11207.8	495.6	549.2	483.0	12.6	66.2	129.9	124.0	21.5	32.1	113.1
SMDH 00207	814258.7	8193503.5	165.1	2	3	55	1523.1	727.0	91.0	742.2	673.8	12307.3	450.8	516.0	434.3	16.5	81.7	134.7	113.5	21.5	43.7	102.9
SMDH 00207	814258.7	8193503.5	165.1	3	4	70	1954.0	1044.5	106.2	885.8	749.1	13682.4	663.3	748.5	638.6	24.7	109.9	177.3	147.2	21.5	63.7	131.2
SMDH 00207	814258.7	8193503.5	165.1	4	5	60	1414.5	629.5	75.1	793.4	657.0	12000.1	391.1	443.9	379.3	11.8	64.6	112.8	99.5	18.4	34.4	83.6
SMDH 00207	814258.7	8193503.5	165.1	5	6	85	1602.5	719.6	86.7	831.4	764.2	13958.0	449.5	508.8	434.1	15.5	74.8	128.6	113.5	19.9	39.4	97.9
SMDH 00207	814258.7	8193503.5	165.1	6	7	75	2016.9	892.1	95.8	1198.4	929.8	16983.9	564.1	623.0	549.0	15.0	74.0	154.0	150.0	24.5	34.4	124.9
SMDH 00207	814258.7	8193503.5	165.1	7	8	60	1688.2	850.8	90.9	789.9	711.5	12996.3	556.3	614.3	538.6	17.8	75.7	148.9	141.0	19.9	38.0	121.7
SMDH 00207	814258.7	8193503.5	165.1	8	9	80	1471.3	766.9	81.3	500.5	667.7	12195.3	532.3	575.8	522.0	10.3	53.8	128.7	137.8	21.5	22.0	114.7
SMDH 00207	814258.7	8193503.5	165.1	9	10	90	1496.8	755.3	88.7	645.6	643.2	11747.5	516.9	570.7	503.4	13.5	67.2	127.6	128.3	24.5	29.2	103.8
SMDH 00207	814258.7	8193503.5	165.1	10	10.5	40	638.7	264.6	41.4	474.0	260.3	4754.1	176.0	197.7	172.3	3.8	25.5	43.1	42.3	13.8	7.9	37.5
SMDH 00207b	814199.0	8193505.2	165.2	0	1	45	1469.3	642.9	94.4	1265.0	469.6	8578.1	425.9	486.0	411.1	14.8	74.9	124.4	116.9	26.1	34.0	94.6
SMDH 00207b	814199.0	8193505.2	165.2	1	2	15	3089.9	652.9	87.8	822.7	3012.1	55016.8	444.8	494.3	434.6	10.2	59.7	118.5	125.8	27.6	21.8	91.2
SMDH 00207b	814199.0	8193505.2	165.2	2	3	45	1491.8	810.6	102.3	525.6	592.2	10817.3	551.3	615.2	536.9	14.3	78.3	152.6	147.1	29.1	34.8	124.8
SMDH 00207b	814199.0	8193505.2	165.2	3	4	95	1865.6	1195.6	95.1	549.5	575.3	10507.3	830.7	886.1	818.5	12.2	67.6	196.8	212.9	27.6	27.8	195.7
SMDH 00207b	814199.0	8193505.2	165.2	4	5	87	1558.3	569.4	95.3	566.5	1027.9	18775.3	380.8	439.5	366.6	14.2	72.9	113.0	101.5	26.1	32.6	80.6
SMDH 00207b	814199.0	8193505.2	165.2	5	6	45	2043.2	377.3	109.7	520.2	2006.8	36654.9	228.3	309.5	207.6	20.7	101.9	106.7	67.1	29.1	52.1	49.4
SMDH 00207b	814199.0	8193505.2	165.2	6	7	50	1382.8	737.2	106.9	401.3	591.9	10811.6	505.1	571.7	486.7	18.4	85.0	138.6	125.9	29.1	37.5	106.8
SMDH 00208	814141.1	8193501.4	166.0	0	1	55	1455.0	701.0	85.5	926.5	535.2	9775.2	434.8	497.0	420.8	14.0	76.2	124.6	104.8	21.5	40.8	93.6
SMDH 00208	814141.1	8193501.4	166.0	1	2	60	1312.8	709.7	82.1	375.9	578.2	10561.8	461.9	521.5	446.1	15.8	75.4	132.7	111.6	16.9	42.7	100.0
SMDH 00208	814141.1	8193501.4	166.0	2	3	95	1811.3	862.2	100.8	944.6	786.5	14365.7	537.9	608.5	523.0	14.9	85.4	147.3	132.5	27.6	42.9	121.7
SMDH 00208	814141.1	8193501.4	166.0	3	4	70	2031.3	1015.7	116.2	1059.8	807.1	14741.8	630.6	710.4	612.4	18.2	98.0	174.2	154.3	30.7	49.1	149.6
SMDH 00208	814141.1	8193501.4	166.0	4	5	90	1621.5	753.1	85.6	897.0	714.2	13045.1	480.8	540.1	465.7	15.1	74.5	136.7	124.2	21.5	37.8	104.7
SMDH 00208	814141.1	8193501.4	166.0	5	6	50	1085.1	435.1	68.7	699.9	514.6	9399.1	272.8	321.2	262.0	10.9	59.3	80.0	65.1	19.9	28.4	61.7
SMDH 00208	814141.1	8193501.4	166.0	6	7	70	1470.6	764.4	91.0	747.4	541.5	9890.1	499.6	558.8	484.8	14.8	74.0	133.5	123.9	24.5	34.7	109.7
SMDH 00208	814141.1	8193501.4	166.0	7	8	85	1537.7	792.2	96.7	769.0	580.0	10593.4	512.9	579.4	496.5	16.4	82.9	140.1	125.0	26.1	40.4	109.9
SMDH 00208	814141.1	8193501.4	166.0	8	8.5	45	1353.8	671.1	94.9	583.0	578.4	10564.7	436.3	499.0	418.8	17.6	80.2	122.6	107.0	24.5	38.1	91.6
SMDH 00208b	814076.2	8193501.8	166.7	0	1	45	1284.6	615.5	71.3	870.0	459.4	8391.5	393.4	441.1	384.0	9.4	57.0	102.4	94.5	21.5	26.2	87.3
SMDH 00208b	814076.2	8193501.8	166.7	1	2	55	1496.0	762.1	70.8	578.6	689.2	12588.6	490.5	546.2	477.4	13.1	68.8	127.3	112.7	16.9	38.9	107.4
SMDH 00208b	814076.2	8193501.8	166.7	2	3	65	1824.3	1021.7	122.7	821.0	600.9	10975.2	647.6	750.8	618.5	29.1	132.3	211.5	164.4	24.5	78.6	133.9
SMDH 00208b	814076.2	8193501.8	166.7	3	4	70	1523.8	787.4	102.2	765.2	560.6	10240.3	505.5	579.8	483.2	22.3	96.6	149.0	123.4	23.0	51.3	103.1
SMDH 00208b	814076.2	8193501.8	166.7	4	5	65	1636.6	871.7	90.8	688.6	653.8	11942.7	562.7	625.7	544.4	18.4	81.3	155.6	141.1	19.9	43.0	117.0
SMDH 00208b	814076.2	8193501.8	166.7	5	6	90	1472.2	702.3	77.2	902.3	581.5	10622.1	449.2	502.6	434.7	14.5	67.9	124.5	112.6	18.4	35.0	99.6
SMDH 00208b	814076.2	8193501.8	166.7	6	7	90	1505.8	753.4	85.8	895.8	546.8	9987.7	491.1	556.4	470.0	21.1	86.3	146.1	121.4	15.3	49.9	104.1
SMDH 00209	814018.8	8193501.8	166.5	0	1	40	3740.3	2380.9	170.8	2967.1	338.2	6178.1	1537.5	1656.3	1496.4	41.2	160.0	407.9	397.9	27.6	91.2	309.4
SMDH 00209	814018.8	8193501.8	166.5	1	2	55	1774.3	605.9	89.1	1791.5	726.9	13277.6	392.4	451.9	379.1	13.3	72.8	106.1	91.0	26.1	33.4	88.8
SMDH 00209	814018.8	8193501.8	166.5	2	3	90	1412.6	255.6	59.1	2406.6	467.7	8543.6	161.8	201.9	152.9	8.9	49.0	53.2	39.2	18.4	21.7	36.8
SMDH 00209	814018.8	8193501.8	166.5	3	4	80	1291.3	240.0	50.1	2215.0	417.1	7619.2	151.1	183.2	145.7	5.4	37.5	40.2	31.9	16.9	15.2	36.7
SMDH 00209	814018.8	8193501.8	166.5	4	5	60	1395.6	332.5	69.3	1688.7	650.9	11888.2	220.6	256.8	216.2	4.4	40.6	51.5	52.8	26.1	10.2	50.9
SMDH 00209	814018.8	8193501.8	166.5	5	6	80	1795.6	832.9	94.8	971.6	802.4	14655.7	541.8	600.4	524.4	17.4	75.9	134.4	129.4	24.5	34.0	122.2
SMDH 00209	814018.8	8193501.8	166.5	6	7	98	2714.8	1154.9	121.0	2743.1	803.9	14684.4	752.4	829.9	724.6	27.9	105.4	205.7	191.0	24.5	53.0	166.0
SMDH 00209	814018.8	8193501.8	166.5	7	8	95	2401.2	949.3	113.1	2463.3	789.5	14420.2	589.9	664.9	568.3	21.5	96.5	161.8	146.9	29.1	45.8	133.2
SMDH 00209	814018.8	8193501.8	166.5	8	9	95	2249.8	1034.9	105.7	1794.9	768.4	14035.5	676.6	741.9	655.8	20.8	86.1	183.6	176.0	23.0	42.3	146.7
SMDH 00209	814018.8	8193501.8	166.5	9	10	92	3171.9	1409.3	108.0	2214.6	1361.3	24864.4	937.2	1007.5	918.5	18.7	89.0	245.3	250.3	27.6	42.7	175.8
SMDH 00209	814018.8	8193501.8	166.5	10	11	88	1942.4	739.3	110.0	1612.7	829.7	15155.2	468.1	548.3	442.9	25.2	105.4	147.4	115.2	24.5	55.6	106.1
SMDH 00209	814018.8	8193501.8	166.5	11	12	90	1655.3	696.9	104.6	1028.6	755.5	13800.1	452.8	526.4	427.6	25.2	98.8	138.1	108.9	23.0	50.5	100.0
SMDH 00209	814018.8	8193501.8	166.5	12	13	95	2094.4	974.5	104.1	728.8	1129.0	20621.3	627.0	698.8	604.5	22.5	94.2	169.7	156.1	24.5	47.2	134.9
SMDH 00209	814018.8	8193501.8	166.5	13	14	50	1853.7	902.6	88.0	785.2	882.2	16114.0	570.0	636.7	555.7	14.2	80.9	152.1	136.6	23.0	43.7	136.7
SMDH 00209	814018.8	8193501.8	166.5	14	15	90	2113.8	1010.8	105.6	933.3	1007.3	18399.2	631.5	709.0	614.1	17.4	94.9	162.7	144.9	27.6	49.9	148.9
SMDH 00209	814018.8	8193501.8	166.5	15	16	95	2216.2	963.8	106.9	1729.1	851.4	15551.4	603.4	682.0	581.2	22.2	100.8	176.7	154.0	26.1	52.6	134.5
SMDH 00209	814018.8	8193501.8	166.5	16	17	90	1481.8	812.3	85.6	142.2	777.7	14204.9	500.3	565.4	490.0	10.3	75.4	134.2	121.6	26.1	39.0	114.7
SMDH 00209	814018.8	8193501.8	166.5	17	17.5	80	1241.3	472.5	82.8	164.3	914.7	16708.3	288.0	345.5	280.1	8.0	65.4	80.6	65.8	29.1	28.3	68.3
SMDH 00209b	813958.0	8193508.8	165.1	0	1	70	1383.2	823.1	103.2	148.8	591.0	10794.4	510.9	584.0	492.4	18.6	91.6	143.4	124.1	27.6	45.5	107.2
SMDH 00209b	813958.0	8193508.8	165.1	1	2	40	1192.3	636.4	91.2	88.4	630.4	11514.9	400.1	465.0	382.0	18.0	83.0	119.1	96.7	24.5	40.4	103.1
SMDH 00209b	813958.0	8193508.8	165.1	2	3	85	1126.1	522.1	83.8	470.3	533.1	9737.9	321.4	385.5	305.0	16.4	80.5	109.4	82.4	21.5	42.7	72.1
SMDH 00209b	813958.0	8193508.8	165.1	3	4	50	1280.3	700.4	88.6	481.9	486.0	8876.6	445.1	510.1	425.5	19.5	84.6	134.1	111.5	19.9	45.1	98.2
SMDH 00209b	813958.0	8193508.8	165.1	4	5	60	1651.5	862.5	89.4	697.4	686.7	12542.7	552.5	610.1	539.8	12.6	70.3	146.8	143.2	24.5	33.1	120.6
SMDH 00209b	813958.0	8193508.8	165.1	5	6	65	1778.5	967.9	97.1	730.7	691.4	12628.8	624.4	685.4	609.6	14.8	75.8	159.0	155.6	24.5	36.4	141.8
SMDH 00209b	813958.0	8193508.8	165.1	6	7	80	1897.0	1033.1	115.1	671.4	769.8	14061.4	659.8	743.7	631.3	28.5	112.4	193.8	167.0	21.5	62.4	139.9
SMDH 00209b	813958.0	8193508.8	165.1	7	8	90	1788.4	973.7	94.3	768.8	683.5	12485.3	617.5	678.7	601.0	16.5	77.7	160.0	154.6	23.0	38.2	137.8
SMDH 00209b	813958.0	8193508.8	165.1	8	9	95	1124.8	420.4	63.5	693.6	603.5	11024.0	271.5	307.8	264.9	6.5	42.9	69.2	67.8	21.5	14.9	64.0
SMDH 00209b	813958.0	8193508.8	165.1	9	10	80	1266.3	476.3	64.8	665.8	738.4	13487.2	308.8	351.7	298.6	10.2	53.1	85.8	76.3	18.4	24.5	71.2
SMDH 00209b	813958.0	8193508.8	165.1	10	11	90	1220.5	387.8	64.7	821.4	727.9	13294.9	238.4	283.2	232.1	6.2	51.1	68.2	56.3	21.5	23.4	52.3
SMDH 00209b	813958.0	8193508.8	165.1	11	11.5	20	1532.3	759.6	90.1	925.4	556.2	10159.9	465.3	535.2	450.3	15.0	84.8	130.5	110.0	24.5	45.3	102.3
SMDH 00210	813895.8	8193503.3	164.5	0	1	10	1448.6	752.3	78.6	560.7	632.0	11543.7	470.1	530.0	459.2	10.9	70.9	134.3	119.9	21.5	38.5	99.9
SMDH 00210	813895.8	8193503.3	164.5	1	2	40	1148.3	493.1	85.5	590.9	548.5	10019.2	288.4	366.4	274.9	13.5	91.5	113.1	72.2	23.0	55.0	66.7

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00210	813895.8	8193503.3	164.5	2	3	98	1681.8	904.7	99.9	985.1	520.7	9511.1	580.9	671.7	560.4	20.5	111.3	144.7	97.0	26.1	64.8	243.4
SMDH 00210	813895.8	8193503.3	164.5	3	4	70	1500.4	689.3	106.1	718.7	684.6	12505.4	408.8	504.3	385.1	23.7	119.2	151.5	99.5	24.5	71.0	83.9
SMDH 00210	813895.8	8193503.3	164.5	4	5	48	1258.6	569.9	99.9	673.7	537.7	9821.2	335.8	426.6	315.4	20.4	111.2	129.0	78.7	24.5	66.3	72.1
SMDH 00210	813895.8	8193503.3	164.5	5	6	90	964.5	298.3	98.4	750.9	471.4	8609.7	163.8	252.4	139.8	23.9	112.6	95.7	37.9	24.5	64.1	36.5
SMDH 00210	813895.8	8193503.3	164.5	6	7	80	1102.6	299.1	99.2	824.7	634.2	11583.8	157.8	242.5	128.0	29.7	114.4	91.0	30.9	19.9	64.8	33.3
SMDH 00210	813895.8	8193503.3	164.5	7	8	90	1525.3	721.6	92.1	937.5	592.5	10823.1	462.3	519.7	445.9	16.3	73.8	126.1	117.1	24.5	32.9	100.7
SMDH 00210	813895.8	8193503.3	164.5	8	9	95	1519.1	809.7	83.8	605.1	622.6	11371.4	526.0	579.6	511.4	14.6	68.2	136.7	131.7	21.5	32.1	114.5
SMDH 00210	813895.8	8193503.3	164.5	9	10	95	1610.6	779.3	88.0	878.1	665.9	12163.8	503.2	563.4	485.3	17.9	78.1	140.7	125.7	21.5	38.7	125.5
SMDH 00210	813895.8	8193503.3	164.5	10	11	80	1505.5	746.8	71.5	775.0	632.6	11555.1	486.1	529.4	476.4	9.6	52.9	111.8	113.9	19.9	23.4	113.4
SMDH 00210b	813840.2	8193509.1	165.8	0	1	85	1710.3	903.7	88.7	1107.4	522.4	9542.7	586.5	639.5	572.4	14.1	67.1	145.0	144.4	23.0	30.0	134.3
SMDH 00210b	813840.2	8193509.1	165.8	1	2	55	2181.4	1324.9	104.7	965.0	637.6	11647.0	877.0	944.6	856.0	21.0	88.6	259.1	261.6	18.4	49.1	217.6
SMDH 00210b	813840.2	8193509.1	165.8	2	3	45	1443.2	675.7	85.3	819.8	604.6	11044.1	404.9	467.7	390.8	14.2	76.9	122.2	102.5	23.0	39.7	91.0
SMDH 00210b	813840.2	8193509.1	165.8	3	4	85	1817.2	865.0	80.9	1458.4	581.1	10613.5	423.5	480.2	414.1	9.4	66.1	112.0	101.1	24.5	32.1	96.1
SMDH 00210b	813840.2	8193509.1	165.8	4	5	90	1348.5	661.9	73.0	903.9	466.5	8520.7	402.1	457.4	395.7	6.4	61.8	105.7	94.2	23.0	32.4	92.9
SMDH 00210b	813840.2	8193509.1	165.8	5	6	80	1834.4	851.7	90.4	1300.9	684.6	12505.4	515.7	581.1	503.6	12.0	77.5	139.7	125.3	26.1	39.4	116.5
SMDH 00210b	813840.2	8193509.1	165.8	6	7	50	1569.9	711.8	87.9	978.4	658.1	12020.2	434.0	494.2	423.0	11.0	71.2	117.1	104.2	26.1	34.2	94.9
SMDH 00210b	813840.2	8193509.1	165.8	7	8	95	2046.2	1030.2	97.5	1176.1	780.5	14256.6	656.1	728.1	636.1	19.9	91.9	167.8	147.0	21.5	50.5	131.5
SMDH 00210b	813840.2	8193509.1	165.8	8	9	95	1956.8	860.6	95.6	1252.2	863.7	15775.3	531.9	597.0	513.9	18.0	83.0	146.4	130.6	23.0	42.0	116.7
SMDH 00210b	813840.2	8193509.1	165.8	9	10	80	2365.5	1610.1	75.0	642.5	684.5	12502.5	1113.2	1157.7	1099.3	13.9	58.4	261.5	281.6	15.3	29.2	298.7
SMDH 00210b	813840.2	8193509.1	165.8	10	11	90	1557.3	706.2	65.8	810.0	758.4	13851.8	465.1	503.8	456.0	9.1	47.8	111.5	114.8	18.4	20.3	122.3
SMDH 00210b	813840.2	8193509.1	165.8	11	12	95	1640.0	741.3	82.0	949.6	738.9	13495.8	475.1	525.3	463.9	11.1	61.3	128.3	126.5	24.5	25.7	119.5
SMDH 00210b	813840.2	8193509.1	165.8	12	13	95	1575.2	802.5	83.1	758.8	643.8	11759.0	518.6	571.1	507.6	11.0	63.5	130.4	127.8	24.5	27.9	140.9
SMDH 00210b	813840.2	8193509.1	165.8	13	14	95	1433.5	658.8	77.1	806.1	633.2	11566.6	420.4	471.9	406.8	13.6	65.1	116.3	106.1	19.9	31.6	107.9
SMDH 00211	813774.2	8193503.9	167.1	0	1	20	1573.0	954.6	101.6	809.3	370.6	6769.4	609.3	683.6	589.8	19.5	93.8	168.0	148.0	24.5	49.8	128.2
SMDH 00211	813774.2	8193503.9	167.1	1	2	50	1289.2	599.6	79.3	628.9	589.6	10768.5	333.9	394.0	319.6	14.3	74.4	100.1	76.9	21.5	38.6	89.8
SMDH 00211	813774.2	8193503.9	167.1	2	3	70	1444.2	668.2	94.1	605.0	704.1	12861.4	397.8	478.7	376.1	21.7	102.6	139.7	97.9	21.5	59.4	105.0
SMDH 00211	813774.2	8193503.9	167.1	3	4	50	1034.6	288.2	83.0	667.1	648.3	11842.2	171.1	232.7	157.5	13.6	75.3	64.8	36.3	26.1	35.6	47.6
SMDH 00211	813774.2	8193503.9	167.1	4	5	90	920.5	314.5	74.3	480.8	544.8	9950.3	191.3	250.6	176.9	14.4	73.8	64.9	32.3	21.5	37.8	48.1
SMDH 00211	813774.2	8193503.9	167.1	5	6	90	1475.4	869.7	90.8	451.8	533.9	9752.3	591.1	660.6	570.5	20.6	90.1	139.9	109.3	23.0	46.5	139.3
SMDH 00211	813774.2	8193503.9	167.1	6	7	95	914.8	256.4	106.5	649.0	495.6	9051.8	146.5	228.5	122.9	23.6	105.6	73.6	24.9	30.7	51.3	33.1
SMDH 00211	813774.2	8193503.9	167.1	7	8	85	931.3	230.1	95.6	733.9	533.9	9752.3	121.9	200.2	97.6	24.3	102.5	73.0	21.9	24.5	53.7	26.2
SMDH 00211	813774.2	8193503.9	167.1	8	9	95	1272.3	544.7	83.2	771.5	572.4	10455.6	316.2	372.4	304.3	11.9	68.1	76.5	58.6	27.6	28.6	73.8
SMDH 00211	813774.2	8193503.9	167.1	9	10	95	1411.8	643.6	81.2	646.9	692.0	12640.3	378.2	430.1	365.8	12.4	64.2	81.0	69.2	26.1	25.8	90.2
SMDH 00211	813774.2	8193503.9	167.1	10	11	80	1039.7	396.7	64.7	622.3	546.3	9979.0	230.4	271.1	223.6	6.8	47.5	50.9	40.4	23.0	17.7	54.7
SMDH 00211b	813718.8	8193504.9	167.5	0	1	75	1385.8	569.8	68.6	671.0	767.9	14026.9	348.4	394.4	336.6	11.8	57.8	83.7	69.1	19.9	26.0	81.4
SMDH 00211b	813718.8	8193504.9	167.5	1	2	50	1543.7	805.6	91.0	670.0	623.7	11391.5	486.7	555.8	471.6	15.1	84.3	119.7	95.0	26.1	43.0	110.9
SMDH 00211b	813718.8	8193504.9	167.5	2	3	70	1276.4	555.0	89.1	739.4	570.1	10412.5	317.4	376.9	306.6	10.8	70.3	82.8	65.3	30.7	28.8	75.5
SMDH 00211b	813718.8	8193504.9	167.5	3	4	75	1428.2	614.6	72.3	797.9	700.4	12792.5	370.8	419.3	363.5	7.3	55.8	83.4	73.7	24.5	24.0	89.4
SMDH 00211b	813718.8	8193504.9	167.5	4	5	65	1429.4	667.9	78.6	682.2	669.7	12232.7	400.2	462.5	385.7	14.6	76.8	104.7	78.3	21.5	40.8	95.1
SMDH 00211b	813718.8	8193504.9	167.5	5	6	95	1317.2	620.2	71.2	619.7	616.1	11253.7	381.0	432.0	369.4	11.6	62.6	94.6	78.8	21.5	29.6	99.3
SMDH 00211b	813718.8	8193504.9	167.5	6	7	90	1298.0	571.1	72.9	744.1	599.1	10943.7	339.8	389.0	331.2	8.6	57.8	77.9	65.1	24.5	24.6	81.9
SMDH 00211b	813718.8	8193504.9	167.5	7	8	90	1201.6	526.7	74.0	694.2	545.5	9964.7	313.0	363.8	303.5	9.5	60.3	79.1	64.1	24.5	26.3	74.0
SMDH 00211b	813718.8	8193504.9	167.5	8	9	98	1206.2	547.5	89.6	533.0	574.6	10495.8	338.1	398.1	327.3	10.8	70.8	86.2	69.6	30.7	29.3	79.8
SMDH 00211b	813718.8	8193504.9	167.5	9	10	96	1452.7	768.1	106.5	667.7	525.1	9591.5	497.5	564.9	472.0	25.4	92.9	141.1	122.9	23.0	44.4	107.2
SMDH 00211b	813718.8	8193504.9	167.5	10	11	70	1447.9	753.0	104.0	806.5	479.1	8750.3	484.5	545.8	466.7	17.8	79.1	122.4	113.3	29.1	32.1	132.5
SMDH 00211b	813718.8	8193504.9	167.5	11	12	85	1421.5	760.0	86.5	456.3	618.6	11299.6	498.2	553.9	477.0	21.1	76.9	139.9	126.2	16.9	38.9	111.3
SMDH 00211b	813718.8	8193504.9	167.5	12	13	95	1842.9	969.9	117.4	737.7	748.8	13676.7	628.0	706.0	600.9	27.1	105.1	172.0	150.5	26.1	51.9	155.7
SMDH 00211b	813718.8	8193504.9	167.5	13	14	95	1868.1	993.7	112.0	732.0	761.3	13906.4	647.1	723.7	622.2	24.9	101.5	182.6	163.6	24.5	52.1	143.4
SMDH 00211b	813718.8	8193504.9	167.5	14	15	96	2116.3	1067.1	127.2	1026.6	855.0	15617.4	696.8	777.0	667.5	29.3	109.5	196.1	179.8	27.6	52.6	153.3
SMDH 00211b	813718.8	8193504.9	167.5	15	16	95	1967.3	1067.2	113.8	854.0	739.2	13501.6	701.6	767.8	678.5	23.1	89.3	175.8	170.6	26.1	40.1	156.6
SMDH 00211b	813718.8	8193504.9	167.5	16	17	90	1349.2	686.7	82.1	696.6	514.9	9404.9	443.6	492.4	435.1	8.4	57.2	107.9	108.4	26.1	22.7	114.2
SMDH 00211b	813718.8	8193504.9	167.5	17	17.5	85	1435.2	752.7	81.7	798.6	496.8	9074.7	484.1	535.1	473.2	11.0	61.9	116.7	116.7	24.5	26.4	123.6
SMDH 00212	813660.1	8193504.0	167.5	0	1	65	2179.1	1288.0	139.9	950.4	643.6	11756.1	836.3	937.4	795.6	40.7	141.8	242.2	209.1	23.0	78.1	212.6
SMDH 00212	813660.1	8193504.0	167.5	1	2	75	1688.2	855.6	110.8	802.1	670.0	12238.4	542.3	616.7	520.2	22.1	96.6	152.9	135.8	27.6	46.9	132.5
SMDH 00212	813660.1	8193504.0	167.5	2	3	70	1795.2	944.0	103.0	763.7	726.1	13263.3	612.6	679.4	590.3	22.3	89.2	173.9	165.6	24.5	42.3	144.1
SMDH 00212	813660.1	8193504.0	167.5	3	4	75	1792.6	965.8	108.3	791.6	670.0	12238.4	627.7	695.4	608.8	18.9	86.5	161.6	157.9	27.6	40.0	156.9
SMDH 00212	813660.1	8193504.0	167.5	4	5	90	1808.8	937.5	103.5	725.0	772.3	14107.3	612.3	679.0	587.8	24.5	91.2	165.9	157.5	23.0	43.7	147.5
SMDH 00212	813660.1	8193504.0	167.5	5	6	90	1824.0	903.9	116.5	854.1	764.2	13958.0	535.8	653.6	514.2	21.7	139.4	198.3	134.5	27.6	90.2	111.3
SMDH 00212	813660.1	8193504.0	167.5	6	7	95	1631.8	804.1	126.8	804.6	638.7	11667.1	465.7	589.6	444.0	21.8	145.7	183.3	117.5	33.7	90.2	97.2
SMDH 00212	813660.1	8193504.0	167.5	7	8	98	1905.8	914.5	181.8	824.3	786.5	14365.7	552.5	703.0	507.7	44.8	195.3	221.4	139.1	42.9	107.6	114.3
SMDH 00212	813660.1	8193504.0	167.5	8	9	98	1861.0	926.3	197.6	946.8	625.1	11417.3	551.4	721.7	499.4	52.0	222.3	240.3	139.0	44.5	125.8	113.2
SMDH 00212b	813598.9	8193511.3	167.2	0	1	40	1886.9	942.0	97.2	1146.4	692.0	12640.3	607.3	675.5	586.7	20.6	88.8	166.3	148.5	21.5	46.7	128.7
SMDH 00212b	813598.9	8193511.3	167.2	1	2	60	1244.3	640.4	88.9	466.8	527.2	9628.8	403.0	473.5	383.4	19.5	90.0	136.0	105.1	19.9	50.5	94.9
SMDH 00212b	813598.9	8193511.3	167.2	2	3	65	1554.5	793.6	102.0	637.3	655.9	11980.0	502.5	579.3	479.7	22.8	99.5	155.9	125.9	23.0	53.7	106.5
SMDH 00212b	813598.9	8193511.3	167.2	3	4	65	1665.5	817.9	104.6	724.7	736.7	13455.6	515.1	597.3	490.6	24.5	106.7	164.1	129.6	23.0	59.2	109.9
SMDH 00212b	813598.9	8193511.3	167.2	4	5	80	1556.3	699.7	86.3	659.6	806.5	14730.3	447.8	508.6	430.8	17.0	77.9	128.2	110.3	21.5	39.4	97.8
SMDH 00212b	813598.9	8193511.3	167.2	5	6	50	2178.0	851.0	117.0	973.1	1295.9	23670.1	551.3	627.3	532.6	18.8	94.8	150.4	134.2	33.7	42.3	122.0
SMDH 00212b	813598.9	8193511.3	167.2	6	7	70	1692.8	810.5	81.0	747.8	810.2	14799.2	531.1	581.2	518.3	12.7	62.9	133.2	130.0	21.5	28.7	118.2
SMDH 00212b	813598.9	8193511.3	167.2	7	8	85	1486.7	781.8	68.2	669.2	609.0	11124.5	517.5	556.1	507.9	9.5	48.1	121.7	127.1	18.4	20.2	118.0
SMDH 00213	813538.2	8193501.6	166.1	0	1	30	1935.3	1167.2	104.1	1125.0	436.5	7972.3	761.7	831.9	741.1	20.6	90.8	199.6	191.4	23.0	47.2	175.6
SMDH 00213	813538.2	8193501.6	166.1	1	2	30	1560.8	680.1	90.6	696.7	817.8	14937.0	431.0	495.4	413.6	17.4	81.8	127.4	106.9	23.0	41.4	97.6

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00213	813538.2	8193501.6	166.1	2	3	40	1164.6	569.4	86.0	586.9	463.0	8457.5	358.0	418.7	342.1	15.9	76.6	109.7	89.0	23.0	37.7	77.2
SMDH 00213	813538.2	8193501.6	166.1	3	4	45	1142.6	618.0	74.1	526.7	406.1	7418.3	393.0	444.2	378.8	14.2	65.4	111.5	97.9	18.4	32.8	85.3
SMDH 00213	813538.2	8193501.6	166.1	4	5	40	1025.3	523.9	64.7	552.7	374.1	6832.6	333.8	377.0	322.4	11.4	54.6	90.8	80.3	16.9	26.4	71.5
SMDH 00213	813538.2	8193501.6	166.1	5	6	70	1162.8	624.6	67.4	596.2	403.1	7363.7	403.6	447.5	391.7	11.9	55.8	106.0	98.7	16.9	27.0	89.0
SMDH 00213	813538.2	8193501.6	166.1	6	7	75	1547.3	776.6	84.4	835.0	603.4	11021.2	499.5	555.3	484.4	15.1	70.9	131.9	122.2	21.5	34.3	110.6
SMDH 00213	813538.2	8193501.6	166.1	7	8	60	1353.4	720.1	91.5	572.1	517.1	9445.1	463.3	524.7	442.6	20.7	82.2	139.3	119.3	19.9	41.5	94.8
SMDH 00213	813538.2	8193501.6	166.1	8	9	40	1336.4	715.7	82.3	592.7	502.5	9178.1	468.1	516.6	452.8	15.3	63.8	127.3	120.8	19.9	28.6	98.0
SMDH 00213	813538.2	8193501.6	166.1	9	10	70	1351.3	698.2	77.3	671.3	520.1	9499.6	455.2	500.0	440.5	14.7	59.5	123.0	118.1	18.4	26.4	95.5
SMDH 00213b	813473.5	8193501.7	164.5	0	1	50	1584.5	883.3	127.5	869.9	424.5	7754.1	562.4	649.1	540.3	22.1	108.8	164.7	139.9	35.3	51.4	113.2
SMDH 00213b	813473.5	8193501.7	164.5	1	2	45	1639.0	904.7	109.3	777.1	541.9	9898.7	585.0	659.1	559.4	25.5	99.7	177.0	154.0	23.0	51.2	124.7
SMDH 00213b	813473.5	8193501.7	164.5	2	3	80	1601.5	957.6	115.4	696.9	439.8	8032.6	619.3	702.0	590.2	29.0	111.7	188.6	158.2	23.0	59.7	137.0
SMDH 00213b	813473.5	8193501.7	164.5	3	4	40	1575.8	789.8	109.3	677.1	663.0	12109.2	494.3	581.5	468.8	25.4	112.7	159.9	119.7	23.0	64.3	106.0
SMDH 00213b	813473.5	8193501.7	164.5	4	5	35	1649.1	820.5	110.3	763.4	683.1	12476.7	509.5	593.6	489.3	20.1	104.3	159.0	127.5	27.6	56.5	114.5
SMDH 00213b	813473.5	8193501.7	164.5	5	6	50	2175.0	1363.4	126.9	640.2	691.9	12637.4	895.0	996.1	865.3	29.7	130.8	255.1	224.4	23.0	78.1	194.7
SMDH 00213b	813473.5	8193501.7	164.5	6	7	65	1543.4	729.6	102.1	771.8	669.7	12232.7	437.1	521.6	418.1	19.0	103.5	143.7	106.6	26.1	58.4	97.7
SMDH 00213b	813473.5	8193501.7	164.5	7	8	55	1895.3	814.5	102.9	992.7	951.7	17383.0	510.6	584.2	494.0	16.6	90.2	144.5	122.9	27.6	46.0	111.9
SMDH 00213b	813473.5	8193501.7	164.5	8	9	55	2648.6	1733.5	114.5	826.3	772.7	14113.1	1176.4	1251.0	1153.4	23.0	97.6	332.7	360.1	23.0	51.6	435.9
SMDH 00213b	813473.5	8193501.7	164.5	9	10	55	1473.2	833.4	95.1	537.0	537.5	9818.3	545.7	613.1	523.5	22.2	89.6	157.9	136.2	18.4	49.0	120.7
SMDH 00213b	813473.5	8193501.7	164.5	10	11	20	1309.1	711.8	89.5	815.0	354.9	6482.4	456.0	519.7	439.7	16.2	80.0	136.9	117.9	23.0	40.8	93.4
SMDH 00213b	813473.5	8193501.7	164.5	11	12	60	1322.7	571.9	89.9	837.0	565.8	10335.0	365.2	424.5	349.2	16.0	75.3	102.0	83.3	23.0	36.3	80.5
SMDH 00213b	813473.5	8193501.7	164.5	12	13	75	1747.9	826.4	105.4	580.1	909.6	16613.6	524.6	600.4	503.2	21.3	97.2	153.2	128.1	24.5	51.3	116.7
SMDH 00214	813412.8	8193504.4	163.0	0	1	40	1606.6	950.3	93.7	613.9	527.6	9637.4	619.2	687.2	597.2	22.0	90.1	168.0	147.8	16.9	51.2	136.9
SMDH 00214	813412.8	8193504.4	163.0	1	2	45	1533.2	773.4	79.8	616.3	696.0	12712.1	500.3	554.6	485.0	15.4	69.6	127.9	117.1	18.4	35.8	99.7
SMDH 00214	813412.8	8193504.4	163.0	2	3	50	1431.4	766.2	92.3	517.8	587.0	10722.6	491.1	554.7	472.4	18.7	82.3	137.2	119.3	21.5	42.2	110.2
SMDH 00214	813412.8	8193504.4	163.0	3	4	70	1402.8	721.6	93.4	524.7	605.4	11058.5	462.3	530.5	441.5	20.9	89.1	129.8	105.8	21.5	46.7	106.3
SMDH 00214	813412.8	8193504.4	163.0	4	5	45	1410.7	689.3	105.3	551.8	633.7	11575.2	429.0	506.0	406.1	22.9	99.9	137.8	105.8	24.5	52.4	93.9
SMDH 00214	813412.8	8193504.4	163.0	5	6	60	1525.0	731.7	96.8	701.7	680.2	12425.0	458.0	527.3	440.3	17.7	86.9	128.5	107.9	24.5	44.7	98.6
SMDH 00214	813412.8	8193504.4	163.0	6	7	60	1351.6	668.7	94.7	559.2	590.0	10777.1	414.7	485.5	392.8	21.9	92.7	128.4	99.4	21.5	49.3	90.1
SMDH 00214	813412.8	8193504.4	163.0	7	8	75	1366.9	685.5	95.2	582.4	576.2	10524.5	428.4	501.4	407.6	20.7	93.8	136.0	105.6	21.5	51.6	91.6
SMDH 00214b	813356.9	8193507.2	162.4	0	1	50	1314.3	686.0	92.0	720.4	440.1	8038.4	425.5	502.4	409.3	16.2	93.1	136.3	101.6	23.0	53.8	92.3
SMDH 00214b	813356.9	8193507.2	162.4	1	2	45	2000.5	1177.4	102.5	845.2	648.3	11842.2	758.5	832.2	738.3	20.2	93.9	198.8	184.4	21.5	52.2	169.1
SMDH 00214b	813356.9	8193507.2	162.4	2	3	45	2011.3	1261.5	110.7	666.7	613.6	11207.8	809.7	881.2	788.3	21.4	92.9	208.0	200.9	23.0	48.5	174.7
SMDH 00214b	813356.9	8193507.2	162.4	3	4	60	1360.1	817.6	96.9	468.4	426.3	7785.7	531.0	605.0	502.7	28.3	102.3	162.0	128.7	15.3	58.7	114.6
SMDH 00214b	813356.9	8193507.2	162.4	4	5	85	1534.8	724.9	100.9	584.6	752.5	13745.6	449.5	528.7	424.6	24.9	104.1	145.1	108.4	19.9	59.3	95.8
SMDH 00214b	813356.9	8193507.2	162.4	5	6	70	1745.3	820.7	141.7	599.3	852.7	15574.3	536.0	625.9	491.8	44.1	134.1	178.1	138.6	26.1	63.9	111.8
SMDH 00214b	813356.9	8193507.2	162.4	6	7	90	1522.7	686.6	131.5	486.6	791.8	14463.3	433.7	527.9	387.8	45.8	140.1	171.8	118.6	21.5	72.8	85.3
SMDH 00214b	813356.9	8193507.2	162.4	7	8	98	1405.6	617.0	104.2	580.8	719.1	13134.1	397.0	465.6	365.2	31.8	100.4	129.3	100.5	19.9	48.6	83.6
SMDH 00215	813296.9	8193499.8	162.8	0	1	40	1219.7	609.1	79.7	513.1	528.6	9654.6	407.8	448.6	394.6	13.2	54.0	94.4	95.8	23.0	17.8	96.1
SMDH 00215	813296.9	8193499.8	162.8	1	2	45	1509.5	920.3	79.5	477.1	514.7	9402.0	649.4	685.7	630.9	18.5	54.8	153.1	167.5	16.9	19.4	148.4
SMDH 00215	813296.9	8193499.8	162.8	2	3	45	617.9	249.4	50.7	218.4	357.6	6531.2	166.5	193.6	159.8	6.8	33.8	36.3	32.1	16.9	10.2	45.3
SMDH 00215	813296.9	8193499.8	162.8	3	4	75	1121.5	495.5	74.4	375.2	622.7	11374.3	323.1	363.2	308.1	14.9	55.1	84.9	80.1	19.9	20.2	72.4
SMDH 00215	813296.9	8193499.8	162.8	4	5	90	1424.9	696.4	78.1	520.5	697.7	12743.7	441.5	496.9	428.9	12.6	68.0	117.3	105.7	21.5	33.9	102.9
SMDH 00215	813296.9	8193499.8	162.8	5	6	75	1170.6	566.1	77.5	374.6	587.4	10728.3	355.2	412.6	343.8	11.3	68.8	105.1	88.7	23.0	34.4	80.0
SMDH 00215	813296.9	8193499.8	162.8	6	7	90	1499.7	730.3	89.3	490.0	754.9	13788.7	456.8	528.7	438.4	18.4	90.3	139.3	111.5	19.9	51.9	101.2
SMDH 00215	813296.9	8193499.8	162.8	7	8	85	1151.7	450.2	65.8	471.2	699.6	12778.1	277.8	329.4	269.4	8.4	59.9	80.8	62.0	19.9	31.6	66.4
SMDH 00215b	813235.3	8193500.4	162.8	0	1	45	1447.2	867.8	84.1	657.8	409.9	7487.2	548.6	617.6	533.2	15.4	84.3	160.2	136.8	18.4	50.5	121.3
SMDH 00215b	813235.3	8193500.4	162.8	1	2	40	1314.8	696.6	78.0	593.8	504.5	9215.4	440.0	499.5	428.5	11.5	71.0	122.7	105.0	19.9	39.6	102.0
SMDH 00215b	813235.3	8193500.4	162.8	2	3	50	1071.2	532.5	57.0	517.7	455.3	8316.8	340.8	381.1	335.3	5.6	45.8	84.3	77.7	16.9	23.4	84.6
SMDH 00215b	813235.3	8193500.4	162.8	3	4	50	568.6	133.5	49.8	519.7	315.1	5756.0	66.1	92.0	64.1	2.0	27.9	12.3	10.2	21.5	4.4	14.8
SMDH 00215b	813235.3	8193500.4	162.8	4	5	60	1815.0	1385.6	60.7	326.2	381.1	6961.8	963.5	993.5	956.9	6.6	36.7	193.4	221.9	16.9	13.2	243.5
SMDH 00215b	813235.3	8193500.4	162.8	5	6	45	997.3	721.1	58.7	488.5	87.2	1593.3	486.2	524.8	476.2	10.0	48.6	137.2	138.5	15.3	23.2	152.8
SMDH 00215b	813235.3	8193500.4	162.8	6	7	90	1020.8	466.3	58.4	594.9	440.2	8041.2	301.0	334.2	294.7	6.3	39.5	94.0	98.8	18.4	14.9	58.8
SMDH 00215b	813235.3	8193500.4	162.8	7	8	85	1118.2	622.4	63.1	458.4	412.1	7527.3	406.9	447.0	397.2	9.7	49.8	128.5	133.1	16.9	23.2	83.5
SMDH 00216	813177.8	8193504.4	162.9	0	1	30	946.4	510.1	78.1	653.6	213.8	3904.3	324.2	370.2	314.6	9.6	55.6	106.9	109.0	24.5	21.5	64.5
SMDH 00216	813177.8	8193504.4	162.9	1	2	45	1359.2	934.1	80.8	631.6	204.0	3726.4	603.6	652.1	590.2	13.4	61.9	197.7	211.5	19.9	28.6	122.7
SMDH 00216	813177.8	8193504.4	162.9	2	3	40	1631.4	1301.3	85.5	403.2	166.0	3031.6	857.1	911.3	840.0	17.2	71.4	268.4	289.4	15.3	38.9	168.1
SMDH 00216	813177.8	8193504.4	162.9	3	4	75	1266.0	715.3	71.0	383.5	514.9	9404.9	453.1	502.0	440.8	12.3	61.2	130.9	129.7	16.9	32.0	98.0
SMDH 00216	813177.8	8193504.4	162.9	4	5	40	925.0	448.9	94.1	621.3	263.3	4808.7	292.9	346.3	283.9	9.0	62.4	78.3	72.7	33.7	19.7	62.6
SMDH 00216	813177.8	8193504.4	162.9	5	6	85	1053.1	493.0	71.8	588.4	432.1	7891.9	323.9	367.3	312.2	11.7	55.1	87.9	79.7	19.9	23.5	70.4
SMDH 00216	813177.8	8193504.4	162.9	6	7	50	1043.2	399.3	64.9	706.5	508.1	9281.4	263.1	299.1	255.9	7.2	43.2	67.4	65.0	21.5	14.5	58.5
SMDH 00216	813177.8	8193504.4	162.9	7	8	95	949.4	441.7	58.4	654.6	344.8	6298.6	294.9	329.9	286.1	8.8	43.8	75.5	71.4	16.9	18.2	65.3
SMDH 00216	813177.8	8193504.4	162.9	8	9	95	1051.9	445.1	60.9	585.6	516.6	9436.5	296.7	330.4	288.7	7.9	41.7	73.5	72.3	18.4	15.4	66.6
SMDH 00216	813177.8	8193504.4	162.9	9	10	98	1215.2	450.2	71.4	875.4	595.4	10874.8	292.4	331.4	285.4	7.1	46.1	74.5	74.3	24.5	14.5	63.3
SMDH 00216	813177.8	8193504.4	162.9	10	11	90	1392.5	473.9	73.1	1093.1	713.6	13033.6	315.0	355.8	306.0	9.1	49.8	78.9	75.9	23.0	17.8	75.5
SMDH 00216	813177.8	8193504.4	162.9	11	12	90	1324.0	482.1	69.6	1061.7	622.4	11368.5	315.2	356.2	305.9	9.3	50.3	81.5	76.7	21.5	19.6	71.8
SMDH 00216	813177.8	8193504.4	162.9	12	13	90	1168.4	396.8	71.2	378.8	836.0	15270.0	254.2	293.3	248.5	5.7	44.9	81.1	81.4	26.1	13.1	49.5
SMDH 00216	813177.8	8193504.4	162.9	13	14	80	1368.9	665.7	79.4	414.4	708.7	12944.6	425.8	471.3	416.3	9.5	55.0	143.4	148.2	24.5	21.0	83.3
SMDH 00216b	813117.0	8193509.4	163.5	0	1	30	928.3	502.7	72.8	458.4	296.7	5420.2	328.5	371.4	319.5	9.1	51.9	85.9	81.0	23.0	19.8	69.1
SMDH 00216b	813117.0	8193509.4	163.5	1	2	30	622.2	173.9	52.0	175.9	490.9	8965.6	108.0	139.7	102.4	5.6	37.4	48.1	41.2	18.4	13.3	20.1
SMDH 00216b	813117.0	8193509.4	163.5	2	3	70	457.8	73.1	38.6	156.6	427.2	7802.9	38.8	64.5	34.2	4.6	30.3	24.7	14.8	13.8	11.9	5.6
SMDH 00216b	813117.0	8193509.4	163.5	3	4	50	1293.4	292.3	58.2	1595.0	621.0	11342.7	187.3	218.8	182.7	4.6	36.1	65.9	66.8	21.5	10.0	36.5

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00216b	813117.0	8193509.4	163.5	4	5	50	1133.5	277.7	63.2	1395.5	496.5	9069.0	171.5	206.4	166.9	4.6	39.5	59.0	59.2	24.5	10.4	33.2
SMDH 00216b	813117.0	8193509.4	163.5	5	6	85	1131.7	320.1	53.7	1257.3	510.7	9327.4	197.7	228.0	193.3	4.5	34.7	64.5	65.7	19.9	10.3	39.5
SMDH 00216b	813117.0	8193509.4	163.5	6	7	55	883.1	509.2	96.8	102.4	352.9	6445.0	321.6	385.3	310.1	11.5	75.2	98.6	83.4	32.2	31.5	69.5
SMDH 00216b	813117.0	8193509.4	163.5	7	8	65	1299.3	342.0	70.7	1096.2	771.6	14093.0	215.7	260.2	205.0	10.8	55.2	74.8	61.8	21.5	23.0	46.2
SMDH 00216b	813117.0	8193509.4	163.5	8	9	90	1483.9	434.1	82.3	1792.6	564.9	10317.8	275.1	328.9	263.0	12.2	65.9	81.7	65.1	24.5	29.2	63.1
SMDH 00216b	813117.0	8193509.4	163.5	9	10	70	1671.9	435.2	75.8	1727.4	874.4	15970.5	280.0	325.4	269.6	10.4	55.8	80.4	70.8	23.0	22.4	65.7
SMDH 00216b	813117.0	8193509.4	163.5	10	11	90	1365.4	343.9	83.6	1192.4	801.0	14629.8	217.5	271.6	204.1	13.4	67.5	76.4	56.9	24.5	29.6	46.0
SMDH 00216b	813117.0	8193509.4	163.5	11	12	85	1262.6	389.4	113.8	1188.0	545.1	9956.1	252.3	319.7	239.8	12.5	79.9	80.9	65.2	39.9	27.6	54.1
SMDH 00216b	813117.0	8193509.4	163.5	12	13	95	1467.1	460.1	162.8	957.8	774.7	14150.4	294.9	392.8	275.4	19.5	117.4	103.2	74.9	56.8	41.1	62.7
SMDH 00216b	813117.0	8193509.4	163.5	13	14	85	1301.5	459.4	89.3	1081.1	585.2	10688.1	294.1	351.5	281.1	13.1	70.4	86.9	71.0	27.6	29.7	64.6
SMDH 00216b	813117.0	8193509.4	163.5	14	14.5	80	1196.7	486.8	57.2	601.9	663.3	12115.0	322.1	353.3	313.6	8.4	39.7	78.2	78.6	15.3	15.9	72.5
SMDH 00217	813064.7	8193506.7	165.6	0	1	25	999.5	442.8	61.6	646.5	414.9	7579.0	292.8	329.3	284.4	8.4	44.9	78.2	73.0	18.4	18.2	62.6
SMDH 00217	813064.7	8193506.7	165.6	1	2	30	1978.2	1121.0	84.7	742.1	771.4	14090.1	776.5	819.1	768.0	8.5	51.1	140.5	160.2	26.1	16.5	205.0
SMDH 00217	813064.7	8193506.7	165.6	2	3	20	1183.4	595.7	91.2	597.1	439.8	8032.6	382.2	441.3	369.5	12.7	71.8	104.3	90.8	27.6	31.5	81.4
SMDH 00217	813064.7	8193506.7	165.6	3	4	50	1041.5	471.8	89.7	686.0	374.7	6844.1	299.8	359.8	286.2	13.6	73.6	89.8	71.6	27.6	32.4	67.7
SMDH 00217	813064.7	8193506.7	165.6	4	5	30	1195.4	505.2	76.8	695.4	563.0	10283.4	332.1	375.2	323.0	9.1	52.1	80.8	78.1	24.5	18.5	75.3
SMDH 00217	813064.7	8193506.7	165.6	5	6	65	1223.5	575.4	59.9	487.7	623.2	11382.9	379.9	412.2	371.9	8.0	40.3	86.7	91.1	16.9	15.4	85.5
SMDH 00217	813064.7	8193506.7	165.6	6	7	70	1091.4	400.6	70.5	647.0	595.5	10877.6	266.3	304.4	259.2	7.1	45.2	66.7	64.7	24.5	13.6	61.3
SMDH 00217	813064.7	8193506.7	165.6	7	8	50	984.6	386.5	81.9	592.7	470.4	8592.4	249.2	299.1	239.2	10.0	59.8	71.6	60.7	27.6	22.2	57.3
SMDH 00217	813064.7	8193506.7	165.6	8	8.5	80	828.1	315.4	64.1	592.0	373.0	6812.5	203.5	242.1	196.0	7.5	46.1	56.0	48.0	21.5	17.1	45.4
SMDH 00217b	813001.1	8193506.2	166.3	0	1	40	1297.5	668.3	75.9	626.3	508.3	9284.3	439.7	483.2	428.9	10.8	54.2	106.7	105.2	21.5	22.0	99.1
SMDH 00217b	813001.1	8193506.2	166.3	1	2	50	1344.6	916.1	53.7	399.6	355.7	6496.7	634.7	661.5	627.8	7.0	33.7	96.9	114.2	13.8	13.0	166.4
SMDH 00217b	813001.1	8193506.2	166.3	2	3	75	620.0	405.9	42.4	202.7	153.7	2807.7	268.6	294.0	260.9	7.6	33.1	69.0	64.5	9.2	16.3	59.6
SMDH 00217b	813001.1	8193506.2	166.3	3	4	25	515.2	307.6	44.2	243.3	123.1	2247.9	192.9	219.3	188.1	4.8	31.2	51.7	47.6	13.8	12.6	40.3
SMDH 00217b	813001.1	8193506.2	166.3	4	5	35	626.4	275.3	40.3	257.5	329.3	6014.4	157.5	183.0	151.4	6.2	31.7	45.5	36.6	10.7	14.7	36.0
SMDH 00217b	813001.1	8193506.2	166.3	5	6	50	858.1	588.7	48.2	208.9	222.6	4065.1	392.3	417.6	385.2	7.1	32.5	90.8	94.1	10.7	14.6	89.1
SMDH 00217b	813001.1	8193506.2	166.3	6	7	70	1377.5	832.7	80.9	151.2	600.1	10960.9	541.2	587.7	527.7	13.6	60.0	138.1	136.6	18.4	28.1	114.1
SMDH 00217b	813001.1	8193506.2	166.3	7	7.5	65	1294.5	453.8	91.9	126.1	1023.2	18689.2	295.7	352.0	282.5	13.2	69.5	87.6	72.1	27.6	28.7	62.4
SMDH 00218	812938.4	8193503.8	164.6	0	1	30	1339.4	750.7	98.9	640.3	410.2	7492.9	483.4	547.7	465.5	17.9	82.2	131.8	116.8	26.1	38.2	107.3
SMDH 00218	812938.4	8193503.8	164.6	1	2	25	1652.2	803.7	208.5	559.0	664.8	12143.7	482.7	653.8	428.1	54.6	225.7	233.1	127.5	44.5	126.6	92.8
SMDH 00218	812938.4	8193503.8	164.6	2	3	60	1526.6	691.1	182.8	542.7	690.8	12617.4	415.9	558.9	372.5	43.4	186.4	187.5	107.8	44.5	98.5	82.6
SMDH 00218	812938.4	8193503.8	164.6	3	4	50	2107.2	1315.6	140.0	531.6	694.4	12683.4	868.1	968.5	837.0	31.0	131.5	215.7	186.1	32.2	68.2	222.0
SMDH 00218	812938.4	8193503.8	164.6	4	5	50	1232.0	651.9	105.6	422.3	489.3	8936.9	414.8	489.0	395.0	19.8	94.0	126.6	99.4	27.6	46.6	92.8
SMDH 00218	812938.4	8193503.8	164.6	5	6	90	881.7	476.0	72.5	309.8	337.4	6163.7	304.6	356.0	290.4	14.2	65.6	93.1	74.4	18.4	33.0	64.7
SMDH 00218	812938.4	8193503.8	164.6	6	7	90	1326.1	701.6	90.1	568.3	508.1	9281.4	446.7	510.2	428.3	18.5	82.0	127.7	106.7	21.5	42.0	96.8
SMDH 00218	812938.4	8193503.8	164.6	7	8	50	1151.3	848.6	54.2	212.6	260.3	4754.1	560.3	589.2	551.3	9.0	37.9	120.0	127.3	10.7	18.2	126.3
SMDH 00218	812938.4	8193503.8	164.6	8	9	60	1156.8	773.1	57.3	311.1	326.9	5971.4	510.2	542.5	500.9	9.3	41.6	117.7	122.4	12.3	20.1	114.7
SMDH 00218	812938.4	8193503.8	164.6	9	10	90	1418.3	757.8	113.5	510.3	553.2	10105.4	485.7	561.2	467.5	18.2	93.7	136.5	116.1	32.2	43.3	104.8
SMDH 00218	812938.4	8193503.8	164.6	10	11	80	1194.3	270.1	182.0	268.9	947.3	17302.6	167.7	275.2	152.4	15.3	122.8	72.9	43.9	72.1	35.4	30.7
SMDH 00218	812938.4	8193503.8	164.6	11	12	80	1322.4	695.4	113.9	569.0	477.0	8713.0	446.1	522.7	426.0	20.2	96.7	127.6	104.8	32.2	44.3	96.8
SMDH 00218	812938.4	8193503.8	164.6	12	13	90	934.9	470.3	80.7	360.7	387.1	7070.9	301.4	355.7	287.7	13.6	68.0	91.6	73.9	23.0	31.4	63.7
SMDH 00218	812938.4	8193503.8	164.6	13	14	90	1591.8	816.7	140.8	544.6	663.4	12117.8	527.5	626.1	501.1	26.5	125.0	158.0	122.6	39.9	58.7	123.8
SMDH 00218	812938.4	8193503.8	164.6	14	15	90	1002.4	389.1	119.0	364.0	545.1	9956.1	243.4	321.8	227.5	15.8	94.3	91.1	63.2	39.9	38.6	51.4
SMDH 00218	812938.4	8193503.8	164.6	15	16	90	1470.6	815.7	126.1	538.3	514.0	9387.7	526.7	610.5	503.3	23.4	107.2	157.8	132.7	33.7	50.0	116.6
SMDH 00218	812938.4	8193503.8	164.6	16	17	90	1490.3	799.2	158.1	556.2	511.8	9347.5	500.9	617.6	465.7	35.2	151.9	180.3	127.5	39.9	76.8	105.4
SMDH 00218	812938.4	8193503.8	164.6	17	17.5	60	1430.0	690.6	136.4	588.1	598.0	10923.6	431.4	531.7	405.0	26.3	126.7	147.2	104.9	38.3	62.0	94.6
SMDH 00218b	812878.8	8193503.7	163.9	0	1	30	584.8	251.7	43.9	374.4	243.8	4452.7	158.5	185.1	153.4	5.0	31.7	44.7	38.7	13.8	12.8	34.6
SMDH 00218b	812878.8	8193503.7	163.9	1	2	45	434.1	115.0	35.0	339.9	252.6	4613.4	76.9	95.3	73.1	3.8	22.1	24.2	20.7	12.3	6.1	17.9
SMDH 00218b	812878.8	8193503.7	163.9	2	3	70	305.4	68.2	26.6	240.7	192.4	3513.9	44.8	59.9	41.8	2.9	18.1	15.5	10.1	9.2	6.0	11.1
SMDH 00218b	812878.8	8193503.7	163.9	3	4	50	369.4	118.0	36.3	190.1	222.6	4065.1	78.8	99.6	74.8	4.0	24.8	23.6	17.3	12.3	8.5	19.6
SMDH 00218b	812878.8	8193503.7	163.9	4	5	65	578.4	142.8	47.0	335.5	405.5	7406.8	96.5	122.2	92.3	4.2	29.9	30.0	24.4	16.9	8.8	22.2
SMDH 00218b	812878.8	8193503.7	163.9	5	6	65	352.2	109.5	27.9	337.2	153.7	2807.7	73.5	88.0	70.6	2.9	17.4	21.1	17.8	9.2	5.3	16.0
SMDH 00218b	812878.8	8193503.7	163.9	6	7	85	435.0	110.7	36.9	450.5	205.7	3757.9	72.5	94.4	67.7	4.8	26.7	24.7	17.2	12.3	9.7	17.1
SMDH 00218b	812878.8	8193503.7	163.9	7	8	90	890.7	148.9	53.9	1120.3	473.2	8644.1	95.4	126.9	90.3	5.0	36.5	30.1	21.4	19.9	11.6	21.7
SMDH 00218b	812878.8	8193503.7	163.9	8	9	85	1309.0	726.8	57.7	724.3	421.2	7693.9	510.5	539.5	505.4	5.2	34.1	90.4	101.8	18.4	10.5	135.1
SMDH 00219	812824.4	8193504.8	163.9	0	1	40	879.8	468.7	47.0	514.9	286.7	5236.4	301.9	331.0	295.7	6.3	35.3	75.1	70.9	12.3	16.8	65.4
SMDH 00219	812824.4	8193504.8	163.9	1	2	40	896.4	596.8	48.6	293.4	226.3	4134.0	409.8	435.2	403.5	6.4	31.7	87.4	91.2	12.3	13.1	100.4
SMDH 00219	812824.4	8193504.8	163.9	2	3	60	585.1	367.4	39.8	198.8	164.6	3005.8	245.4	266.1	240.2	5.2	25.9	56.9	57.5	10.7	10.0	55.5
SMDH 00219	812824.4	8193504.8	163.9	3	4	50	1430.8	1166.7	53.2	234.0	196.0	3579.9	816.8	841.9	808.9	8.0	33.1	143.0	164.0	10.7	14.3	217.2
SMDH 00219	812824.4	8193504.8	163.9	4	5	50	646.5	425.3	40.1	213.1	162.5	2968.5	283.7	305.6	278.4	5.3	27.2	66.0	68.4	10.7	11.2	73.1
SMDH 00219	812824.4	8193504.8	163.9	5	6	60	1364.6	1120.8	56.4	191.1	182.0	3324.4	767.4	797.0	757.9	9.5	39.1	147.7	165.5	10.7	18.8	208.8
SMDH 00219	812824.4	8193504.8	163.9	6	7	70	524.8	350.6	36.1	160.5	125.0	2282.3	229.3	251.2	223.2	6.2	28.1	58.2	55.3	7.7	14.2	55.2
SMDH 00219	812824.4	8193504.8	163.9	7	7.5	80	560.0	369.6	47.6	188.1	119.0	2173.2	240.4	271.5	229.5	10.9	41.9	69.7	59.2	9.2	21.8	57.6
SMDH 00219b	812757.3	8193503.2	163.9	0	1	45	804.1	450.6	47.7	522.6	199.0	3634.5	287.9	321.1	278.6	9.3	42.5	80.0	71.1	10.7	22.5	64.7
SMDH 00219b	812757.3	8193503.2	163.9	1	2	45	927.9	525.0	58.1	526.2	253.5	4630.7	343.7	379.8	334.3	9.4	45.6	86.3	82.2	15.3	20.8	85.0
SMDH 00219b	812757.3	8193503.2	163.9	2	3	50	1112.7	519.7	62.5	727.7	428.3	7823.0	343.5	375.2	337.7	5.8	37.5	73.9	79.4	19.9	11.8	86.6
SMDH 00219b	812757.3	8193503.2	163.9	3	4	55	1060.7	476.3	68.9	645.4	445.0	8127.4	314.4	351.8	307.3	7.2	44.5	74.4	74.9	23.0	14.3	73.9
SMDH 00219b	812757.3	8193503.2	163.9	4	5	90	2549.8	1570.1	98.2	864.9	871.7	15921.7	1074.2	1123.5	1062.4	11.7	61.0	199.5	228.2	27.6	21.7	285.5
SMDH 00219b	812757.3	8193503.2	163.9	5	6	90	2565.1	1095.8	173.4	1435.7	1205.0	22010.7	739.4	834.0	723.5	15.9	110.5	165.9	169.2	62.9	31.7	186.9
SMDH 00219b	812757.3	8193503.2	163.9	6	7	90	2317.5	908.1	214.2	1542.0	1010.1	18450.9	576.0	728.3	528.8	47.2	199.5	201.2	132.1	58.3	94.0	131.8
SMDH 00219b	812757.3	8193503.2	163.9	7	8	85	2736.7	1006.7	381.5	1889.5	1070.2	19547.6	593.5	894.3	481.6	111.9	412.7	330.7	138.6	85.9	214.9	114.8

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00219b	812757.3	8193503.2	163.9	8	9	85	2515.9	1046.1	108.8	1585.6	1229.6	22458.6	689.6	780.5	638.9	50.8	141.6	214.8	158.0	3.1	87.8	163.8
SMDH 00220	812696.4	8193502.4	166.0	0	1	70	2273.6	531.0	192.8	748.4	1891.6	34550.6	343.0	458.8	318.2	24.7	140.6	117.3	84.4	67.5	48.4	74.1
SMDH 00220	812696.4	8193502.4	166.0	1	2	45	1223.4	183.2	167.9	495.2	1030.3	18818.4	108.8	210.8	93.8	15.0	117.0	68.6	33.3	64.4	37.6	15.0
SMDH 00220	812696.4	8193502.4	166.0	2	3	90	1288.6	168.9	230.6	601.7	1005.1	18359.0	97.3	230.9	83.0	14.3	147.9	64.3	30.0	96.6	37.0	13.5
SMDH 00220b	812641.8	8193506.4	164.0	0	1	50	2017.4	807.7	135.2	1045.6	1066.6	19481.5	522.6	605.7	502.8	19.8	102.9	137.1	122.0	42.9	40.1	121.5
SMDH 00220b	812641.8	8193506.4	164.0	1	2	55	1359.7	533.1	82.6	767.3	718.4	13122.6	346.6	395.9	335.1	11.6	60.9	88.8	82.4	26.1	23.2	81.3
SMDH 00220b	812641.8	8193506.4	164.0	2	3	70	1527.0	681.7	111.2	784.5	696.1	12715.0	437.5	507.8	420.4	17.1	87.4	125.1	110.0	33.7	36.6	98.5
SMDH 00220b	812641.8	8193506.4	164.0	3	4	85	1495.6	677.2	94.4	790.7	678.5	12393.4	441.1	496.7	428.9	12.3	67.8	108.0	102.9	29.1	26.4	100.6
SMDH 00220b	812641.8	8193506.4	164.0	4	5	85	1561.6	677.0	134.6	716.0	751.0	13716.9	429.1	519.7	404.8	24.3	114.9	135.4	102.8	38.3	52.3	93.0
SMDH 00220b	812641.8	8193506.4	164.0	5	6	70	1726.2	779.8	148.9	1041.0	668.6	12212.6	497.6	591.5	474.6	23.0	116.9	146.4	122.3	46.0	47.9	109.4
SMDH 00220b	812641.8	8193506.4	164.0	6	7	75	1516.7	629.5	115.5	791.4	747.2	13648.0	405.9	478.7	387.8	18.1	90.8	119.1	100.7	35.3	37.5	89.7
SMDH 00220b	812641.8	8193506.4	164.0	7	8	75	1508.6	684.3	111.5	742.4	684.8	12508.3	442.7	512.1	425.9	16.7	86.2	119.4	104.5	33.7	35.7	99.9
SMDH 00220b	812641.8	8193506.4	164.0	8	9	70	1564.7	697.9	111.0	661.7	784.6	14331.2	455.2	523.6	436.4	18.8	87.2	122.2	106.4	32.2	36.2	107.5
SMDH 00221	812579.1	8193500.1	159.9	0	1	35	1680.7	899.2	78.5	1225.6	446.1	8147.5	585.9	633.4	569.8	16.2	63.6	147.5	145.3	16.9	30.6	136.4
SMDH 00221	812579.1	8193500.1	159.9	1	2	50	2113.3	994.1	108.7	1513.1	756.8	13823.1	647.4	712.7	627.8	19.6	84.9	173.7	167.5	27.6	37.7	145.2
SMDH 00221	812579.1	8193500.1	159.9	2	3	90	2036.2	338.3	140.4	1661.7	1478.2	27000.3	226.6	304.3	214.6	12.0	89.7	72.0	56.4	53.7	24.0	51.4
SMDH 00221	812579.1	8193500.1	159.9	3	4	90	2325.6	474.3	156.9	1108.4	1933.1	35308.5	324.0	406.7	315.1	8.8	91.5	78.3	72.1	64.4	18.3	82.4
SMDH 00221	812579.1	8193500.1	159.9	4	5	90	2076.0	311.4	136.3	1440.8	1683.0	30741.0	211.4	286.4	201.2	10.2	85.2	64.4	50.5	53.7	21.3	54.3
SMDH 00221	812579.1	8193500.1	159.9	5	6	85	2297.8	335.0	167.8	1626.7	1837.7	33565.9	228.1	323.6	213.0	15.0	110.6	85.0	59.8	62.9	32.6	46.2
SMDH 00221	812579.1	8193500.1	159.9	6	7	95	2019.6	357.2	171.8	1366.5	1518.8	27741.0	227.8	336.8	203.5	24.3	133.4	103.4	60.1	58.3	50.8	45.3
SMDH 00221	812579.1	8193500.1	159.9	7	8	35	1703.4	685.1	116.8	1013.2	831.8	15192.5	453.9	525.4	439.1	14.8	86.3	121.0	107.5	36.8	34.7	105.9
SMDH 00221	812579.1	8193500.1	159.9	8	9	90	1597.9	597.2	110.0	781.6	923.7	16871.9	395.6	461.1	381.3	14.3	79.8	110.0	98.4	35.3	30.2	88.2
SMDH 00017	812642.3	8193626.3	167.2	0	1	40	832.8	477.7	59.8	195.0	336.0	6137.9	319.3	355.8	311.2	8.1	44.6	78.9	73.0	16.9	19.7	76.8
SMDH 00017	812642.3	8193626.3	167.2	1	2	48	533.3	175.3	32.4	198.2	378.5	6913.0	118.2	135.3	115.1	3.2	20.2	29.6	27.2	10.7	6.3	28.9
SMDH 00017	812642.3	8193626.3	167.2	2	3	40	513.8	307.7	28.6	127.8	197.1	3600.0	206.1	219.7	202.5	3.6	17.3	44.9	46.9	7.7	6.0	49.7
SMDH 00017	812642.3	8193626.3	167.2	3	4	70	715.8	382.1	39.7	240.2	313.1	5718.7	253.8	274.1	249.7	4.1	24.3	56.4	60.0	12.3	8.0	60.6
SMDH 00017	812642.3	8193626.3	167.2	4	5	65	1174.4	601.1	65.2	536.4	484.9	8856.5	395.1	434.5	384.0	11.0	50.5	98.9	94.2	16.9	22.6	92.4
SMDH 00017	812642.3	8193626.3	167.2	5	6	90	1144.8	496.5	58.4	572.0	586.6	10714.0	327.3	358.5	321.0	6.4	37.5	73.8	77.1	18.4	12.7	77.6
SMDH 00017	812642.3	8193626.3	167.2	6	7	75	1287.9	611.2	106.3	526.4	579.5	10584.8	389.4	461.1	369.6	19.8	91.5	119.1	94.6	29.1	42.5	86.8
SMDH 00017	812642.3	8193626.3	167.2	7	8	95	1353.3	547.8	106.1	651.8	707.6	12924.5	348.6	419.4	331.0	17.5	88.3	109.1	85.2	30.7	40.1	76.7
SMDH 00017	812642.3	8193626.3	167.2	8	9	80	1161.3	495.9	82.8	567.4	578.1	10559.0	321.3	373.1	307.5	13.8	65.6	94.5	81.3	23.0	28.8	71.2
SMDH 00017	812642.3	8193626.3	167.2	9	10	60	1680.6	830.2	113.2	584.9	793.4	14492.0	554.1	626.5	534.7	19.4	91.8	141.5	125.3	30.7	41.8	134.1
SMDH 00016b	812697.5	8193623.2	165.7	0	1	35	1132.5	494.7	77.6	512.4	571.2	10432.6	317.8	370.0	303.4	14.4	66.6	94.1	76.4	19.9	32.3	67.1
SMDH 00016b	812697.5	8193623.2	165.7	1	2	40	1114.3	419.4	59.2	465.8	701.9	12821.2	275.3	311.0	267.0	8.3	43.9	73.9	68.3	16.9	18.8	65.2
SMDH 00016b	812697.5	8193623.2	165.7	2	3	75	1158.3	634.8	57.3	369.0	502.2	9172.3	420.9	448.4	416.1	4.8	32.3	85.9	97.1	18.4	9.1	100.6
SMDH 00016b	812697.5	8193623.2	165.7	3	4	85	1163.8	647.7	55.2	427.3	467.4	8537.9	431.8	457.5	427.1	4.7	30.3	89.4	101.1	16.9	8.8	101.8
SMDH 00016b	812697.5	8193623.2	165.7	4	5	65	719.1	436.7	44.6	156.0	271.1	4952.2	291.3	313.5	287.2	4.1	26.3	64.2	69.2	13.8	8.4	69.7
SMDH 00016b	812697.5	8193623.2	165.7	5	6	60	1272.6	586.4	94.8	549.9	598.8	10937.9	383.6	439.3	372.5	11.1	66.8	98.9	91.8	30.7	25.0	86.9
SMDH 00016b	812697.5	8193623.2	165.7	6	7	90	1617.0	795.8	93.4	640.6	753.8	13768.6	521.3	574.2	508.9	12.4	65.3	127.7	128.9	27.6	25.3	117.4
SMDH 00016b	812697.5	8193623.2	165.7	7	8	90	1648.0	833.9	102.7	893.3	612.7	11190.5	546.9	604.4	533.4	13.5	71.0	132.0	132.7	30.7	26.8	124.1
SMDH 00016b	812697.5	8193623.2	165.7	8	9	98	1474.8	734.5	86.9	700.7	618.3	11293.9	480.4	529.6	468.8	11.7	60.9	117.9	118.5	26.1	23.1	109.0
SMDH 00016b	812697.5	8193623.2	165.7	9	10	75	970.4	339.4	89.7	543.2	529.7	9674.7	215.1	277.4	199.9	15.2	77.5	80.9	54.5	26.1	36.2	44.6
SMDH 00016b	812697.5	8193623.2	165.7	10	11	90	1126.5	405.5	109.6	516.9	643.2	11747.5	261.0	331.0	244.2	16.8	86.9	94.5	70.0	33.7	36.3	54.5
SMDH 00016b	812697.5	8193623.2	165.7	11	12	85	1055.3	439.6	77.6	429.1	578.1	10559.0	285.2	333.5	273.5	11.7	60.0	85.0	73.6	23.0	25.3	60.9
SMDH 00016b	812697.5	8193623.2	165.7	12	13	85	1071.5	456.8	81.4	519.1	529.2	9666.1	296.2	344.5	285.6	10.7	59.0	82.2	74.3	26.1	22.2	65.7
SMDH 00016	812753.7	8193628.9	163.7	0	1	5	1063.4	702.5	55.4	351.8	277.9	5075.6	473.7	504.5	466.2	7.5	38.2	96.4	102.2	15.3	15.4	115.6
SMDH 00016	812753.7	8193628.9	163.7	1	2	50	1361.3	861.3	76.8	504.4	376.9	6884.3	589.0	635.1	576.0	13.0	59.1	122.5	122.9	19.9	26.2	149.8
SMDH 00016	812753.7	8193628.9	163.7	2	3	40	913.8	307.8	53.5	575.6	530.8	9694.8	192.8	232.1	183.4	9.4	48.7	65.1	48.6	13.8	25.5	46.8
SMDH 00016	812753.7	8193628.9	163.7	3	4	70	767.4	302.3	46.6	502.6	371.1	6778.1	192.5	223.3	184.1	8.4	39.2	56.0	46.5	12.3	18.5	42.9
SMDH 00016	812753.7	8193628.9	163.7	4	5	55	1601.6	604.9	158.8	962.3	763.4	13943.7	360.7	488.3	322.1	38.6	166.2	160.0	88.1	39.9	87.8	75.8
SMDH 00016	812753.7	8193628.9	163.7	5	6	90	2808.2	1198.1	198.1	1438.7	1371.5	25051.0	784.6	922.1	743.4	41.2	178.7	236.2	187.4	53.7	83.8	182.8
SMDH 00016	812753.7	8193628.9	163.7	6	7	80	2156.5	808.5	201.7	1305.0	1049.8	19174.4	508.4	659.4	460.8	47.6	198.7	200.6	123.5	52.1	98.9	110.6
SMDH 00016	812753.7	8193628.9	163.7	7	8	55	2357.7	855.2	177.0	1519.3	1209.1	22085.4	560.4	680.8	531.9	28.4	148.9	170.0	129.3	55.2	65.3	133.5
SMDH 00016	812753.7	8193628.9	163.7	8	9	65	1905.1	637.9	188.9	1332.5	938.6	17144.7	386.9	537.2	343.1	43.8	194.1	180.1	93.4	49.1	101.2	82.4
SMDH 00015b	812814.2	8193635.8	161.3	0	1	40	1788.5	953.6	110.0	672.1	735.1	13426.9	636.3	709.7	616.1	20.2	93.7	159.7	144.1	29.1	44.3	159.4
SMDH 00015b	812814.2	8193635.8	161.3	1	2	30	1128.5	646.3	66.9	362.1	431.8	7886.2	416.3	455.7	405.5	10.8	50.3	101.1	100.0	18.4	21.1	86.3
SMDH 00015b	812814.2	8193635.8	161.3	2	3	70	1120.7	566.3	77.2	511.9	451.6	8247.9	365.2	416.6	352.0	13.2	64.6	105.2	91.8	21.5	30.0	80.3
SMDH 00015b	812814.2	8193635.8	161.3	3	4	65	1160.3	427.0	59.3	570.5	708.7	12944.6	281.6	313.0	276.1	5.5	36.9	65.6	68.1	19.9	11.4	64.6
SMDH 00015b	812814.2	8193635.8	161.3	4	5	45	1295.7	512.7	60.8	465.3	827.2	15109.2	340.4	370.6	334.1	6.3	36.5	79.4	84.7	18.4	11.8	74.6
SMDH 00015b	812814.2	8193635.8	161.3	5	6	85	1120.3	504.7	99.5	456.4	533.6	9746.5	320.8	384.2	306.1	14.7	78.1	100.2	83.2	30.7	32.8	67.3
SMDH 00015b	812814.2	8193635.8	161.3	6	7	75	1445.9	702.4	123.8	685.1	577.0	10538.9	443.3	526.9	418.9	24.4	108.1	143.0	113.0	32.2	51.4	92.8
SMDH 00015b	812814.2	8193635.8	161.3	7	8	70	1328.1	653.9	131.0	598.0	506.9	9258.5	405.6	499.7	378.0	27.6	121.8	144.2	103.1	33.7	60.4	84.4
SMDH 00015b	812814.2	8193635.8	161.3	8	9	70	1145.3	582.4	129.0	606.3	345.2	6304.4	365.6	452.2	341.6	24.1	110.6	124.9	92.9	36.8	49.8	76.1
SMDH 00015b	812814.2	8193635.8	161.3	9	10	90	1308.2	643.4	116.2	564.6	530.3	9686.2	408.2	484.4	385.0	23.3	99.4	132.9	107.6	30.7	45.5	84.2
SMDH 00015b	812814.2	8193635.8	161.3	10	11	80	1280.6	518.6	110.1	509.2	705.4	12884.3	335.2	403.9	317.0	18.2	86.9	100.9	82.0	33.7	34.9	74.1
SMDH 00015b	812814.2	8193635.8	161.3	11	12	95	1447.8	728.9	120.5	422.2	668.5	12209.7	475.7	550.2	458.1	17.6	92.1	132.7	117.9	36.8	37.7	102.5
SMDH 00015b	812814.2	8193635.8	161.3	12	13	60	1252.8	563.6	80.5	730.8	539.7	9858.5	371.1	413.9	363.5	7.6	50.4	88.4	92.1	27.6	15.2	81.7
SMDH 00015b	812814.2	8193635.8	161.3	13	14	50	996.5	441.3	65.7	790.2	340.0	6209.6	297.0	328.2	292.9	4.1	35.2	65.3	73.3	24.5	6.6	67.7
SMDH 00015b	812814.2	8193635.8	161.3	14	15	55	1045.9	336.9	52.4	929.7	516.6	9436.5	224.2	250.1	221.1	3.2	29.1	50.8	54.8	19.9	6.0	50.0
SMDH 00015	812877.6	8193630.3	160.9	0	1	25	1075.0	558.1	64.9	890.7	239.2	4369.4	358.4	401.5	347.7	10.7	53.8	96.4	88.0	16.9	26.3	75.6
SMDH 00015	812877.6	8193630.3	160.9	1	2	65	1673.2	1232.7	127.2	427.3	254.1	4642.2	836.6	915.8	812.3	24.3	103.5	189.9	182.9	32.2	47.0	210.6

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00015	812877.6	8193630.3	160.9	2	3	75	1227.1	759.4	124.5	487.9	269.1	4914.9	503.1	581.2	481.1	22.0	100.1	134.0	114.4	35.3	42.8	118.9
SMDH 00015	812877.6	8193630.3	160.9	3	4	50	703.9	465.7	69.1	379.8	67.7	1237.3	304.2	345.3	293.0	11.1	52.3	85.6	76.1	18.4	22.7	65.6
SMDH 00015	812877.6	8193630.3	160.9	4	5	65	1451.9	644.2	134.7	533.3	724.6	13234.6	397.0	498.7	370.0	26.9	128.6	144.4	96.9	35.3	66.4	83.7
SMDH 00015	812877.6	8193630.3	160.9	5	6	90	1031.4	438.1	80.2	366.5	571.0	10429.8	277.8	331.2	264.4	13.4	66.8	85.2	68.4	23.0	30.4	60.6
SMDH 00015	812877.6	8193630.3	160.9	6	7	45	1284.2	597.7	108.1	523.5	592.5	10823.1	379.4	452.0	360.2	19.1	91.7	115.9	92.4	30.7	41.9	82.3
SMDH 00015	812877.6	8193630.3	160.9	7	8	75	726.3	257.7	44.5	296.0	475.3	8681.4	162.3	194.1	154.5	7.8	39.7	51.3	40.0	12.3	19.6	35.1
SMDH 00015	812877.6	8193630.3	160.9	8	9	45	500.7	199.6	39.7	304.7	236.1	4312.0	126.0	154.5	118.1	7.8	36.4	43.4	31.5	10.7	17.8	27.3
SMDH 00015	812877.6	8193630.3	160.9	9	10	50	801.6	444.0	80.6	459.5	186.6	3407.7	272.6	338.7	255.4	17.1	83.3	97.9	64.1	19.9	46.2	62.5
SMDH 00015	812877.6	8193630.3	160.9	10	11	60	940.0	471.8	71.1	481.9	349.9	6390.5	290.9	348.7	274.9	15.9	73.8	99.8	70.4	15.3	42.5	65.2
SMDH 00015	812877.6	8193630.3	160.9	11	12	90	829.9	461.4	66.9	543.4	183.3	3347.4	289.2	339.2	274.6	14.6	64.6	91.7	70.4	15.3	34.7	65.4
SMDH 00015	812877.6	8193630.3	160.9	12	13	60	1155.0	548.3	119.3	439.2	500.1	9135.0	335.1	423.9	309.4	25.8	114.5	124.6	81.7	30.7	58.0	71.5
SMDH 00014b	812936.2	8193626.4	162.3	0	1	50	1317.5	751.8	85.7	526.1	448.9	8199.1	482.2	533.4	468.2	14.0	65.2	124.4	120.9	23.0	28.2	104.4
SMDH 00014b	812936.2	8193626.4	162.3	1	2	50	2060.5	572.9	73.2	459.0	1830.3	33431.0	377.9	419.3	368.0	9.9	51.3	91.8	89.1	21.5	19.9	91.0
SMDH 00014b	812936.2	8193626.4	162.3	2	3	65	956.3	516.7	48.1	251.3	448.9	8199.1	339.9	365.9	333.1	6.8	32.8	80.4	82.1	12.3	13.7	79.0
SMDH 00014b	812936.2	8193626.4	162.3	3	4	80	899.6	287.3	26.5	124.3	788.8	14408.8	190.5	204.7	186.3	4.2	18.4	45.7	46.6	6.1	8.1	44.8
SMDH 00014b	812936.2	8193626.4	162.3	4	5	60	1336.8	560.7	41.4	192.6	972.1	17756.2	370.1	391.6	364.4	5.7	27.2	86.0	93.3	9.2	12.3	86.2
SMDH 00014b	812936.2	8193626.4	162.3	5	6	95	1096.6	749.7	48.0	357.2	265.8	4854.6	491.3	515.3	483.4	7.9	31.9	112.8	123.2	9.2	14.9	111.2
SMDH 00014b	812936.2	8193626.4	162.3	6	7	80	9090.3	1476.8	90.6	393.3	10687.4	195211.5	973.8	1016.0	958.5	15.3	57.6	218.3	244.9	16.9	25.4	217.8
SMDH 00014b	812936.2	8193626.4	162.3	7	8	70	1728.3	1298.0	80.9	588.9	231.0	4220.1	850.9	893.2	836.7	14.3	56.5	195.9	211.6	13.8	28.4	188.7
SMDH 00014b	812936.2	8193626.4	162.3	8	9	75	1178.8	783.8	54.9	258.3	371.4	6783.8	518.5	546.8	508.9	9.6	37.9	118.9	127.0	10.7	17.5	115.8
SMDH 00014b	812936.2	8193626.4	162.3	9	10	60	979.5	685.1	50.6	260.7	231.0	4220.1	456.2	481.3	448.7	7.5	32.6	102.3	110.1	10.7	14.3	104.3
SMDH 00014b	812936.2	8193626.4	162.3	10	11	60	850.2	719.9	51.6	233.8	5.0	91.9	476.1	502.4	467.6	8.5	34.9	109.1	116.9	10.7	15.6	107.5
SMDH 00014bt	812938.1	8193626.4	162.3	0	1	60	930.3	633.0	69.5	516.4	89.1	1627.8	414.3	453.4	404.7	9.5	48.6	99.2	100.9	19.9	19.2	89.5
SMDH 00014bt	812938.1	8193626.4	162.3	1	2	50	853.2	677.6	47.5	245.5	71.0	1297.6	450.2	475.6	442.3	7.9	33.4	103.7	109.5	9.2	16.3	103.4
SMDH 00014bt	812938.1	8193626.4	162.3	2	3	50	821.7	659.1	46.1	191.8	79.2	1446.9	443.0	465.8	436.5	6.5	29.3	93.3	102.2	10.7	12.1	107.9
SMDH 00014bt	812938.1	8193626.4	162.3	3	4	70	1401.2	1012.2	68.7	392.1	280.6	5124.5	660.2	694.7	650.8	9.4	43.9	182.7	201.0	12.3	22.2	216.0
SMDH 00014bt	812938.1	8193626.4	162.3	4	5	40	1368.1	974.6	70.9	519.5	224.8	4105.3	626.0	663.0	617.0	9.0	46.0	181.5	196.8	13.8	23.2	195.4
SMDH 00014bt	812938.1	8193626.4	162.3	5	6	80	1245.3	900.2	68.8	412.4	207.5	3789.5	581.9	618.3	573.1	8.7	45.1	159.1	172.7	13.8	22.6	187.4
SMDH 00014bt	812938.1	8193626.4	162.3	6	7	65	1265.1	979.0	70.9	278.6	181.5	3315.8	632.6	668.9	623.0	9.7	45.9	176.7	191.1	12.3	24.0	202.0
SMDH 00014bt	812938.1	8193626.4	162.3	7	8	80	1414.7	1003.6	82.3	412.1	283.5	5179.0	645.7	690.1	635.7	10.0	54.4	188.0	202.3	18.4	26.0	203.5
SMDH 00014bt	812938.1	8193626.4	162.3	8	9	80	1392.9	968.5	81.4	459.9	281.8	5147.4	611.8	655.6	601.5	10.3	54.1	174.0	186.4	18.4	25.4	192.5
SMDH 00014bt	812938.1	8193626.4	162.3	9	10	70	1017.1	618.7	71.6	383.5	294.1	5371.3	402.4	441.2	394.1	8.3	47.1	108.7	111.2	19.9	18.9	106.4
SMDH 00014bt	812938.1	8193626.4	162.3	10	11	85	620.0	287.8	41.7	233.8	311.2	5684.3	191.2	212.3	186.7	4.5	25.6	46.1	45.1	12.3	8.9	44.3
SMDH 00014	812998.9	8193622.5	164.1	0	1	35	1154.0	629.9	101.5	674.0	297.4	5431.6	414.6	473.7	400.9	13.6	72.8	108.1	101.2	32.2	26.9	94.1
SMDH 00014	812998.9	8193622.5	164.1	1	2	80	1015.2	448.1	48.7	544.9	495.7	9054.6	296.1	322.1	289.9	6.1	32.1	70.0	72.5	13.8	12.2	67.2
SMDH 00014	812998.9	8193622.5	164.1	2	3	80	3094.1	2285.3	130.6	468.1	762.4	13926.5	1618.1	1681.5	1603.5	14.6	77.9	272.0	317.9	36.8	26.5	461.3
SMDH 00014	812998.9	8193622.5	164.1	3	4	85	967.1	357.8	61.2	812.5	414.3	7567.5	238.6	269.6	233.0	5.6	36.6	57.6	60.1	21.5	9.5	53.5
SMDH 00014	812998.9	8193622.5	164.1	4	5	80	1318.2	469.4	69.1	697.8	802.2	14652.8	313.6	348.9	306.6	6.9	42.3	72.7	74.4	23.0	12.3	72.4
SMDH 00014	812998.9	8193622.5	164.1	5	6	95	1572.2	619.5	90.1	743.5	900.8	16452.8	409.6	458.1	399.6	10.0	58.6	99.0	100.0	29.1	19.4	91.2
SMDH 00014	812998.9	8193622.5	164.1	6	7	90	1265.3	519.3	98.5	755.6	584.4	10673.8	340.0	397.2	327.6	12.4	69.6	93.3	84.1	32.2	25.0	75.9
SMDH 00014	812998.9	8193622.5	164.1	7	8	95	1200.7	532.1	106.1	658.6	506.6	9252.7	347.4	414.4	330.9	16.4	83.4	100.4	81.4	32.2	34.8	77.6
SMDH 00014	812998.9	8193622.5	164.1	8	9	95	2043.7	585.3	147.6	790.4	1526.6	27884.5	378.2	469.5	357.0	21.2	112.5	116.7	90.4	47.5	43.8	84.4
SMDH 00013b	813060.3	8193622.6	163.4	0	1	50	1321.5	698.7	94.6	745.5	416.7	7610.6	458.2	513.1	445.0	13.2	68.1	117.6	112.6	27.6	27.3	99.7
SMDH 00013b	813060.3	8193622.6	163.4	1	2	65	1632.0	658.2	99.2	881.5	854.1	15600.2	434.6	488.3	424.6	10.0	63.7	106.2	107.5	33.7	19.9	97.7
SMDH 00013b	813060.3	8193622.6	163.4	2	3	70	1102.9	363.1	53.7	507.4	755.5	13800.1	235.3	269.3	226.4	8.9	42.9	66.0	58.4	15.3	18.7	54.7
SMDH 00013b	813060.3	8193622.6	163.4	3	4	90	812.9	274.7	52.0	630.0	409.7	7484.3	179.2	210.2	172.6	6.5	37.6	47.2	41.4	16.9	14.2	40.3
SMDH 00013b	813060.3	8193622.6	163.4	4	5	85	1647.4	601.9	67.4	1173.2	867.9	15852.8	416.9	453.2	410.8	6.1	42.4	80.4	84.5	23.0	13.3	112.8
SMDH 00013b	813060.3	8193622.6	163.4	5	6	95	982.9	204.1	59.8	769.2	681.3	12445.1	132.2	168.9	124.8	7.4	44.1	43.6	31.6	19.9	16.8	28.9
SMDH 00013b	813060.3	8193622.6	163.4	6	7	70	1106.6	364.5	91.3	591.1	665.6	12158.0	232.7	290.3	219.9	12.7	70.3	77.3	58.3	29.1	28.4	48.1
SMDH 00013b	813060.3	8193622.6	163.4	7	8	98	697.5	157.4	57.3	976.4	243.8	4452.7	101.5	135.7	95.5	6.0	40.2	34.9	23.9	19.9	14.3	22.2
SMDH 00013b	813060.3	8193622.6	163.4	8	9	85	1229.4	352.3	127.5	719.5	748.6	13673.8	219.0	306.6	194.6	24.4	112.0	96.3	53.3	36.8	50.8	44.2
SMDH 00013b	813060.3	8193622.6	163.4	9	10	85	1120.9	340.6	131.0	337.2	781.5	14273.8	208.2	299.5	184.6	23.6	114.9	95.5	51.6	39.9	51.4	41.4
SMDH 00013b	813060.3	8193622.6	163.4	10	11	95	1087.3	475.0	121.5	354.2	544.6	9947.5	301.0	385.7	276.9	24.2	108.8	118.1	77.1	32.2	52.4	63.1
SMDH 00034	812573.1	8193739.9	163.1	0	1	45	1364.7	811.2	57.1	286.1	584.4	10673.8	537.9	566.5	530.2	7.6	36.3	118.9	128.5	13.8	14.9	125.8
SMDH 00034	812573.1	8193739.9	163.1	1	2	40	8670.6	1787.3	68.2	192.8	9757.9	178233.4	1234.8	1266.3	1222.2	12.5	44.1	226.6	261.2	10.7	20.8	327.3
SMDH 00034	812573.1	8193739.9	163.1	2	3	90	1218.2	786.6	54.0	537.9	295.6	5400.1	520.6	552.3	511.5	9.2	40.9	117.1	123.1	12.3	19.4	125.8
SMDH 00034	812573.1	8193739.9	163.1	3	4	90	1593.8	688.4	57.1	832.9	838.5	15315.9	456.5	486.9	450.3	6.3	36.6	100.2	109.6	16.9	13.5	109.1
SMDH 00034	812573.1	8193739.9	163.1	4	5	90	1678.5	668.6	119.8	795.7	916.3	16737.0	434.3	510.0	413.9	20.4	96.0	127.4	108.2	35.3	40.4	96.1
SMDH 00034	812573.1	8193739.9	163.1	5	6	95	5459.8	902.3	63.5	516.6	6253.4	114222.2	602.1	635.3	593.8	8.3	41.5	129.0	141.1	16.9	16.4	148.0
SMDH 00034	812573.1	8193739.9	163.1	6	7	90	1288.3	655.0	50.4	394.9	658.7	12031.7	435.6	460.2	429.8	5.8	30.4	92.3	101.7	13.8	10.8	104.3
SMDH 00034	812573.1	8193739.9	163.1	7	8	85	1550.8	744.1	54.4	400.7	900.8	16452.8	496.5	522.0	490.4	6.0	31.5	106.0	120.3	15.3	10.2	116.9
SMDH 00033b	812636.9	8193737.4	163.7	0	1	50	2099.1	982.6	101.4	986.1	1008.3	18416.5	638.5	700.5	620.2	18.2	80.2	163.8	158.9	24.5	37.5	140.5
SMDH 00033b	812636.9	8193737.4	163.7	1	2	30	901.5	336.0	37.5	814.6	384.1	7016.3	221.3	241.9	216.2	5.0	25.7	52.1	52.1	10.7	9.9	50.9
SMDH 00033b	812636.9	8193737.4	163.7	2	3	85	948.8	247.0	49.7	550.4	686.5	12539.8	165.6	190.1	162.2	3.4	27.9	36.9	36.6	18.4	6.1	40.3
SMDH 00033b	812636.9	8193737.4	163.7	3	4	80	799.2	188.3	43.9	560.5	558.7	10205.8	126.5	148.2	123.8	2.8	24.5	28.8	29.3	16.9	4.8	30.1
SMDH 00033b	812636.9	8193737.4	163.7	4	5	90	831.7	235.2	51.2	473.3	567.9	10372.4	158.2	183.1	155.4	2.8	27.6	35.2	36.0	19.9	5.0	38.2
SMDH 00033b	812636.9	8193737.4	163.7	5	6	95	410.6	200.2	47.2	453.1	25.1	459.3	136.1	158.6	133.4	2.8	25.2	31.4	32.8	18.4	4.1	33.8
SMDH 00033b	812636.9	8193737.4	163.7	6	7	65	1382.2	616.9	96.7	523.0	723.0	13205.9	401.0	458.2	387.3	13.6	70.9	106.6	97.3	29.1	28.1	88.7
SMDH 00033b	812636.9	8193737.4	163.7	7	8	98	976.9	653.9	109.4	662.4	0.8	14.4	420.2	488.6	404.0	16.2	84.6	119.2	103.7	33.7	34.7	93.7
SMDH 00033b	812636.9	8193737.4	163.7	8	9	98	1423.2	576.1	109.4	693.7	743.4	13579.1	365.2	438.1	345.2	20.0	92.8	115.3	90.2	30.7	42.2	79.5
SMDH 00033b	812636.9	8193737.4	163.7	9	10	85	1074.1	638.2	113.8	706.7	136.9	2500.5	409.3	479.6	393.1	16.2	86.5	116.6	101.2	35.3	35.0	90.2

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00033b	812636.9	8193737.4	163.7	10	11	98	1493.4	680.8	88.3	759.4	693.6	12669.0	434.6	493.7	420.1	14.5	73.5	121.7	106.9	24.5	34.5	89.4
SMDH 00033b	812636.9	8193737.4	163.7	11	12	95	1356.0	613.5	90.8	613.9	656.2	11985.8	392.6	451.4	377.6	15.0	73.9	112.7	97.6	26.1	32.8	82.3
SMDH 00033b	812636.9	8193737.4	163.7	12	13	98	1550.2	908.2	132.6	1004.4	269.2	4917.8	583.0	674.7	557.8	25.2	116.9	165.5	134.5	35.3	56.4	125.8
SMDH 00033	812698.5	8193748.1	162.5	0	1	45	1550.9	1042.5	86.9	840.8	218.2	3984.7	681.0	734.9	665.2	15.8	69.7	172.7	171.7	19.9	33.9	144.7
SMDH 00033	812698.5	8193748.1	162.5	1	2	45	2705.3	1748.6	133.9	740.0	844.8	15430.8	1201.9	1286.9	1177.0	24.8	109.9	251.2	249.5	32.2	52.8	300.2
SMDH 00033	812698.5	8193748.1	162.5	2	3	80	2081.2	1283.2	117.0	561.3	723.0	13205.9	880.3	958.0	858.1	22.2	99.8	191.5	179.1	29.1	48.5	220.8
SMDH 00033	812698.5	8193748.1	162.5	3	4	55	1395.7	555.3	121.2	536.5	789.8	14426.0	352.7	442.3	326.9	25.8	115.4	131.4	86.7	30.7	58.9	70.6
SMDH 00033	812698.5	8193748.1	162.5	4	5	85	1388.2	516.2	112.9	542.5	844.8	15430.8	326.2	406.0	303.6	22.6	102.4	120.2	84.8	29.1	50.7	67.7
SMDH 00033	812698.5	8193748.1	162.5	5	6	50	1334.9	636.4	86.5	359.5	717.2	13099.7	422.6	475.8	409.1	13.5	66.8	109.9	100.5	24.5	28.7	100.0
SMDH 00033	812698.5	8193748.1	162.5	6	7	45	876.9	595.5	44.6	131.4	281.0	5133.1	394.3	418.0	388.2	6.1	29.8	90.0	95.6	10.7	13.0	91.6
SMDH 00033	812698.5	8193748.1	162.5	7	8	40	827.2	472.7	63.3	300.7	281.0	5133.1	311.0	348.2	302.4	8.6	45.8	77.5	73.4	18.4	18.8	74.1
SMDH 00033	812698.5	8193748.1	162.5	8	9	45	1173.5	409.9	80.4	382.5	809.4	14784.8	268.1	315.9	258.2	9.9	57.7	75.1	65.4	26.1	21.7	60.0
SMDH 00033	812698.5	8193748.1	162.5	9	9.5	60	849.6	420.2	50.2	164.5	471.5	8612.5	276.2	304.1	270.7	5.5	33.4	66.2	66.1	15.3	12.6	63.2
SMDH 00032b	812755.8	8193743.5	161.9	0	1	50	1323.7	668.0	55.7	909.8	444.0	8110.1	434.6	468.6	423.7	10.9	44.9	106.1	106.8	12.3	21.7	97.7
SMDH 00032b	812755.8	8193743.5	161.9	1	2	45	1262.0	746.2	58.9	566.6	396.9	7248.9	489.5	523.1	478.9	10.6	44.2	114.1	117.5	12.3	21.3	106.4
SMDH 00032b	812755.8	8193743.5	161.9	2	3	45	1205.3	411.6	103.6	458.8	784.0	14319.8	254.0	330.0	235.9	18.1	94.1	101.3	65.6	29.1	46.9	55.1
SMDH 00032b	812755.8	8193743.5	161.9	3	4	70	928.7	414.5	90.4	423.8	415.4	7587.6	262.9	323.9	247.5	15.5	76.5	87.3	64.5	26.1	34.9	55.4
SMDH 00032b	812755.8	8193743.5	161.9	4	5	50	981.8	368.4	64.4	407.4	603.9	11029.8	243.3	280.0	234.6	8.6	45.3	64.5	59.3	19.9	16.8	52.9
SMDH 00032b	812755.8	8193743.5	161.9	5	6	70	831.1	301.8	57.0	481.2	458.8	8380.0	196.3	229.9	189.5	6.9	40.4	53.8	47.8	18.4	15.1	43.3
SMDH 00032b	812755.8	8193743.5	161.9	6	7	90	964.6	427.8	59.5	338.8	532.0	9717.8	282.6	314.2	274.9	7.8	39.4	70.3	71.0	18.4	13.2	62.3
SMDH 00032b	812755.8	8193743.5	161.9	7	8	60	535.2	184.5	33.0	344.4	298.9	5460.3	125.1	141.6	122.3	2.9	19.3	31.6	30.1	10.7	5.7	29.0
SMDH 00032	812820.9	8193746.0	160.8	0	1	40	656.4	322.4	36.0	308.9	287.0	5242.2	217.3	236.4	211.5	5.7	24.8	52.1	53.0	9.2	9.9	52.5
SMDH 00032	812820.9	8193746.0	160.8	1	2	35	660.3	392.3	31.5	225.4	236.9	4326.4	262.4	278.7	257.5	4.9	21.2	55.5	61.1	7.7	8.6	55.6
SMDH 00032	812820.9	8193746.0	160.8	2	3	40	614.0	395.9	34.8	174.1	183.9	3358.9	262.8	281.4	257.9	4.9	23.5	59.8	63.3	9.2	9.4	59.9
SMDH 00032	812820.9	8193746.0	160.8	3	4	65	1613.8	518.6	104.0	795.3	1062.5	19406.9	335.2	401.2	320.9	14.3	80.3	99.8	84.2	33.7	32.3	71.9
SMDH 00032	812820.9	8193746.0	160.8	4	5	95	659.7	421.0	31.7	321.5	149.8	2735.9	277.6	295.2	272.5	5.2	22.7	65.5	66.4	6.1	11.4	64.7
SMDH 00032	812820.9	8193746.0	160.8	5	6	90	487.6	236.0	32.8	174.7	234.8	4289.0	158.6	174.8	153.7	4.9	21.1	39.9	40.3	9.2	7.0	36.6
SMDH 00032	812820.9	8193746.0	160.8	6	7	60	702.1	414.6	39.5	183.6	273.0	4986.7	275.7	296.9	270.0	5.7	26.9	65.8	65.8	9.2	11.9	60.3
SMDH 00032	812820.9	8193746.0	160.8	7	8	80	393.6	95.6	31.2	230.9	278.2	5081.4	65.7	80.9	62.8	2.9	18.0	18.7	15.2	10.7	4.4	14.4
SMDH 00032	812820.9	8193746.0	160.8	8	9	80	443.8	105.1	36.9	242.1	323.5	5908.2	72.2	90.8	67.6	4.6	23.2	21.8	16.6	12.3	6.3	15.7
SMDH 00032	812820.9	8193746.0	160.8	9	10	70	522.7	289.0	34.9	180.3	203.5	3717.7	195.7	212.5	190.8	4.9	21.7	51.4	49.7	7.7	9.1	43.2
SMDH 00031b	812872.2	8193749.3	160.2	0	1	25	949.9	496.8	52.5	661.5	271.3	4955.1	323.7	356.8	314.0	9.8	42.9	84.9	80.2	12.3	20.8	70.7
SMDH 00031b	812872.2	8193749.3	160.2	1	2	90	1167.6	589.1	65.4	647.2	440.6	8047.0	390.4	428.3	378.4	12.0	49.9	102.9	99.7	15.3	22.5	87.4
SMDH 00031b	812872.2	8193749.3	160.2	2	3	85	899.9	483.1	56.4	349.8	358.2	6542.7	322.4	349.7	314.6	7.8	35.0	77.2	80.9	15.3	11.9	73.1
SMDH 00031b	812872.2	8193749.3	160.2	3	4	75	838.9	457.8	47.4	266.7	358.2	6542.7	303.1	327.1	298.3	4.9	28.8	71.1	75.4	13.8	10.2	68.0
SMDH 00031b	812872.2	8193749.3	160.2	4	5	80	902.7	433.2	50.4	240.0	494.2	9025.9	289.3	313.5	284.4	4.9	29.1	66.3	71.1	15.3	8.9	64.5
SMDH 00031b	812872.2	8193749.3	160.2	5	6	90	819.1	354.1	46.9	320.7	455.0	8311.1	236.4	260.0	230.7	5.7	29.3	57.8	58.8	13.8	9.8	52.5
SMDH 00031b	812872.2	8193749.3	160.2	6	7	50	815.6	454.9	48.8	283.0	319.2	5830.7	303.2	329.4	295.4	7.8	34.0	76.9	77.6	12.3	14.0	69.3
SMDH 00031b	812872.2	8193749.3	160.2	7	8	90	621.4	352.1	36.2	241.9	224.4	4099.6	236.0	253.2	231.1	4.9	22.1	53.7	56.0	9.2	8.0	54.5
SMDH 00031b	812872.2	8193749.3	160.2	8	9	655	830.7	486.4	46.9	282.0	298.6	5454.6	324.0	345.5	316.2	7.8	29.3	76.0	81.2	10.7	10.8	72.6
SMDH 00031b	812872.2	8193749.3	160.2	9	10	85	771.7	461.6	45.7	283.8	250.1	4567.5	307.7	328.6	302.8	4.9	25.8	70.4	75.5	12.3	8.6	68.3
SMDH 00031	812936.4	8193743.8	160.4	0	1	45	953.0	471.4	50.8	486.7	396.2	7237.4	310.1	339.0	302.3	7.8	36.7	80.7	78.2	12.3	16.6	67.1
SMDH 00031	812936.4	8193743.8	160.4	1	2	40	1120.2	596.7	66.3	457.0	448.1	8184.8	396.8	432.1	385.9	10.9	46.2	96.5	96.4	16.9	18.4	90.2
SMDH 00031	812936.4	8193743.8	160.4	2	3	45	1723.8	978.9	76.9	761.0	611.6	11170.4	641.9	683.7	629.8	12.1	53.8	150.8	157.3	16.9	24.9	139.7
SMDH 00031	812936.4	8193743.8	160.4	3	4	65	991.3	266.1	44.0	818.4	603.9	11029.8	171.2	196.8	165.5	5.7	31.3	47.1	43.0	13.8	11.8	36.4
SMDH 00031	812936.4	8193743.8	160.4	4	5	95	1156.8	264.9	43.8	886.0	813.5	14859.5	173.4	197.5	167.6	5.7	29.8	45.5	43.0	13.8	10.3	36.9
SMDH 00031	812936.4	8193743.8	160.4	5	6	95	1428.2	428.8	54.8	1185.9	813.5	14859.5	282.7	312.5	276.1	6.6	36.4	68.9	69.7	16.9	13.0	63.0
SMDH 00031	812936.4	8193743.8	160.4	6	7	85	1799.5	707.1	92.5	1067.3	948.7	17328.4	472.2	519.3	463.6	8.6	55.7	106.1	112.1	30.7	16.4	103.7
SMDH 00031	812936.4	8193743.8	160.4	7	8	55	1515.0	672.9	79.1	773.2	743.1	13573.3	446.8	490.4	435.9	10.9	54.5	104.5	105.9	23.0	20.6	98.6
SMDH 00031	812936.4	8193743.8	160.4	8	9	98	1974.1	953.3	104.0	922.5	895.9	16363.8	629.3	688.1	615.0	14.4	73.1	151.9	152.5	29.1	29.6	136.7
SMDH 00031	812936.4	8193743.8	160.4	9	10	95	2002.2	1013.7	111.6	859.5	867.6	15847.1	623.9	681.8	609.6	14.4	72.2	161.2	164.9	30.7	27.2	126.1
SMDH 00031	812936.4	8193743.8	160.4	10	11	98	2209.2	1088.1	126.9	911.6	1012.8	18499.7	657.9	729.0	640.1	17.8	88.9	178.0	175.1	35.3	35.8	131.0
SMDH 00030b	812997.7	8193743.4	161.2	0	1	80	1743.2	788.1	106.6	901.0	807.2	14744.6	475.8	537.1	462.6	13.2	74.5	125.4	122.6	33.7	27.6	97.8
SMDH 00030b	812997.7	8193743.4	161.2	1	2	55	1297.7	562.2	91.7	691.9	608.6	11115.9	342.5	393.8	329.3	13.2	64.6	92.1	87.2	29.1	22.2	72.1
SMDH 00030b	812997.7	8193743.4	161.2	2	3	90	866.0	570.2	39.1	180.6	287.0	5242.2	379.4	397.4	373.7	5.7	23.7	79.0	87.8	9.2	8.8	89.8
SMDH 00030b	812997.7	8193743.4	161.2	3	4	70	773.6	373.1	47.9	392.4	327.2	5977.1	243.8	274.2	236.9	6.9	37.3	60.0	54.7	13.8	16.6	57.7
SMDH 00030b	812997.7	8193743.4	161.2	4	5	50	924.1	356.7	52.0	573.4	478.3	8736.0	234.9	264.6	229.2	5.7	35.4	56.2	54.3	16.9	12.8	53.8
SMDH 00030b	812997.7	8193743.4	161.2	5	6	98	1196.5	413.8	65.5	749.4	687.9	12565.7	276.4	308.7	270.7	5.7	38.0	60.8	64.9	23.0	9.3	62.6
SMDH 00030b	812997.7	8193743.4	161.2	6	7	85	808.3	290.9	55.1	422.5	471.5	8612.5	191.8	223.1	186.0	5.7	37.1	49.4	45.0	18.4	13.0	42.2
SMDH 00030b	812997.7	8193743.4	161.2	7	7.5	80	428.7	169.4	36.2	112.2	270.2	4935.0	110.4	133.1	104.7	5.7	28.4	34.3	27.1	10.7	11.9	25.1
SMDH 00030	813059.0	8193742.7	161.1	0	1	20	1360.4	671.5	81.1	633.1	583.9	10665.2	444.0	488.2	431.9	12.1	56.3	104.3	102.4	21.5	22.7	96.4
SMDH 00030	813059.0	8193742.7	161.1	1	2	50	837.1	314.7	48.5	447.7	476.5	8704.4	207.2	235.8	200.6	6.6	35.2	55.2	51.5	15.3	13.2	45.0
SMDH 00030	813059.0	8193742.7	161.1	2	3	40	605.5	187.0	34.2	372.7	381.9	6976.1	122.8	142.8	118.2	4.6	24.6	32.9	28.8	10.7	9.3	27.1
SMDH 00030	813059.0	8193742.7	161.1	3	4	60	745.5	183.9	46.6	666.6	434.3	7932.1	121.3	146.8	116.7	4.6	30.1	31.1	27.4	16.9	8.6	26.6
SMDH 00030	813059.0	8193742.7	161.1	4	5	60	1362.4	548.1	96.3	541.6	785.7	14351.3	361.9	415.9	351.0	10.9	64.8	90.5	86.8	32.2	21.7	79.3
SMDH 00030	813059.0	8193742.7	161.1	5	6	85	858.8	286.8	56.7	576.9	476.5	8704.4	188.1	221.5	182.3	5.7	39.1	48.7	44.0	19.9	13.5	42.6
SMDH 00030	813059.0	8193742.7	161.1	6	7	80	808.4	237.7	53.1	772.7	388.7	7099.6	157.7	186.0	152.0	5.7	34.0	39.3	36.6	18.4	9.9	35.3
SMDH 00030	813059.0	8193742.7	161.1	7	8	85	857.5	256.3	57.0	761.0	432.5	7900.6	165.0	200.5	159.2	5.7	41.3	46.2	38.1	19.9	15.6	36.9
SMDH 00030	813059.0	8193742.7	161.1	8	9	98	1087.5	362.0	79.0	608.1	651.5	11899.6	236.1	283.4	226.3	9.8	57.0	67.8	58.0	26.1	21.2	50.9
SMDH 00030	813059.0	8193742.7	161.1	9	10	90	1698.7	689.3	189.0	748.2	837.7	15301.6	441.7	558.7	416.5	25.2	142.2	139.9	107.6	64.4	52.6	96.4
SMDH 00030	813059.0	8193742.7	161.1	10	11	90	1245.3	414.2	132.6	689.6	688.7	12580.0	261.9	346.3	245.6	16.3	100.7	90.7	64.3	46.0	38.4	56.6

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00030	813059.0	8193742.7	161.1	11	12	75	1258.4	355.3	118.5	853.5	737.0	13461.4	226.3	296.3	214.3	12.0	82.1	70.9	56.0	44.5	25.5	48.9
SMDH 00030	813059.0	8193742.7	161.1	12	13	95	1158.5	246.5	79.3	769.1	845.7	15448.0	163.6	205.3	157.0	6.6	48.3	43.7	39.8	30.7	11.0	37.1
SMDH 00030	813059.0	8193742.7	161.1	13	14	90	1263.7	446.2	94.6	787.0	678.7	12396.3	299.5	353.1	287.5	12.0	65.6	74.9	67.6	32.2	21.3	71.9
SMDH 00030	813059.0	8193742.7	161.1	14	15	96	1586.4	585.1	94.0	801.6	938.3	17138.9	388.2	436.1	380.4	7.8	55.7	86.5	92.1	33.7	14.2	88.4
SMDH 00030	813059.0	8193742.7	161.1	15	15.5	90	1596.3	787.5	94.6	716.9	698.8	12763.8	526.8	571.9	516.7	10.1	55.2	116.2	126.1	29.1	16.0	120.6
SMDH 00029b	813118.0	8193744.6	160.2	0	1	40	1272.5	720.4	70.2	843.6	304.1	5555.1	475.2	515.0	463.2	12.1	51.8	111.4	112.2	16.9	22.9	106.0
SMDH 00029b	813118.0	8193744.6	160.2	1	2	35	1291.8	627.9	83.0	843.3	447.5	8173.3	409.6	458.4	396.4	13.2	62.0	105.0	100.3	23.0	25.8	92.7
SMDH 00029b	813118.0	8193744.6	160.2	2	3	50	852.8	467.6	50.1	568.5	220.0	4019.2	300.1	331.7	291.5	8.6	40.2	79.1	74.8	12.3	19.3	65.7
SMDH 00029b	813118.0	8193744.6	160.2	3	4	40	1191.5	775.7	66.6	530.0	258.2	4716.8	502.6	544.5	489.6	13.0	54.8	129.0	126.9	13.8	28.1	108.8
SMDH 00029b	813118.0	8193744.6	160.2	4	5	80	1675.9	776.7	114.1	645.0	834.6	15244.2	506.1	576.0	488.6	17.5	87.4	139.1	126.6	32.2	37.7	112.7
SMDH 00029b	813118.0	8193744.6	160.2	5	6	90	1638.4	636.2	94.5	649.2	1009.8	18445.2	423.2	472.6	413.4	9.8	59.2	102.7	104.3	30.7	18.8	94.6
SMDH 00029b	813118.0	8193744.6	160.2	6	7	65	1670.0	729.0	113.2	612.7	911.3	16645.1	484.9	549.8	469.4	15.5	80.3	121.6	115.1	35.3	29.6	110.8
SMDH 00029b	813118.0	8193744.6	160.2	7	8	65	1527.8	628.0	113.2	710.7	806.1	14724.6	413.8	478.4	399.4	14.3	78.9	112.0	102.4	35.3	29.3	90.8
SMDH 00029b	813118.0	8193744.6	160.2	8	9	50	1459.3	629.2	113.8	610.5	751.3	13722.6	410.0	480.2	392.5	17.5	87.7	118.0	101.1	33.7	36.4	91.0
SMDH 00029b	813118.0	8193744.6	160.2	9	10	95	1523.7	676.3	107.7	664.3	760.1	13883.4	440.9	508.8	423.4	17.5	85.4	125.7	109.5	30.7	37.2	98.9
SMDH 00029b	813118.0	8193744.6	160.2	10	11	50	1613.5	653.5	104.1	780.2	874.0	15964.8	429.1	490.8	413.6	15.5	77.3	117.3	106.5	30.7	31.1	95.8
SMDH 00029b	813118.0	8193744.6	160.2	11	12	95	1429.4	606.0	101.3	722.5	707.6	12924.5	394.0	457.2	378.6	15.5	78.7	110.9	96.4	29.1	34.0	84.9
SMDH 00029b	813118.0	8193744.6	160.2	12	13	85	1480.6	653.5	124.3	798.6	644.4	11770.5	430.0	502.5	415.7	14.3	86.9	113.8	103.2	41.4	31.1	97.5
SMDH 00028b	813234.4	8193744.8	159.9	0	1	30	1245.5	740.0	67.9	693.4	309.9	5661.3	475.5	522.6	459.9	15.6	62.7	127.3	116.3	12.3	34.8	104.7
SMDH 00028b	813234.4	8193744.8	159.9	1	2	60	1192.7	500.1	99.1	568.9	593.2	10834.6	321.7	384.0	308.5	13.2	75.5	93.0	78.7	32.2	30.1	70.6
SMDH 00028b	813234.4	8193744.8	159.9	2	3	40	705.7	237.1	60.8	354.4	424.5	7754.1	155.9	189.3	149.3	6.6	40.0	42.2	37.1	21.5	11.9	35.1
SMDH 00028b	813234.4	8193744.8	159.9	3	4	70	1061.5	389.4	86.6	597.3	568.5	10383.8	251.8	302.5	242.0	9.8	60.5	67.8	59.3	30.7	20.1	55.7
SMDH 00028b	813234.4	8193744.8	159.9	4	5	75	927.1	328.3	75.0	531.4	509.9	9313.0	215.1	256.3	207.6	7.5	48.7	55.9	49.7	26.1	15.1	48.1
SMDH 00028b	813234.4	8193744.8	159.9	5	6	80	1177.5	168.6	132.5	249.7	1150.3	21011.7	103.6	181.5	91.6	12.0	90.0	49.0	27.1	52.1	25.8	20.3
SMDH 00028b	813234.4	8193744.8	159.9	6	7	90	1287.5	181.9	159.2	242.4	1254.7	22917.9	114.4	206.0	102.4	12.0	103.6	58.6	35.9	64.4	27.2	25.8
SMDH 00028b	813234.4	8193744.8	159.9	7	8	80	991.4	169.4	98.3	219.2	944.0	17242.3	105.4	166.2	94.5	10.9	71.7	50.0	28.5	35.3	25.5	20.4
SMDH 00028b	813234.4	8193744.8	159.9	8	8.5	20	398.5	139.2	44.0	163.5	235.1	4294.8	84.2	118.1	75.2	9.1	42.9	44.2	23.4	10.7	23.1	15.1
SMDH 00028	813293.1	8193739.4	160.2	0	1	25	806.7	491.5	48.0	425.7	188.1	3436.4	320.8	350.8	311.9	8.9	38.9	81.0	77.5	10.7	19.3	71.1
SMDH 00028	813293.1	8193739.4	160.2	1	2	60	1986.1	1008.6	102.0	995.2	802.4	14655.7	650.5	722.6	628.4	22.1	94.2	177.7	160.0	21.5	50.7	141.2
SMDH 00028	813293.1	8193739.4	160.2	2	3	50	1364.0	683.6	67.3	638.1	589.2	10762.8	445.2	487.7	433.2	12.0	54.6	111.9	108.9	16.9	25.7	100.5
SMDH 00028	813293.1	8193739.4	160.2	3	4	45	1056.2	457.1	58.6	489.5	553.4	10108.2	296.4	332.0	285.5	10.9	46.4	76.1	70.7	15.3	20.2	64.9
SMDH 00028	813293.1	8193739.4	160.2	4	5	50	1216.5	524.9	61.9	601.2	630.4	11514.9	342.7	381.0	331.8	10.9	49.2	85.6	80.7	16.9	21.5	77.4
SMDH 00028	813293.1	8193739.4	160.2	5	6	75	1147.6	524.9	66.3	507.8	567.9	10372.4	346.5	385.1	337.9	8.6	47.2	85.1	82.1	19.9	18.7	78.3
SMDH 00028	813293.1	8193739.4	160.2	6	7	85	974.1	443.5	49.1	476.9	474.0	8658.5	294.2	320.6	289.3	4.9	31.3	69.6	73.8	15.3	11.0	67.8
SMDH 00027b	813377.3	8193734.7	160.6	0	1	50	1635.3	773.1	88.3	829.1	732.9	13386.7	497.4	559.0	480.8	16.6	78.2	139.2	123.7	21.5	40.1	109.5
SMDH 00027b	813377.3	8193734.7	160.6	1	2	20	873.8	470.1	55.5	337.3	346.4	6327.3	304.6	343.5	293.8	10.8	49.7	88.5	76.2	12.3	26.7	65.9
SMDH 00027b	813377.3	8193734.7	160.6	2	3	70	1333.6	524.5	103.6	569.4	754.7	13785.8	331.4	404.7	313.9	17.5	90.8	111.4	85.7	30.7	42.7	72.1
SMDH 00027b	813377.3	8193734.7	160.6	3	4	85	1582.5	622.5	120.5	817.4	833.2	15218.3	395.1	480.6	371.0	24.0	109.6	133.7	100.2	32.2	53.3	85.7
SMDH 00027b	813377.3	8193734.7	160.6	4	5	98	1680.2	699.4	97.9	862.2	875.1	15984.9	454.5	515.0	441.3	13.2	73.7	122.2	113.7	29.1	31.4	100.7
SMDH 00027b	813377.3	8193734.7	160.6	5	6	90	1709.3	822.4	90.0	806.3	776.7	14187.7	537.9	592.7	524.7	13.2	68.1	130.6	127.7	24.5	30.4	124.6
SMDH 00029	813181.3	8193750.9	160.2	0	1	20	1473.4	900.6	83.4	1017.5	234.2	4277.6	548.3	637.0	529.2	19.1	107.8	188.4	141.0	13.8	74.9	116.5
SMDH 00029	813181.3	8193750.9	160.2	1	2	75	1161.6	501.1	67.0	550.3	601.7	10989.6	324.8	367.0	313.9	10.9	53.2	83.3	75.9	18.4	23.9	74.1
SMDH 00029	813181.3	8193750.9	160.2	2	3	70	1331.7	595.2	76.3	554.2	696.4	12720.7	390.9	435.6	378.9	12.0	56.8	97.8	95.3	21.5	23.2	91.0
SMDH 00029	813181.3	8193750.9	160.2	3	4	85	1239.6	524.8	74.1	499.5	693.6	12669.0	338.0	387.5	325.9	12.0	61.6	90.2	77.9	19.9	29.6	76.9
SMDH 00029	813181.3	8193750.9	160.2	4	5	95	1249.4	526.6	89.5	520.7	673.2	12295.8	333.5	396.3	318.0	15.5	78.3	100.0	78.7	24.5	38.2	74.0
SMDH 00029	813181.3	8193750.9	160.2	5	6	98	1461.5	638.4	87.4	718.4	729.0	13315.0	412.0	469.3	397.7	14.4	71.7	107.7	94.4	23.0	34.3	93.7
SMDH 00029	813181.3	8193750.9	160.2	6	7	90	1291.9	544.4	67.8	628.9	689.8	12600.1	357.1	395.7	348.4	8.6	47.2	81.6	81.8	19.9	18.7	84.2
SMDH 00029	813181.3	8193750.9	160.2	7	8	50	1240.9	490.8	67.8	556.7	727.2	13283.4	320.9	359.3	312.3	8.6	47.0	75.5	73.8	19.9	18.4	74.8
SMDH 00029	813181.3	8193750.9	160.2	8	9	75	1296.1	510.6	68.1	557.1	777.5	14202.1	331.8	372.4	323.2	8.6	49.3	80.1	77.1	19.9	20.7	76.7
SMDH 00029	813181.3	8193750.9	160.2	9	10	95	1471.0	595.9	98.2	625.9	831.6	15189.6	386.3	447.6	370.8	15.5	76.8	104.7	91.3	27.6	33.7	87.7
SMDH 00029	813181.3	8193750.9	160.2	10	11	95	1477.8	554.5	112.0	732.1	832.1	15198.2	361.8	427.3	346.3	15.5	81.0	105.1	91.4	33.7	31.7	75.5
SMDH 00029	813181.3	8193750.9	160.2	11	12	90	1406.2	541.5	104.5	616.9	811.6	14825.0	351.8	416.7	336.3	15.5	80.4	108.7	92.1	30.7	34.2	71.7
SMDH 00027	813413.8	8193738.6	160.4	0	1	45	2195.7	1081.9	155.6	1089.3	878.3	16042.3	690.4	797.2	659.4	31.0	137.8	205.6	174.7	39.9	66.9	145.1
SMDH 00027	813413.8	8193738.6	160.4	1	2	35	1838.1	934.3	126.7	797.0	752.4	13742.7	603.6	685.8	582.6	21.0	103.2	172.0	153.2	33.7	48.5	127.4
SMDH 00027	813413.8	8193738.6	160.4	2	3	45	1965.0	925.5	120.5	927.5	896.8	16381.0	606.9	677.8	590.2	16.7	87.6	155.7	150.0	35.3	35.7	132.3
SMDH 00027	813413.8	8193738.6	160.4	3	4	65	1886.4	861.8	122.0	852.2	908.0	16584.9	560.9	633.3	545.4	15.5	87.9	147.4	139.8	36.8	35.6	120.2
SMDH 00027	813413.8	8193738.6	160.4	4	5	60	2141.1	1065.8	137.1	835.6	967.2	17667.2	695.6	779.4	673.8	21.8	105.6	185.6	173.2	36.8	47.0	149.6
SMDH 00027	813413.8	8193738.6	160.4	5	6	60	1532.1	589.2	83.7	833.2	854.2	15603.0	389.5	435.6	379.7	9.8	55.9	97.0	94.9	26.1	20.1	85.3
SMDH 00027	813413.8	8193738.6	160.4	6	7	70	1610.8	689.7	96.2	752.2	842.3	15384.8	449.3	510.1	435.0	14.3	75.1	109.7	101.4	29.1	31.6	103.9
SMDH 00027	813413.8	8193738.6	160.4	7	8	95	1853.5	866.9	126.0	844.3	850.9	15542.7	565.2	644.4	541.1	24.1	103.3	157.6	139.5	32.2	47.0	124.2
SMDH 00027	813413.8	8193738.6	160.4	8	9	80	2286.3	1026.2	226.8	1078.8	991.6	18112.1	636.9	804.2	586.5	50.4	217.6	233.2	158.5	59.8	107.4	134.1
SMDH 00026b	813472.7	8193743.5	160.4	0	1	35	1591.0	835.4	100.1	838.4	557.5	10182.9	533.6	606.0	511.8	21.8	94.2	154.6	130.8	21.5	50.9	116.7
SMDH 00026b	813472.7	8193743.5	160.4	1	2	50	1240.9	564.1	84.1	579.3	587.0	10722.6	362.7	417.4	347.2	15.5	70.2	106.6	91.2	21.5	33.3	79.3
SMDH 00026b	813472.7	8193743.5	160.4	2	3	40	1200.4	550.0	92.7	545.3	552.3	10088.1	350.2	414.8	331.5	18.6	83.3	112.7	87.9	23.0	41.7	75.4
SMDH 00026b	813472.7	8193743.5	160.4	3	4	85	1794.3	830.0	127.2	857.3	811.0	14813.5	532.7	618.2	506.3	26.3	111.9	158.5	131.3	30.7	54.9	114.7
SMDH 00026b	813472.7	8193743.5	160.4	4	5	80	1470.4	741.7	112.0	672.3	578.6	10567.6	485.7	558.7	461.6	24.1	97.0	144.7	117.5	26.1	46.9	100.7
SMDH 00026b	813472.7	8193743.5	160.4	5	6	80	1310.1	713.0	97.3	550.2	466.5	8520.7	469.0	530.6	451.2	17.8	79.4	134.9	117.9	24.5	37.1	100.6
SMDH 00026b	813472.7	8193743.5	160.4	6	7	95	1723.6	886.3	122.4	833.8	645.4	11787.7	571.8	654.8	546.6	25.2	108.2	169.2	140.6	29.1	53.8	118.5
SMDH 00026b	813472.7	8193743.5	160.4	7	8	50	1727.7	867.4	120.7	741.6	723.9	13223.1	562.2	645.0	537.0	25.2	108.0	165.4	137.1	29.1	53.6	120.8
SMDH 00026b	813472.7	8193743.5	160.4	8	9	50	1602.3	843.1	115.7	716.0	596.9	10903.5	548.5	624.6	528.4	20.1	96.2	152.6	131.3	30.7	45.5	118.3
SMDH 00026b	813472.7	8193743.5	160.4	9	10	80	1903.8	1002.9	141.2	739.1	754.1	13774.3	648.3	744.5	617.3	31.0	127.2	193.3	157.5	32.2	64.0	133.8

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00026b	813472.7	8193743.5	160.4	10	11	75	1852.4	941.7	117.4	886.7	734.0	13406.8	615.9	691.2	594.6	21.2	96.6	166.2	148.0	29.1	46.2	130.1
SMDH 00026b	813472.7	8193743.5	160.4	11	11.5	50	1358.8	663.1	73.7	1098.9	387.7	7082.4	414.8	475.1	403.0	11.8	72.1	123.1	102.2	18.4	41.9	90.9
SMDH 00026	813544.0	8193747.5	161.0	0	1	35	1555.3	843.4	107.3	768.7	516.3	9430.7	541.3	612.2	523.5	17.8	88.7	143.1	129.3	29.1	41.8	116.8
SMDH 00026	813544.0	8193747.5	161.0	1	2	15	1483.2	736.6	115.3	609.5	628.8	11486.2	470.5	547.0	450.7	19.8	96.3	136.7	113.1	30.7	45.8	101.0
SMDH 00026	813544.0	8193747.5	161.0	2	3	45	1658.2	775.3	132.4	773.8	724.7	13237.5	496.1	581.7	472.0	24.1	109.7	148.9	125.0	36.8	48.8	103.8
SMDH 00026	813544.0	8193747.5	161.0	3	4	90	1567.3	737.1	130.7	643.6	711.7	12999.2	465.7	557.0	440.5	25.2	116.5	153.0	117.1	33.7	57.5	96.2
SMDH 00026	813544.0	8193747.5	161.0	4	5	95	1700.1	836.2	142.2	748.2	695.2	12697.7	531.4	629.3	503.9	27.5	125.4	167.1	131.4	36.8	61.1	112.2
SMDH 00026	813544.0	8193747.5	161.0	5	6	90	1982.8	974.3	165.1	923.8	789.2	14414.5	629.1	732.2	601.6	27.6	130.6	184.0	157.6	46.0	57.0	132.5
SMDH 00026	813544.0	8193747.5	161.0	6	7	90	1828.5	912.7	140.3	728.6	781.8	14279.6	592.2	677.4	571.2	21.0	106.2	160.7	144.7	39.9	45.3	126.7
SMDH 00026	813544.0	8193747.5	161.0	7	8	85	2412.0	1219.7	168.6	1008.4	1010.5	18456.6	806.2	901.9	779.8	26.4	122.1	210.1	202.4	47.5	48.1	179.0
SMDH 00026	813544.0	8193747.5	161.0	8	9	90	2131.6	1063.8	119.5	858.8	971.0	17736.1	715.8	780.0	699.1	16.7	80.9	152.5	151.4	35.3	29.0	123.7
SMDH 00026	813544.0	8193747.5	161.0	9	10	95	2001.8	1043.3	133.8	694.4	868.9	15870.0	690.9	771.5	667.7	23.2	103.9	163.8	146.2	36.8	43.8	115.2
SMDH 00026	813544.0	8193747.5	161.0	10	11	70	2410.3	1251.9	134.9	1092.4	971.0	17736.1	831.4	907.2	811.3	20.1	95.9	181.9	177.5	38.3	37.5	139.4
SMDH 00026	813544.0	8193747.5	161.0	11	12	90	2440.9	1207.1	122.6	1047.5	1118.6	20431.8	807.0	872.3	791.5	15.5	80.8	167.1	171.3	36.8	28.4	138.4
SMDH 00025b	813597.8	8193746.6	162.0	0	1	45	1198.8	623.9	79.8	572.8	449.2	8204.9	411.6	458.9	397.3	14.3	61.6	99.2	89.4	21.5	25.8	71.1
SMDH 00025b	813597.8	8193746.6	162.0	1	2	55	1365.8	711.1	91.6	471.3	594.6	10860.4	471.4	527.5	454.7	16.6	72.8	119.0	106.0	24.5	31.6	82.8
SMDH 00025b	813597.8	8193746.6	162.0	2	3	85	1469.1	812.7	87.9	520.1	579.7	10587.7	544.9	596.6	530.5	14.3	66.1	118.1	113.2	24.5	27.2	104.4
SMDH 00025b	813597.8	8193746.6	162.0	3	4	90	1464.8	736.6	86.8	594.9	650.2	11876.7	484.4	540.0	471.2	13.2	68.7	107.9	95.6	24.5	31.0	84.6
SMDH 00025b	813597.8	8193746.6	162.0	4	5	85	947.1	369.4	73.4	241.4	616.4	11259.4	260.5	292.2	247.3	13.2	44.9	75.1	73.3	18.4	13.3	53.2
SMDH 00025b	813597.8	8193746.6	162.0	5	6	98	1202.9	612.1	87.8	571.6	461.0	8420.2	400.9	454.2	387.7	13.2	66.4	119.2	111.0	26.1	27.2	82.6
SMDH 00025b	813597.8	8193746.6	162.0	6	7	85	1280.7	658.7	95.3	637.8	464.6	8486.2	433.6	492.6	417.0	16.7	75.6	135.8	120.3	24.5	34.4	86.4
SMDH 00025b	813597.8	8193746.6	162.0	7	7.5	70	1236.9	616.7	97.8	616.4	468.2	8552.2	403.3	463.9	388.9	14.3	75.0	118.9	106.3	29.1	31.5	80.7
SMDH 00025	813653.7	8193749.5	163.2	0	1	20	1220.9	687.8	70.9	651.1	365.1	6669.0	454.0	497.3	439.6	14.3	57.6	127.0	120.0	15.3	27.9	94.1
SMDH 00025	813653.7	8193749.5	163.2	1	2	35	855.9	443.6	61.7	448.3	298.3	5448.9	296.0	330.5	283.9	12.0	46.6	84.4	78.5	15.3	19.2	61.5
SMDH 00025	813653.7	8193749.5	163.2	2	3	90	1247.9	659.7	91.5	536.8	468.2	8552.2	436.3	490.7	420.8	15.5	69.9	128.9	119.6	24.5	29.8	89.3
SMDH 00025	813653.7	8193749.5	163.2	3	4	95	1250.4	665.2	107.8	515.8	450.1	8222.1	437.1	504.9	415.4	21.8	89.5	138.0	118.2	27.6	40.1	89.7
SMDH 00025	813653.7	8193749.5	163.2	4	5	98	986.2	511.6	77.4	435.1	371.7	6789.5	336.7	380.1	324.6	12.0	55.5	83.4	79.8	23.0	20.4	70.4
SMDH 00025	813653.7	8193749.5	163.2	5	6	85	1148.2	565.2	95.7	518.1	463.3	8463.2	360.0	426.3	343.3	16.6	83.0	95.8	76.4	27.6	38.7	80.5
SMDH 00025	813653.7	8193749.5	163.2	6	7	90	1096.8	602.6	92.9	391.0	398.1	7271.8	386.9	449.9	368.0	18.9	81.9	113.4	92.6	23.0	40.0	78.8
SMDH 00025	813653.7	8193749.5	163.2	7	8	90	1297.3	660.5	120.3	604.9	465.1	8494.8	423.0	503.5	395.5	27.5	108.0	137.5	106.7	29.1	51.3	83.7
SMDH 00025	813653.7	8193749.5	163.2	8	9	98	1513.7	752.3	126.1	648.6	616.6	11262.3	489.0	566.1	467.8	21.2	98.3	139.6	121.4	35.3	41.8	99.9
SMDH 00025	813653.7	8193749.5	163.2	9	10	94	1279.8	665.5	115.4	572.7	454.5	8302.5	421.8	503.0	398.9	22.9	104.2	132.1	102.0	30.7	50.5	86.9
SMDH 00025	813653.7	8193749.5	163.2	10	11	95	1718.6	850.1	110.8	805.6	720.3	13157.1	542.2	618.5	518.1	24.1	100.4	151.6	128.0	26.1	50.3	116.5
SMDH 00025	813653.7	8193749.5	163.2	11	11.5	80	1535.2	769.3	100.8	705.5	633.1	11563.8	490.9	558.2	471.1	19.8	87.1	138.3	120.3	24.5	42.8	103.3
SMDH 00024b	813718.8	8193745.2	165.1	0	1	35	2321.4	1411.7	124.4	1218.9	568.0	10375.2	906.7	994.0	874.6	32.1	119.4	237.0	218.3	21.5	65.8	194.8
SMDH 00024b	813718.8	8193745.2	165.1	1	2	45	1491.3	722.2	73.1	701.9	679.5	12410.7	467.9	510.3	457.0	10.9	53.3	109.9	111.5	19.9	22.5	104.7
SMDH 00024b	813718.8	8193745.2	165.1	2	3	40	1361.1	688.8	69.6	435.9	668.3	12206.8	452.6	490.1	441.7	10.9	48.4	105.3	107.8	18.4	19.0	102.5
SMDH 00024b	813718.8	8193745.2	165.1	3	4	65	826.2	445.2	42.6	209.7	391.7	7154.1	291.0	315.4	285.3	5.7	30.2	67.3	69.9	12.3	12.2	66.0
SMDH 00024b	813718.8	8193745.2	165.1	4	5	50	1067.6	521.6	62.1	394.2	516.0	9425.0	338.7	376.0	326.6	12.0	49.4	87.2	80.4	15.3	22.0	74.4
SMDH 00024b	813718.8	8193745.2	165.1	5	6	95	1406.2	694.8	84.9	593.4	629.3	11494.9	441.9	500.2	425.3	16.6	74.9	124.6	108.4	19.9	38.4	94.3
SMDH 00024b	813718.8	8193745.2	165.1	6	7	75	1275.9	493.8	86.9	607.6	722.1	13188.7	305.2	370.9	288.6	16.6	82.3	104.4	76.4	23.0	42.7	64.9
SMDH 00024b	813718.8	8193745.2	165.1	7	8	50	1457.6	339.7	119.9	881.4	1032.3	18855.7	200.3	287.9	179.7	20.6	108.2	92.7	50.4	36.8	50.8	41.6
SMDH 00024b	813718.8	8193745.2	165.1	8	9	90	1219.8	517.6	85.2	606.7	609.5	11133.1	321.0	383.6	304.3	16.6	79.2	106.4	80.5	21.5	41.1	69.2
SMDH 00024b	813718.8	8193745.2	165.1	9	10	85	1137.9	544.6	66.8	536.0	511.6	9344.6	340.3	388.4	327.1	13.2	61.3	100.3	84.4	15.3	32.8	75.3
SMDH 00024b	813718.8	8193745.2	165.1	10	11	90	1188.8	474.2	93.4	544.5	644.6	11773.3	289.4	359.4	268.5	20.9	90.9	106.3	72.8	23.0	47.0	60.0
SMDH 00024b	813718.8	8193745.2	165.1	11	12	98	1431.9	642.5	92.6	676.3	692.5	12648.9	405.4	468.5	388.7	16.6	79.8	119.0	101.0	24.5	38.6	85.6
SMDH 00024b	813718.8	8193745.2	165.1	12	13	95	1876.8	852.6	122.4	760.8	949.3	17339.9	547.7	627.6	528.2	19.5	99.3	152.9	136.4	35.3	44.6	117.6
SMDH 00024b	813718.8	8193745.2	165.1	13	14	98	2060.8	411.4	81.9	1960.3	1353.7	24726.6	266.7	312.3	261.0	5.7	51.3	67.6	64.4	30.7	14.9	58.5
SMDH 00024b	813718.8	8193745.2	165.1	14	15	98	1831.8	960.7	111.8	794.1	728.0	13297.7	623.2	695.7	603.4	19.8	92.3	163.3	151.4	29.1	43.3	133.9
SMDH 00024	813772.0	8193745.9	167.0	0	1	95	1537.9	710.5	111.6	835.4	646.0	11799.2	451.5	525.6	429.7	21.8	95.9	133.5	110.9	29.1	45.0	91.6
SMDH 00024	813772.0	8193745.9	167.0	1	2	60	1170.3	568.9	94.6	464.4	516.5	9433.6	360.1	426.1	341.4	18.7	84.7	117.6	91.3	23.0	43.0	75.1
SMDH 00024	813772.0	8193745.9	167.0	2	3	75	1302.2	621.0	104.0	604.5	552.9	10099.6	393.7	466.5	373.0	20.6	93.5	125.9	97.6	26.1	46.7	80.8
SMDH 00024	813772.0	8193745.9	167.0	3	4	50	1688.6	808.9	97.7	817.3	750.0	13699.7	529.6	585.2	514.0	15.5	71.2	138.0	135.5	26.1	29.6	109.7
SMDH 00024	813772.0	8193745.9	167.0	4	5	80	1580.7	786.5	87.9	707.5	691.6	12631.7	516.9	566.2	503.7	13.2	62.5	128.8	127.3	23.0	26.3	109.3
SMDH 00024	813772.0	8193745.9	167.0	5	6	90	1812.3	850.4	101.0	834.8	855.8	15631.7	554.5	614.7	540.1	14.4	74.6	141.8	139.2	29.1	31.1	116.9
SMDH 00024	813772.0	8193745.9	167.0	6	7	95	1640.2	988.8	87.5	591.8	539.7	9858.5	652.4	698.4	640.3	12.1	58.1	150.0	159.8	23.0	23.0	140.0
SMDH 00024	813772.0	8193745.9	167.0	7	8	80	1623.6	823.0	125.9	730.3	635.4	11606.8	531.4	609.0	512.5	18.9	96.5	146.8	133.4	36.8	40.8	109.0
SMDH 00024	813772.0	8193745.9	167.0	8	9	90	1697.1	927.1	108.3	689.6	635.4	11606.8	603.3	669.8	586.7	16.7	83.1	162.0	155.8	29.1	37.3	126.1
SMDH 00023b	813839.0	8193749.8	168.3	0	1	40	1597.1	861.0	97.3	790.1	555.8	10151.3	563.5	618.1	549.1	14.4	69.0	138.9	141.5	27.6	27.0	117.0
SMDH 00023b	813839.0	8193749.8	168.3	1	2	35	1210.1	645.9	66.6	697.1	395.0	7214.4	405.6	455.5	396.7	8.8	58.7	113.4	103.1	18.4	31.5	88.9
SMDH 00023b	813839.0	8193749.8	168.3	2	3	50	1303.2	467.9	87.5	901.5	661.5	12083.4	310.7	363.3	299.8	10.9	63.5	93.8	84.5	27.6	25.0	75.3
SMDH 00023b	813839.0	8193749.8	168.3	3	4	70	1423.0	545.3	79.7	737.1	810.5	14804.9	363.4	404.2	354.8	8.6	49.4	87.0	90.9	26.1	14.7	77.6
SMDH 00023b	813839.0	8193749.8	168.3	4	5	65	1760.8	889.5	86.6	820.9	752.2	13739.9	587.8	632.0	578.0	9.8	54.0	132.4	144.0	26.1	18.2	124.9
SMDH 00023b	813839.0	8193749.8	168.3	5	6	75	1416.7	666.3	83.3	649.7	661.9	12089.1	442.9	486.0	434.3	8.6	51.7	98.6	102.8	26.1	17.0	95.3
SMDH 00023b	813839.0	8193749.8	168.3	6	7	80	1332.3	818.0	68.5	731.2	304.3	5558.0	528.4	576.2	520.3	8.1	55.8	139.8	137.6	18.4	29.3	120.0
SMDH 00023b	813839.0	8193749.8	168.3	7	8	55	1647.9	726.5	99.8	838.3	797.5	14566.7	474.9	530.7	464.0	10.9	66.7	118.0	117.3	32.2	23.6	102.6
SMDH 00023b	813839.0	8193749.8	168.3	8	9	80	1455.2	688.0	114.3	698.2	618.9	11305.4	440.7	511.8	422.9	17.8	88.9	127.0	112.2	33.7	37.3	90.8
SMDH 00023b	813839.0	8193749.8	168.3	9	10	65	1504.3	715.3	113.4	753.2	626.0	11434.6	453.3	528.2	432.4	20.9	95.8	131.6	111.1	30.7	44.2	93.2
SMDH 00023b	813839.0	8193749.8	168.3	10	11	80	1315.1	648.3	101.8	607.1	534.1	9755.1	409.3	478.0	388.6	20.6	89.4	124.2	102.1	26.1	42.7	84.9
SMDH 00023b	813839.0	8193749.8	168.3	11	12	75	1384.5	659.7	118.0	676.5	562.4	10271.9	416.3	493.2	392.2	24.1	101.0	128.9	104.0	30.7	46.2	83.3
SMDH 00023	813896.5	8193745.1	168.9	0	1	15	2085.6	1098.4	111.8	1659.9	493.4	9011.6	710.7	779.9	691.8	18.9	88.1	169.4	165.6	29.1	40.0	148.9

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00023	813896.5	8193745.1	168.9	1	2	20	1741.9	815.0	103.7	1140.2	659.5	12046.1	526.8	586.0	512.4	14.4	73.6	134.6	134.1	30.7	28.6	107.8
SMDH 00023	813896.5	8193745.1	168.9	2	3	30	1361.2	693.8	74.5	590.7	582.0	10630.7	454.0	495.2	441.9	12.0	53.3	120.4	123.9	19.9	21.3	96.5
SMDH 00023	813896.5	8193745.1	168.9	3	4	50	1888.7	969.5	94.5	908.6	769.2	14049.9	634.0	687.3	618.5	15.5	68.8	165.2	171.5	24.5	28.8	133.8
SMDH 00023	813896.5	8193745.1	168.9	4	5	30	1602.3	779.0	66.3	862.3	693.1	12660.4	514.6	548.2	506.8	7.8	41.4	120.2	132.6	18.4	15.2	111.5
SMDH 00023	813896.5	8193745.1	168.9	5	6	90	1514.3	828.7	63.7	572.0	632.8	11558.0	545.9	584.1	535.9	10.1	48.3	181.8	190.4	18.4	19.8	105.2
SMDH 00023	813896.5	8193745.1	168.9	6	7	98	1566.6	898.3	73.9	454.0	647.9	11833.6	596.6	635.4	584.5	12.1	50.9	175.9	192.0	21.5	17.4	125.0
SMDH 00023	813896.5	8193745.1	168.9	7	8	90	946.6	428.3	50.0	416.0	483.3	8827.8	284.7	310.2	278.1	6.6	32.1	67.6	70.1	13.8	11.7	61.9
SMDH 00023	813896.5	8193745.1	168.9	8	9	95	1950.2	941.1	92.0	979.2	870.0	15890.1	613.3	671.8	597.8	15.5	74.1	154.1	151.8	24.5	34.0	132.5
SMDH 00023	813896.5	8193745.1	168.9	9	10	94	1227.3	547.2	64.0	494.7	660.3	12060.4	363.4	395.9	353.6	9.8	42.3	86.4	91.2	18.4	14.1	79.2
SMDH 00023	813896.5	8193745.1	168.9	10	11	90	1520.8	792.4	82.5	652.2	630.1	11509.2	513.4	569.5	497.0	16.3	72.5	139.9	130.2	19.9	36.2	111.3
SMDH 00023	813896.5	8193745.1	168.9	11	12	95	1566.6	746.7	80.4	784.2	704.1	12861.4	486.4	537.6	472.0	14.3	65.5	128.8	124.6	21.5	29.7	104.1
SMDH 00023	813896.5	8193745.1	168.9	12	13	98	1355.9	651.6	64.9	658.5	617.7	11282.4	423.6	462.2	413.8	9.8	48.4	106.5	108.7	18.4	20.2	92.7
SMDH 00023	813896.5	8193745.1	168.9	13	14	90	1638.2	750.2	92.3	741.6	805.0	14704.5	488.3	541.4	476.2	12.0	65.2	122.3	122.5	27.6	25.5	108.0
SMDH 00022b	813953.8	8193744.1	169.4	0	1	20	1714.4	1175.8	83.4	876.8	250.1	4567.5	738.3	813.1	722.6	15.7	90.5	204.5	185.8	16.9	57.9	154.1
SMDH 00022b	813953.8	8193744.1	169.4	1	2	45	1507.3	821.8	77.2	562.2	617.7	11282.4	541.8	582.7	533.1	8.6	49.5	125.2	136.2	23.0	17.9	131.6
SMDH 00022b	813953.8	8193744.1	169.4	2	3	80	942.7	509.6	50.8	404.2	364.5	6657.5	334.2	366.3	325.6	8.6	40.7	86.2	83.0	12.3	19.8	74.1
SMDH 00022b	813953.8	8193744.1	169.4	3	4	50	2085.0	1050.7	114.9	926.8	897.8	16398.3	680.4	750.8	662.6	17.8	88.2	178.4	174.5	30.7	39.7	144.3
SMDH 00022b	813953.8	8193744.1	169.4	4	5	75	1677.6	903.6	103.0	694.5	646.8	11813.5	584.6	646.2	567.9	16.6	78.3	156.4	154.4	27.6	34.0	121.0
SMDH 00022b	813953.8	8193744.1	169.4	5	6	95	1879.2	1078.2	134.5	670.9	651.0	11891.0	695.2	780.4	670.0	25.2	110.4	193.6	179.1	33.7	51.4	145.7
SMDH 00022b	813953.8	8193744.1	169.4	6	7	90	1869.6	974.6	151.5	708.0	745.2	13610.7	624.5	718.6	598.2	26.3	120.5	182.8	165.3	42.9	51.2	129.9
SMDH 00022b	813953.8	8193744.1	169.4	7	8	85	3333.7	2424.1	446.7	466.5	452.2	8259.4	1537.6	1832.1	1433.5	104.2	398.6	484.8	379.8	108.9	185.5	318.2
SMDH 00022b	813953.8	8193744.1	169.4	8	9	95	2238.1	1371.1	192.6	655.2	669.9	12235.5	881.4	1004.5	842.5	38.9	162.1	258.1	228.0	49.1	74.0	186.9
SMDH 00022b	813953.8	8193744.1	169.4	9	10	95	2231.9	1373.1	248.7	802.0	508.6	9290.0	874.8	1037.9	825.5	49.2	212.3	264.5	212.6	67.5	95.6	186.8
SMDH 00022	814011.5	8193744.4	169.8	0	1	15	1735.5	1063.0	117.6	896.3	385.1	7033.6	648.4	756.4	627.7	20.6	128.6	209.4	162.9	29.1	78.9	134.3
SMDH 00022	814011.5	8193744.4	169.8	1	2	25	1651.5	967.9	135.0	630.3	499.7	9126.4	589.6	707.9	568.6	21.0	139.3	194.4	143.3	38.3	80.0	121.9
SMDH 00022	814011.5	8193744.4	169.8	2	3	25	1926.5	933.1	120.7	799.1	889.6	16249.0	619.7	682.9	598.8	20.9	84.1	157.6	160.4	33.7	29.5	134.5
SMDH 00022	814011.5	8193744.4	169.8	3	4	25	1600.2	805.7	119.6	697.1	651.2	11893.9	523.6	598.9	505.7	17.9	93.2	148.1	134.5	35.4	39.9	122.2
SMDH 00022	814011.5	8193744.4	169.8	4	5	45	1077.0	559.9	67.5	608.8	366.7	6697.7	363.9	401.8	355.2	8.7	46.6	25.3	29.4	19.6	18.3	100.9
SMDH 00022	814011.5	8193744.4	169.8	5	6	90	1441.3	792.8	89.6	650.8	505.2	9226.9	524.0	583.6	507.3	16.7	76.3	122.3	107.0	24.5	35.0	92.8
SMDH 00022	814011.5	8193744.4	169.8	6	7	98	1266.1	703.9	81.9	599.5	415.4	7587.6	467.9	520.7	453.0	14.9	67.7	108.2	95.4	22.2	30.6	81.5
SMDH 00021b	814074.0	8193746.6	169.6	0	1	60	1477.3	663.3	78.5	921.9	634.3	11586.7	437.6	485.6	425.9	11.7	59.6	92.2	83.5	24.1	23.9	66.7
SMDH 00021b	814074.0	8193746.6	169.6	1	2	55	1415.8	676.1	82.1	703.8	623.0	11380.0	442.4	487.8	433.2	9.2	54.6	83.8	82.8	28.5	16.9	72.5
SMDH 00021b	814074.0	8193746.6	169.6	2	3	80	1160.8	581.2	61.1	569.1	484.6	8850.8	380.4	413.9	371.8	8.6	42.1	73.0	74.1	19.0	14.5	67.9
SMDH 00021b	814074.0	8193746.6	169.6	3	4	95	1333.1	559.3	65.9	799.5	651.2	11893.9	361.6	401.4	352.3	9.3	49.1	72.7	67.3	21.3	18.4	58.8
SMDH 00021b	814074.0	8193746.6	169.6	4	5	75	1805.3	1025.2	90.0	764.8	641.7	11721.7	686.0	740.7	669.1	16.8	71.6	139.3	133.1	22.9	31.9	113.5
SMDH 00021b	814074.0	8193746.6	169.6	5	6	5	1726.3	943.5	116.8	776.7	601.3	10983.8	608.5	697.3	585.0	23.5	112.3	168.7	132.0	28.5	60.3	113.2
SMDH 00021b	814074.0	8193746.6	169.6	6	7	90	1951.8	993.3	113.1	994.2	759.5	13871.9	657.2	726.0	640.8	16.4	85.2	152.8	142.8	33.0	35.8	119.5
SMDH 00021b	814074.0	8193746.6	169.6	7	8	20	1735.4	935.4	88.2	756.3	676.9	12364.7	620.8	674.6	609.1	11.7	65.5	137.5	133.8	25.6	28.2	113.5
SMDH 00021b	814074.0	8193746.6	169.6	8	9	65	1847.9	922.6	145.7	799.5	754.9	13788.7	620.9	704.0	612.6	8.4	91.5	180.9	199.8	59.2	23.9	99.3
SMDH 00021b	814074.0	8193746.6	169.6	9	9.5	70	1107.0	550.2	58.8	604.0	438.7	8012.5	365.2	402.0	357.4	7.8	44.5	85.3	79.4	17.2	19.6	68.8
SMDH 00021	814134.3	8193753.1	168.9	0	1	20	1469.5	773.3	86.2	1050.9	392.9	7177.1	479.2	550.4	465.7	13.5	84.7	139.0	113.9	23.0	48.1	96.9
SMDH 00021	814134.3	8193753.1	168.9	1	2	20	890.1	387.9	55.1	570.7	380.8	6956.1	255.4	292.8	247.0	8.3	45.8	89.5	84.1	15.3	22.1	63.1
SMDH 00021	814134.3	8193753.1	168.9	2	3	90	1234.5	374.1	63.6	910.4	728.2	13300.6	248.6	288.7	241.7	6.8	46.9	65.6	55.8	21.2	18.9	55.8
SMDH 00021	814134.3	8193753.1	168.9	3	4	80	2213.8	1192.5	139.2	1022.1	799.5	14604.0	791.4	881.0	769.4	21.9	111.6	178.4	158.5	40.6	49.0	144.1
SMDH 00021	814134.3	8193753.1	168.9	4	5	45	1743.7	920.6	74.7	691.4	759.9	13880.5	616.6	661.3	605.6	11.0	55.7	133.2	129.6	20.9	23.9	107.7
SMDH 00021	814134.3	8193753.1	168.9	5	6	95	1587.6	809.7	59.8	682.8	720.2	13154.2	545.1	575.7	539.0	6.1	36.7	109.4	115.6	17.9	12.7	94.5
SMDH 00021	814134.3	8193753.1	168.9	6	7	55	2046.5	1079.2	61.0	888.8	896.4	16372.4	729.3	759.6	723.6	5.7	36.0	139.6	151.9	18.1	12.2	127.4
SMDH 00021	814134.3	8193753.1	168.9	7	8	95	1416.4	678.9	62.4	582.6	704.8	12872.9	450.7	489.8	441.8	8.9	48.0	103.5	96.1	17.5	21.6	80.0
SMDH 00020b	814191.0	8193755.4	167.9	0	1	35	864.0	449.3	41.9	590.0	264.4	4828.8	295.8	323.3	288.8	7.0	34.5	65.9	58.6	10.6	16.9	47.9
SMDH 00020b	814191.0	8193755.4	167.9	1	2	70	898.1	471.6	53.5	349.5	376.6	6878.5	304.4	340.8	296.1	8.3	44.7	81.4	70.4	13.8	22.6	58.2
SMDH 00020b	814191.0	8193755.4	167.9	2	3	80	1394.8	831.6	93.0	480.8	456.0	8328.3	548.5	619.0	528.6	19.9	90.5	153.9	119.4	18.7	51.8	92.3
SMDH 00020b	814191.0	8193755.4	167.9	3	4	85	1339.3	654.6	108.2	631.4	539.6	9855.6	424.1	489.8	405.2	18.9	84.6	126.9	108.6	28.4	37.3	89.0
SMDH 00020b	814191.0	8193755.4	167.9	4	5	65	2055.7	1216.0	94.4	710.6	746.6	13636.5	801.0	869.3	783.3	17.7	86.0	194.1	174.8	23.2	45.2	139.0
SMDH 00020b	814191.0	8193755.4	167.9	5	6	70	969.5	549.6	49.3	402.5	348.5	6364.7	370.8	397.6	365.3	5.5	32.3	77.3	79.8	14.9	11.9	64.5
SMDH 00020	814253.9	8193751.1	166.6	0	1	30	1696.0	861.1	80.2	1538.2	375.5	6858.4	576.8	623.1	563.5	13.3	59.5	126.9	124.8	21.5	24.8	95.5
SMDH 00020	814253.9	8193751.1	166.6	1	2	45	1160.1	632.9	50.5	491.7	460.2	8405.8	429.8	456.4	424.0	5.8	32.4	87.1	92.4	15.5	11.0	79.0
SMDH 00020	814253.9	8193751.1	166.6	2	3	65	956.1	520.1	41.2	398.6	385.1	7033.6	354.3	374.7	350.1	4.2	24.6	71.4	77.3	12.9	7.5	63.1
SMDH 00020	814253.9	8193751.1	166.6	3	4	20	310.6	118.9	21.5	172.8	165.7	3025.9	80.2	91.4	77.8	2.4	13.6	21.3	17.9	6.1	5.1	19.2
SMDH 00020	814253.9	8193751.1	166.6	4	5	35	1220.1	656.6	70.8	471.2	492.9	9003.0	443.5	482.6	432.2	11.2	50.4	96.0	94.7	21.5	17.7	77.9
SMDH 00020	814253.9	8193751.1	166.6	5	6	70	1504.5	846.0	71.2	566.3	585.3	10691.0	571.3	609.9	560.2	11.1	49.7	116.4	120.1	20.1	18.5	99.2
SMDH 00020	814253.9	8193751.1	166.6	6	7	95	1287.7	720.3	43.1	557.1	498.7	9109.2	489.1	510.6	484.3	4.8	26.2	92.6	103.9	12.3	9.1	83.7
SMDH 00020	814253.9	8193751.1	166.6	7	8	92	764.3	339.6	46.1	427.2	348.5	6364.7	233.0	257.7	228.3	4.7	29.3	43.2	41.6	16.1	8.5	37.2
SMDH 00019b	814314.4	8193749.8	165.4	0	1	5	1582.8	1020.1	56.1	655.2	427.5	7808.7	693.9	720.3	687.9	6.1	32.4	123.7	139.7	15.8	10.5	124.0
SMDH 00019b	814314.4	8193749.8	165.4	1	2	40	800.4	394.6	46.9	406.5	329.6	6020.2	268.8	295.4	263.0	5.8	32.5	49.0	46.1	15.2	11.4	41.6
SMDH 00019b	814314.4	8193749.8	165.4	2	3	45	818.2	393.5	62.5	376.8	348.1	6358.9	260.0	299.1	250.0	10.0	49.1	70.6	59.2	18.1	21.0	44.9
SMDH 00019b	814314.4	8193749.8	165.4	3	4	35	1216.7	514.2	72.2	892.2	496.0	9060.4	339.9	384.0	326.5	13.4	57.5	80.3	69.7	20.1	24.0	58.6
SMDH 00019b	814314.4	8193749.8	165.4	4	5	70	774.7	205.9	46.3	564.1	492.9	9003.0	139.0	164.1	134.2	4.8	29.9	32.0	28.5	16.6	8.5	25.2
SMDH 00019b	814314.4	8193749.8	165.4	5	6	65	1756.0	878.6	89.3	715.0	806.5	14730.3	570.2	631.4	554.4	15.8	77.0	146.3	133.4	22.2	39.0	103.4
SMDH 00019b	814314.4	8193749.8	165.4	6	7	92	1694.5	832.1	106.9	729.3	752.5	13745.6	540.6	611.4	523.6	17.0	87.8	139.5	123.2	29.9	40.9	101.1
SMDH 00019b	814314.4	8193749.8	165.4	7	8	80	1810.9	859.2	103.8	801.9	852.5	15571.4	559.9	629.4	544.9	15.0	84.5	135.2	121.1	30.5	39.0	109.3
SMDH 00019b	814314.4	8193749.8	165.4	8	9	90	1799.6	900.6	113.7	797.4	764.0	13955.2	587.7	661.7	570.9	16.9	90.8	140.7	125.9	33.4	40.5	112.8

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00019b	814314.4	8193749.8	165.4	9	10	85	1750.9	833.3	116.4	706.0	829.6	15152.3	540.3	615.9	522.2	18.1	93.6	137.2	121.5	34.8	40.8	101.4
SMDH 00019b	814314.4	8193749.8	165.4	10	11	98	1056.5	303.2	130.9	615.7	613.1	11199.2	192.3	263.5	185.5	6.8	78.0	53.1	46.2	55.2	16.0	42.1
SMDH 00019b	814314.4	8193749.8	165.4	11	12	85	1797.8	341.4	81.5	1276.6	1393.3	25450.0	221.9	268.1	215.4	6.5	52.7	55.4	49.9	31.1	15.1	43.3
SMDH 00019b	814314.4	8193749.8	165.4	12	13	90	1731.6	261.3	81.0	1209.4	1445.4	26400.3	173.1	215.1	168.7	4.4	46.3	38.3	36.4	33.0	9.0	34.4
SMDH 00019b	814314.4	8193749.8	165.4	13	14	95	1492.9	616.9	78.4	756.7	800.6	14624.1	398.6	451.8	387.1	11.6	64.8	96.9	84.7	22.9	30.4	76.3
SMDH 00019	814379.4	8193749.1	164.2	0	1	30	1331.8	717.0	66.8	689.4	471.5	8612.5	461.9	504.9	449.5	12.4	55.4	109.4	102.5	15.3	27.7	80.6
SMDH 00019	814379.4	8193749.1	164.2	1	2	40	1442.4	750.0	73.8	560.3	633.2	11566.6	495.6	542.7	484.4	11.2	58.3	124.9	120.4	19.0	28.1	113.9
SMDH 00019	814379.4	8193749.1	164.2	2	3	45	1106.4	253.9	42.6	572.8	903.9	16510.2	169.9	195.8	166.3	3.6	29.5	47.6	44.1	14.4	11.4	45.6
SMDH 00019	814379.4	8193749.1	164.2	3	4	40	1026.1	134.7	54.7	651.2	906.3	16553.3	81.1	114.5	76.9	4.2	37.6	29.1	20.4	21.5	11.9	17.1
SMDH 00019	814379.4	8193749.1	164.2	4	5	70	1241.9	494.4	61.2	582.3	721.1	13171.4	315.3	357.4	308.3	7.0	49.2	84.4	76.7	19.2	23.0	71.4
SMDH 00019	814379.4	8193749.1	164.2	5	6	98	1461.1	685.4	84.3	561.4	738.2	13484.3	432.7	496.0	422.0	10.7	74.0	122.1	104.3	24.2	39.1	95.0
SMDH 00019	814379.4	8193749.1	164.2	6	7	95	1676.8	798.1	98.5	769.0	769.8	14061.4	500.2	576.1	486.3	13.9	89.7	150.0	127.2	28.1	47.7	108.0
SMDH 00019	814379.4	8193749.1	164.2	7	8	85	1474.0	702.6	83.4	598.0	716.2	13082.4	439.0	503.2	427.3	11.7	75.9	128.5	110.2	23.5	40.8	94.4
SMDH 00019	814379.4	8193749.1	164.2	8	8.5	50	1481.5	731.6	80.7	565.4	704.1	12861.4	461.6	522.1	450.5	11.1	71.6	128.9	114.1	23.2	37.3	99.1
SMDH 00018b	814436.5	8193745.9	162.8	0	1	40	1498.7	734.1	77.2	779.4	631.0	11526.4	469.2	526.8	457.9	11.3	68.8	128.1	112.9	21.0	36.6	94.5
SMDH 00018b	814436.5	8193745.9	162.8	1	2	25	2410.9	1432.0	115.4	1046.7	761.3	13906.4	968.7	1030.6	950.0	18.8	80.6	183.2	189.8	29.0	32.9	177.4
SMDH 00018b	814436.5	8193745.9	162.8	2	3	45	1933.9	1043.5	93.6	848.4	756.9	13826.0	701.9	753.9	685.9	16.0	68.0	144.7	144.6	23.8	28.2	125.1
SMDH 00018b	814436.5	8193745.9	162.8	3	4	45	1676.4	871.0	89.1	858.6	635.9	11615.4	583.2	635.1	564.8	18.3	70.2	123.7	116.2	20.4	31.5	103.4
SMDH 00018b	814436.5	8193745.9	162.8	4	5	40	1685.3	905.0	100.3	788.3	616.1	11253.7	603.0	662.9	584.2	18.8	78.7	130.1	120.1	25.2	34.8	103.7
SMDH 00018b	814436.5	8193745.9	162.8	5	6	90	1530.2	820.7	85.3	771.0	543.5	9927.4	549.7	599.9	532.7	17.0	67.2	116.0	109.6	21.0	29.2	97.2
SMDH 00018b	814436.5	8193745.9	162.8	6	7	90	1259.5	554.9	68.3	799.6	547.9	10007.8	370.3	411.5	359.1	11.3	52.5	80.7	73.9	19.5	21.7	65.4
SMDH 00018b	814436.5	8193745.9	162.8	7	8	30	1556.7	817.1	104.5	776.8	556.7	10168.5	541.0	606.7	521.4	19.7	85.3	123.7	106.8	27.1	38.5	98.2
SMDH 00018b	814436.5	8193745.9	162.8	8	9	98	1620.8	779.6	112.5	897.0	635.9	11615.4	514.9	585.0	496.1	18.8	88.8	119.9	101.8	32.2	37.8	92.4
SMDH 00018b	814436.5	8193745.9	162.8	9	10	80	1390.2	736.2	98.1	577.8	534.7	9766.6	492.8	554.2	475.7	17.1	78.5	111.9	99.0	27.5	33.9	92.2
SMDH 00018b	814436.5	8193745.9	162.8	10	11	80	1313.6	513.3	110.7	782.4	632.6	11555.1	313.8	398.3	300.5	13.3	97.8	111.5	78.0	37.0	47.5	65.9
SMDH 00018b	814436.5	8193745.9	162.8	11	12	75	1745.8	530.0	142.3	1147.4	1017.9	18591.6	329.5	425.6	316.3	13.2	109.3	105.9	76.8	52.1	43.9	71.4
SMDH 00018b	814436.5	8193745.9	162.8	12	13	80	1396.6	468.1	115.0	880.5	766.1	13992.5	298.5	371.0	291.0	7.5	80.0	85.4	72.2	44.8	27.7	67.3
SMDH 00018	814488.7	8193739.8	162.3	0	1	60	1208.0	519.6	66.4	978.4	444.0	8110.1	322.8	378.8	312.8	10.0	66.1	95.1	72.1	18.1	38.0	67.1
SMDH 00018	814488.7	8193739.8	162.3	1	2	30	1133.3	477.3	69.9	936.6	411.5	7515.9	299.5	352.3	291.3	8.1	60.9	83.6	67.1	22.7	30.1	63.1
SMDH 00018	814488.7	8193739.8	162.3	2	3	40	781.2	286.9	43.3	505.2	416.8	7613.5	174.7	213.0	168.3	6.4	44.7	61.8	43.3	12.3	26.0	38.1
SMDH 00018	814488.7	8193739.8	162.3	3	4	75	1835.5	658.1	165.6	1182.8	912.2	16662.4	423.9	521.2	413.2	10.7	108.0	114.4	100.3	64.4	32.9	95.8
SMDH 00018	814488.7	8193739.8	162.3	4	5	90	1369.4	510.3	139.1	922.4	611.7	11173.3	310.3	410.7	294.3	16.0	116.4	112.9	74.6	48.3	52.1	66.4
SMDH 00018	814488.7	8193739.8	162.3	5	6	98	1353.3	475.5	140.7	829.6	679.5	12410.7	300.9	389.7	290.5	10.5	99.2	93.2	72.8	54.4	34.3	66.6
SMDH 00018	814488.7	8193739.8	162.3	6	7	90	1636.4	627.4	153.5	978.6	781.3	14271.0	383.5	495.9	362.0	21.5	133.9	137.1	91.3	50.0	62.4	77.6
SMDH 00018	814488.7	8193739.8	162.3	7	8	85	1803.0	790.0	168.1	1036.6	738.9	13495.8	479.0	612.4	450.9	28.0	161.5	176.1	112.3	49.4	84.1	98.3
SMDH 00018	814488.7	8193739.8	162.3	8	9	95	1670.0	623.8	159.7	920.9	852.8	15577.2	387.5	497.3	368.0	19.5	129.3	129.2	88.7	54.3	55.5	82.8
SMDH 00222	814559.7	8193381.4	161.5	0	1	40	1885.4	910.9	98.4	1259.4	680.6	12430.7	594.4	659.2	580.1	14.2	79.1	150.4	137.8	27.0	37.8	122.6
SMDH 00222	814559.7	8193381.4	161.5	1	2	45	1636.2	764.1	74.5	1006.7	684.6	12505.4	512.6	554.2	500.0	12.6	54.2	111.8	111.6	18.9	22.7	99.2
SMDH 00222	814559.7	8193381.4	161.5	2	3	40	1516.9	778.9	87.9	833.9	551.7	10076.7	516.1	571.0	497.5	18.6	73.5	130.2	114.5	19.5	35.4	98.0
SMDH 00222	814559.7	8193381.4	161.5	3	4	75	1879.1	877.8	86.8	1248.1	741.2	13538.9	585.8	635.0	572.2	13.5	62.8	123.1	122.3	23.3	25.9	111.2
SMDH 00222	814559.7	8193381.4	161.5	4	5	65	1441.4	645.6	63.7	863.6	656.4	11988.6	435.4	466.9	429.3	6.1	37.6	83.6	92.4	21.0	10.4	86.4
SMDH 00222	814559.7	8193381.4	161.5	5	6	75	1600.9	585.6	100.3	763.0	967.6	17672.9	388.6	446.4	373.7	14.9	72.7	90.5	81.4	31.9	25.9	73.9
SMDH 00222	814559.7	8193381.4	161.5	6	7	50	1887.5	315.8	158.5	455.1	1830.4	33433.8	201.0	300.4	176.7	24.3	123.7	91.7	49.1	51.4	48.0	31.3
SMDH 00222	814559.7	8193381.4	161.5	7	8	50	1158.3	316.7	80.8	588.0	826.1	15089.1	211.0	259.0	200.2	10.8	58.7	59.0	43.8	26.4	21.6	39.3
SMDH 00222	814559.7	8193381.4	161.5	8	9	55	887.7	182.9	51.3	966.6	495.1	9043.2	116.6	151.8	105.8	10.8	45.9	41.7	25.1	14.7	20.4	22.6
SMDH 00223	814430.2	8193385.8	163.3	0	1	5	3439.9	1910.8	141.2	2725.7	738.4	13487.2	1261.7	1345.5	1229.7	32.0	115.8	285.3	283.9	24.1	59.7	245.3
SMDH 00223	814430.2	8193385.8	163.3	1	2	48	943.5	362.0	57.4	680.5	441.0	8055.6	226.2	269.6	218.5	7.6	51.1	75.9	61.3	17.8	25.7	52.9
SMDH 00223	814430.2	8193385.8	163.3	2	3	40	1238.2	514.8	68.0	738.5	603.7	11026.9	333.1	376.9	323.6	9.5	53.3	99.3	91.4	19.2	24.6	73.4
SMDH 00223	814430.2	8193385.8	163.3	3	4	45	943.2	440.3	69.2	587.7	353.5	6456.5	276.4	325.1	265.9	10.4	59.1	85.1	69.7	19.5	29.2	59.3
SMDH 00223	814430.2	8193385.8	163.3	4	5	70	1312.8	572.1	88.6	822.9	559.8	10225.9	356.5	424.3	342.6	13.9	81.8	115.3	90.2	25.5	42.4	79.5
SMDH 00223	814430.2	8193385.8	163.3	5	6	40	1181.8	518.3	78.0	676.1	531.7	9712.1	323.7	381.9	310.3	13.4	71.6	101.0	80.5	20.9	37.3	72.1
SMDH 00223	814430.2	8193385.8	163.3	6	7	40	1365.6	475.9	60.1	1003.9	732.0	13369.5	301.5	342.3	293.8	7.8	48.6	79.2	71.1	18.1	22.7	66.3
SMDH 00223	814430.2	8193385.8	163.3	7	8	45	1312.5	572.4	87.7	823.6	559.8	10225.9	355.3	422.7	341.2	14.1	81.5	113.6	88.1	25.6	41.8	79.4
SMDH 00223	814430.2	8193385.8	163.3	8	9	90	1634.2	684.6	87.0	1039.4	763.2	13940.8	425.9	495.5	410.3	15.5	85.2	136.2	109.2	22.7	47.0	94.8
SMDH 00224	814315.9	8193379.8	163.5	0	1	20	841.4	364.8	38.5	585.6	360.9	6591.5	242.1	263.9	236.0	6.1	28.0	47.3	46.6	11.0	10.8	41.5
SMDH 00224	814315.9	8193379.8	163.5	1	2	30	728.5	258.2	49.7	252.8	490.2	8954.2	173.2	202.4	166.8	6.4	35.5	43.3	36.1	15.8	13.3	31.3
SMDH 00224	814315.9	8193379.8	163.5	2	3	70	953.9	223.9	62.6	752.5	614.5	11225.0	147.2	183.1	141.2	6.0	41.8	36.9	29.4	23.3	12.6	25.3
SMDH 00224	814315.9	8193379.8	163.5	3	4	30	907.9	207.4	67.8	751.3	564.9	10317.8	135.2	175.8	126.6	8.5	49.2	40.6	28.3	23.8	16.9	24.4
SMDH 00224	814315.9	8193379.8	163.5	4	5	70	761.1	118.7	30.1	752.6	535.0	9772.3	81.1	97.3	77.4	3.8	19.9	18.5	15.3	10.4	5.7	16.7
SMDH 00224	814315.9	8193379.8	163.5	5	6	65	847.2	126.3	49.0	814.8	592.2	10817.3	84.8	110.9	80.7	4.1	30.3	20.8	16.4	19.2	7.0	16.2
SMDH 00224	814315.9	8193379.8	163.5	6	7	60	1051.4	190.1	93.7	860.7	709.2	12953.2	116.3	177.3	104.3	12.0	73.0	48.9	24.6	33.3	27.7	19.0
SMDH 00224	814315.9	8193379.8	163.5	7	8	65	984.4	219.5	83.3	812.4	607.2	11090.1	135.8	193.1	121.5	14.3	71.5	54.7	27.9	26.2	31.0	22.0
SMDH 00224	814315.9	8193379.8	163.5	8	9	85	934.5	159.3	65.3	825.8	641.9	11724.5	98.7	141.3	90.5	8.2	50.8	35.3	18.8	23.3	19.3	17.5
SMDH 00224	814315.9	8193379.8	163.5	9	10	95	1077.5	105.3	56.0	1195.0	768.4	14035.5	70.2	101.3	62.0	8.2	39.3	25.0	15.2	19.2	11.9	15.1
SMDH 00225	814195.5	8193380.4	162.5	0	1	4	1756.1	813.7	111.1	1240.3	624.8	11411.6	546.6	604.4	525.8	20.8	78.6	129.5	126.6	27.1	30.6	118.2
SMDH 00225	814195.5	8193380.4	162.5	1	2	45	1579.2	733.6	97.6	981.1	624.8	11411.6	493.1	543.9	476.5	16.6	67.4	113.6	112.9	25.6	25.1	107.8
SMDH 00225	814195.5	8193380.4	162.5	2	3	35	30886.1	26852.8	1075.9	2060.9	3315.4	60557.6	19288.7	19586.5	19118.2	170.5	468.3	3705.2	4589.3	121.6	176.1	5818.3
SMDH 00225	814195.5	8193380.4	162.5	3	4	50	2038.8	959.7	110.1	1219.9	833.0	15215.5	649.8	704.7	633.9	16.0	70.8	143.1	151.7	29.4	25.4	149.1
SMDH 00225	814195.5	8193380.4	162.5	4	5	60	2041.8	954.3	139.9	1144.4	837.3	15293.0	644.9	714.5	618.5	26.4	96.0	151.2	150.5	35.7	33.9	137.2
SMDH 00225	814195.5	8193380.4	162.5	5	6	70	2131.2	1042.5	126.9	1166.3	847.6	15482.5	697.0	764.3	672.8	24.2	91.5	165.8	165.6	30.1	37.2	149.4
SMDH 00225	814195.5	8193380.4	162.5	6	7	65	1830.5	882.1	105.3	1017.0	745.6	13619.3	596.4	646.3	579.6	16.9	66.8	137.9	144.7	26.7	23.2	127.5

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00225	814195.5	8193380.4	162.5	7	8	80	1922.7	911.0	112.7	1136.7	770.6	14075.7	611.8	669.0	593.6	18.2	75.4	138.2	140.4	29.1	28.1	132.1
SMDH 00225	814195.5	8193380.4	162.5	8	9	75	2222.3	994.1	133.5	1579.1	847.8	15485.3	668.4	743.8	640.5	28.0	103.4	179.2	165.6	32.2	43.2	130.2
SMDH 00225	814195.5	8193380.4	162.5	9	10	85	2390.7	1071.0	124.9	1638.5	964.9	17624.1	723.6	785.3	702.4	21.2	82.8	171.1	175.7	31.1	30.5	142.3
SMDH 00225	814195.5	8193380.4	162.5	10	11	40	2382.8	971.4	122.5	1940.9	960.2	17538.0	655.3	720.2	633.5	21.8	86.7	159.6	156.7	32.1	32.9	128.7
SMDH 00225	814195.5	8193380.4	162.5	11	12	35	2236.0	846.4	122.8	1857.0	967.2	17667.2	574.6	637.6	550.5	24.1	87.1	148.4	142.7	30.4	32.6	108.2
SMDH 00226	814079.0	8193389.5	162.9	0	1	45	2336.0	1254.5	104.2	1711.1	616.9	11268.1	840.8	901.1	818.4	22.4	82.6	175.0	174.3	22.2	38.0	126.5
SMDH 00226	814079.0	8193389.5	162.9	1	2	50	1923.2	981.9	116.0	1124.0	670.0	12238.4	659.4	728.2	640.3	19.2	88.0	142.0	134.6	32.4	36.4	104.4
SMDH 00226	814079.0	8193389.5	162.9	2	3	60	1701.1	858.8	97.1	887.7	664.1	12129.3	569.6	633.5	550.5	19.1	83.0	129.9	114.3	24.5	39.4	88.0
SMDH 00226	814079.0	8193389.5	162.9	3	4	80	1175.5	596.3	63.2	669.8	434.3	7932.1	397.9	437.9	384.1	13.9	53.8	89.9	82.2	14.4	25.5	61.5
SMDH 00226	814079.0	8193389.5	162.9	4	5	60	1527.0	738.5	84.9	1020.5	542.2	9904.4	491.2	546.0	475.2	16.0	70.8	115.6	103.3	21.9	32.9	75.2
SMDH 00226	814079.0	8193389.5	162.9	5	6	80	1450.4	677.8	77.0	1008.3	536.4	9798.2	451.8	499.9	438.7	13.1	61.2	92.5	85.2	21.3	26.8	69.9
SMDH 00226	814079.0	8193389.5	162.9	6	7	95	1681.3	806.5	82.5	1156.8	607.2	11090.1	539.2	589.7	525.4	13.8	64.3	121.1	116.0	21.9	28.6	80.3
SMDH 00226	814079.0	8193389.5	162.9	7	8	80	1520.0	775.2	78.5	824.0	579.7	10587.7	517.6	568.7	501.4	16.2	67.3	115.4	105.3	18.7	32.4	77.5
SMDH 00226	814079.0	8193389.5	162.9	8	9	98	1519.2	739.4	106.5	886.3	560.9	10246.0	488.7	558.4	467.3	21.4	91.0	122.2	101.8	28.2	41.4	73.3
SMDH 00226	814079.0	8193389.5	162.9	9	10	95	1491.0	756.7	103.4	689.8	591.0	10794.4	460.3	558.0	438.6	21.8	119.4	169.4	116.8	22.9	74.8	102.0
SMDH 00226	814079.0	8193389.5	162.9	10	11	85	1495.7	736.9	105.0	685.0	626.3	11440.3	457.6	543.9	439.6	18.0	104.3	154.2	116.7	26.7	59.6	99.8
SMDH 00226	814079.0	8193389.5	162.9	11	12	95	1671.5	859.9	119.4	718.5	666.3	12169.5	534.4	633.8	513.6	20.7	120.2	177.3	134.7	31.0	68.4	122.0
SMDH 00226	814079.0	8193389.5	162.9	12	13	98	1018.8	365.6	62.6	574.8	586.3	10708.2	234.6	276.1	227.4	7.2	48.7	66.9	55.5	20.1	21.5	54.8
SMDH 00227	813960.1	8193380.4	163.8	0	1	10	1573.8	1063.9	66.6	406.6	451.6	8247.9	689.8	735.5	673.7	16.1	61.7	174.3	173.1	9.2	36.4	147.5
SMDH 00227	813960.1	8193380.4	163.8	1	2	35	964.9	441.7	68.6	430.4	456.7	8342.7	284.5	329.0	276.8	7.7	52.2	77.1	68.5	22.5	22.0	69.1
SMDH 00227	813960.1	8193380.4	163.8	2	3	50	851.5	346.7	63.0	486.9	412.1	7527.3	219.7	262.9	211.8	7.9	51.2	68.9	55.6	20.2	23.0	50.7
SMDH 00227	813960.1	8193380.4	163.8	3	4	50	932.9	478.7	47.5	484.3	362.6	6623.0	311.5	340.5	306.0	5.5	34.5	76.6	77.6	14.9	14.1	72.0
SMDH 00227	813960.1	8193380.4	163.8	4	5	60	1105.6	604.0	58.9	641.7	341.4	6235.5	389.5	429.1	382.3	7.2	46.8	99.4	97.0	17.3	22.2	90.3
SMDH 00227	813960.1	8193380.4	163.8	5	6	55	1591.7	964.6	79.4	598.9	513.0	9370.4	643.7	685.5	627.9	15.8	57.7	127.2	129.8	19.6	22.2	116.7
SMDH 00227	813960.1	8193380.4	163.8	6	7	60	1360.1	786.1	57.8	658.3	440.1	8038.4	524.4	553.2	514.8	9.6	38.4	93.6	100.3	15.8	13.0	94.2
SMDH 00227	813960.1	8193380.4	163.8	7	8	95	1767.3	1014.1	94.6	695.0	628.7	11483.4	673.7	726.4	654.8	18.9	71.7	140.8	138.0	24.7	28.1	120.4
SMDH 00227	813960.1	8193380.4	163.8	8	9	98	1608.1	992.8	105.8	528.7	490.4	8957.0	661.1	720.2	638.3	22.8	81.9	149.5	142.2	27.0	32.1	114.9
SMDH 00227	813960.1	8193380.4	163.8	9	10	98	1233.9	726.1	75.7	483.0	399.8	7303.4	480.1	524.5	463.2	17.0	61.3	104.4	96.8	18.6	25.8	86.3
SMDH 00228	813841.2	8193385.8	165.3	0	1	18	2170.2	1450.8	122.2	616.3	576.4	10527.4	958.5	1039.2	933.8	24.6	105.3	247.4	239.2	27.6	53.1	232.4
SMDH 00228	813841.2	8193385.8	165.3	1	2	50	1678.9	680.4	86.1	953.5	875.1	15984.9	450.9	500.3	434.0	17.0	66.3	105.3	95.4	22.4	26.9	84.7
SMDH 00228	813841.2	8193385.8	165.3	2	3	30	1066.9	184.0	67.5	954.8	734.3	13412.6	120.6	158.3	112.5	8.2	45.9	36.3	26.6	24.1	13.6	23.6
SMDH 00228	813841.2	8193385.8	165.3	3	4	50	1020.1	496.1	64.4	519.6	422.5	7716.8	325.0	366.4	310.5	14.4	55.9	77.9	64.9	16.4	25.0	57.2
SMDH 00228	813841.2	8193385.8	165.3	4	5	99	1310.1	656.6	66.3	581.0	578.4	10564.7	436.3	476.1	418.6	17.7	57.5	99.3	90.3	14.4	25.4	80.1
SMDH 00228	813841.2	8193385.8	165.3	5	6	98	684.1	150.6	28.7	534.3	480.9	8784.8	99.8	116.1	95.3	4.5	20.8	25.0	20.6	9.2	7.1	19.0
SMDH 00228	813841.2	8193385.8	165.3	6	6.5	90	684.9	131.7	30.3	590.6	480.9	8784.8	86.3	104.3	83.5	2.8	20.8	22.1	17.3	11.0	7.0	17.2
SMDH 00229	813721.7	8193384.1	168.1	0	1	25	1427.3	755.5	53.5	799.4	521.8	9531.2	492.2	525.9	481.6	10.5	44.3	95.1	93.0	13.2	20.6	102.6
SMDH 00229	813721.7	8193384.1	168.1	1	2	30	2645.4	1471.5	115.9	1178.7	980.8	17914.1	959.9	1032.9	942.3	17.7	90.7	191.8	191.7	33.7	39.2	193.9
SMDH 00229	813721.7	8193384.1	168.1	2	3	70	969.9	360.1	40.6	461.0	608.1	11107.3	237.6	260.7	233.3	4.4	27.5	47.2	46.6	14.0	9.1	50.9
SMDH 00229	813721.7	8193384.1	168.1	3	4	75	968.1	201.8	46.7	681.6	723.0	13205.9	132.6	158.8	128.1	4.5	30.6	29.9	25.3	17.0	9.1	28.7
SMDH 00229	813721.7	8193384.1	168.1	4	5	50	777.5	168.4	34.8	730.2	490.4	8957.0	111.7	130.2	108.5	3.2	21.6	23.8	22.1	12.9	5.6	22.8
SMDH 00229	813721.7	8193384.1	168.1	5	6	70	542.9	82.3	28.0	472.3	405.5	7406.8	54.2	70.4	51.9	2.3	18.5	13.7	9.4	10.6	5.6	11.3
SMDH 00229	813721.7	8193384.1	168.1	6	7	50	776.5	225.3	32.5	571.1	484.1	8842.2	150.5	167.5	146.7	3.8	20.8	29.2	28.5	11.2	5.8	31.1
SMDH 00229	813721.7	8193384.1	168.1	7	8	95	982.7	347.4	59.1	563.2	570.7	10424.0	237.3	266.9	231.9	5.4	34.9	46.5	46.2	21.0	8.5	42.3
SMDH 00229	813721.7	8193384.1	168.1	8	9	95	1672.3	876.1	78.3	731.6	697.2	12735.1	589.4	633.3	578.4	11.0	54.9	118.9	121.6	21.8	22.1	108.5
SMDH 00229	813721.7	8193384.1	168.1	9	10	95	1286.4	616.2	65.2	657.7	568.5	10383.8	408.7	446.1	398.9	9.7	47.2	88.0	86.2	18.4	19.0	70.4
SMDH 00229	813721.7	8193384.1	168.1	10	11	92	1713.1	960.1	84.1	619.4	678.7	12396.3	639.5	690.6	625.1	14.5	65.5	130.6	125.9	20.7	30.4	110.7
SMDH 00229	813721.7	8193384.1	168.1	11	12	85	1813.3	947.7	101.9	750.1	754.7	13785.8	627.0	692.0	609.8	17.1	82.2	139.0	127.2	27.3	37.7	107.8
SMDH 00229	813721.7	8193384.1	168.1	12	13	95	1731.0	928.4	89.9	740.9	685.4	12519.7	616.7	672.9	600.1	16.7	72.9	130.8	121.8	22.5	33.7	105.3
SMDH 00229	813721.7	8193384.1	168.1	13	14	98	2012.0	1164.3	96.8	749.0	736.8	13458.5	770.9	831.6	751.6	19.3	80.0	168.8	162.7	22.7	38.0	129.8
SMDH 00229	813721.7	8193384.1	168.1	14	15	98	1818.5	1034.7	86.0	622.6	718.9	13131.2	685.2	740.7	667.7	17.5	73.0	147.0	140.0	19.2	36.3	115.4
SMDH 00229	813721.7	8193384.1	168.1	15	16	98	1922.5	1077.2	109.5	716.3	730.2	13337.9	712.4	780.3	691.8	20.6	88.4	156.5	146.2	28.1	39.7	116.3
SMDH 00230	813599.6	8193384.9	170.0	0	1	25	1583.1	834.4	77.7	818.7	589.1	10759.9	550.7	599.2	537.3	13.4	61.9	120.3	115.2	19.8	28.7	92.3
SMDH 00230	813599.6	8193384.9	170.0	1	2	90	1231.7	654.5	61.3	500.5	512.9	9367.6	435.2	472.7	424.1	11.1	48.6	96.0	90.8	14.1	23.4	74.4
SMDH 00230	813599.6	8193384.9	170.0	2	3	75	1464.5	826.0	97.2	564.9	519.6	9491.0	547.6	613.0	526.0	21.6	87.0	146.0	123.0	20.1	45.3	97.7
SMDH 00230	813599.6	8193384.9	170.0	3	4	92	1404.5	612.4	86.4	793.1	651.0	11891.0	371.6	446.1	357.9	13.7	88.2	130.3	97.2	22.7	51.8	80.2
SMDH 00230	813599.6	8193384.9	170.0	4	5	85	1256.8	606.4	79.8	722.1	488.8	8928.3	370.9	437.9	358.1	12.9	79.8	121.4	93.1	20.9	46.1	80.0
SMDH 00230	813599.6	8193384.9	170.0	5	6	98	1487.2	793.0	106.8	783.7	484.4	8847.9	482.2	574.7	464.4	17.9	110.3	163.1	121.5	27.9	64.5	100.3
SMDH 00230	813599.6	8193384.9	170.0	6	7	99	1229.4	613.7	77.1	636.5	482.4	8810.6	373.2	442.9	358.9	14.2	84.0	130.5	96.6	17.9	51.8	78.0
SMDH 00230	813599.6	8193384.9	170.0	7	8	98	1295.9	498.2	52.2	1047.4	590.5	10785.8	306.4	352.8	297.1	9.3	55.7	99.6	79.1	11.2	35.2	63.6
SMDH 00230	813599.6	8193384.9	170.0	8	9	98	1241.2	489.3	72.2	754.2	631.5	11535.0	291.2	358.5	278.5	12.7	80.0	108.6	73.4	17.6	49.7	60.2
SMDH 00230	813599.6	8193384.9	170.0	9	10	98	1169.2	451.1	61.7	788.6	581.9	10627.9	271.1	330.3	259.4	11.7	70.9	102.9	71.3	14.0	45.2	57.5
SMDH 00230	813599.6	8193384.9	170.0	10	11	90	1414.2	632.0	112.9	786.9	601.3	10983.8	367.4	475.1	344.7	22.7	130.4	157.8	94.2	27.3	80.4	75.6
SMDH 00230	813599.6	8193384.9	170.0	11	12	98	1280.7	452.0	56.6	684.9	797.2	14560.9	295.7	330.8	285.9	9.7	44.9	68.0	60.6	15.8	19.3	51.8
SMDH 00230	813599.6	8193384.9	170.0	12	13	88	1522.8	751.8	82.8	608.3	711.7	12999.2	496.1	545.1	482.4	13.7	62.7	106.4	99.8	22.4	26.7	84.4
SMDH 00230	813599.6	8193384.9	170.0	13	14	95	1738.7	934.3	98.2	561.3	759.5	13871.9	614.2	673.3	596.2	18.0	77.2	138.2	128.9	25.0	34.2	105.4
SMDH 00230	813599.6	8193384.9	170.0	14	15	96	1519.5	863.3	88.4	455.6	608.6	11115.9	569.4	623.4	552.8	16.5	70.6	126.3	117.0	21.0	33.0	102.0
SMDH 00230	813599.6	8193384.9	170.0	15	16	98	1483.6	792.0	79.7	635.9	588.5	10748.4	516.1	569.6	500.0	16.1	69.6	117.4	103.6	18.7	34.8	87.7
SMDH 00230	813599.6	8193384.9	170.0	16	17	80	1683.4	897.9	97.0	722.9	658.9	12034.6	587.6	647.4	568.5	19.1	78.9	133.3	119.1	23.0	36.8	102.9
SMDH 00231	813465.2	8193383.8	166.6	0	1	15	1873.4	1015.0	83.8	838.8	729.3	13320.7	667.1	722.9	649.5	17.6	73.3	145.4	135.0	18.6	37.2	117.3
SMDH 00231	813465.2	8193383.8	166.6	1	2	20	2586.9	1479.4	126.4	1296.9	814.8	14882.4	978.7	1056.2	954.8	23.9	101.5	208.8	201.8	29.9	47.6	173.7
SMDH 00231	813465.2	8193383.8	166.6	2	3	55	1914.4	949.1	114.6	940.2	792.2	14469.0	627.2	695.9	611.9	15.3	84.0	130.3	121.8	36.0	32.6	101.3

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00231	813465.2	8193383.8	166.6	3	4	80	1359.0	700.5	99.0	588.0	535.2	9775.2	441.2	515.4	427.0	14.2	88.4	138.4	113.6	27.9	46.2	98.4
SMDH 00231	813465.2	8193383.8	166.6	4	5	20	1277.8	604.4	99.0	570.9	564.6	10312.1	377.2	451.4	364.2	13.0	87.2	119.6	93.9	30.1	44.2	81.4
SMDH 00231	813465.2	8193383.8	166.6	5	6	70	1178.5	557.7	84.8	544.3	521.5	9525.5	348.0	412.9	335.3	12.8	77.6	112.0	88.1	23.9	40.9	75.3
SMDH 00231	813465.2	8193383.8	166.6	6	7	90	1117.5	542.0	78.9	417.0	523.7	9565.6	339.6	401.3	328.3	11.4	73.1	114.5	91.3	22.7	39.0	73.7
SMDH 00231	813465.2	8193383.8	166.6	7	8	96	1603.5	637.4	136.1	897.1	782.2	14288.2	384.3	495.3	366.0	18.3	129.3	147.8	97.2	42.0	69.0	82.0
SMDH 00231	813465.2	8193383.8	166.6	8	9	98	1560.1	691.6	153.1	697.3	709.6	12961.9	400.3	539.2	375.5	24.8	163.6	178.7	102.7	43.9	95.0	84.6
SMDH 00231	813465.2	8193383.8	166.6	9	10	80	1593.6	754.6	128.2	741.6	682.4	12465.2	451.6	567.1	427.6	24.0	139.5	176.4	116.3	32.8	82.7	95.2
SMDH 00231	813465.2	8193383.8	166.6	10	11	30	1691.1	841.7	150.8	713.6	677.9	12381.9	501.0	635.3	474.3	26.7	161.0	199.5	128.8	40.0	94.2	105.3
SMDH 00231	813465.2	8193383.8	166.6	11	12	95	1562.9	784.4	109.6	655.0	662.0	12092.0	493.0	579.5	475.3	17.7	104.2	160.3	126.8	28.8	57.7	111.2
SMDH 00231	813465.2	8193383.8	166.6	12	13	50	1566.6	717.2	85.8	772.3	744.4	13596.3	474.8	521.6	465.1	9.7	56.5	102.1	101.6	27.0	19.8	104.6
SMDH 00231	813465.2	8193383.8	166.6	13	13.5	70	1803.5	904.8	102.3	755.2	799.7	14606.8	594.7	653.7	580.9	13.8	72.8	142.0	137.9	29.3	29.7	125.5
SMDH 00232	813356.7	8193384.3	164.0	0	1	20	2097.7	1219.5	89.9	1049.0	651.3	11896.8	795.6	856.5	774.4	21.2	82.1	187.9	176.4	15.2	45.7	169.7
SMDH 00232	813356.7	8193384.3	164.0	1	2	20	2637.7	1518.8	109.7	702.6	1131.6	20670.1	991.3	1065.7	968.3	23.0	97.4	226.9	216.3	20.9	53.6	212.7
SMDH 00232	813356.7	8193384.3	164.0	2	3	90	1785.0	1139.9	96.9	582.5	521.3	9522.6	736.3	801.7	719.1	17.2	82.6	164.1	145.5	24.4	41.0	118.3
SMDH 00232	813356.7	8193384.3	164.0	3	4	55	2009.6	1268.9	89.2	527.1	696.3	12717.8	864.7	917.5	851.0	13.7	66.5	195.2	194.6	23.2	29.7	222.7
SMDH 00232	813356.7	8193384.3	164.0	4	5	90	1410.0	678.9	72.6	719.1	617.2	11273.8	442.7	486.1	433.8	8.8	52.3	94.3	86.4	22.9	20.6	72.8
SMDH 00232	813356.7	8193384.3	164.0	5	6	85	1034.6	506.8	65.7	513.8	428.9	7834.5	328.2	368.8	319.2	9.1	49.6	77.6	67.1	20.9	19.7	51.3
SMDH 00232	813356.7	8193384.3	164.0	6	7	70	1266.9	618.6	84.1	679.3	499.5	9123.5	393.9	450.8	380.2	13.6	70.6	99.6	79.8	25.5	31.5	63.6
SMDH 00232	813356.7	8193384.3	164.0	7	8	70	1375.1	643.3	105.6	759.7	551.7	10076.7	404.9	479.6	387.0	17.9	92.5	115.6	83.9	31.7	42.9	63.8
SMDH 00232	813356.7	8193384.3	164.0	8	9	90	1088.9	555.6	72.0	565.8	403.6	7372.3	353.0	404.5	339.7	13.3	64.8	90.8	68.8	19.8	31.7	57.2
SMDH 00232	813356.7	8193384.3	164.0	9	10	98	1138.3	532.6	88.2	631.7	454.1	8293.9	339.6	398.9	325.3	14.3	73.6	93.1	69.0	26.8	32.5	53.7
SMDH 00232	813356.7	8193384.3	164.0	10	11	98	1277.2	593.9	104.8	702.0	509.6	9307.3	377.2	447.1	361.3	15.9	85.8	103.1	77.4	33.9	35.9	58.3
SMDH 00232	813356.7	8193384.3	164.0	11	12	99	1607.9	702.6	102.5	1009.3	690.8	12617.4	448.7	520.4	431.1	17.6	89.2	137.3	115.2	27.3	44.3	97.1
SMDH 00232	813356.7	8193384.3	164.0	12	13	90	1282.7	597.4	87.1	742.1	519.3	9485.3	378.4	443.0	360.9	17.5	82.2	127.8	102.2	20.9	43.8	77.9
SMDH 00233	813241.1	8193383.9	165.2	0	1	25	1267.9	593.4	81.5	689.8	536.1	9792.4	385.7	437.0	373.4	12.3	63.5	107.3	98.1	23.3	27.9	82.8
SMDH 00233	813241.1	8193383.9	165.2	1	2	20	1224.9	545.6	94.3	618.3	558.0	10191.5	356.6	411.5	345.1	11.5	66.4	99.3	93.0	31.1	23.7	76.5
SMDH 00233	813241.1	8193383.9	165.2	2	3	65	1285.3	571.8	73.1	650.2	623.0	11380.0	375.3	417.3	366.9	8.4	50.4	96.2	95.8	22.7	19.3	82.7
SMDH 00233	813241.1	8193383.9	165.2	3	4	70	1263.7	581.0	73.7	641.1	582.0	10630.7	379.0	423.1	369.3	9.7	53.8	96.8	94.0	21.6	22.5	81.3
SMDH 00233	813241.1	8193383.9	165.2	4	5	70	1311.3	631.3	83.0	681.8	545.9	9970.4	412.9	462.5	401.4	11.5	61.1	109.4	104.2	24.1	25.5	92.8
SMDH 00233	813241.1	8193383.9	165.2	5	6	85	1176.6	497.5	86.1	736.7	514.4	9396.3	323.0	375.5	311.2	11.7	64.3	93.9	81.7	25.8	26.8	69.8
SMDH 00233	813241.1	8193383.9	165.2	6	7	85	1229.0	552.1	91.4	581.2	576.0	10521.6	349.1	414.1	335.3	13.8	78.7	94.3	70.2	27.0	38.0	60.6
SMDH 00233	813241.1	8193383.9	165.2	7	8	95	1269.9	584.6	89.6	499.5	628.7	11483.4	379.3	436.0	368.3	11.0	67.8	91.0	77.7	28.7	28.1	67.3
SMDH 00233	813241.1	8193383.9	165.2	8	9	92	1080.0	504.9	67.6	466.7	516.3	9430.7	329.2	371.1	320.2	9.0	50.9	74.0	65.6	20.4	21.5	58.8
SMDH 00233	813241.1	8193383.9	165.2	9	10	90	1216.7	575.8	72.0	498.2	590.5	10785.8	379.5	421.1	372.0	7.5	49.0	80.7	76.0	22.4	19.2	70.1
SMDH 00233	813241.1	8193383.9	165.2	10	11	98	1062.7	516.5	58.2	472.9	485.2	8862.3	338.5	373.4	330.5	8.0	42.9	73.7	69.0	17.0	17.9	62.3
SMDH 00233	813241.1	8193383.9	165.2	11	12	95	1116.4	578.9	54.2	448.2	490.1	8951.3	379.5	411.6	372.5	7.1	39.2	72.8	70.1	15.3	16.8	72.0
SMDH 00233	813241.1	8193383.9	165.2	12	13	98	1434.8	721.0	85.5	616.1	621.5	11351.3	475.7	527.6	465.3	10.3	62.3	99.4	93.5	27.3	24.6	91.5
SMDH 00233	813241.1	8193383.9	165.2	13	14	50	1340.4	650.1	93.1	504.0	628.7	11483.4	410.0	480.8	393.9	16.1	86.9	113.1	83.5	25.8	45.1	73.9
SMDH 00233	813241.1	8193383.9	165.2	14	15	70	990.5	432.9	60.6	469.8	499.7	9126.4	281.8	320.2	273.7	8.0	46.5	67.3	59.0	18.9	19.6	51.5
SMDH 00233	813241.1	8193383.9	165.2	15	16	95	883.2	191.3	65.2	677.8	590.5	10785.8	121.5	161.6	117.0	4.5	44.5	42.0	29.6	24.1	16.0	27.1
SMDH 00233	813241.1	8193383.9	165.2	16	17	98	1269.8	530.6	101.3	812.9	544.0	9936.0	328.2	401.9	316.3	11.9	85.7	109.4	85.1	32.8	40.9	68.8
SMDH 00233	813241.1	8193383.9	165.2	17	18	70	1085.2	398.1	64.5	796.6	529.4	9669.0	258.5	296.2	252.7	5.8	43.5	66.8	63.9	22.2	15.5	56.8
SMDH 00234	813136.3	8193381.2	164.5	0	1	30	1524.4	828.0	73.1	1211.8	337.4	6163.7	520.7	585.1	505.1	15.5	79.9	160.8	134.4	12.0	52.4	115.1
SMDH 00234	813136.3	8193381.2	164.5	1	2	20	1530.1	877.7	90.1	859.3	413.0	7544.6	559.3	625.4	544.1	15.2	81.4	159.7	143.0	20.7	45.5	121.5
SMDH 00234	813136.3	8193381.2	164.5	2	3	25	1330.8	740.6	76.5	530.3	495.7	9054.6	482.5	533.0	473.4	9.1	59.6	133.0	131.5	22.1	28.4	101.3
SMDH 00234	813136.3	8193381.2	164.5	3	4	90	1016.9	496.4	61.6	606.5	381.1	6961.8	320.0	360.6	312.5	7.5	48.1	86.7	78.8	18.3	22.4	72.9
SMDH 00234	813136.3	8193381.2	164.5	4	5	35	998.4	717.7	48.1	328.9	183.3	3347.4	467.5	502.5	457.3	10.1	45.2	124.9	120.0	6.7	28.3	104.7
SMDH 00234	813136.3	8193381.2	164.5	5	6	80	617.9	308.5	34.0	342.9	238.6	4357.9	200.6	222.9	195.0	5.6	27.9	55.8	50.0	8.0	14.3	45.5
SMDH 00234	813136.3	8193381.2	164.5	6	7	80	879.6	314.2	46.9	617.7	462.1	8440.3	202.6	232.4	198.1	4.5	34.3	59.7	56.5	16.0	13.8	44.0
SMDH 00234	813136.3	8193381.2	164.5	7	8	90	1351.8	674.9	96.1	527.3	594.1	10851.8	434.1	496.4	422.3	11.8	74.1	128.1	119.7	30.5	31.7	96.2
SMDH 00234	813136.3	8193381.2	164.5	8	9	98	1215.0	609.3	86.6	501.3	517.1	9445.1	387.7	446.8	375.5	12.2	71.3	117.9	106.4	26.2	32.9	84.7
SMDH 00234	813136.3	8193381.2	164.5	9	10	99	1269.0	662.0	74.9	464.6	552.9	10099.6	422.7	475.7	411.8	10.9	63.8	126.6	117.2	20.6	32.4	92.4
SMDH 00234	813136.3	8193381.2	164.5	10	11	85	1056.3	654.3	57.0	343.4	338.9	6189.5	438.7	474.0	430.1	8.6	43.9	91.3	86.3	14.9	20.4	74.2
SMDH 00234	813136.3	8193381.2	164.5	11	12	90	709.4	311.5	40.4	348.6	354.6	6476.6	208.4	233.2	202.0	6.4	31.2	50.8	44.2	11.4	13.5	34.8
SMDH 00234	813136.3	8193381.2	164.5	12	13	98	1123.6	598.5	45.8	425.0	494.9	9040.3	409.6	433.4	402.8	6.8	30.6	83.8	84.9	11.0	12.7	66.4
SMDH 00234	813136.3	8193381.2	164.5	13	14	98	1012.3	492.4	50.4	511.0	440.9	8052.7	337.1	362.9	330.2	6.9	32.8	69.0	69.2	14.3	11.6	56.1
SMDH 00234	813136.3	8193381.2	164.5	14	15	98	957.4	518.4	58.3	390.1	368.9	6737.9	351.2	384.3	343.0	8.1	41.2	75.7	72.0	16.6	16.5	56.8
SMDH 00235	812997.6	8193382.9	166.7	0	1	30	730.8	373.7	38.1	263.7	338.4	6180.9	250.9	273.7	243.6	7.3	30.1	53.9	49.1	9.4	13.5	42.8
SMDH 00235	812997.6	8193382.9	166.7	1	2	40	927.8	433.8	60.8	560.8	365.3	6671.8	282.1	326.7	267.9	14.2	58.8	80.6	59.7	13.5	31.1	47.0
SMDH 00235	812997.6	8193382.9	166.7	2	3	80	887.1	468.2	58.3	486.2	295.2	5391.4	306.9	349.9	291.6	15.4	58.3	83.6	60.7	10.7	32.3	50.7
SMDH 00235	812997.6	8193382.9	166.7	3	4	50	843.9	438.4	73.9	484.6	253.8	4636.4	281.6	338.2	261.9	19.7	76.3	88.3	56.3	15.5	41.1	43.4
SMDH 00235	812997.6	8193382.9	166.7	4	5	50	1059.3	492.8	77.3	583.9	435.4	7952.2	308.5	371.5	294.8	13.7	76.6	96.4	66.3	21.3	41.7	63.1
SMDH 00235	812997.6	8193382.9	166.7	5	6	55	884.2	435.3	70.0	462.0	332.7	6077.6	270.0	329.3	256.3	13.7	73.1	88.8	57.6	17.9	41.4	55.4
SMDH 00235	812997.6	8193382.9	166.7	6	7	45	919.2	473.4	75.8	424.7	337.3	6160.8	289.0	357.2	273.1	15.9	84.1	97.4	58.1	18.3	49.9	59.6
SMDH 00235	812997.6	8193382.9	166.7	7	8	60	1140.1	518.9	83.9	836.9	387.4	7076.6	316.7	391.6	301.3	15.4	90.4	108.5	67.9	22.2	52.7	63.6
SMDH 00235	812997.6	8193382.9	166.7	8	8.5	50	763.0	327.1	154.7	310.1	262.2	4788.6	199.9	296.8	178.4	21.5	118.4	79.8	46.7	55.2	41.7	41.2
SMDH 00236	812880.4	8193384.3	168.1	0	1	40	1635.8	805.3	153.2	913.9	553.9	10116.8	494.3	623.3	467.4	26.8	155.9	169.5	102.9	42.9	86.1	101.1
SMDH 00236	812880.4	8193384.3	168.1	1	2	65	1433.2	526.1	232.1	588.2	701.9	12821.2	270.3	472.4	233.8	36.5	238.6	172.6	54.2	75.5	126.6	47.4
SMDH 00236	812880.4	8193384.3	168.1	2	3	65	2298.7	617.1	397.1	1340.0	1233.0	22521.8	276.6	618.0	212.5	64.1	405.5	265.8	64.1	131.4	209.9	44.1
SMDH 00236	812880.4	8193384.3	168.1	3	4	85	2117.3	416.2	255.6	1781.8	1260.4	23021.3	217.4	410.0	187.9	29.4	222.1	137.2	46.0	94.6	98.0	40.1
SMDH 00236	812880.4	8193384.3	168.1	4	5	80	2651.4	870.0	500.3	1482.8	1161.8	21221.3	489.0	853.3	393.3	95.7	460.0	295.7	105.2	158.3	206.0	72.6

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00236	812880.4	8193384.3	168.1	5	6	70	930.1	223.0	102.9	756.1	521.5	9525.5	140.3	202.6	129.7	10.6	72.9	49.9	30.3	38.7	23.6	25.2
SMDH 00236	812880.4	8193384.3	168.1	6	7	75	1583.6	317.1	133.5	1690.0	851.6	15554.2	207.4	282.5	196.6	10.9	86.0	60.8	44.3	52.6	22.5	37.3
SMDH 00236	812880.4	8193384.3	168.1	7	7.5	50	1870.1	331.3	122.4	1856.1	1183.8	21623.2	219.8	286.5	213.0	6.8	73.5	52.1	42.6	50.8	15.9	40.5
SMDH 00237	812761.8	8193386.7	167.3	0	1	30	1045.9	421.2	47.4	554.6	576.5	10530.3	280.9	309.0	273.1	7.8	35.9	64.2	58.0	12.6	15.5	48.7
SMDH 00237	812761.8	8193386.7	167.3	1	2	90	1145.4	445.7	51.2	728.3	598.5	10932.2	299.2	327.3	292.9	6.3	34.4	62.0	62.9	16.4	11.7	55.2
SMDH 00237	812761.8	8193386.7	167.3	2	3	96	812.5	340.3	42.7	269.9	495.1	9043.2	235.3	257.4	231.2	4.1	26.2	50.1	50.7	14.1	8.0	49.6
SMDH 00237	812761.8	8193386.7	167.3	3	4	85	747.4	396.3	37.6	325.7	301.5	5506.3	275.1	294.6	271.4	3.7	23.1	52.1	53.6	11.4	8.1	61.0
SMDH 00237	812761.8	8193386.7	167.3	4	5	98	1155.9	585.2	63.9	576.4	464.3	8480.5	394.9	431.5	385.6	9.3	45.9	87.5	84.9	18.7	17.9	73.8
SMDH 00237	812761.8	8193386.7	167.3	5	6	95	1148.0	677.3	57.8	409.6	406.1	7418.3	442.9	479.4	435.7	7.2	43.7	103.1	103.3	16.4	20.1	106.1
SMDH 00237	812761.8	8193386.7	167.3	6	7	98	691.5	345.0	40.1	277.9	313.6	5727.3	223.1	250.1	217.1	6.0	33.0	63.3	56.3	10.7	16.3	51.4
SMDH 00237	812761.8	8193386.7	167.3	7	8	90	666.9	425.0	35.3	176.2	216.6	3956.0	281.5	300.3	276.2	5.3	24.1	63.8	65.2	8.7	10.0	65.8
SMDH 00237	812761.8	8193386.7	167.3	8	9	98	739.5	443.7	42.1	274.6	238.9	4363.7	284.2	314.9	277.3	6.9	37.6	74.5	66.7	10.0	20.7	65.1
SMDH 00237	812761.8	8193386.7	167.3	9	10	98	746.9	315.1	47.4	427.3	356.9	6519.7	196.6	230.6	189.1	7.5	41.5	40.5	29.3	13.0	21.0	50.3
SMDH 00237	812761.8	8193386.7	167.3	10	11	98	564.9	226.2	31.3	335.2	288.3	5265.1	148.3	166.2	144.6	3.6	21.6	37.2	34.5	10.0	8.0	34.1
SMDH 00237	812761.8	8193386.7	167.3	11	12	95	611.5	184.4	32.5	423.6	373.3	6818.3	121.3	139.0	118.7	2.5	20.3	28.5	27.4	11.8	6.0	27.3
SMDH 00237	812761.8	8193386.7	167.3	12	13	98	1130.0	665.0	59.7	421.2	389.8	7119.7	441.8	480.6	431.9	9.9	48.7	114.2	108.5	14.3	24.5	110.8
SMDH 00237	812761.8	8193386.7	167.3	13	14	98	802.3	365.4	38.7	405.7	386.8	7065.1	237.3	261.1	231.8	5.5	29.3	59.3	55.6	10.1	13.7	54.7
SMDH 00237	812761.8	8193386.7	167.3	14	15	95	1457.2	701.1	73.9	525.6	741.5	13544.6	471.0	522.4	459.3	11.7	63.2	109.0	95.0	19.3	32.1	100.3
SMDH 00238	812648.8	8193388.6	165.7	0	1	45	721.8	279.0	27.7	417.7	405.7	7409.6	187.7	203.7	184.9	2.8	18.8	38.2	38.6	9.0	7.0	40.7
SMDH 00238	812648.8	8193388.6	165.7	1	2	30	733.7	277.2	79.8	118.7	489.1	8934.1	179.3	232.6	169.1	10.2	63.5	59.1	38.8	26.4	26.9	33.1
SMDH 00238	812648.8	8193388.6	165.7	2	3	45	728.6	366.7	145.4	112.1	260.7	4762.7	214.7	324.9	196.9	17.8	128.0	113.8	62.7	49.1	61.1	40.9
SMDH 00238	812648.8	8193388.6	165.7	3	4	30	1039.2	594.0	174.4	63.5	361.8	6608.7	367.4	486.4	349.2	18.2	137.2	135.3	96.1	61.4	57.7	72.7
SMDH 00238	812648.8	8193388.6	165.7	4	5	40	688.3	297.1	156.8	86.4	298.5	5451.7	166.5	279.9	148.2	18.3	131.7	98.9	47.4	55.2	58.2	29.1
SMDH 00238	812648.8	8193388.6	165.7	5	6	65	955.3	419.7	77.5	367.5	491.2	8971.4	269.1	320.3	259.8	9.3	60.5	83.6	70.2	24.5	26.7	57.1
SMDH 00238	812648.8	8193388.6	165.7	6	7	50	742.1	292.4	47.1	376.7	406.4	7424.0	192.5	219.3	188.0	4.5	31.3	51.0	48.2	15.3	11.4	43.6
SMDH 00238	812648.8	8193388.6	165.7	7	8	55	1141.3	368.2	92.6	376.3	808.3	14764.7	224.4	290.9	211.9	12.5	79.0	87.6	60.9	29.1	37.3	44.7
SMDH 00238	812648.8	8193388.6	165.7	8	9	50	696.1	242.4	44.2	413.2	399.5	7297.7	158.5	184.4	154.9	3.6	29.5	43.7	39.5	15.3	10.5	35.4
SMDH 00255	812578.8	8193264.4	165.6	0	1	40	875.8	506.0	56.4	302.2	312.5	5707.2	331.9	370.2	322.3	9.5	47.8	99.9	90.1	12.3	26.0	80.6
SMDH 00255	812578.8	8193264.4	165.6	1	2	45	708.0	363.5	50.6	211.2	326.6	5965.6	233.4	271.2	224.9	8.5	46.3	76.5	62.6	12.3	25.5	50.8
SMDH 00255	812578.8	8193264.4	165.6	2	3	85	1139.0	695.3	68.2	250.2	426.3	7785.7	459.7	498.8	450.6	9.1	48.2	114.2	116.4	18.4	20.7	107.5
SMDH 00255	812578.8	8193264.4	165.6	3	4	90	910.1	558.2	44.5	223.2	340.4	6218.2	370.0	394.9	363.8	6.1	31.1	87.4	90.4	10.7	14.2	87.7
SMDH 00255	812578.8	8193264.4	165.6	4	5	55	617.3	345.0	35.1	194.7	252.3	4607.7	232.7	248.6	229.6	3.2	19.0	52.0	57.1	10.7	5.1	56.6
SMDH 00255	812578.8	8193264.4	165.6	5	6	90	963.2	628.2	45.1	210.7	320.9	5862.3	419.1	441.9	412.9	6.2	29.0	95.8	104.0	10.7	12.1	101.3
SMDH 00255	812578.8	8193264.4	165.6	6	7	85	778.3	526.8	32.5	154.2	244.9	4472.8	351.8	367.4	347.7	4.1	19.7	76.5	85.7	7.7	7.9	83.5
SMDH 00254	812695.9	8193265.6	172.4	0	1	40	1460.2	784.6	70.1	417.6	680.9	12436.5	528.0	568.0	517.8	10.2	50.2	117.4	118.5	18.4	21.6	112.5
SMDH 00254	812695.9	8193265.6	172.4	1	2	90	1407.7	973.3	63.5	341.3	377.2	6890.0	643.6	681.7	632.1	11.5	49.5	158.8	163.7	10.7	27.3	162.2
SMDH 00254	812695.9	8193265.6	172.4	2	3	85	1002.8	695.5	47.9	290.1	240.0	4383.8	454.9	487.5	446.0	9.0	41.5	111.3	109.5	9.2	23.4	111.3
SMDH 00254	812695.9	8193265.6	172.4	3	4	90	838.7	455.0	44.3	353.9	325.8	5951.3	295.6	325.1	290.5	5.1	34.6	76.1	72.5	12.3	17.3	66.3
SMDH 00254	812695.9	8193265.6	172.4	4	5	70	1170.7	474.4	55.9	652.9	621.9	11359.9	315.3	345.0	311.1	4.2	33.9	74.7	77.9	18.4	11.3	73.4
SMDH 00254	812695.9	8193265.6	172.4	5	6	85	1100.5	503.7	79.0	501.0	515.4	9413.5	312.6	373.3	301.8	10.8	71.5	102.4	78.5	23.0	37.7	69.5
SMDH 00254	812695.9	8193265.6	172.4	6	7	95	1207.5	516.9	65.7	521.9	660.3	12060.4	333.4	376.0	325.7	7.7	50.4	88.7	82.5	19.9	22.7	74.9
SMDH 00254	812695.9	8193265.6	172.4	7	8	90	788.6	201.0	43.0	446.5	579.3	10581.9	132.5	156.6	129.2	3.3	27.4	34.6	30.7	15.3	8.8	30.6
SMDH 00253	812818.7	8193267.0	167.9	0	1	40	1506.8	718.3	78.6	809.5	649.6	11865.2	454.8	518.2	442.9	12.0	75.3	134.8	113.6	19.9	43.4	101.7
SMDH 00253	812818.7	8193267.0	167.9	1	2	60	669.8	78.3	38.4	720.3	464.3	8480.5	50.5	72.7	48.2	2.4	24.5	17.3	11.7	15.3	6.9	11.1
SMDH 00253	812818.7	8193267.0	167.9	2	3	70	927.4	288.6	40.2	669.6	553.7	10114.0	191.7	213.5	188.6	3.1	24.9	47.3	47.6	13.8	8.0	42.9
SMDH 00253	812818.7	8193267.0	167.9	3	4	40	1274.6	552.4	67.0	804.0	572.9	10464.2	358.4	401.2	351.1	7.4	50.2	93.1	89.0	21.5	21.3	79.2
SMDH 00253	812818.7	8193267.0	167.9	4	5	70	1131.7	458.5	62.8	510.5	644.7	11776.2	294.7	335.6	287.4	7.3	48.2	80.7	73.6	19.9	21.0	65.4
SMDH 00253	812818.7	8193267.0	167.9	5	6	28	928.0	423.4	55.6	461.8	434.1	7929.3	273.2	310.4	266.6	6.6	43.8	74.5	66.3	16.9	20.3	62.6
SMDH 00252	812936.9	8193265.5	170.8	0	1	35	962.9	552.5	56.7	504.3	276.6	5052.7	346.3	399.1	332.7	13.6	66.4	110.3	81.7	9.2	43.6	74.8
SMDH 00252	812936.9	8193265.5	170.8	1	2	25	685.5	449.6	45.3	193.8	185.3	3384.7	281.9	323.8	271.4	10.4	52.4	95.7	71.5	6.1	35.8	66.7
SMDH 00252	812936.9	8193265.5	170.8	2	3	70	864.4	445.8	69.9	188.1	416.4	7604.9	274.9	333.2	262.3	12.6	70.9	97.9	67.9	16.9	41.4	61.3
SMDH 00252	812936.9	8193265.5	170.8	3	4	45	386.8	222.0	34.2	127.3	129.5	2365.6	134.3	165.8	126.6	7.7	39.2	52.5	32.0	6.1	25.4	30.0
SMDH 00252	812936.9	8193265.5	170.8	4	5	45	441.3	257.6	23.5	194.6	141.0	2575.1	162.1	184.8	156.9	5.3	27.9	50.2	36.3	3.1	19.6	38.4
SMDH 00252	812936.9	8193265.5	170.8	5	6	20	402.6	231.1	34.3	204.8	103.1	1883.3	145.2	169.5	139.3	5.9	30.2	47.4	35.9	7.7	16.6	33.2
SMDH 00251	813050.4	8193262.5	167.6	0	1	45	1614.9	1082.0	80.6	575.6	385.9	7047.9	696.3	760.3	680.4	16.0	79.9	187.5	171.8	13.8	50.2	154.7
SMDH 00251	813050.4	8193262.5	167.6	1	2	90	1695.3	858.3	75.2	603.9	820.0	14977.2	564.0	609.4	554.1	9.9	55.4	137.8	139.5	18.4	27.0	128.5
SMDH 00251	813050.4	8193262.5	167.6	2	3	95	1677.9	880.1	85.4	730.8	689.7	12597.3	580.6	630.8	570.1	10.5	60.7	147.1	149.7	23.0	27.2	128.3
SMDH 00251	813050.4	8193262.5	167.6	3	4	85	1132.1	422.6	64.3	699.8	607.0	11087.2	276.1	314.7	270.4	5.7	44.3	72.6	68.4	21.5	17.1	61.3
SMDH 00251	813050.4	8193262.5	167.6	4	5	80	1050.4	287.9	63.1	767.1	654.0	11945.6	174.7	223.7	167.0	7.7	56.7	66.9	45.4	19.9	29.1	37.9
SMDH 00251	813050.4	8193262.5	167.6	5	6	80	1101.0	409.3	91.7	525.3	622.7	11374.3	259.1	320.9	249.4	9.8	71.6	86.2	66.8	30.7	31.1	54.7
SMDH 00251	813050.4	8193262.5	167.6	6	7	90	1268.1	577.6	98.2	468.4	638.1	11655.6	380.4	436.9	367.4	13.0	69.4	100.0	92.3	30.7	25.8	77.8
SMDH 00251	813050.4	8193262.5	167.6	7	8	85	1101.7	470.1	53.7	480.3	611.9	11176.2	312.4	341.6	305.3	7.1	36.3	77.9	79.7	15.3	13.8	71.1
SMDH 00251	813050.4	8193262.5	167.6	8	9	90	1323.1	630.0	57.0	526.8	674.3	12315.9	419.4	448.2	412.4	7.0	35.8	96.6	105.5	15.3	13.5	95.2
SMDH 00251	813050.4	8193262.5	167.6	9	10	94	1306.1	607.6	52.9	551.9	676.3	12353.2	405.2	431.5	398.2	6.9	33.3	91.1	99.9	13.8	12.6	91.2
SMDH 00251	813050.4	8193262.5	167.6	10	11	98	1201.1	569.1	62.2	545.8	569.6	10403.9	375.6	410.6	366.5	9.1	44.1	90.4	91.6	16.9	18.2	84.2
SMDH 00251	813050.4	8193262.5	167.6	11	12	98	1247.6	517.1	59.1	688.2	650.2	11876.7	339.3	372.2	331.1	8.1	41.0	82.8	84.7	16.9	16.0	76.0
SMDH 00251	813050.4	8193262.5	167.6	12	13	98	1123.1	386.4	52.2	573.0	722.7	13200.1	251.7	283.6	243.5	8.3	40.1	68.7	63.3	13.8	18.0	55.7
SMDH 00251	813050.4	8193262.5	167.6	13	14	99	1239.3	548.0	57.4	697.4	591.8	10808.7	363.8	393.5	356.6	7.1	36.8	84.0	89.8	16.9	12.8	82.4
SMDH 00251	813050.4	8193262.5	167.6	14	15	75	1043.0	491.4	46.8	504.0	495.1	9043.2	328.9	353.1	322.9	6.0	30.2	75.5	78.9	12.3	11.9	80.0
SMDH 00250	813176.8	8193269.6	166.4	0	1	20	1122.4	536.1	56.2	767.1	409.4	7478.5	340.9	386.6	324.8	16.1	61.7	105.8	83.8	7.7	38.0	74.4
SMDH 00250	813176.8	8193269.6	166.4	1	2	35	1133.8	690.9	64.6	465.7	330.2	6031.6	444.2	489.2	433.8	10.4	55.4	118.8	111.0	15.3	29.7	94.1

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00250	813176.8	8193269.6	166.4	2	3	65	1246.8	557.6	68.0	651.6	594.7	10863.3	362.6	403.6	355.6	7.0	48.0	88.7	87.3	21.5	19.6	79.4
SMDH 00250	813176.8	8193269.6	166.4	3	4	55	910.6	409.9	48.9	338.7	495.4	9048.9	270.3	296.3	265.4	4.8	30.8	65.5	67.7	15.3	10.7	58.4
SMDH 00250	813176.8	8193269.6	166.4	4	5	70	752.5	309.2	42.9	360.7	410.8	7504.4	203.1	227.3	199.1	4.0	28.2	50.7	49.3	13.8	10.4	44.9
SMDH 00250	813176.8	8193269.6	166.4	5	6	95	1401.7	659.7	83.1	510.5	714.8	13056.6	429.8	479.8	419.8	10.0	60.0	112.0	107.3	24.5	25.4	92.8
SMDH 00250	813176.8	8193269.6	166.4	6	7	98	1383.5	633.3	72.4	472.2	759.9	13880.5	413.6	456.0	405.5	8.0	50.4	103.9	103.5	21.5	21.0	88.2
SMDH 00250	813176.8	8193269.6	166.4	7	8	99	1063.0	490.8	53.2	339.1	592.4	10820.2	327.7	356.1	321.4	6.3	34.7	80.8	85.2	15.3	13.1	83.5
SMDH 00250	813176.8	8193269.6	166.4	8	9	90	1208.3	536.1	66.3	446.5	668.0	12201.1	354.6	389.6	349.3	5.3	40.2	83.4	88.6	23.0	11.9	76.9
SMDH 00250	813176.8	8193269.6	166.4	9	10	95	1390.8	790.1	54.3	486.5	563.5	10292.0	529.1	553.4	521.3	7.7	32.1	113.5	127.8	12.3	12.1	122.7
SMDH 00250	813176.8	8193269.6	166.4	10	11	92	1199.6	584.4	54.2	506.9	575.1	10504.4	394.4	419.9	388.4	6.0	31.5	85.0	93.4	15.3	10.2	94.5
SMDH 00250	813176.8	8193269.6	166.4	11	12	90	1296.2	666.0	54.3	447.7	624.0	11397.2	447.9	472.7	440.7	7.3	32.0	95.7	107.3	13.8	10.9	105.8
SMDH 00249	813297.5	8193262.1	167.2	0	1	45	1572.9	834.2	96.7	693.2	605.4	11058.5	536.3	597.6	516.2	20.1	81.4	147.6	134.4	21.5	39.9	115.2
SMDH 00249	813297.5	8193262.1	167.2	1	2	60	1346.1	629.9	84.6	620.7	624.0	11397.2	399.6	456.1	382.8	16.8	73.3	119.8	102.0	19.9	36.6	82.6
SMDH 00249	813297.5	8193262.1	167.2	2	3	40	1245.2	626.3	86.6	482.4	544.9	9953.2	395.2	455.1	378.4	16.9	76.7	118.3	99.0	21.5	38.4	84.4
SMDH 00249	813297.5	8193262.1	167.2	3	4	35	1387.9	664.1	103.7	585.4	624.0	11397.2	415.4	491.2	389.6	25.8	101.6	142.3	107.2	21.5	54.4	84.3
SMDH 00249	813297.5	8193262.1	167.2	4	5	30	1487.6	763.6	106.0	578.3	624.0	11397.2	484.7	557.8	460.0	24.8	97.8	145.3	118.8	23.0	50.0	101.7
SMDH 00248	813414.6	8193265.7	167.2	0	1	25	1780.0	788.2	111.3	790.4	904.8	16527.4	512.5	581.8	491.6	20.9	90.2	141.8	125.8	29.1	40.1	105.9
SMDH 00248	813414.6	8193265.7	167.2	1	2	50	1855.4	870.0	137.5	710.4	894.9	16346.6	534.3	647.6	512.7	21.6	134.9	185.8	136.6	38.3	74.9	110.7
SMDH 00248	813414.6	8193265.7	167.2	2	3	25	1496.0	878.4	97.2	444.3	545.4	9961.8	558.2	636.0	532.6	25.5	103.4	168.3	134.3	16.9	61.0	119.6
SMDH 00248	813414.6	8193265.7	167.2	3	4	75	1725.8	848.4	127.3	660.2	777.1	14193.4	517.6	628.2	495.7	21.9	132.4	184.5	133.3	33.7	76.8	111.5
SMDH 00248	813414.6	8193265.7	167.2	4	5	75	1841.4	970.7	136.6	699.2	735.7	13438.4	598.7	724.9	571.4	27.3	153.5	226.3	162.2	32.2	94.0	136.2
SMDH 00248	813414.6	8193265.7	167.2	5	6	80	1446.6	717.2	122.7	561.0	616.0	11250.8	415.7	538.7	389.9	25.8	148.8	182.0	108.0	29.1	93.8	86.9
SMDH 00248	813414.6	8193265.7	167.2	6	7	65	1598.5	756.4	127.6	704.7	704.8	12872.9	431.8	565.3	402.0	29.8	163.3	188.7	101.9	27.6	105.9	96.6
SMDH 00248	813414.6	8193265.7	167.2	7	8	85	1798.1	819.2	163.8	666.6	868.1	15855.7	470.6	626.2	440.9	29.7	185.3	209.9	120.3	44.5	111.1	98.0
SMDH 00248	813414.6	8193265.7	167.2	8	9	95	1671.2	818.4	141.6	583.2	756.5	13817.4	483.4	615.5	455.6	27.8	159.9	201.1	127.4	35.3	96.9	99.6
SMDH 00248	813414.6	8193265.7	167.2	9	10	55	1869.4	902.7	131.3	752.0	857.7	15666.2	552.0	664.6	528.6	23.4	136.0	194.4	142.2	33.7	78.9	117.4
SMDH 00248	813414.6	8193265.7	167.2	10	11	98	2021.6	909.9	140.1	832.7	1016.9	18574.4	565.9	676.3	543.4	22.5	132.9	184.1	141.9	39.9	70.5	122.4
SMDH 00248	813414.6	8193265.7	167.2	11	12	95	1931.1	756.5	115.5	970.7	1079.0	19708.3	492.5	561.1	476.0	16.5	85.1	127.4	117.4	35.3	33.4	105.8
SMDH 00248	813414.6	8193265.7	167.2	12	12.5	80	1471.3	680.8	90.9	769.6	653.2	11931.2	445.0	500.1	429.4	15.6	70.7	115.9	105.4	24.5	30.6	96.8
SMDH 00247	813534.5	8193262.9	170.2	0	1	25	1735.5	832.6	97.4	796.9	793.4	14492.0	542.0	602.7	525.0	17.0	77.7	135.9	125.7	24.5	36.2	110.9
SMDH 00247	813534.5	8193262.9	170.2	1	2	55	1532.8	639.2	97.4	757.4	798.4	14583.9	418.5	476.5	399.7	18.7	76.8	102.8	89.8	24.5	33.5	92.7
SMDH 00247	813534.5	8193262.9	170.2	2	3	35	1426.3	584.2	93.9	773.1	721.7	13182.9	370.1	434.3	349.2	21.0	85.1	113.5	88.5	21.5	42.7	80.2
SMDH 00247	813534.5	8193262.9	170.2	3	4	45	1565.4	564.6	110.6	923.3	857.1	15654.7	354.6	429.4	334.3	20.3	95.1	113.0	85.0	30.7	44.2	77.5
SMDH 00247	813534.5	8193262.9	170.2	4	5	25	1495.9	634.7	97.9	742.3	757.9	13843.2	403.5	468.0	384.8	18.7	83.2	118.3	97.1	24.5	40.0	88.0
SMDH 00247	813534.5	8193262.9	170.2	5	6	96	1503.5	652.3	89.9	721.5	764.6	13966.6	413.7	476.2	393.9	19.8	82.3	122.3	99.2	19.9	42.5	91.2
SMDH 00247	813534.5	8193262.9	170.2	6	7	85	1373.7	595.1	81.3	712.1	676.6	12359.0	383.6	433.5	369.0	14.6	64.5	104.9	92.9	19.9	30.0	82.2
SMDH 00247	813534.5	8193262.9	170.2	7	8	95	1714.2	764.0	102.1	870.4	820.9	14994.4	488.4	558.9	468.2	20.2	90.7	137.2	114.2	24.5	46.0	111.7
SMDH 00247	813534.5	8193262.9	170.2	8	9	95	1640.4	746.0	110.0	638.5	836.8	15284.4	477.0	551.4	453.5	23.5	97.9	138.3	110.9	26.1	48.4	106.0
SMDH 00247	813534.5	8193262.9	170.2	9	10	96	1809.1	867.0	103.6	1073.0	712.8	13019.3	567.7	634.9	546.8	20.9	88.1	133.9	113.2	24.5	42.7	110.6
SMDH 00247	813534.5	8193262.9	170.2	10	11	98	1568.3	806.5	81.8	937.8	546.6	9984.8	514.1	572.8	499.2	14.9	73.6	144.5	127.6	16.9	41.8	116.6
SMDH 00247	813534.5	8193262.9	170.2	11	12	95	1296.5	676.8	71.6	647.8	490.9	8965.6	432.0	481.4	419.9	12.1	61.4	120.1	107.2	15.3	34.0	99.3
SMDH 00247	813534.5	8193262.9	170.2	12	13	98	1381.3	617.6	81.6	963.4	537.8	9824.0	383.6	446.2	368.6	15.0	77.6	123.5	98.0	18.4	44.2	85.1
SMDH 00247	813534.5	8193262.9	170.2	13	14	95	1675.7	753.8	100.3	1039.4	704.0	12858.5	469.1	548.5	450.2	18.9	98.3	152.1	118.2	23.0	56.4	106.0
SMDH 00247	813534.5	8193262.9	170.2	14	15	98	1049.1	510.9	65.8	504.0	448.3	8187.6	322.4	371.3	310.6	11.8	60.7	98.1	79.1	15.3	33.5	74.6
SMDH 00246	813650.4	8193267.4	169.2	0	1	98	951.6	518.5	59.1	508.3	304.1	5555.1	328.2	372.4	316.7	11.5	55.6	96.3	79.5	12.3	31.9	76.1
SMDH 00246	813650.4	8193267.4	169.2	1	2	20	1244.1	577.1	75.0	686.3	536.4	9798.2	366.5	419.9	354.0	12.5	65.8	110.1	92.6	18.4	34.9	85.8
SMDH 00246	813650.4	8193267.4	169.2	2	3	30	1408.1	670.6	88.4	892.1	523.2	9557.0	442.4	495.6	425.6	16.8	70.0	101.0	87.8	23.0	30.2	96.9
SMDH 00246	813650.4	8193267.4	169.2	3	4	40	1835.1	1002.1	112.6	777.8	679.3	12407.8	646.4	724.9	626.0	20.4	98.9	166.2	144.7	26.1	52.4	137.7
SMDH 00246	813650.4	8193267.4	169.2	4	5	55	1589.7	760.3	105.0	699.9	721.4	13177.2	481.7	560.1	460.2	21.4	99.8	145.5	113.9	24.5	53.8	99.5
SMDH 00246	813650.4	8193267.4	169.2	5	6	90	1467.5	710.1	112.5	678.0	616.7	11265.2	448.6	530.2	426.5	22.1	103.7	133.6	100.3	27.6	54.0	94.4
SMDH 00246	813650.4	8193267.4	169.2	6	7	50	1453.9	681.3	105.2	649.8	662.3	12097.7	433.2	507.3	412.7	20.5	94.6	127.0	99.8	26.1	48.0	89.3
SMDH 00245	813771.5	8193268.9	166.1	0	1	15	2264.8	1431.4	128.4	875.4	611.7	11173.3	922.8	1014.1	896.0	26.8	118.1	236.7	215.8	24.5	66.8	196.8
SMDH 00245	813771.5	8193268.9	166.1	1	2	25	2090.2	1204.6	123.3	846.8	707.9	12930.3	772.2	863.1	747.6	24.5	115.5	204.9	178.9	27.6	63.4	167.6
SMDH 00245	813771.5	8193268.9	166.1	2	3	50	1298.0	664.5	84.0	497.9	562.7	10277.6	421.9	483.3	407.8	14.1	75.6	116.1	98.1	23.0	38.5	90.7
SMDH 00245	813771.5	8193268.9	166.1	3	4	40	1235.3	626.9	82.5	522.2	517.1	9445.1	401.4	457.0	388.4	13.0	68.6	105.8	92.4	23.0	32.6	83.0
SMDH 00245	813771.5	8193268.9	166.1	4	5	40	1358.5	723.4	83.2	505.3	562.7	10277.6	460.4	520.0	445.3	15.1	74.7	124.0	106.2	19.9	39.6	96.8
SMDH 00245	813771.5	8193268.9	166.1	5	6	95	1328.0	598.2	77.0	653.0	639.7	11684.3	386.6	431.8	373.6	13.0	58.2	100.0	94.3	19.9	25.3	88.1
SMDH 00245	813771.5	8193268.9	166.1	6	7	90	1774.7	796.2	90.6	765.1	927.5	16940.8	522.4	570.8	512.8	9.6	57.9	116.7	122.9	27.6	20.7	127.8
SMDH 00245	813771.5	8193268.9	166.1	7	8	75	1421.2	713.7	68.7	540.5	671.9	12272.9	472.7	508.1	464.3	8.4	43.8	108.6	114.4	18.4	17.0	114.8
SMDH 00245	813771.5	8193268.9	166.1	8	9	75	1273.4	599.0	71.2	489.9	643.8	11759.0	392.3	430.1	382.9	9.4	47.3	93.0	94.7	19.9	17.9	94.1
SMDH 00245	813771.5	8193268.9	166.1	9	10	95	1364.1	651.8	71.2	668.5	615.6	11245.1	429.4	466.1	419.3	10.1	46.8	103.6	106.5	18.4	18.3	103.6
SMDH 00245	813771.5	8193268.9	166.1	10	11	70	1469.4	701.7	81.7	531.4	744.4	13596.3	460.3	505.4	448.8	11.5	56.6	109.6	110.4	23.0	22.1	112.6
SMDH 00245	813771.5	8193268.9	166.1	11	12	98	1503.0	713.8	74.1	790.1	665.9	12163.8	472.8	516.6	460.3	12.5	56.3	104.2	98.9	18.4	25.4	104.3
SMDH 00245	813771.5	8193268.9	166.1	12	13	60	1974.1	963.0	106.5	938.3	871.1	15910.2	624.3	690.5	604.0	20.3	86.5	160.7	148.9	24.5	41.7	144.4
SMDH 00244	813899.3	8193264.5	166.3	0	1	55	1427.8	672.3	89.6	598.4	684.0	12493.9	429.1	487.4	410.6	18.6	76.9	122.2	104.6	19.9	38.4	99.7
SMDH 00244	813899.3	8193264.5	166.3	1	2	25	1742.8	984.9	123.5	668.4	605.9	11067.1	623.4	713.2	597.2	26.1	116.0	182.8	152.1	27.6	62.2	128.7
SMDH 00244	813899.3	8193264.5	166.3	2	3	95	1824.6	827.8	124.7	990.4	799.7	14606.8	536.1	620.8	505.8	30.2	115.0	146.2	111.2	27.6	57.1	115.4
SMDH 00244	813899.3	8193264.5	166.3	3	4	30	3725.0	821.5	108.3	869.8	3634.6	66388.2	531.3	608.3	507.9	23.4	100.4	143.1	112.3	24.5	52.4	117.9
SMDH 00244	813899.3	8193264.5	166.3	4	5	90	1838.4	876.3	107.2	827.1	850.8	15539.9	572.0	645.0	547.0	24.9	98.0	146.0	120.9	23.0	50.0	121.7
SMDH 00244	813899.3	8193264.5	166.3	5	6	98	1776.6	808.5	112.1	763.1	882.2	16114.0	534.1	602.1	513.9	20.2	88.2	126.0	109.3	29.1	38.9	116.8
SMDH 00244	813899.3	8193264.5	166.3	6	7	75	1810.5	909.3	106.3	731.4	808.7	14770.5	602.8	664.3	585.3	17.4	79.0	163.1	162.6	27.6	33.9	115.4
SMDH 00244	813899.3	8193264.5	166.3	7	8	70	1553.7	749.9	94.1	634.2	730.7	13346.5	492.4	550.7	475.8	16.6	75.0	129.7	119.9	24.5	33.8	109.9

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00244	813899.3	8193264.5	166.3	8	9	85	1657.0	771.0	117.6	669.1	799.4	14601.1	490.7	575.0	463.5	27.2	111.5	159.1	124.4	26.1	58.3	101.0
SMDH 00244	813899.3	8193264.5	166.3	9	10	98	1546.4	723.6	119.8	665.3	706.6	12907.3	460.0	543.7	436.0	24.1	107.7	144.6	113.7	30.7	53.0	95.1
SMDH 00244	813899.3	8193264.5	166.3	10	11	90	1399.5	641.9	95.9	800.2	584.2	10670.9	407.6	478.8	385.3	22.3	93.5	132.8	103.5	21.5	49.7	82.8
SMDH 00244	813899.3	8193264.5	166.3	11	12	98	1263.6	589.3	92.9	618.5	552.6	10093.9	376.9	439.8	358.9	18.0	80.9	113.9	94.1	24.5	38.4	77.9
SMDH 00244	813899.3	8193264.5	166.3	12	13	98	1930.1	905.0	113.3	727.9	979.2	17885.3	593.0	662.1	571.9	21.1	90.2	155.6	146.1	29.1	40.0	128.3
SMDH 00244	813899.3	8193264.5	166.3	13	14	75	1930.1	876.9	110.1	809.0	986.7	18023.1	573.8	640.6	555.4	18.4	85.1	150.0	143.6	30.7	36.1	123.6
SMDH 00243	814016.2	8193261.9	163.5	0	1	40	2086.6	1205.7	103.3	1375.5	484.1	8842.2	788.4	854.1	766.4	22.0	87.7	198.2	196.0	21.5	44.2	165.6
SMDH 00243	814016.2	8193261.9	163.5	1	2	50	1555.0	956.3	102.6	638.6	420.0	7670.9	616.8	687.6	600.5	16.3	87.1	163.2	152.6	27.6	43.2	134.9
SMDH 00243	814016.2	8193261.9	163.5	2	3	60	2105.0	1305.8	127.2	743.2	625.5	11426.0	846.0	930.4	824.8	21.2	105.6	215.1	208.7	32.2	52.2	180.5
SMDH 00243	814016.2	8193261.9	163.5	3	4	30	1911.3	1099.0	124.3	650.6	691.7	12634.6	712.6	796.8	692.9	19.7	104.0	188.9	177.0	33.7	50.5	154.1
SMDH 00243	814016.2	8193261.9	163.5	4	5	15	2042.5	1292.9	139.6	721.8	545.9	9970.4	831.1	929.4	803.2	28.0	126.2	232.1	210.5	33.7	64.5	172.6
SMDH 00243	814016.2	8193261.9	163.5	5	6	95	2014.6	1057.0	122.9	878.0	798.0	14575.3	682.1	765.4	663.6	18.6	101.8	179.1	166.5	33.7	49.5	143.8
SMDH 00243	814016.2	8193261.9	163.5	6	7	50	2007.4	1133.6	140.7	715.4	726.6	13271.9	738.9	827.2	719.1	19.9	108.1	189.1	183.4	41.4	46.9	157.4
SMDH 00243	814016.2	8193261.9	163.5	7	8	95	2222.6	1227.6	145.1	865.4	825.8	15083.4	789.7	887.5	766.5	23.1	120.9	210.9	195.4	39.9	57.9	167.4
SMDH 00243	814016.2	8193261.9	163.5	8	9	30	1947.3	1040.0	138.8	844.7	717.8	13111.1	665.8	761.4	644.6	21.2	116.8	181.5	161.4	39.9	55.7	140.9
SMDH 00242	814130.9	8193264.0	161.6	0	1	20	1768.1	942.9	105.8	1292.0	439.0	8018.3	608.0	683.1	587.8	20.2	95.2	167.6	149.6	24.5	50.5	125.8
SMDH 00242	814130.9	8193264.0	161.6	1	2	50	3258.2	2283.6	157.8	1250.0	599.3	10946.5	1477.6	1573.7	1442.4	35.2	131.3	361.3	368.1	24.5	71.5	328.4
SMDH 00242	814130.9	8193264.0	161.6	2	3	45	1581.3	831.0	92.7	620.3	661.7	12086.2	530.6	594.5	513.0	17.5	81.4	144.7	128.3	21.5	42.4	114.9
SMDH 00242	814130.9	8193264.0	161.6	3	4	95	1293.1	646.1	85.1	531.2	565.0	10320.7	411.8	469.6	395.3	16.5	74.3	119.4	101.3	19.9	37.8	91.0
SMDH 00242	814130.9	8193264.0	161.6	4	5	55	1107.4	523.9	76.3	569.3	468.2	8552.2	335.4	384.7	321.9	13.5	62.8	96.4	83.7	19.9	29.3	71.0
SMDH 00242	814130.9	8193264.0	161.6	5	6	35	1919.1	902.5	116.4	949.6	859.3	15694.9	565.7	656.6	537.2	28.5	119.5	177.6	136.5	23.0	67.9	124.9
SMDH 00241	814258.8	8193264.7	161.1	0	1	25	2163.4	1339.5	91.0	1107.6	544.1	9938.9	868.2	932.6	845.0	23.1	87.6	217.2	210.6	12.3	52.2	183.1
SMDH 00241	814258.8	8193264.7	161.1	1	2	35	2074.3	1224.7	104.5	1188.3	524.2	9574.3	794.2	861.3	772.2	22.0	89.0	206.1	200.5	19.9	47.1	178.7
SMDH 00241	814258.8	8193264.7	161.1	2	3	45	1681.9	920.7	87.9	609.8	689.5	12594.4	598.4	647.0	584.5	13.8	62.5	139.9	141.9	21.5	27.2	137.5
SMDH 00241	814258.8	8193264.7	161.1	3	4	45	891.1	446.7	50.5	295.5	431.8	7886.2	291.6	318.1	285.9	5.7	32.2	62.4	64.9	15.3	11.2	67.9
SMDH 00241	814258.8	8193264.7	161.1	4	5	80	1209.2	540.7	70.4	574.3	597.3	10909.2	352.3	389.9	343.7	8.6	46.2	81.3	81.4	21.5	16.1	76.7
SMDH 00241	814258.8	8193264.7	161.1	5	6	80	1480.5	708.3	98.7	661.2	665.8	12160.9	453.9	516.2	442.5	11.4	73.7	122.8	114.5	30.7	31.6	97.8
SMDH 00241	814258.8	8193264.7	161.1	6	7	90	1243.2	596.1	87.3	573.2	542.4	9907.3	382.9	439.1	370.6	12.3	68.5	108.1	96.6	26.1	30.1	81.4
SMDH 00241	814258.8	8193264.7	161.1	7	8	45	1649.0	787.2	133.6	785.1	687.3	12554.2	495.3	587.9	475.1	20.2	112.8	153.0	124.7	39.9	52.7	103.6
SMDH 00241	814258.8	8193264.7	161.1	8	9	95	991.2	473.9	55.3	555.6	409.3	7475.7	306.9	340.6	299.2	7.7	41.3	82.2	78.8	15.3	18.3	65.3
SMDH 00241	814258.8	8193264.7	161.1	9	10	95	1414.3	681.5	82.4	690.8	618.8	11302.5	441.5	491.1	431.2	10.3	59.9	114.2	109.9	24.5	25.0	99.6
SMDH 00241	814258.8	8193264.7	161.1	10	10.5	60	997.8	447.4	58.7	555.5	452.3	8262.3	287.6	326.1	279.6	8.0	46.5	81.5	74.0	16.9	21.6	60.3
SMDH 00240	814375.0	8193263.4	160.7	0	1	15	1288.7	623.5	80.1	891.9	430.8	7869.0	399.8	453.1	388.4	11.4	64.6	107.7	98.1	23.0	30.2	84.1
SMDH 00240	814375.0	8193263.4	160.7	1	2	40	1097.5	509.6	64.9	492.4	526.8	9623.1	329.5	368.5	321.4	8.1	47.1	86.8	85.3	19.9	19.0	69.1
SMDH 00240	814375.0	8193263.4	160.7	2	3	50	1352.1	692.0	99.9	583.2	538.5	9835.5	438.8	505.6	424.6	14.1	81.0	127.8	112.8	29.1	37.7	88.8
SMDH 00240	814375.0	8193263.4	160.7	3	4	60	1143.0	532.0	81.2	547.3	511.1	9336.0	338.7	389.3	325.8	12.8	63.5	97.6	86.9	23.0	27.7	71.0
SMDH 00240	814375.0	8193263.4	160.7	4	5	40	1459.0	728.5	99.8	602.9	631.0	11526.4	466.7	530.5	446.1	20.6	84.4	129.3	112.1	23.0	40.8	89.1
SMDH 00240	814375.0	8193263.4	160.7	5	6	45	1465.9	784.0	106.3	478.4	609.4	11130.3	503.6	570.3	481.2	22.5	89.2	147.1	131.3	24.5	42.2	103.0
SMDH 00240	814375.0	8193263.4	160.7	6	7	48	1581.3	764.9	104.5	670.0	717.3	13102.5	492.7	555.1	472.8	19.9	82.3	139.4	128.9	26.1	36.3	100.9
SMDH 00240	814375.0	8193263.4	160.7	7	8	70	1991.2	1066.1	149.6	735.5	778.6	14222.2	674.3	779.3	647.6	26.6	131.6	193.4	160.9	39.9	65.1	144.6
SMDH 00239	814493.8	8193257.1	160.0	0	1	40	3159.6	1075.8	135.1	4420.2	761.0	13900.6	682.4	782.8	656.0	26.5	126.9	198.1	162.4	32.2	68.2	148.2
SMDH 00239	814493.8	8193257.1	160.0	1	2	40	2522.7	500.8	102.3	4881.2	504.8	9221.1	313.5	381.9	299.1	14.4	82.8	97.7	76.4	32.2	36.2	66.5
SMDH 00239	814493.8	8193257.1	160.0	2	3	40	3379.4	736.4	137.8	6348.6	668.8	12215.4	455.3	553.6	435.8	19.5	117.8	137.6	102.5	42.9	55.4	95.5
SMDH 00239	814493.8	8193257.1	160.0	3	4	30	2997.6	550.2	113.6	6300.7	443.4	8098.6	341.7	420.8	326.6	15.1	94.2	106.3	79.8	36.8	42.3	72.1
SMDH 00239	814493.8	8193257.1	160.0	4	5	45	4627.0	685.1	161.2	10825.9	430.5	7863.2	437.2	542.3	420.2	17.0	122.0	133.5	106.3	56.8	48.3	96.2
SMDH 00239	814493.8	8193257.1	160.0	5	6	70	1087.3	564.3	85.3	472.9	412.6	7536.0	346.4	415.8	328.7	17.7	87.1	121.1	89.2	19.9	49.5	70.5
SMDH 00239	814493.8	8193257.1	160.0	6	7	85	1247.6	717.8	91.1	509.1	397.2	7254.6	462.3	534.6	445.8	16.5	88.8	134.4	106.7	23.0	49.3	101.1
SMDH 00239	814493.8	8193257.1	160.0	7	8	80	1410.7	676.0	85.5	670.2	626.5	11443.2	442.9	498.9	428.9	14.0	70.1	121.8	109.4	23.0	33.0	92.8
SMDH 00239	814493.8	8193257.1	160.0	8	9	85	1446.2	625.9	99.0	770.5	684.2	12496.8	394.3	466.9	381.2	13.1	85.7	131.4	110.0	29.1	43.4	76.9
SMDH 00239	814493.8	8193257.1	160.0	9	10	55	1545.5	689.9	100.8	755.4	739.5	13507.3	427.0	504.8	411.7	15.3	93.0	142.1	115.8	27.6	50.2	83.4
SMDH 00239	814493.8	8193257.1	160.0	10	11	75	1378.9	670.3	102.9	502.4	641.7	11721.7	417.9	495.5	403.4	14.5	92.1	140.2	114.5	29.1	48.5	85.0
SMDH 00239	814493.8	8193257.1	160.0	11	12	70	1595.6	732.8	118.1	764.0	721.0	13168.6	448.0	538.0	430.4	17.6	107.6	156.0	125.6	33.7	56.3	85.1
SMDH 00239	814493.8	8193257.1	160.0	12	13	80	1567.4	761.6	107.7	686.6	689.7	12597.3	468.2	556.3	449.1	19.0	107.2	167.4	130.9	26.1	62.1	88.9
SMDH 00239	814493.8	8193257.1	160.0	13	13.5	40	1448.5	659.8	102.8	731.8	650.9	11888.2	406.9	485.6	392.1	14.8	93.5	136.1	109.3	29.1	49.5	80.3
SMDH 00256	814545.5	8193139.7	159.7	0	1	5	2155.5	911.4	153.4	1085.9	1071.3	19567.7	554.8	685.1	530.3	24.4	154.8	206.9	146.4	41.4	88.9	110.9
SMDH 00256	814545.5	8193139.7	159.7	1	2	25	1572.9	891.3	85.7	687.6	541.5	9890.1	551.6	630.3	532.8	18.8	97.5	184.5	153.9	16.9	61.8	110.1
SMDH 00256	814545.5	8193139.7	159.7	2	3	35	684.9	238.8	39.1	313.1	442.6	8084.3	148.1	177.6	143.0	5.1	34.5	49.2	34.5	10.7	18.7	32.4
SMDH 00256	814545.5	8193139.7	159.7	3	4	20	1499.1	789.9	92.2	905.2	470.7	8598.2	505.2	561.7	489.5	15.7	72.2	137.2	129.3	23.0	33.5	102.4
SMDH 00256	814545.5	8193139.7	159.7	4	5	30	844.3	388.0	59.9	393.5	389.8	7119.7	233.4	286.4	222.4	10.9	63.9	92.9	59.4	12.3	40.8	46.7
SMDH 00256	814545.5	8193139.7	159.7	5	6	80	1137.3	395.8	61.7	387.4	802.2	14652.8	236.5	293.7	226.2	10.3	67.6	94.7	58.9	13.8	43.4	41.5
SMDH 00256	814545.5	8193139.7	159.7	6	7	40	854.8	357.5	58.7	303.0	492.9	9003.0	210.6	266.5	199.5	11.1	67.0	94.7	58.9	12.3	43.6	40.1
SMDH 00256	814545.5	8193139.7	159.7	7	8	35	1384.2	591.3	87.6	499.3	787.1	14377.2	345.1	436.0	327.0	18.1	109.0	153.8	95.3	18.4	72.5	72.2
SMDH 00256	814545.5	8193139.7	159.7	8	9	90	1283.8	548.7	78.9	525.0	704.1	12861.4	334.4	404.7	321.6	12.7	83.1	126.0	87.5	18.4	51.9	68.7
SMDH 00256	814545.5	8193139.7	159.7	9	10	90	1500.2	604.1	78.1	689.1	861.6	15738.0	378.2	441.8	366.2	12.1	75.7	130.9	100.7	18.4	45.2	82.4
SMDH 00256	814545.5	8193139.7	159.7	10	11	40	1070.5	355.5	45.7	457.5	754.4	13780.0	221.5	259.3	214.4	7.1	44.8	79.7	60.6	10.7	27.0	48.1
SMDH 00256	814545.5	8193139.7	159.7	11	12	98	1058.5	437.6	43.2	443.2	628.7	11483.4	285.1	312.1	279.1	6.0	33.0	82.8	76.6	9.2	17.8	59.2
SMDH 00256	814545.5	8193139.7	159.7	12	12.5	70	1165.3	469.3	58.0	576.7	653.8	11942.7	294.3	337.0	286.5	7.8	50.5	78.0	60.0	15.3	27.3	54.9
SMDH 00257	814439.7	8193135.6	160.1	0	1	15	1707.4	976.1	78.7	1057.9	451.2	8242.2	631.4	687.2	613.2	18.1	74.0	167.5	158.2	13.8	42.0	134.8
SMDH 00257	814439.7	8193135.6	160.1	1	2	20	2136.0	1403.1	117.6	798.5	517.9	9459.4	910.1	991.0	883.3	26.8	107.7	239.6	228.8	21.5	59.4	193.9
SMDH 00257	814439.7	8193135.6	160.1	2	3	25	1358.9	604.7	70.9	495.7	756.9	13826.0	382.1	441.2	374.1	8.0	67.0	91.0	59.6	23.0	36.1	68.5
SMDH 00257	814439.7	8193135.6	160.1	3	4	20	312.8	104.7	26.6	255.2	143.7	2624.0	69.0	82.4	66.7	2.3	15.7	19.0	16.5	9.2	4.2	16.5

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00257	814439.7	8193135.6	160.1	4	5	25	933.0	430.7	60.2	471.0	420.0	7670.9	265.1	313.7	258.5	6.7	55.2	72.3	61.3	19.9	28.6	46.2
SMDH 00257	814439.7	8193135.6	160.1	5	6	38	724.0	282.1	26.1	281.2	470.3	8589.6	178.4	196.0	175.5	2.9	20.4	45.8	42.2	7.7	9.9	38.4
SMDH 00257	814439.7	8193135.6	160.1	6	7	50	1597.3	688.8	61.5	636.3	927.9	16949.5	422.7	473.6	414.0	8.7	59.6	120.8	101.7	15.3	35.6	89.6
SMDH 00257	814439.7	8193135.6	160.1	7	8	35	1065.6	438.6	47.8	697.4	512.7	9364.7	267.9	315.0	259.3	8.6	55.7	91.4	62.3	10.7	36.3	61.5
SMDH 00257	814439.7	8193135.6	160.1	8	9	85	1609.6	747.6	78.0	689.4	812.3	14836.5	441.3	521.5	426.7	14.6	94.8	156.0	109.4	16.9	63.4	91.0
SMDH 00257	814439.7	8193135.6	160.1	9	10	80	2009.8	830.8	101.4	866.5	1154.3	21083.5	491.9	582.9	476.6	15.3	106.3	165.6	119.5	26.1	64.9	103.0
SMDH 00257	814439.7	8193135.6	160.1	10	11	90	1501.6	601.1	64.3	711.1	877.7	16030.8	367.3	419.3	359.6	7.7	59.6	108.9	88.9	18.4	33.5	78.7
SMDH 00257	814439.7	8193135.6	160.1	11	11.5	60	1678.0	807.1	97.0	771.4	759.6	13874.8	513.9	581.4	501.5	12.4	79.9	146.8	133.3	27.6	39.9	109.8
SMDH 00258	814316.9	8193146.8	161.3	0	1	20	2841.3	1640.4	117.7	2261.4	514.0	9387.7	1043.6	1140.5	1018.0	25.6	122.5	293.6	270.9	18.4	78.5	222.9
SMDH 00258	814316.9	8193146.8	161.3	1	2	25	1070.4	537.3	75.1	444.8	455.0	8311.1	335.8	392.9	325.6	10.2	67.3	105.7	87.2	21.5	35.6	74.6
SMDH 00258	814316.9	8193146.8	161.3	2	3	30	1303.7	602.0	89.5	473.4	664.4	12135.1	374.1	442.6	362.3	11.8	80.3	122.1	98.6	26.1	42.5	80.2
SMDH 00258	814316.9	8193146.8	161.3	3	4	40	1392.0	651.8	126.3	516.1	647.2	11822.1	387.8	494.8	361.6	26.3	133.3	160.2	103.1	32.2	74.8	76.1
SMDH 00258	814316.9	8193146.8	161.3	4	5	40	1041.1	469.4	74.0	481.8	495.3	9046.0	299.5	347.2	287.4	12.1	59.8	90.8	78.1	21.5	26.2	60.8
SMDH 00258	814316.9	8193146.8	161.3	5	6	30	1274.8	561.5	94.1	535.3	645.8	11796.3	368.8	427.3	353.2	15.6	74.1	106.9	93.3	27.6	30.9	73.1
SMDH 00258	814316.9	8193146.8	161.3	6	7	25	1479.0	675.7	121.6	597.4	707.3	12918.8	435.1	508.2	416.4	18.7	91.8	123.5	108.5	38.3	34.8	91.1
SMDH 00258	814316.9	8193146.8	161.3	7	8	30	1382.6	646.0	88.2	621.9	647.9	11833.6	421.3	473.1	406.4	14.9	66.7	111.3	102.7	24.5	27.3	91.2
SMDH 00258	814316.9	8193146.8	161.3	8	9	80	1368.3	443.2	65.0	913.5	818.2	14945.6	290.3	325.1	284.3	6.0	40.8	72.1	73.2	23.0	11.8	63.7
SMDH 00258	814316.9	8193146.8	161.3	9	10	50	1236.4	244.4	67.5	1028.2	857.8	15669.1	161.5	196.3	156.7	4.8	39.6	41.2	38.7	26.1	8.8	35.4
SMDH 00258	814316.9	8193146.8	161.3	10	11	95	1211.8	565.2	64.6	581.8	570.5	10421.2	366.7	406.8	355.8	10.9	51.0	100.9	94.8	16.9	23.2	77.9
SMDH 00258	814316.9	8193146.8	161.3	11	11.5	50	1480.5	751.3	100.1	758.0	556.5	10165.7	462.5	546.8	443.9	18.6	102.9	158.4	120.2	24.5	59.8	94.6
SMDH 00259	814202.0	8193149.3	162.4	0	1	5	2214.7	1150.7	100.4	2164.7	386.2	7053.7	695.1	784.0	675.2	19.9	108.8	189.1	146.8	16.9	72.0	211.1
SMDH 00259	814202.0	8193149.3	162.4	1	2	20	1625.9	610.1	113.6	1053.4	814.0	14868.1	368.2	448.3	356.7	11.5	91.6	106.0	76.9	36.8	43.3	110.6
SMDH 00259	814202.0	8193149.3	162.4	2	3	35	935.2	315.6	62.9	358.7	637.6	11647.0	190.9	234.6	185.0	5.9	49.6	57.2	40.3	19.9	23.7	58.6
SMDH 00259	814202.0	8193149.3	162.4	3	4	25	950.2	381.8	58.7	421.3	540.7	9875.7	235.3	275.4	228.7	6.6	46.7	63.9	49.3	16.9	23.2	75.8
SMDH 00259	814202.0	8193149.3	162.4	4	5	45	1227.2	507.9	86.0	562.5	653.5	11937.0	302.2	369.7	291.2	11.0	78.5	92.7	61.6	24.5	42.9	93.2
SMDH 00259	814202.0	8193149.3	162.4	5	6	55	1154.2	455.2	74.7	556.1	643.6	11756.1	276.1	330.1	267.2	9.0	62.9	80.9	58.8	21.5	32.5	85.3
SMDH 00259	814202.0	8193149.3	162.4	6	7	30	1529.7	775.2	97.0	663.6	641.6	11718.8	470.4	556.3	462.8	7.6	93.5	154.1	115.6	30.7	55.2	129.2
SMDH 00259	814202.0	8193149.3	162.4	7	8	50	2044.9	1125.3	134.4	902.9	714.8	13056.6	714.0	819.1	696.5	17.5	122.6	207.9	176.0	39.9	65.3	167.0
SMDH 00259	814202.0	8193149.3	162.4	8	8.5	10	935.5	373.1	44.3	315.3	602.0	10995.3	244.9	271.1	241.2	3.7	29.9	57.2	58.3	15.3	10.9	55.0
SMDH 00260	814080.8	8193141.5	163.2	0	1	15	1192.9	778.1	74.7	357.5	325.3	5942.6	500.5	551.4	488.0	12.5	63.4	135.4	126.8	18.4	32.5	108.5
SMDH 00260	814080.8	8193141.5	163.2	1	2	98	1436.2	692.1	106.4	588.9	647.7	11830.7	434.6	512.0	421.1	13.6	91.0	133.2	108.8	32.2	45.2	93.6
SMDH 00260	814080.8	8193141.5	163.2	2	3	90	1174.0	544.5	84.4	416.4	594.1	10851.8	340.9	404.4	330.5	10.5	74.0	106.2	85.1	26.1	37.5	75.5
SMDH 00260	814080.8	8193141.5	163.2	3	4	30	1273.4	645.5	86.9	455.0	570.2	10415.4	407.3	472.7	396.6	10.7	76.1	119.9	100.4	26.1	39.4	91.5
SMDH 00260	814080.8	8193141.5	163.2	4	5	75	982.8	478.7	65.7	448.4	425.2	7765.6	305.4	352.4	297.0	8.4	55.4	86.7	74.1	19.9	27.0	69.4
SMDH 00260	814080.8	8193141.5	163.2	5	6	90	1426.8	651.0	70.8	704.3	691.4	12628.8	425.0	468.9	418.7	6.3	50.2	106.2	106.5	23.0	20.8	96.9
SMDH 00260	814080.8	8193141.5	163.2	6	7	85	1003.3	457.3	41.5	462.5	514.0	9387.7	298.5	322.3	294.6	3.9	27.7	64.0	66.8	12.3	11.6	69.7
SMDH 00260	814080.8	8193141.5	163.2	7	7.5	60	901.5	362.5	53.3	590.9	427.2	7802.9	238.6	269.0	234.5	4.1	34.5	58.9	57.8	18.4	11.9	54.7
SMDH 00261	813961.0	8193147.3	164.9	0	1	8	1463.4	884.6	75.6	889.2	313.9	5733.1	566.9	625.4	553.3	13.6	72.1	153.2	140.3	16.9	41.7	114.8
SMDH 00261	813961.0	8193147.3	164.9	1	2	45	1112.1	634.8	48.1	472.5	400.5	7314.9	431.9	465.1	424.0	7.9	41.1	126.7	118.6	12.3	21.0	59.5
SMDH 00261	813961.0	8193147.3	164.9	2	3	40	1267.1	776.1	64.0	382.2	439.3	8024.0	526.3	569.7	517.2	9.1	52.5	148.7	139.1	18.4	25.0	68.3
SMDH 00261	813961.0	8193147.3	164.9	3	4	30	1320.1	832.7	49.9	379.7	455.6	8322.6	569.6	601.4	562.1	7.5	39.3	152.7	150.7	12.3	19.6	74.0
SMDH 00261	813961.0	8193147.3	164.9	4	5	50	1494.8	933.6	58.1	416.5	533.3	9740.8	642.1	676.4	634.8	7.2	41.6	170.3	169.5	15.3	19.0	85.0
SMDH 00261	813961.0	8193147.3	164.9	5	6	98	1360.8	770.4	58.8	413.1	576.2	10524.5	524.3	562.6	516.7	7.6	45.9	144.8	139.2	16.9	21.5	68.8
SMDH 00261	813961.0	8193147.3	164.9	6	7	85	1209.0	718.3	53.4	444.5	425.2	7765.6	485.4	522.1	477.4	8.0	44.7	72.1	68.0	15.3	21.3	75.2
SMDH 00261	813961.0	8193147.3	164.9	7	8	80	1435.4	967.0	48.4	452.5	396.4	7240.3	660.1	691.1	652.4	7.7	38.6	175.5	175.5	10.7	20.2	85.3
SMDH 00262	813839.8	8193144.7	168.0	0	1	30	1410.7	851.5	60.5	534.8	472.0	8621.1	570.3	619.4	557.6	12.7	61.8	166.7	146.5	12.3	36.8	74.2
SMDH 00262	813839.8	8193144.7	168.0	1	2	25	995.5	603.9	57.1	305.7	341.2	6232.6	395.7	445.8	383.5	12.1	62.3	133.1	106.5	12.3	37.8	50.2
SMDH 00262	813839.8	8193144.7	168.0	2	3	85	1736.3	873.0	146.3	670.6	724.3	13228.8	515.0	655.7	487.4	27.6	168.3	210.9	131.2	36.8	103.9	107.5
SMDH 00262	813839.8	8193144.7	168.0	3	4	70	1415.7	744.7	114.6	514.0	565.2	10323.5	445.4	553.3	424.5	20.9	128.8	171.8	113.9	29.1	78.7	93.8
SMDH 00262	813839.8	8193144.7	168.0	4	5	70	1584.2	799.3	135.1	591.2	664.1	12129.3	474.6	602.3	448.8	25.8	153.5	191.5	119.9	33.7	94.0	101.1
SMDH 00262	813839.8	8193144.7	168.0	5	6	85	1334.3	695.8	98.4	528.0	535.0	9772.3	418.5	513.2	399.0	19.5	114.3	159.7	108.1	23.0	71.7	90.3
SMDH 00262	813839.8	8193144.7	168.0	6	7	25	1478.9	705.6	96.2	856.1	580.4	10602.0	435.5	517.9	417.0	18.5	100.9	150.0	113.1	23.0	59.4	91.0
SMDH 00262	813839.8	8193144.7	168.0	7	8	40	1381.5	682.2	99.0	672.5	554.8	10134.1	442.7	504.3	426.9	15.8	77.5	124.9	113.1	27.6	34.0	94.5
SMDH 00262	813839.8	8193144.7	168.0	8	9	90	1172.8	585.3	76.4	485.8	512.7	9364.7	382.5	428.3	369.7	12.8	58.6	106.3	99.3	19.9	25.8	81.6
SMDH 00262	813839.8	8193144.7	168.0	9	10	80	1390.2	698.5	89.2	624.3	580.4	10602.0	453.4	510.0	435.8	17.6	74.2	126.6	113.9	21.5	35.2	97.8
SMDH 00262	813839.8	8193144.7	168.0	10	11	25	1099.4	566.2	75.8	425.0	463.3	8463.2	369.1	416.5	354.4	14.7	62.0	105.0	94.4	18.4	29.0	80.7
SMDH 00262	813839.8	8193144.7	168.0	11	12	40	1314.7	648.6	82.6	580.9	573.2	10470.0	423.0	474.1	407.1	15.8	67.0	120.0	110.4	19.9	31.2	88.4
SMDH 00263	813715.6	8193139.3	168.6	0	1	30	1636.4	845.1	90.1	1005.9	545.7	9967.6	552.3	608.7	534.7	17.7	74.1	148.6	140.3	19.9	36.4	118.8
SMDH 00263	813715.6	8193139.3	168.6	1	2	20	1208.7	574.5	77.9	504.3	569.4	10401.1	372.0	421.5	357.3	14.7	64.2	104.4	93.2	19.9	29.6	80.0
SMDH 00263	813715.6	8193139.3	168.6	2	3	35	1572.4	753.5	84.5	991.1	600.6	10969.5	488.3	540.1	476.7	11.6	63.4	129.4	127.7	23.0	28.8	100.4
SMDH 00263	813715.6	8193139.3	168.6	3	4	80	1625.7	734.2	94.0	859.7	752.7	13748.5	467.1	534.1	455.5	11.6	78.6	134.6	118.4	27.6	39.4	100.5
SMDH 00263	813715.6	8193139.3	168.6	4	5	30	1465.7	709.5	90.1	715.1	630.1	11509.2	449.6	513.6	438.3	11.4	75.3	131.7	116.5	26.1	37.8	95.0
SMDH 00263	813715.6	8193139.3	168.6	5	6	90	1656.9	778.8	96.9	893.8	713.2	13027.9	496.4	563.5	483.5	13.0	80.1	143.4	128.8	27.6	39.5	107.1
SMDH 00263	813715.6	8193139.3	168.6	6	7	50	1447.1	675.5	100.7	796.0	599.5	10949.4	414.2	498.4	397.3	16.9	101.0	142.7	104.2	26.1	58.0	86.3
SMDH 00263	813715.6	8193139.3	168.6	7	8	80	1313.0	627.6	94.8	649.6	551.4	10070.9	380.1	462.2	364.1	16.0	98.0	134.6	94.8	24.5	57.5	80.2
SMDH 00263	813715.6	8193139.3	168.6	8	9	90	1359.6	649.2	105.8	627.5	582.0	10630.7	394.8	480.6	378.6	16.2	102.0	139.9	102.2	29.1	56.6	81.0
SMDH 00263	813715.6	8193139.3	168.6	9	10	96	1300.9	601.9	98.5	644.6	568.0	10375.2	363.5	445.0	347.4	16.1	97.5	130.3	92.4	26.1	55.4	75.3
SMDH 00263	813715.6	8193139.3	168.6	10	11	90	1330.2	622.0	91.7	777.2	529.5	9671.9	384.3	460.3	365.2	19.2	95.1	137.3	99.7	21.5	54.5	73.3
SMDH 00264	813599.2	8193142.0	169.9	0	1	30	2338.5	1065.5	119.2	1136.6	1138.9	20802.1	690.4	767.3	666.8	23.6	100.5	177.9	161.6	27.6	49.3	140.1
SMDH 00264	813599.2	8193142.0	169.9	1	2	60	1555.9	632.5	99.3	746.8	843.5	15407.8	408.0	468.5	391.2	16.7	77.2	115.2	101.9	27.6	32.9	87.1
SMDH 00264	813599.2	8193142.0	169.9	2	3	90	1441.9	680.3	108.5	611.8	659.3	12043.2	432.4	501.5	413.5	18.9	88.0	131.4	112.3	29.1	40.0	91.6

BHID	East	North	AHD	FROM	TO	Rec	Mz EQ	monazite	xenotime	zircon	rutile	ilmenite	TREO	TREO+Y+Sc	LREO	HREO	HREO+Y+Sc	CREO	MagREO	Sc_2O_3	Y_2O_3	La_2O_3
units:	*m*	*m*	*m*	*m*	*m*	*%*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
SMDH 00264	813599.2	8193142.0	169.9	3	4	40	1477.5	735.9	121.1	616.3	610.1	11144.6	462.1	545.2	436.1	26.0	109.1	150.5	118.9	29.1	54.0	94.6
SMDH 00264	813599.2	8193142.0	169.9	4	5	55	1513.7	710.7	131.8	682.1	652.9	11925.5	440.2	533.9	413.8	26.5	120.2	149.7	110.8	33.7	59.9	92.8
SMDH 00264	813599.2	8193142.0	169.9	5	6	25	1491.6	686.6	108.1	701.9	680.7	12433.6	434.1	505.1	413.3	20.7	91.8	132.5	110.8	27.6	43.4	91.8
SMDH 00264	813599.2	8193142.0	169.9	6	7	50	1392.2	692.3	96.6	687.0	552.3	10088.1	438.7	504.0	418.9	19.8	85.1	128.9	108.9	23.0	42.3	94.6
SMDH 00264	813599.2	8193142.0	169.9	7	8	50	1441.8	672.3	100.9	700.9	640.2	11692.9	423.4	494.8	407.5	15.8	87.3	124.1	99.9	27.6	43.8	82.3
SMDH 00264	813599.2	8193142.0	169.9	8	9	98	1204.3	578.1	76.4	636.0	498.9	9112.1	371.8	417.5	359.0	12.8	58.6	98.0	90.8	19.9	25.8	79.2
SMDH 00264	813599.2	8193142.0	169.9	9	10	60	1168.0	531.4	75.1	745.7	464.8	8489.1	331.3	386.9	321.1	10.2	65.9	102.5	84.5	21.5	34.2	67.7
SMDH 00264	813599.2	8193142.0	169.9	10	11	70	989.9	442.7	72.3	582.5	415.4	7587.6	275.1	327.3	265.1	10.0	62.2	86.7	69.5	21.5	30.7	55.7
SMDH 00264	813599.2	8193142.0	169.9	11	11.5	50	766.4	501.3	47.8	182.2	229.3	4188.6	320.5	352.7	312.4	8.2	40.3	84.5	78.7	10.7	21.5	70.5
SMDH 00265	813483.6	8193137.3	171.5	0	1	20	1080.7	529.3	48.7	846.0	333.0	6083.3	330.5	371.8	320.1	10.3	51.7	98.9	84.2	9.2	32.1	70.4
SMDH 00265	813483.6	8193137.3	171.5	1	2	15	1065.7	416.3	94.6	539.1	551.0	10065.2	261.7	324.3	253.1	8.6	71.2	81.5	65.5	33.7	28.8	56.4
SMDH 00265	813483.6	8193137.3	171.5	2	3	80	1384.1	653.4	112.4	639.1	596.3	10892.0	399.0	491.8	381.8	17.2	109.9	141.2	99.5	32.2	60.6	83.0
SMDH 00265	813483.6	8193137.3	171.5	3	4	25	1637.0	800.4	106.1	1032.3	575.7	10515.9	497.1	583.7	477.7	19.4	105.9	164.1	125.7	26.1	60.4	104.8
SMDH 00265	813483.6	8193137.3	171.5	4	5	30	1219.4	571.7	88.4	592.9	532.5	9726.4	343.6	423.5	328.6	15.0	94.9	127.8	87.5	23.0	56.9	70.7
SMDH 00265	813483.6	8193137.3	171.5	5	6	30	1856.7	905.1	154.2	837.6	762.8	13932.2	548.8	680.6	523.2	25.6	157.4	207.1	143.2	41.4	90.4	113.3
SMDH 00265	813483.6	8193137.3	171.5	6	7	30	1914.7	970.3	153.6	883.6	732.0	13369.5	584.2	722.8	555.8	28.5	167.0	219.1	147.4	38.3	100.2	121.2
SMDH 00265	813483.6	8193137.3	171.5	7	8	20	1359.3	636.3	92.5	619.2	623.2	11382.9	394.7	470.3	378.0	16.8	92.3	137.5	101.0	23.0	52.6	78.6
SMDH 00265	813483.6	8193137.3	171.5	8	9	30	1793.1	715.2	127.4	783.0	1009.4	18436.6	432.8	541.1	410.2	22.6	130.9	168.3	113.8	35.3	73.0	85.3
SMDH 00265	813483.6	8193137.3	171.5	9	10	40	1962.4	903.2	135.9	887.9	921.5	16831.7	543.9	671.4	512.7	31.2	158.6	217.9	142.9	29.1	98.3	105.9
SMDH 00265	813483.6	8193137.3	171.5	10	11	45	1684.3	782.9	124.1	825.0	739.7	13510.2	475.3	583.3	450.4	24.9	132.9	178.2	121.7	30.7	77.3	95.0
SMDH 00265	813483.6	8193137.3	171.5	11	11.5	40	1889.7	851.8	109.9	1066.8	845.0	15433.6	550.7	620.5	531.2	19.5	89.3	145.9	133.4	29.1	40.6	111.9

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00013	224.7	26.8	91.0	17.2	1.6	10.9	1.3	7.1	1.1	2.6	0.3	2.7	0.3	39.5	20.3	81.5	602.0	10995.3	10.0	426.0	0.41	
SMDH 00013	116.0	14.1	49.0	10.7	1.9	7.5	1.1	6.1	1.0	2.1	0.3	2.4	0.3	18.8	3.1	65.8	991.8	18115.0	8.0	346.3		1.37
SMDH 00013	86.4	9.9	33.8	6.5	1.3	4.7	0.7	3.3	0.3	1.0	0.3	0.8	0.3	15.1	1.9	35.8	541.1	9884.3	4.7	205.7		
SMDH 00013	199.1	21.9	72.6	13.5	1.9	8.2	1.1	4.6	0.7	1.4	0.3	0.3	0.3	39.5	5.8	54.1	342.6	6258.4	12.4	241.8		
SMDH 00013	67.4	8.2	28.0	4.6	0.7	3.2	0.3	2.0	0.3	0.7	0.3	0.7	0.3	12.1	1.1	17.2	374.1	6832.6	3.3	143.3	0.36	1.58
SMDH 00013	106.7	13.0	44.3	10.9	1.5	6.6	0.9	6.3	0.9	2.3	0.3	1.5	0.3	17.9	1.4	30.0	746.4	13633.6	5.9	247.9		
SMDH 00013	121.5	13.8	46.7	10.0	1.7	6.9	1.8	6.2	0.9	1.9	0.3	2.4	0.3	26.3	81.3	30.0	666.4	12172.4	8.1	261.4		
SMDH 00013	131.8	15.1	49.0	8.9	1.2	5.4	0.7	3.4	0.3	1.1	0.3	1.0	0.3	22.9	2.6	34.3	617.7	11282.4	6.6	278.9		1.52
SMDH 00013	216.7	24.6	84.0	15.1	1.3	10.1	1.5	8.1	1.5	3.2	0.3	3.1	0.3	37.3	3.7	32.9	685.6	12522.6	4.2	189.8	0.13	
SMDH 00013	354.3	38.7	130.2	23.5	1.9	14.6	1.9	8.6	1.1	2.3	0.3	2.0	0.3	63.7	8.3	50.4	440.9	8052.7	14.1	535.6		
SMDH 00013	209.9	23.3	80.5	14.0	1.4	9.2	1.2	5.3	0.8	1.5	0.3	1.3	0.3	34.1	3.3	44.3	523.9	9568.5	7.1	317.6		1.62
SMDH 00012b	266.9	29.8	99.4	19.0	1.7	11.4	1.4	7.0	1.3	3.1	0.3	3.1	0.6	53.1	9.2	28.6	267.4	4883.3	12.0	546.1		
SMDH 00012b	322.0	35.3	127.0	22.6	2.1	13.6	1.8	8.5	1.5	3.7	0.6	3.5	0.6	62.1	9.7	31.0	327.2	5977.1	14.6	690.0		1.59
SMDH 00012b	56.5	6.4	21.0	3.9	0.3	2.5	0.3	1.4	0.3	0.3	0.3	0.3	0.3	9.9	0.8	5.7	118.7	2167.5	3.2	138.2		1.57
SMDH 00012b	204.8	22.1	80.5	15.0	1.6	9.2	1.1	5.5	0.9	1.8	0.3	1.7	0.3	36.4	2.8	30.0	437.7	7995.3	8.7	386.7		
SMDH 00012b	190.6	21.6	73.8	14.8	2.3	9.1	1.1	4.7	0.8	1.8	0.3	0.9	0.3	37.0	7.1	42.6	330.2	6031.6	7.8	412.5		
SMDH 00012b	185.9	21.6	73.2	14.1	1.7	8.9	1.2	5.5	1.0	2.4	0.3	2.4	0.3	37.2	5.9	33.3	336.2	6140.7	8.8	331.6		
SMDH 00012b	157.0	18.1	60.3	11.9	1.4	7.5	0.9	4.1	0.8	1.9	0.3	2.2	0.3	33.3	3.9	27.2	333.2	6086.2	8.3	392.5		
SMDH 00012b	197.5	22.4	78.1	15.5	1.3	9.7	1.2	5.3	0.8	1.7	0.3	1.4	0.3	39.0	2.9	32.9	503.9	9203.9	7.1	314.7		
SMDH 00012b	229.5	27.1	89.2	19.0	2.1	12.1	1.4	6.2	1.0	2.4	0.3	1.5	0.3	44.7	4.8	40.9	450.5	8227.8	8.0	408.3		
SMDH 00012b	152.4	17.2	59.0	11.9	1.6	8.0	0.9	4.2	0.8	1.7	0.3	1.7	0.3	27.0	2.7	24.7	299.7	5474.7	8.5	270.8		1.79
SMDH 00012b	165.5	19.3	65.7	13.1	1.7	8.5	0.9	3.8	0.7	1.3	0.3	1.5	0.3	31.5	2.7	24.7	327.7	5985.7	8.5	250.8		
SMDH 00012b	165.1	18.4	61.9	12.5	1.4	8.3	0.9	4.2	0.7	1.6	0.3	1.1	0.3	31.6	3.9	25.6	423.0	7725.4	11.0	471.7		
SMDH 00012b	187.0	21.3	75.8	14.7	1.3	9.0	1.1	4.9	0.8	1.9	0.3	2.0	0.3	35.7	2.7	32.9	492.9	9003.0	8.3	359.7	0.17	
SMDH 00012b	198.6	22.4	75.9	14.8	1.7	9.6	1.1	4.5	0.8	1.7	0.3	1.5	0.3	35.7	3.1	24.0	358.5	6548.4	8.1	174.1		
SMDH 00012	292.0	32.9	110.9	19.9	1.4	13.4	1.5	6.9	1.3	2.7	0.3	2.2	0.3	54.2	5.2	22.3	211.7	3867.0	17.7	742.3		
SMDH 00012	198.1	21.0	68.9	12.3	1.5	7.5	0.8	4.0	0.8	1.7	0.3	1.7	0.3	36.0	2.9	19.5	429.4	7843.1	8.8	646.8		1.55
SMDH 00012	93.4	11.1	40.7	7.0	1.0	4.3	0.3	2.3	0.3	0.7	0.3	0.8	0.3	15.6	1.5	19.7	269.2	4917.8	6.1	533.0		
SMDH 00012	166.2	18.0	63.1	11.6	1.2	7.1	0.9	4.5	0.8	1.7	0.3	0.8	0.3	29.2	3.4	23.5	374.9	6847.0	5.9	349.0		
SMDH 00012	225.5	23.7	81.6	13.7	1.5	7.7	0.8	3.6	0.7	1.7	0.3	2.2	0.3	40.4	3.5	19.2	385.9	7047.9	8.2	445.2		
SMDH 00012	139.9	15.8	57.2	9.6	1.4	6.2	0.8	3.9	0.7	1.1	0.3	0.8	0.3	25.6	1.7	37.2	377.1	6887.2	6.5	292.2		
SMDH 00012	89.6	11.4	40.8	6.8	0.8	4.1	0.3	2.3	0.3	0.8	0.3	0.7	0.3	18.9	1.2	31.5	303.7	5546.5	5.1	204.1		1.24
SMDH 00012	204.5	23.1	80.5	14.3	1.3	8.3	0.9	4.7	0.9	1.9	0.3	1.6	0.3	36.8	1.8	34.3	546.5	9981.9	8.6	411.7	0.23	
SMDH 00012	226.4	26.0	88.6	15.1	1.5	9.0	1.2	5.5	0.9	2.1	0.3	1.7	0.3	43.9	2.5	32.9	499.0	9114.9	11.1	477.0		
SMDH 00012	206.1	23.6	81.6	14.1	1.5	8.3	1.1	5.0	0.8	1.7	0.3	1.5	0.3	37.4	2.0	18.6	540.8	9878.6	9.6	409.7		1.65
SMDH 00011b	212.6	25.0	87.5	14.8	1.3	8.6	1.1	5.7	1.0	2.5	0.3	2.6	0.3	42.1	2.4	20.0	566.3	10343.6	11.8	464.3		
SMDH 00011b	200.8	23.9	78.1	13.5	1.3	8.1	0.9	5.5	1.0	2.7	0.3	3.0	0.3	36.0	2.7	40.1	490.7	8962.8	6.1	261.2	0.54	
SMDH 00011b	205.6	23.8	81.9	13.7	1.2	7.4	0.8	3.9	0.8	1.9	0.3	3.3	0.3	41.9	3.8	18.7	423.4	7734.0	4.6	372.0		
SMDH 00011b	144.1	16.6	54.8	9.7	1.4	6.3	1.1	4.9	1.0	2.5	0.3	3.2	0.3	26.4	8.0	60.1	430.8	7869.0	7.9	300.4		
SMDH 00011b	67.6	10.6	35.9	4.1	1.5	2.4	0.3	1.1	0.3	0.3	0.3	0.3	0.3	11.3	3.2	10.0	293.6	5362.7	5.9	290.0		1.65
SMDH 00011b	163.9	18.5	61.8	10.1	1.4	6.0	0.8	4.8	0.9	2.6	0.3	3.1	0.3	30.8	3.2	351.9	547.9	10007.8	7.3	308.9		
SMDH 00011b	166.1	18.5	61.8	10.1	1.5	5.6	0.7	3.1	0.3	1.3	0.3	1.3	0.3	30.6	1.5	27.2	536.7	9803.9	5.7	255.8		
SMDH 00011b	134.6	14.9	50.7	9.6	1.3	6.1	0.7	3.3	0.6	1.1	0.3	2.6	0.3	24.1	1.8	22.3	132.3	2417.2	3.5	322.3		
SMDH 00011	321.6	33.1	126.0	22.0	1.7	12.9	1.8	9.4	1.7	3.8	0.6	3.6	0.3	62.0	6.1	21.5	489.0	8931.2	11.1	500.7	0.62	
SMDH 00011	207.4	22.1	74.2	13.2	1.7	7.8	1.1	4.8	0.9	2.2	0.3	2.8	0.3	36.9	4.5	16.5	360.2	6580.0	8.0	274.5		
SMDH 00011	256.4	26.2	98.0	16.5	1.9	9.7	1.2	5.3	0.7	1.3	0.3	0.8	0.3	47.7	2.8	21.5	648.0	11836.5	13.4	592.5		1.5

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00011	268.2	27.3	105.0	17.7	2.0	10.4	1.3	5.9	0.9	1.5	0.3	1.1	0.3	48.8	2.6	25.7	823.0	15031.7	14.6	642.2		
SMDH 00011	216.9	22.1	85.1	14.6	2.0	8.5	1.1	5.3	0.9	1.7	0.3	1.5	0.3	40.2	4.4	216.0	811.0	14813.5	17.1	760.2	0.29	
SMDH 00010b	361.3	36.9	142.3	25.3	1.6	15.8	2.2	13.5	2.7	6.5	1.1	6.6	0.9	70.1	5.8	31.5	984.7	17985.8	16.9	726.1		1.35
SMDH 00010b	210.5	23.3	83.2	14.6	1.9	10.0	1.5	10.1	2.5	6.7	1.1	15.0	1.0	37.0	5.7	26.2	438.4	8006.8	12.3	333.8		
SMDH 00010b	261.3	26.7	101.5	18.4	1.5	11.1	1.5	10.2	1.9	4.6	0.8	4.7	0.7	50.6	4.5	27.2	945.9	17276.7	14.5	639.3		
SMDH 00010b	236.6	24.2	93.3	16.5	1.6	10.5	1.5	9.0	1.8	4.1	0.7	4.3	0.6	44.9	3.5	22.9	790.9	14446.1	11.9	510.9	0.35	1.56
SMDH 00010b	192.6	21.0	72.6	12.4	1.6	7.6	0.8	4.0	0.8	1.7	0.3	4.0	0.3	34.7	3.4	17.6	377.2	6890.0	7.8	315.4		
SMDH 00010b	166.2	19.2	67.7	10.4	1.6	6.0	0.7	3.1	0.3	1.0	0.3	1.0	0.3	30.0	1.9	14.3	626.8	11448.9	10.4	491.8		
SMDH 00010b	252.4	29.6	102.6	17.4	1.7	9.8	1.2	6.1	1.0	2.1	0.3	1.9	0.3	46.9	3.2	22.9	781.1	14268.1	13.7	614.5		1.56
SMDH 00010	485.2	52.8	181.0	35.0	1.6	20.6	2.4	10.8	1.9	4.3	0.7	8.8	0.6	107.5	6.3	21.6	365.6	6677.6	12.4	354.0		1.49
SMDH 00010	130.6	15.6	54.1	10.6	1.0	6.2	0.7	3.6	0.7	1.8	0.3	1.7	0.3	30.8	1.5	22.7	435.4	7952.2	5.3	401.6		
SMDH 00010	197.4	23.7	82.3	15.9	1.5	9.2	1.1	5.3	0.9	2.3	0.3	2.4	0.3	47.9	2.1	28.8	323.8	5913.9	5.9	478.9		
SMDH 00010	168.0	20.2	71.2	13.1	1.4	7.7	0.9	5.3	1.0	2.1	0.3	2.7	0.3	39.8	1.9	20.0	458.8	8380.0	7.1	312.4		
SMDH 00010	188.1	22.6	77.0	14.6	1.3	8.4	0.9	5.2	0.9	1.8	0.3	1.9	0.3	45.6	2.5	20.0	463.2	8460.4	9.9	422.3	0.61	
SMDH 00010	205.6	24.8	86.3	16.0	1.4	9.2	1.2	5.7	1.0	2.2	0.3	2.3	0.3	49.0	2.5	18.6	464.4	8483.3	8.0	377.5		1.52
SMDH 00010	197.4	23.3	80.5	15.7	1.6	9.3	1.3	7.2	1.5	3.3	0.7	3.9	0.3	44.8	3.9	60.1	437.1	7983.8	10.4	443.3		
SMDH 00010	196.4	23.3	81.6	15.2	1.5	9.0	1.1	5.6	1.0	2.2	0.3	2.4	0.3	46.8	3.4	32.9	474.7	8669.9	10.1	440.1		
SMDH 00009b	502.3	58.6	195.4	34.7	2.0	20.6	2.6	13.1	2.2	5.0	0.8	4.3	0.7	99.6	6.4	21.2	514.6	9399.1	9.7	726.6		
SMDH 00009b	378.8	43.7	150.2	24.4	2.1	13.9	1.6	7.8	1.3	2.4	0.3	1.0	0.3	70.4	3.2	21.3	450.3	8225.0	4.9	360.5		
SMDH 00009b	307.0	36.2	123.6	20.8	1.9	12.1	1.4	6.5	1.0	1.7	0.3	1.1	0.3	60.4	5.1	38.6	662.0	12092.0	14.3	631.4		
SMDH 00009b	291.4	34.0	115.5	19.4	1.9	11.1	1.2	5.4	0.7	1.5	0.3	1.0	0.3	55.2	2.5	32.9	728.7	13309.2	14.4	640.0		1.55
SMDH 00009b	336.0	39.7	135.3	23.8	2.0	13.5	1.5	7.2	1.1	2.2	0.3	1.8	0.3	64.9	2.9	31.5	827.7	15117.9	13.7	595.3	0.38	
SMDH 00009b	326.1	38.3	129.5	22.6	1.9	13.6	1.6	8.3	1.4	3.0	0.3	3.0	0.3	63.6	6.4	38.6	831.9	15195.4	15.4	698.6		
SMDH 00009b	285.7	33.3	114.3	19.7	1.7	11.9	1.5	8.0	1.5	3.2	0.3	3.3	0.3	57.4	4.7	24.3	1124.9	20546.6	11.8	505.3		1.54
SMDH 00009b	287.1	32.5	113.7	19.9	2.4	12.0	1.4	7.1	1.3	3.0	0.3	2.5	0.3	58.4	3.3	23.9	450.3	8225.0	5.4	381.2		1.71
SMDH 00009	218.7	24.9	86.3	15.0	1.4	9.5	1.3	7.1	1.4	3.7	0.6	3.4	0.6	42.2	3.3	18.9	361.8	6608.7	5.9	480.2		
SMDH 00009	314.6	38.8	129.5	22.1	2.2	12.7	1.6	8.3	1.5	3.4	0.3	3.3	0.3	55.1	4.0	45.8	700.4	12792.5	12.5	546.4		1.53
SMDH 00009	300.7	35.2	117.8	21.0	1.9	12.7	1.6	9.2	1.6	3.7	0.6	4.0	0.6	58.9	3.5	38.6	820.6	14988.7	12.5	547.7		
SMDH 00009	315.0	36.9	124.8	22.0	1.9	13.1	1.6	8.8	1.5	3.7	0.3	3.6	0.3	61.3	3.3	44.3	776.7	14187.7	15.0	661.4		
SMDH 00009	267.9	31.2	105.0	18.1	2.1	10.6	1.3	6.7	1.1	2.6	0.3	2.4	0.3	51.7	2.5	48.6	772.5	14110.2	11.0	476.7	0.56	1.53
SMDH 00009	187.2	21.9	77.0	13.3	2.0	7.5	0.9	5.0	0.8	1.7	0.3	1.6	0.3	35.5	1.4	21.5	574.3	10490.1	8.4	366.6		
SMDH 00009	278.5	32.0	112.0	18.9	2.0	11.4	1.5	8.3	1.5	3.2	0.3	3.1	0.3	52.7	2.5	24.3	735.6	13435.5	12.7	545.0		
SMDH 00009	286.5	33.8	119.0	20.9	1.9	12.7	1.8	10.1	1.9	4.2	0.8	4.3	0.6	56.3	3.4	22.9	728.8	13312.1	13.1	555.6		1.52
SMDH 00009	249.6	29.1	100.3	16.9	1.9	10.0	1.2	6.3	1.0	2.1	0.3	1.8	0.3	47.6	2.5	24.3	858.8	15686.3	13.1	561.4		
SMDH 00009	260.2	30.2	105.0	17.9	1.9	10.5	1.3	6.3	1.0	1.8	0.3	1.4	0.3	49.5	2.5	24.3	915.7	16725.5	12.4	524.9		1.55
SMDH 00009	315.9	36.4	126.0	20.9	2.0	12.4	1.5	7.0	1.0	1.9	0.3	1.5	0.3	60.3	2.8	47.2	977.9	17862.4	15.2	651.0		
SMDH 00009	268.2	30.4	103.8	17.6	1.9	10.9	1.4	7.6	1.4	2.9	0.3	3.1	0.3	52.7	2.7	30.0	877.8	16033.7	12.5	535.1	0.34	
SMDH 00009	269.1	31.3	105.0	18.9	1.7	12.2	1.6	9.4	1.9	4.7	0.8	5.5	0.8	54.5	2.9	27.2	654.5	11954.2	14.7	629.2		1.5
SMDH 00008b	189.4	22.5	77.3	13.5	1.3	8.4	1.1	6.4	1.1	2.7	0.6	3.0	0.3	37.9	2.4	17.2	554.7	10131.2	7.4	478.5		
SMDH 00008b	311.6	36.6	122.5	21.1	1.9	12.8	1.5	8.0	1.5	3.3	0.6	3.6	0.6	63.8	3.1	27.2	778.9	14227.9	12.3	546.7		
SMDH 00008b	206.7	23.9	81.6	13.3	1.5	7.6	0.8	4.2	0.7	1.3	0.3	1.1	0.3	40.5	2.2	28.6	710.6	12979.1	10.7	479.3	1.31	1.54
SMDH 00008b	282.7	32.0	108.5	18.4	1.7	10.9	1.3	6.3	1.0	2.1	0.3	1.7	0.3	56.0	3.8	25.7	708.4	12938.9	9.8	441.2		
SMDH 00008b	250.7	29.2	98.0	17.4	1.7	10.6	1.3	6.7	1.1	2.6	0.3	2.8	0.3	50.4	2.1	25.7	708.4	12938.9	10.5	438.2		
SMDH 00008b	264.7	30.6	102.6	17.6	1.7	10.6	1.3	6.0	0.9	1.7	0.3	1.5	0.3	53.6	4.1	45.8	667.7	12195.3	11.7	501.0		1.6
SMDH 00008b	267.1	30.4	103.8	18.1	1.7	11.1	1.3	7.2	1.1	2.5	0.3	2.5	0.3	54.2	2.7	41.5	577.3	10544.6	11.2	505.2	0.42	
SMDH 00008b	306.7	35.4	117.8	20.3	1.9	12.6	1.5	7.6	1.1	2.4	0.3	2.0	0.3	60.9	3.3	42.9	456.1	8331.2	11.3	504.1		
SMDH 00008b	258.5	30.6	105.0	18.6	1.7	11.5	1.5	8.4	1.5	3.4	0.6	3.6	0.6	52.6	5.9	105.9	531.7	9712.1	10.1	473.2		1.54
SMDH 00008b	236.2	27.9	98.0	17.3	1.7	11.2	1.5	9.4	1.8	4.5	0.8	5.5	0.9	50.0	4.0	40.1	507.0	9261.3	10.6	479.4		
SMDH 00008b	225.8	26.8	92.1	16.6	1.7	10.6	1.4	8.8	1.7	4.1	0.7	4.3	0.7	46.9	2.8	28.6	549.0	10027.9	11.6	531.7	0.2	
SMDH 00008	230.8	27.4	93.3	16.4	1.4	9.8	1.3	6.4	1.1	2.6	0.3	2.6	0.3	51.5	2.4	20.0	607.0	11087.2	10.5	480.9		1.43
SMDH 00008	177.0	20.5	68.0	12.1	1.3	7.7	0.9	6.4	1.3	3.4	0.6	4.1	0.7	41.9	2.2	21.9	481.9	8802.0	7.6	248.4		
SMDH 00008	219.8	26.0	88.6	16.0	1.7	10.1	1.4	7.9	1.6	3.9	0.7	4.0	0.7	46.2	3.5	22.9	655.1	11965.7	9.8	476.2		
SMDH 00008	222.1	25.9	88.6	16.0	1.7	10.1	1.3	7.7	1.4	3.4	0.6	3.6	0.7	44.8	3.2	18.6	570.1	10412.5	9.7	450.5	0.34	1.5
SMDH 00008	204.7	24.2	81.6	15.0	1.7	9.1	1.3	7.0	1.3	3.0	0.3	3.2	0.6	42.7	2.8	18.6	608.3	11110.2	10.1	455.1		
SMDH 00008	189.7	22.1	74.6	13.6	1.9	8.4	1.1	6.1	1.1	2.5	0.3	2.6	0.3	38.3	2.1	18.6	605.7	11064.2	9.2	421.4		
SMDH 00008	265.7	31.1	107.3	18.9	1.7	12.0	1.6	10.8	2.2	5.5	1.0	5.8	0.8	53.4	3.1	25.7	985.0	17991.6	13.7	614.1		1.35
SMDH 00007b	318.8	35.5	119.2	21.6	1.7	13.8	1.6	8.3	1.5	3.5	0.6	3.8	0.6	58.8	4.2	22.5	326.0	5954.1	9.0	873.0		1.67
SMDH 00007b	163.3	17.9	64.4	11.4	2.0	7.5	1.1	6.0	1.3	3.0	0.6	3.0	0.6	29.9	3.7	26.6	366.4	6691.9	5.0	489.5		
SMDH 00007b	36.0	4.3	15.2	3.0	1.4	2.0	0.3	1.6	0.3	0.8	0.3	1.1	0.3	4.7	1.2	21.5	1000.1	18267.2	12.6	640.1		1.65
SMDH 00007b	43.4	5.4	19.8	5.1	1.5	4.0	0.7	4.5	0.9	2.1	0.3	2.3	0.3	2.3	1.3	30.0	1011.1	18468.1	11.6	520.7		
SMDH 00007b	52.3	6.3	22.2	5.1	1.2	3.8	0.6	3.7	0.7	1.7	0.3	1.6	0.3	3.4	0.7	37.2	1075.4	19642.3	5.5	265.6	0.64	
SMDH 00007b	40.5	5.3	21.0	5.0	1.4	3.9	0.6	3.9	0.7	1.6	0.3	1.6	0.3	2.0	0.8	34.3	1163.1	21244.2	3.4	157.2		1.61
SMDH 00007b	46.8	5.7	22.2	5.3	1.4	4.3	0.8	5.9	1.4	3.4	0.6	3.3	0.3	2.2	0.6	24.3	1107.0	20219.3	3.5	162.9		
SMDH 00007	211.4	24.6	86.3	15.1	1.2	9.5	1.2	6.5	1.1	2.5	0.3	2.5	0.3	41.1	2.9	15.7	605.6	11061.4	11.0	505.7		
SMDH 00007	143.2	16.6	56.1	10.2	2.0	6.3	0.8	3.7	0.8	1.6	0.3	1.8	0.3	25.0	2.2	14.4	312.0	5698.6	5.9	499.7		
SMDH 00007	176.3	20.5	72.1	12.2	1.9	7.4	0.8	4.6	0.8	2.1	0.3	2.3	0.3	31.1	2.1	30.6	304.0	5552.2	4.7	448.9		
SMDH 00007	129.5	15.0	52.5	8.7	1.6	4.8	0.3	2.4	0.3	0.8	0.3	0.7	0.3	23.2	1.4	17.2	886.3	16188.7	12.0	538.3		
SMDH 00007	212.1	24.8	82.8	13.8	1.6	8.1	0.9	4.4	0.7	1.5	0.3	1.4	0.3	36.6	2.1	34.3	741.5	13544.6	8.0	347.8		1.42
SMDH 00007	218.7	26.3	87.5	15.2	1.9	9.1	1.2	6.9	1.3	3.0	0.3	3.3	0.3	40.1	4.0	83.0	820.6	14988.7	9.3	390.7	0.53	
SMDH 00007	243.3	29.4	98.0	19.9	2.2	15.3	4.7	16.1	2.3	4.9	0.8	5.0	0.7	70.1	240.5	2230.1	830.5	15169.5	16.2	503.6		
SMDH 00007	219.0	25.7	88.6	15.5	1.7	9.5	1.3	7.6	1.5	3.5	0.6	3.8	0.3	42.7	4.1	93.0	676.0	12347.5	10.6	472.0		1.51

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00007	244.1	29.1	98.0	17.5	1.7	10.8	1.4	8.0	1.5	3.8	0.6	3.9	0.3	47.7	2.8	35.8	590.8	10791.5	11.6	504.1		
SMDH 00007	182.0	21.4	71.2	12.8	1.6	7.7	1.1	5.9	1.0	2.5	0.3	3.1	0.3	34.1	2.4	30.0	410.4	7495.8	8.4	348.0	0.69	
SMDH 00007	237.1	27.8	94.5	16.5	1.9	9.9	1.3	7.3	1.3	3.0	0.3	3.0	0.3	45.9	6.7	32.9	572.3	10452.7	11.0	463.7		
SMDH 00006b	248.4	30.7	106.1	17.6	1.6	10.5	1.4	7.7	1.4	2.9	0.3	3.1	0.3	51.2	2.7	18.6	444.2	8113.0	11.6	527.8		
SMDH 00006b	303.8	36.1	118.7	20.8	3.7	13.1	1.9	10.0	2.1	4.3	0.7	4.4	0.7	45.5	3.7	24.2	333.0	6083.3	4.4	549.5		
SMDH 00006b	220.4	26.6	93.3	15.7	2.0	10.1	1.4	9.4	1.9	4.3	0.8	4.6	0.6	43.1	2.2	21.5	582.3	10636.5	7.8	337.3		
SMDH 00006b	209.3	25.4	87.5	14.8	1.9	9.2	1.3	8.1	1.5	3.4	0.6	3.8	0.3	40.9	2.5	27.2	507.0	9261.3	8.8	397.1		
SMDH 00006b	206.2	22.7	78.6	12.6	1.4	8.4	0.9	5.4	1.0	2.2	0.3	1.8	0.3	34.7	2.0	14.9	275.5	5032.6	3.6	486.8		
SMDH 00006b	412.7	48.1	166.8	25.9	2.2	15.7	2.0	10.4	1.8	3.5	0.6	3.1	0.3	75.6	3.8	25.7	788.4	14400.1	11.6	516.8	0.46	
SMDH 00006b	320.9	36.9	128.3	21.0	2.1	12.4	1.5	8.5	1.6	3.1	0.3	3.2	0.3	59.3	3.9	20.0	848.9	15505.4	11.4	502.9		
SMDH 00006b	364.2	41.9	145.8	23.7	2.5	13.8	1.8	10.3	1.8	3.5	0.6	3.4	0.3	65.3	3.7	27.2	748.9	13679.6	12.1	538.7		1.46
SMDH 00006b	334.7	37.7	137.1	21.5	3.0	13.6	1.5	9.4	1.8	3.8	0.6	3.6	0.6	57.2	3.5	22.3	327.1	5974.2	5.2	508.6		1.63
SMDH 00006b	335.5	39.0	134.1	21.1	2.5	12.4	1.6	9.4	1.7	3.4	0.3	3.2	0.3	59.2	2.9	21.5	719.2	13137.0	12.0	532.6	0.29	
SMDH 00006b	355.5	41.8	145.8	23.4	2.1	13.4	1.8	10.1	1.8	3.8	0.7	3.8	0.3	65.7	3.4	21.5	683.5	12485.3	11.9	525.6		1.43
SMDH 00006b	359.8	40.6	139.6	23.2	2.8	13.7	1.6	9.6	1.8	4.1	0.7	4.0	0.6	58.9	3.4	22.7	378.6	6915.9	4.5	636.4		
SMDH 00006	289.5	30.6	103.8	18.2	1.7	10.7	1.4	7.8	1.5	3.4	0.6	3.5	0.6	51.3	3.4	24.3	473.6	8649.8	12.5	551.1		
SMDH 00006	198.9	23.7	79.3	13.6	1.0	7.7	0.9	5.2	0.9	2.3	0.3	2.2	0.3	45.4	1.9	20.0	547.9	10007.8	7.2	334.2	1.51	1.56
SMDH 00006	320.7	41.8	142.3	24.2	3.8	14.8	1.9	10.1	1.8	4.1	0.7	3.9	0.6	58.4	2.2	18.6	650.9	11888.2	9.7	434.6		
SMDH 00006	249.7	29.6	100.3	17.6	1.7	10.0	1.3	6.7	1.1	2.7	0.3	2.6	0.3	52.9	3.1	22.9	608.4	11113.0	8.6	383.5		
SMDH 00006	263.0	30.6	102.6	17.6	1.7	9.9	1.2	5.5	0.9	2.2	0.3	2.0	0.3	53.1	2.2	18.6	645.0	11781.9	8.8	395.1		1.41
SMDH 00006	247.9	28.9	99.1	17.6	1.6	11.1	1.6	10.2	1.9	4.7	0.8	4.7	0.7	51.2	2.1	30.0	769.8	14061.4	12.0	546.3	0.5	
SMDH 00006	259.8	30.1	102.6	18.0	1.9	10.8	1.4	8.4	1.6	4.0	0.7	4.2	0.7	53.9	2.4	27.2	576.5	10530.3	10.8	474.1		
SMDH 00006	252.7	29.5	100.3	17.5	1.7	10.6	1.4	8.0	1.6	3.8	0.7	4.1	0.6	53.6	2.4	21.5	563.9	10300.6	11.7	498.6		1.38
SMDH 00006	264.1	31.4	110.8	17.9	2.0	10.7	1.4	7.7	1.4	3.4	0.6	3.4	0.3	54.2	1.9	32.9	622.7	11374.3	8.4	376.9		
SMDH 00006	235.9	28.3	99.1	16.4	1.6	9.9	1.3	7.0	1.3	3.1	0.3	3.2	0.3	51.2	2.0	21.5	553.9	10116.8	9.4	415.4	0.28	
SMDH 00005b	338.3	29.8	95.4	17.7	1.2	11.8	1.3	6.7	1.5	3.0	0.6	3.0	0.6	56.1	3.3	18.6	465.1	8494.8	8.0	786.6		
SMDH 00005b	253.4	27.5	91.3	16.0	1.6	10.3	1.2	5.0	0.9	2.1	0.3	2.5	0.3	44.4	2.7	17.6	478.6	8741.7	8.4	507.5		
SMDH 00005b	228.7	27.3	98.0	15.8	1.3	9.1	1.1	5.2	0.8	1.7	0.3	1.5	0.3	51.1	1.9	20.0	627.0	11451.8	10.6	503.6		
SMDH 00005b	304.4	35.6	127.1	20.4	2.1	12.2	1.5	7.2	1.3	2.6	0.3	2.2	0.3	58.3	2.1	17.2	547.4	9999.1	10.4	475.6	0.62	1.53
SMDH 00005b	290.5	33.5	117.8	19.2	1.9	11.4	1.4	6.9	1.1	2.7	0.3	2.6	0.3	58.7	2.4	24.3	632.3	11549.4	11.6	517.9		
SMDH 00005b	271.8	31.1	108.5	17.2	1.9	10.4	1.3	6.1	1.0	2.4	0.3	2.5	0.3	53.0	1.9	17.2	594.1	10851.8	11.6	520.1		
SMDH 00005	237.6	26.8	93.3	15.7	1.4	9.2	1.2	5.4	0.9	2.2	0.3	2.2	0.3	48.5	1.8	21.5	555.9	10154.2	10.7	468.6		1.53
SMDH 00005	184.1	20.1	66.5	11.5	1.5	7.5	0.7	3.4	0.7	1.5	0.3	0.3	0.3	32.3	3.1	19.2	621.6	11354.2	14.1	770.9		
SMDH 00005	289.8	34.1	117.8	20.2	1.9	11.4	1.4	6.1	1.1	2.9	0.3	3.1	0.3	54.4	1.9	18.6	725.0	13243.2	11.9	566.3		
SMDH 00005	255.9	29.4	102.6	16.9	1.6	9.8	1.1	5.5	1.0	2.4	0.3	2.6	0.3	49.4	1.8	17.2	649.4	11862.3	12.4	537.6		1.49
SMDH 00005	271.1	31.1	109.6	18.8	1.6	10.8	1.3	6.4	1.1	2.9	0.3	3.1	0.3	52.0	1.9	25.7	769.8	14061.4	12.9	547.6		
SMDH 00005	245.2	29.1	101.5	17.7	1.5	10.9	1.3	7.2	1.4	3.1	0.6	3.6	0.3	48.6	2.0	21.5	726.5	13269.0	12.5	527.5	0.59	
SMDH 00005	232.9	27.3	95.6	17.3	1.6	10.5	1.3	6.7	1.3	2.6	0.3	2.8	0.3	46.8	2.6	32.9	604.0	11032.6	11.6	491.6		1.51
SMDH 00005	269.6	31.5	112.0	20.6	1.6	12.0	1.4	7.6	1.3	2.7	0.3	2.8	0.3	54.4	2.6	44.3	600.1	10960.9	13.2	563.7		
SMDH 00005	259.9	30.3	106.1	19.4	1.6	11.5	1.4	7.7	1.4	2.7	0.3	2.8	0.3	52.9	1.9	28.6	536.0	9789.6	13.1	561.3		
SMDH 00005	276.8	32.0	113.1	20.6	2.0	12.6	1.5	8.1	1.5	3.1	0.6	3.2	0.3	57.5	2.0	31.5	592.2	10817.3	14.0	605.0	0.21	1.39
SMDH 00004b	186.5	19.8	67.7	13.1	1.3	8.1	0.9	5.0	0.9	2.3	0.3	2.4	0.3	37.8	2.0	22.9	707.3	12918.8	14.2	585.0		
SMDH 00004b	223.2	23.8	79.3	15.3	1.7	9.1	1.1	5.6	0.9	2.4	0.3	2.6	0.3	41.4	1.9	31.5	674.3	12315.9	11.4	471.2		1.4
SMDH 00004b	223.2	24.4	82.8	15.9	1.6	9.7	1.1	5.0	0.9	2.2	0.3	2.5	0.3	45.5	2.0	22.9	729.8	13329.3	12.4	499.4	0.52	
SMDH 00004b	203.5	23.8	81.6	16.2	1.5	9.9	1.1	5.6	1.0	2.5	0.3	2.8	0.3	44.5	1.9	25.7	764.5	13963.8	12.6	527.1		
SMDH 00004b	286.5	34.9	121.3	24.0	2.9	17.1	2.0	10.3	1.7	4.1	0.6	4.1	0.6	52.6	2.2	71.5	865.1	15801.1	13.1	545.3		1.73
SMDH 00004b	178.6	21.1	73.5	14.6	2.0	10.1	1.3	6.0	1.0	2.3	0.3	2.2	0.3	32.8	1.5	21.5	816.5	14914.0	11.3	472.6		
SMDH 00004b	217.1	25.3	85.1	16.6	1.4	10.8	1.2	6.2	1.0	2.4	0.3	2.6	0.3	44.5	1.8	28.6	868.5	15864.3	13.8	563.6	0.37	
SMDH 00004b	255.5	30.1	101.5	19.9	1.5	11.1	1.3	7.0	1.3	2.7	0.3	2.8	0.3	58.6	2.0	38.6	856.0	15634.6	13.6	597.3		1.73
SMDH 00004	173.2	17.9	61.8	10.9	1.0	6.6	0.8	4.1	0.7	1.6	0.3	1.8	0.3	37.2	1.8	17.2	831.0	15178.1	19.1	832.9		
SMDH 00004	93.2	11.1	37.3	6.5	1.3	3.8	0.3	2.5	0.3	1.0	0.3	1.1	0.3	17.0	1.1	15.7	576.7	10533.1	8.7	394.0		
SMDH 00004	134.0	15.9	54.8	8.8	2.2	4.8	0.3	2.2	0.3	0.8	0.3	0.7	0.3	25.0	0.7	21.5	606.7	11081.5	7.3	335.0	0.66	1.49
SMDH 00004	272.0	30.9	105.0	16.8	2.0	9.1	0.9	4.5	0.7	1.7	0.3	1.8	0.3	52.3	1.3	18.6	754.6	13782.9	13.4	596.1		
SMDH 00004	277.9	31.3	107.3	17.0	1.9	9.5	0.9	4.5	0.8	1.8	0.3	2.2	0.3	53.5	1.3	24.3	776.1	14176.2	12.0	523.2		
SMDH 00004	197.6	22.4	78.1	12.4	1.6	7.0	0.7	3.2	0.6	1.3	0.3	1.5	0.3	37.3	1.2	35.8	671.4	12264.2	11.3	487.1		1.63
SMDH 00004	144.2	15.9	54.8	8.7	1.7	4.6	0.3	2.3	0.3	0.8	0.3	0.8	0.3	26.9	0.7	15.7	643.3	11750.4	9.3	412.3	0.69	
SMDH 00004	205.0	23.9	84.0	13.6	1.7	7.6	0.7	3.1	0.3	0.9	0.3	0.8	0.3	39.5	1.5	75.8	581.4	10619.2	9.6	411.3		
SMDH 00003b	219.5	24.2	82.8	14.7	1.3	9.3	1.1	5.3	0.9	2.4	0.3	2.8	0.3	47.3	2.5	20.0	667.8	12198.2	22.8	980.1		1.44
SMDH 00003b	298.7	38.9	131.8	24.6	2.7	15.1	1.9	9.6	1.8	4.3	0.7	4.6	0.7	67.9	2.4	22.9	695.6	12706.3	14.5	620.8		
SMDH 00003b	187.9	22.6	77.0	13.1	2.2	7.5	0.8	3.9	0.7	1.6	0.3	1.5	0.3	34.7	1.1	27.2	674.4	12318.8	7.7	346.2	1.29	
SMDH 00003b	213.3	24.0	81.6	15.1	1.7	8.8	1.1	5.4	1.0	2.5	0.3	2.8	0.3	43.8	1.7	20.0	658.1	12020.2	9.0	390.1		1.62
SMDH 00003b	223.3	25.4	86.3	16.9	1.6	11.1	1.5	8.5	1.6	4.0	0.7	4.1	0.6	47.3	2.4	22.9	775.6	14167.6	11.7	498.4		
SMDH 00003b	202.6	23.6	81.6	16.4	1.5	11.3	1.6	9.6	1.9	4.8	0.8	5.0	0.8	44.3	2.7	28.6	710.3	12973.3	10.3	441.4		
SMDH 00003b	215.3	24.5	84.0	16.4	1.5	10.5	1.4	8.0	1.5	3.7	0.6	3.9	0.6	44.7	2.1	25.7	710.3	12973.3	10.3	443.7	0.55	1.57
SMDH 00003b	205.0	22.7	78.1	12.8	2.1	8.1	0.8	4.2	0.7	1.5	0.3	1.1	0.3	41.0	0.9	12.9	464.8	8489.1	5.4	227.7		
SMDH 00003b	167.2	18.2	63.0	10.1	1.9	6.1	0.6	2.9	0.3	1.0	0.3	0.9	0.3	31.5	1.1	15.7	661.2	12077.6	9.3	396.5		
SMDH 00003	193.8	20.5	71.2	12.1	0.7	7.3	0.8	4.4	0.7	1.7	0.3	1.8	0.3	42.4	3.1	100.1	364.2	6651.7	15.1	648.8		1.6
SMDH 00003	296.4	35.8	122.5	20.4	2.2	12.4	1.3	6.7	1.1	2.5	0.3	2.2	0.3	51.4	2.2	24.3	690.3	12608.7	10.7	462.1	1.28	
SMDH 00003	209.4	24.3	84.0	14.5	1.5	8.9	1.1	6.3	1.4	3.5	0.7	4.4	0.7	42.0	1.9	24.3	601.8	10992.5	7.2	292.0		
SMDH 00003	214.6	25.0	86.3	15.2	1.4	9.0	1.1	6.0	1.1	3.0	0.6	3.5	0.6	44.8	2.0	15.7	652.1	11911.1	7.4	312.8		1.49
SMDH 00003	204.5	23.1	80.5	13.9	1.4	9.0	1.1	6.7	1.4	3.4	0.7	4.0	0.6	42.4	2.1	20.0	518.0	9462.3	6.6	283.7		

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00003	199.6	22.6	78.1	13.7	1.3	8.8	1.2	7.2	1.5	3.5	0.7	4.0	0.6	40.2	2.0	20.0	574.5	10492.9	8.0	321.2	0.52	
SMDH 00003	187.5	20.8	73.5	12.4	1.3	8.5	1.2	7.2	1.5	4.1	0.7	4.2	0.6	36.5	2.1	21.5	558.0	10191.5	7.5	320.8		1.53
SMDH 00003	155.1	17.2	61.8	10.0	1.3	7.5	1.1	7.7	1.7	4.8	0.9	5.7	0.8	31.0	2.0	15.7	463.7	8469.0	7.1	290.8		
SMDH 00003	204.4	22.2	80.5	13.6	1.2	9.5	1.3	8.3	1.7	4.9	0.9	5.2	0.8	40.2	2.7	22.9	573.7	10478.6	7.5	316.8		
SMDH 00002b	271.4	28.9	102.6	16.5	1.5	11.1	1.3	6.8	1.1	2.9	0.3	2.8	0.3	48.6	2.6	22.9	570.5	10421.2	15.2	643.0	0.83	1.65
SMDH 00002b	221.8	23.0	81.6	12.3	1.5	8.3	1.1	5.2	1.0	2.5	0.3	2.6	0.3	42.3	1.9	22.9	719.9	13148.5	10.0	430.4		
SMDH 00002b	56.9	7.4	25.7	3.9	1.6	2.7	0.3	1.7	0.3	0.7	0.3	0.7	0.3	9.2	0.7	14.3	631.8	11540.8	8.8	380.3		
SMDH 00002b	333.4	37.0	129.5	18.3	2.4	11.2	1.1	4.1	0.6	1.3	0.3	0.9	0.3	56.7	1.3	11.4	589.4	10765.7	7.0	293.5		1.67
SMDH 00002b	3.2	0.3	1.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.3	10.0	619.3	11311.1	0.3	12.4	0.51	
SMDH 00002b	189.7	21.5	72.3	10.9	1.3	6.0	0.6	2.2	0.3	0.7	0.3	0.7	0.3	39.1	1.1	15.7	753.3	13759.9	11.9	278.0		
SMDH 00002b	168.7	19.0	63.0	9.7	1.4	5.6	0.6	2.5	0.3	1.0	0.3	1.0	0.3	32.9	0.9	12.9	581.4	10619.2	8.3	178.0		1.65
SMDH 00002b	66.8	8.1	27.2	4.5	1.5	2.5	0.3	1.0	0.3	0.6	0.3	0.3	0.3	12.2	2.0	12.7	312.8	5713.0	5.8	285.8		1.77
SMDH 00002	235.7	26.7	88.6	16.1	1.2	9.8	1.3	6.1	1.0	2.5	0.3	2.7	0.3	48.6	2.6	11.4	474.7	8669.9	14.6	344.2		1.65
SMDH 00002	116.0	12.9	44.3	7.5	1.4	4.8	0.6	2.9	0.3	1.3	0.3	1.4	0.3	22.5	1.5	10.0	534.4	9760.9	9.6	251.2		
SMDH 00002	18.3	2.4	8.2	1.3	1.2	0.9	0.3	0.6	0.3	0.3	0.3	0.3	0.3	1.9	0.3	8.6	447.8	8179.0	6.4	160.3		
SMDH 00002	106.4	12.1	39.7	7.0	1.3	4.0	0.3	2.3	0.3	1.0	0.3	1.1	0.3	20.0	0.9	10.0	460.5	8411.6	8.0	177.6	0.83	1.65
SMDH 00002	215.0	24.8	82.8	14.0	1.2	8.2	1.2	5.9	1.1	3.4	0.6	4.1	0.7	41.6	2.1	17.2	638.1	11655.6	11.7	256.5		
SMDH 00002	219.1	23.6	80.5	14.6	1.0	9.0	1.2	6.0	1.3	3.3	0.7	4.0	0.7	42.3	2.4	20.0	714.8	13056.6	12.4	525.3		
SMDH 00002	33.8	3.4	11.7	2.0	1.3	1.2	0.3	0.9	0.3	0.3	0.3	0.7	0.3	5.0	0.7	15.7	678.5	12393.4	8.8	405.2		1.59
SMDH 00002	160.2	16.8	57.2	10.1	1.2	6.1	0.7	4.4	1.0	2.7	0.3	3.2	0.3	28.8	1.4	20.0	681.2	12442.2	12.9	549.6	0.38	
SMDH 00002	112.9	11.6	39.7	6.5	1.3	4.0	0.3	2.8	0.3	1.4	0.3	1.5	0.3	20.5	1.3	40.1	1102.3	20133.2	18.2	787.2		
SMDH 00002	318.4	33.1	114.3	18.6	1.3	10.9	1.4	6.4	1.1	2.4	0.3	2.0	0.3	60.7	2.2	37.2	721.7	13182.9	8.0	340.8		1.53
SMDH 00002	358.6	38.3	134.1	22.7	1.3	13.8	1.9	10.3	2.1	5.4	0.9	6.3	1.0	71.5	3.1	40.1	755.4	13797.3	8.6	354.4		
SMDH 00002	259.4	27.8	95.6	17.5	1.5	11.4	1.5	8.1	1.7	4.5	0.8	5.1	0.8	48.9	3.1	20.0	730.2	13337.9	11.4	502.2	0.26	
SMDH 00002	279.5	30.0	102.6	19.2	1.5	11.9	1.5	7.9	1.5	4.2	0.8	5.1	0.8	52.8	3.1	18.6	716.2	13082.4	12.3	514.5		1.46
SMDH 00002	235.4	25.6	91.0	15.8	1.5	9.7	1.3	6.8	1.4	3.8	0.7	4.7	0.7	44.4	2.6	22.9	685.3	12516.9	12.0	528.2		
SMDH 00001b	228.9	25.1	88.6	15.9	1.5	9.9	1.3	6.8	1.1	2.7	0.3	2.8	0.3	43.0	2.6	30.0	899.2	16424.1	17.6	754.2		
SMDH 00001b	59.1	9.8	35.0	6.4	1.9	4.4	0.6	3.7	0.7	1.6	0.3	1.5	0.3	9.2	1.4	64.4	983.7	17968.6	2.9	134.1	0.97	1.63
SMDH 00001b	59.2	7.1	25.7	4.6	1.4	3.3	0.3	3.1	0.6	1.3	0.3	1.3	0.3	7.5	0.6	30.0	1166.7	21310.3	4.4	196.5		
SMDH 00001b	80.2	8.7	35.0	8.2	2.8	6.5	1.1	6.4	1.1	2.7	0.3	2.6	0.3	4.2	0.8	51.5	2505.0	45755.5	4.7	224.6		
SMDH 00001b	97.8	9.7	37.3	8.2	2.1	6.6	1.1	6.8	1.4	3.0	0.3	2.8	0.3	7.6	0.9	48.6	2502.2	45703.8	5.4	247.1		1.52
SMDH 00001b	195.4	20.1	71.2	12.3	1.7	8.1	1.3	8.3	1.8	4.6	0.8	5.5	0.8	29.8	2.2	71.5	1262.4	23058.6	10.3	448.2	0.72	
SMDH 00001b	148.8	16.4	56.0	9.0	1.6	5.5	0.7	4.5	0.9	2.4	0.3	3.0	0.3	25.3	1.1	15.7	607.9	11104.4	7.1	317.3		
SMDH 00001b	158.8	18.0	61.8	11.0	1.7	6.7	0.9	5.4	1.1	3.1	0.6	3.8	0.6	27.2	1.7	22.9	976.5	17836.5	11.0	457.4		1.62
SMDH 00001b	164.4	18.7	65.3	11.5	2.0	7.6	1.1	7.0	1.5	4.2	0.8	4.7	0.7	26.6	1.8	30.0	1277.2	23328.5	9.9	422.8		
SMDH 00001b	121.4	13.3	46.7	7.0	1.9	4.6	0.7	4.6	0.9	2.9	0.3	3.3	0.3	18.8	0.9	22.9	680.1	12422.1	9.3	392.5	0.71	
SMDH 00001	171.9	19.7	69.5	13.5	1.2	8.2	0.9	4.6	1.0	2.4	0.3	1.7	0.3	37.6	4.5	17.9	518.8	9476.7	18.1	745.4		
SMDH 00001	261.4	28.5	98.0	17.3	1.6	11.2	1.4	7.3	1.3	3.2	0.3	3.4	0.3	47.0	2.9	20.0	722.2	13191.5	16.2	691.2		
SMDH 00001	209.0	22.4	77.0	14.3	1.2	8.5	1.1	5.3	0.8	2.2	0.3	2.2	0.3	38.5	2.6	12.9	560.9	10246.0	14.0	611.5		
SMDH 00001	179.8	20.5	71.2	12.3	1.5	7.6	0.9	4.9	0.9	2.3	0.3	2.3	0.3	32.0	2.4	21.5	611.7	11173.3	8.4	363.0	0.85	1.45
SMDH 00001	130.8	15.0	50.2	8.9	1.4	5.8	0.8	4.0	0.7	1.9	0.3	2.3	0.3	23.3	2.0	22.9	745.5	13616.4	8.1	337.6		
SMDH 00001	117.3	13.3	45.5	8.0	1.4	5.1	0.7	3.8	0.7	1.9	0.3	2.2	0.3	19.2	2.0	22.9	715.0	13059.5	8.7	373.0		
SMDH 00001	139.7	15.6	53.7	9.4	1.4	5.6	0.7	3.3	0.6	1.5	0.3	1.7	0.3	24.1	1.9	20.0	596.2	10889.1	6.6	296.0		1.48
SMDH 00001	173.6	19.5	67.7	11.1	1.4	6.9	0.8	4.0	0.8	1.8	0.3	2.2	0.3	30.0	2.1	18.6	649.6	11865.2	9.2	407.1	0.81	
SMDH 00001	225.9	26.6	92.1	15.2	1.5	9.2	0.9	4.7	0.9	2.2	0.3	2.5	0.3	38.5	2.1	35.8	589.4	10765.7	9.2	408.1		
SMDH 00001	195.1	21.9	75.8	13.7	1.4	8.2	0.9	4.8	0.8	1.9	0.3	2.3	0.3	36.2	2.0	32.9	607.2	11090.1	9.9	441.6		1.54
SMDH 00001	176.6	19.7	70.0	12.2	1.2	7.7	0.8	4.1	0.8	1.8	0.3	2.2	0.3	31.3	2.5	27.2	655.1	11965.7	8.8	382.1		
SMDH 00001	216.6	24.6	85.1	14.8	1.3	8.9	0.9	4.5	0.8	2.1	0.3	2.5	0.3	40.1	2.5	21.5	664.7	12140.8	11.4	482.6	0.45	
SMDH 00001	234.9	26.5	91.0	14.7	1.7	8.2	0.8	3.0	0.3	0.9	0.3	0.9	0.3	43.4	1.2	15.7	627.7	11466.1	7.3	315.3		1.65
SMDH 00001	178.9	20.5	71.2	12.1	1.4	6.7	0.7	3.2	0.3	1.1	0.3	1.3	0.3	34.1	1.4	20.0	607.2	11090.1	6.8	294.6		
SMDH 00205	226.3	25.6	87.1	17.0	1.5	10.1	1.2	6.0	1.1	2.9	0.3	4.4	0.3	41.5	3.5	19.9	432.4	7897.7	13.7	545.0		
SMDH 00205	232.7	27.3	94.5	16.5	1.6	10.4	1.2	5.9	0.9	2.5	0.3	2.8	0.3	45.1	2.2	15.7	737.0	13461.4	13.4	549.6		
SMDH 00205	103.6	11.5	38.5	6.4	1.4	3.6	0.3	1.8	0.3	0.7	0.3	0.9	0.3	18.3	1.3	20.0	875.8	15996.3	17.6	741.2		
SMDH 00205	33.3	4.0	12.8	2.2	1.6	1.4	0.3	0.9	0.3	0.3	0.3	0.6	0.3	4.1	0.6	21.5	561.7	10260.4	9.0	405.8		1.62
SMDH 00205	9.8	1.0	4.5	1.2	0.3	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.1	0.6	8.9	218.2	3984.7	5.1	200.5		
SMDH 00205	107.4	11.6	40.8	7.2	1.4	4.1	0.3	2.2	0.3	0.8	0.3	0.8	0.3	22.4	1.1	15.7	508.9	9295.8	7.9	340.1		
SMDH 00205	233.8	25.1	86.3	16.8	1.6	10.1	1.3	6.7	1.3	3.0	0.6	3.8	0.6	46.3	2.8	22.9	653.8	11942.7	13.9	582.1		1.58
SMDH 00205	201.6	22.6	77.0	14.8	1.5	9.6	1.2	6.4	1.1	2.9	0.3	3.4	0.6	38.6	2.6	21.5	709.8	12964.7	11.9	490.6		
SMDH 00205	241.5	26.8	92.1	17.4	1.6	11.3	1.4	7.3	1.3	3.2	0.6	3.9	0.7	45.9	3.4	48.6	812.4	14839.4	14.3	588.0	0.36	
SMDH 00205	282.0	31.7	110.8	20.2	1.5	12.9	1.5	7.8	1.4	3.2	0.3	3.5	0.6	53.5	3.5	31.5	902.6	16487.2	15.2	673.5		1.46
SMDH 00205	239.0	27.1	92.1	17.0	1.6	10.9	1.4	7.3	1.4	3.4	0.6	3.6	0.6	45.2	2.9	27.2	850.8	15539.9	14.2	632.8		
SMDH 00205	227.4	26.0	88.6	16.9	1.6	11.2	1.5	8.7	1.7	4.1	0.7	4.3	0.7	44.2	3.2	25.7	729.8	13329.3	13.2	582.5		
SMDH 00205	196.7	22.2	77.0	14.7	1.7	9.5	1.3	7.3	1.4	3.3	0.6	3.6	0.3	37.2	2.7	30.0	690.3	12608.7	10.8	481.2	0.2	1.68
SMDH 00205	202.8	22.8	79.3	14.8	1.7	10.0	1.4	7.6	1.5	3.5	0.6	3.9	0.6	37.9	2.8	52.9	695.0	12694.9	10.7	464.9		
SMDH 00205	205.1	23.4	81.6	15.3	1.6	10.1	1.4	7.7	1.5	3.5	0.7	4.0	0.6	38.1	2.4	22.9	772.2	14104.4	11.8	513.6		
SMDH 00205	166.8	19.1	67.7	13.6	2.0	9.5	1.3	8.1	1.6	4.1	0.7	4.6	0.7	26.6	2.2	21.5	1612.0	29443.4	10.0	433.3		1.74
SMDH 00205b	230.8	23.7	81.6	16.0	0.9	9.9	1.2	5.9	0.9	2.2	0.3	2.2	0.3	49.7	2.5	17.2	706.0	12895.8	13.2	574.1	0.5	
SMDH 00205b	196.5	23.6	79.3	15.4	1.7	9.2	1.2	6.2	1.1	2.7	0.3	3.2	0.6	39.5	1.7	14.3	569.3	10398.2	11.2	461.0		
SMDH 00205b	183.0	21.3	74.6	14.5	1.5	9.0	1.2	6.4	1.3	3.1	0.3	3.6	0.6	37.6	2.1	30.0	586.4	10711.1	11.1	461.3		1.53
SMDH 00205b	158.0	18.2	61.8	11.2	1.2	6.8	0.8	4.9	1.0	2.7	0.3	3.1	0.3	31.0	1.7	44.3	494.0	9023.1	9.1	380.4		
SMDH 00205b	178.0	19.7	67.7	11.6	1.3	7.0	0.8	4.1	0.8	2.1	0.3	2.4	0.3	36.3	1.4	14.3	560.0	10228.8	8.8	378.0	0.29	

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00205b	188.2	21.7	81.6	15.3	1.4	10.4	1.3	7.3	1.5	4.0	0.7	4.8	0.8	45.4	1.9	21.5	776.6	14184.8	15.1	584.4		1.46
SMDH 00205b	171.2	19.2	66.5	12.6	1.4	7.3	0.8	3.4	0.3	1.3	0.3	1.3	0.3	39.1	1.3	20.0	777.2	14196.3	12.4	520.2		
SMDH 00205b	100.2	11.1	38.5	6.4	1.4	3.7	0.3	2.0	0.3	0.8	0.3	1.0	0.3	19.2	0.8	12.9	706.6	12907.3	14.2	590.3		
SMDH 00205b	246.2	27.5	96.8	18.7	1.5	11.4	1.3	5.3	0.7	1.6	0.3	1.3	0.3	58.5	2.2	22.9	990.7	18094.9	17.3	721.1	0.27	1.59
SMDH 00205b	345.9	39.7	140.0	27.7	1.3	17.4	2.0	8.7	1.1	2.3	0.3	1.9	0.3	79.2	4.2	47.2	1945.0	35526.7	33.3	1410.1		
SMDH 00206	167.9	20.2	70.2	13.2	1.2	7.7	0.9	4.9	1.0	2.2	0.3	2.4	0.3	34.7	2.8	19.0	235.6	4303.4	11.8	504.8		
SMDH 00206	166.7	21.1	72.3	14.4	1.7	9.0	1.3	7.2	1.4	3.2	0.6	3.5	0.3	39.0	2.4	20.0	455.6	8322.6	7.3	308.0		1.55
SMDH 00206	169.3	19.5	68.8	13.5	1.3	8.8	1.2	7.0	1.4	3.1	0.6	3.3	0.3	39.6	2.5	21.5	570.5	10421.2	9.9	407.8	0.42	
SMDH 00206	175.7	20.4	73.5	14.7	1.3	9.5	1.3	7.9	1.5	3.7	0.7	3.9	0.3	41.5	3.2	20.0	479.8	8764.7	8.7	360.7		
SMDH 00206	198.0	22.7	79.3	15.2	1.7	9.6	1.3	6.7	1.1	2.5	0.3	2.3	0.3	43.9	2.4	17.2	597.3	10909.2	8.0	339.3		1.55
SMDH 00206	179.7	20.7	74.6	13.3	1.5	8.2	0.9	4.1	0.6	1.0	0.3	0.9	0.3	38.8	2.4	44.3	616.4	11259.4	9.0	381.6		
SMDH 00206	197.0	22.8	81.6	15.8	1.5	9.8	1.2	6.3	1.1	2.5	0.3	2.5	0.3	44.8	2.5	15.7	548.8	10025.0	8.7	365.0	0.26	
SMDH 00206	157.6	18.2	64.2	12.6	1.3	8.2	1.2	6.9	1.4	3.1	0.6	3.3	0.3	35.7	2.6	31.5	544.9	9953.2	9.2	374.4		1.46
SMDH 00206	162.6	18.4	57.2	12.8	1.3	8.8	1.2	7.9	1.5	3.7	0.7	3.9	0.6	35.5	2.2	21.5	651.0	11891.0	8.3	359.0		
SMDH 00206b	240.9	26.1	84.0	16.9	1.0	10.4	1.2	5.5	1.0	2.2	0.3	2.4	0.3	50.1	2.5	12.9	488.8	8928.3	16.6	717.5		
SMDH 00206b	217.4	27.9	88.6	20.1	2.5	13.7	1.8	9.2	1.7	3.9	0.7	4.2	0.6	45.3	2.0	25.7	621.1	11345.6	10.0	413.8	1	1.42
SMDH 00206b	235.1	27.4	88.6	20.5	1.5	12.8	1.5	7.8	1.4	3.0	0.3	3.1	0.3	54.5	2.5	32.9	693.8	12671.9	11.3	473.2		
SMDH 00206b	265.5	28.9	99.1	21.0	1.5	12.7	1.4	7.1	1.3	2.9	0.3	3.1	0.3	58.5	2.2	22.9	701.5	12812.6	10.8	457.9		
SMDH 00206b	234.0	26.5	85.1	19.7	1.3	12.2	1.3	6.1	1.0	2.3	0.3	2.6	0.3	55.9	2.1	18.6	711.8	13002.0	9.3	410.9		1.45
SMDH 00206b	222.8	27.5	93.3	16.7	1.6	12.4	1.3	7.2	1.4	3.7	0.3	2.6	0.3	54.4	2.7	21.5	662.0	12092.0	11.1	455.5	0.43	
SMDH 00206b	239.9	30.4	99.1	20.3	1.4	12.2	1.4	7.7	0.9	3.7	0.3	3.6	0.3	52.9	2.4	21.5	729.9	13332.2	13.0	472.5		1.71
SMDH 00206b	288.7	34.4	119.0	20.9	1.9	13.7	1.6	5.4	1.0	3.1	0.3	2.5	0.3	69.4	2.8	25.7	786.5	14365.7	15.1	624.7		
SMDH 00206b	228.0	29.7	92.1	14.8	1.5	10.8	1.1	4.6	0.3	1.7	0.3	0.6	0.3	46.2	2.2	18.6	673.3	12298.7	12.7	490.9	0.77	
SMDH 00206b	261.4	33.1	112.0	17.0	1.6	12.6	1.4	6.1	0.8	1.8	0.3	1.5	0.3	55.3	2.4	21.5	709.2	12953.2	12.1	370.1		1.63
SMDH 00206b	266.7	33.5	114.3	22.1	1.5	13.7	1.2	8.0	1.0	2.5	0.3	2.0	0.3	44.9	2.1	21.5	701.6	12815.4	12.0	473.2		
SMDH 00206b	266.2	33.3	107.3	17.7	1.3	13.5	1.5	6.8	1.4	4.3	0.3	3.6	0.6	58.3	2.4	18.6	763.9	13952.3	15.4	607.0		
SMDH 00207	161.2	16.2	44.3	9.6	0.9	7.0	0.6	2.9	0.6	1.6	0.3	1.3	0.3	41.8	2.4	21.5	788.7	14405.9	10.3	486.4	0.77	1.26
SMDH 00207	222.3	28.5	88.6	15.1	2.3	13.0	1.3	5.5	0.7	2.6	0.3	1.9	0.3	52.9	3.3	24.3	613.6	11207.8	5.8	304.1		
SMDH 00207	196.1	24.3	81.6	16.2	1.7	11.5	1.3	6.3	1.1	3.5	0.3	3.6	0.3	54.5	4.0	21.5	673.8	12307.3	11.8	488.7		
SMDH 00207	342.4	35.9	99.1	16.0	2.2	11.8	2.0	10.2	1.5	6.1	0.3	4.1	0.6	56.1	6.7	25.7	749.1	13682.4	13.7	583.7		1.58
SMDH 00207	173.3	22.5	71.2	16.8	1.4	10.5	1.2	4.7	0.7	2.9	0.3	1.8	0.3	47.5	4.1	22.9	657.0	12000.1	11.3	523.6	0.55	
SMDH 00207	199.7	25.6	80.5	16.5	1.4	12.4	1.1	6.3	1.0	3.2	0.3	3.3	0.3	54.7	4.1	18.6	764.2	13958.0	12.3	548.3		
SMDH 00207	247.3	32.3	110.8	19.1	1.9	12.8	1.3	5.6	1.1	3.5	0.3	2.8	0.3	71.9	3.4	21.5	929.8	16983.9	18.2	789.9		1.53
SMDH 00207	251.0	31.9	101.5	17.7	1.9	12.9	1.3	6.3	1.3	4.1	0.7	3.5	0.6	47.9	2.5	18.6	711.5	12996.3	11.9	520.7		
SMDH 00207	256.1	32.9	99.1	4.5	1.9	12.8	1.2	4.6	0.9	1.7	0.3	1.4	0.3	18.8	2.2	17.2	667.7	12195.3	8.8	328.8	0.51	
SMDH 00207	262.0	31.2	91.0	3.8	1.3	10.4	1.2	4.9	0.8	3.7	0.6	2.0	0.3	18.1	2.8	18.6	643.2	11747.5	10.6	424.8		1.62
SMDH 00207	83.4	9.1	31.6	5.6	2.0	3.1	0.3	1.4	0.3	0.6	0.3	0.7	0.3	14.6	1.1	18.0	260.3	4754.1	5.8	313.7		1.67
SMDH 00207b	191.6	27.9	81.6	3.6	1.4	10.3	1.2	6.2	0.9	3.1	0.3	2.8	0.3	24.5	2.8	15.7	469.6	8578.1	19.6	833.4		
SMDH 00207b	208.1	31.2	89.8	3.8	2.0	8.5	0.8	4.0	0.8	1.8	0.3	2.2	0.3	19.9	2.6	20.0	3012.1	55016.8	13.3	541.5	1.38	1.71
SMDH 00207b	256.0	30.9	108.5	3.5	1.6	11.6	1.4	6.3	1.1	2.6	0.3	2.3	0.3	20.0	2.0	17.2	592.2	10817.3	8.7	345.8		
SMDH 00207b	398.1	46.3	159.8	5.5	2.4	10.7	1.4	5.4	1.0	2.1	0.3	1.7	0.3	22.3	1.8	40.1	575.3	10507.3	9.2	361.5		
SMDH 00207b	175.4	23.2	71.2	3.2	2.1	10.9	0.9	6.2	1.1	2.9	0.3	2.5	0.3	19.9	1.9	18.6	1027.9	18775.3	8.6	373.4		1.62
SMDH 00207b	88.6	14.9	42.0	2.3	2.4	8.1	0.9	9.3	1.7	4.2	0.3	3.6	0.6	16.3	2.7	37.2	2006.8	36654.9	7.8	343.0	0.85	
SMDH 00207b	233.3	26.3	89.8	18.2	1.5	10.7	1.3	8.5	1.1	3.5	0.6	3.1	0.3	10.6	4.0	17.2	591.9	10811.6	6.6	264.1		
SMDH 00208	203.7	23.4	74.6	13.3	2.5	9.6	1.1	5.6	1.0	3.0	0.3	2.7	0.3	52.6	3.3	17.2	535.2	9775.2	15.3	609.6		1.57
SMDH 00208	214.2	24.6	79.3	13.6	3.1	11.2	1.3	6.3	1.3	3.4	0.3	3.0	0.3	30.4	3.9	18.6	578.2	10561.8	7.0	246.7		
SMDH 00208	246.9	29.2	95.6	16.5	1.2	11.9	1.4	6.2	1.3	3.1	0.3	2.4	0.3	63.9	4.6	30.0	786.5	14365.7	15.0	622.0	1.09	
SMDH 00208	281.7	30.8	114.3	20.3	1.5	14.2	1.5	7.7	1.4	3.8	0.7	2.8	0.3	81.7	5.0	22.9	807.1	14741.8	19.1	695.9		1.44
SMDH 00208	220.0	26.9	89.8	12.9	1.5	9.8	1.3	6.2	1.3	3.4	0.3	2.4	0.3	44.9	4.4	22.9	714.2	13045.1	13.9	591.0		
SMDH 00208	124.3	14.5	45.5	9.4	1.0	5.5	0.7	4.4	0.9	2.4	0.3	1.9	0.3	25.7	2.8	17.2	514.6	9399.1	11.1	460.9		
SMDH 00208	233.3	27.1	88.6	14.7	2.0	9.5	1.2	7.0	1.0	3.0	0.3	2.0	0.3	39.9	1.9	21.5	541.5	9890.1	10.4	493.4	0.12	1.47
SMDH 00208	239.2	27.1	91.0	18.3	1.9	9.2	1.1	5.9	1.1	3.5	0.8	3.8	0.3	41.9	2.0	30.0	580.0	10593.4	12.0	506.6		
SMDH 00208	202.4	23.7	75.8	14.1	1.2	9.9	1.3	6.2	1.3	4.1	0.6	3.9	0.3	34.0	2.4	20.0	578.4	10564.7	9.4	383.8		
SMDH 00208b	184.9	19.5	71.2	13.3	1.2	6.8	0.8	3.1	0.7	2.1	0.3	2.2	0.3	38.3	2.7	12.9	459.4	8391.5	13.2	573.4		1.52
SMDH 00208b	241.0	25.3	81.6	12.8	1.0	8.3	0.9	4.8	0.9	3.0	0.3	2.8	0.3	37.9	3.1	18.6	689.2	12588.6	8.5	381.6	1.18	
SMDH 00208b	298.1	33.7	115.5	21.8	2.2	13.3	2.4	12.9	2.5	5.1	0.8	4.9	0.6	46.8	3.7	25.7	600.9	10975.2	12.1	541.4		
SMDH 00208b	238.1	26.9	85.1	17.4	1.3	11.3	1.6	9.6	1.6	4.3	0.6	4.2	0.3	41.0	2.7	21.5	560.6	10240.3	11.6	504.4		1.55
SMDH 00208b	263.2	30.2	101.5	18.8	1.6	12.0	1.5	7.9	1.4	3.8	0.3	3.2	0.3	50.5	3.1	21.5	653.8	11942.7	10.5	453.9		
SMDH 00208b	207.4	24.3	80.5	12.3	1.2	9.6	1.2	6.7	1.1	2.4	0.3	2.5	0.3	43.9	2.6	15.7	581.5	10622.1	13.3	595.0	0.75	
SMDH 00208b	224.7	26.8	84.0	17.2	1.6	11.6	1.4	9.2	1.6	3.7	0.7	4.0	0.6	31.0	2.4	20.0	546.8	9987.7	14.3	589.9		1.67
SMDH 00209	731.4	82.8	292.8	47.7	1.6	30.8	3.8	18.6	2.7	6.9	1.3	6.8	1.1	156.3	6.5	20.0	338.2	6178.1	46.1	1954.7		
SMDH 00209	183.5	20.1	65.3	12.1	1.7	7.6	0.8	4.8	0.9	2.6	0.7	3.2	0.3	29.2	2.6	21.5	726.9	13277.6	25.2	1182.5	1.31	1.48
SMDH 00209	72.5	8.7	25.7	4.6	0.9	3.7	0.3	4.6	0.7	1.0	0.3	1.7	0.3	10.6	2.0	17.2	467.7	8543.6	34.3	1588.1		
SMDH 00209	71.0	8.0	21.0	4.5	1.0	3.5	0.3	2.6	0.3	0.6	0.3	1.0	0.3	14.1	1.8	14.3	417.1	7619.2	32.0	1461.4		
SMDH 00209	101.3	12.3	38.5	6.7	0.8	5.6	0.3	1.7	0.3	0.6	0.3	0.9	0.3	18.2	1.3	17.2	650.9	11888.2	24.1	1114.4		1.58
SMDH 00209	252.6	30.4	91.0	16.6	1.4	10.3	1.4	6.5	1.1	3.1	0.6	4.3	0.3	50.8	2.6	22.9	802.4	14655.7	13.7	641.4	0.86	
SMDH 00209	340.1	40.2	137.6	22.4	2.0	16.3	2.0	11.1	1.8	5.5	0.9	5.7	0.8	68.8	3.2	42.9	803.9	14684.4	37.7	1811.4		
SMDH 00209	269.6	32.5	105.0	15.2	1.5	11.3	1.5	7.9	1.7	4.1	0.7	4.7	0.9	81.8	2.8	22.9	789.5	14420.2	36.9	1624.1		1.45
SMDH 00209	308.3	36.5	129.5	17.3	1.9	15.7	1.8	8.3	1.6	3.5	0.7	4.3	0.6	62.9	2.1	18.6	768.4	14035.5	26.2	1184.0		
SMDH 00209	467.0	49.4	191.3	20.5	1.7	12.7	1.3	8.3	1.4	3.3	0.6	3.6	0.3	66.1	2.7	37.2	1361.3	24864.4	32.9	1460.3	0.52	
SMDH 00209	205.4	24.9	80.5	13.3	1.5	11.2	1.3	8.5	1.9	4.7	0.8	6.9	1.0	42.2	2.4	20.0	829.7	15155.2	23.1	1064.2		1.36

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00209	204.7	22.7	75.8	12.9	1.4	10.1	1.5	8.8	2.1	4.9	1.0	6.0	0.8	30.7	2.0	20.0	755.5	13800.1	15.3	678.2		
SMDH 00209	291.7	35.2	110.8	19.9	1.5	10.5	1.5	8.6	1.6	4.6	0.8	4.4	0.9	59.3	2.7	24.3	1129.0	20621.3	10.0	481.3		
SMDH 00209	261.4	30.4	99.1	16.9	2.2	8.9	1.2	5.9	1.1	2.9	0.3	2.6	0.3	57.8	3.5	21.5	882.2	16114.0	10.7	518.6	0.71	1.58
SMDH 00209	296.0	33.7	103.8	18.3	1.6	11.6	1.3	6.1	1.5	4.8	0.3	3.2	0.3	74.0	4.1	25.7	1007.3	18399.2	13.1	616.1		
SMDH 00209	277.6	31.1	112.0	14.6	1.2	10.3	1.8	9.2	1.7	5.4	0.6	3.3	0.3	67.4	4.4	18.6	851.4	15551.4	23.1	1142.4		
SMDH 00209	235.6	27.9	88.6	13.9	1.5	7.7	0.9	4.1	0.7	2.5	0.3	1.5	0.3	62.0	4.1	20.0	777.7	14204.9	2.1	93.7		1.49
SMDH 00209	135.0	14.7	47.8	8.0	1.2	5.1	0.3	3.0	0.6	2.1	0.3	1.5	0.3	34.4	3.5	18.6	914.7	16708.3	2.6	108.2	0.26	
SMDH 00209b	242.9	27.4	87.5	16.6	1.3	9.6	1.2	8.0	1.7	3.2	0.3	3.9	0.3	63.0	3.8	15.7	591.0	10794.4	2.6	97.8		
SMDH 00209b	171.4	19.2	70.0	10.7	1.3	6.5	1.1	6.4	1.5	4.6	0.7	3.5	0.3	40.1	2.2	22.9	630.4	11514.9	1.4	58.2		1.39
SMDH 00209b	138.9	16.6	58.3	10.8	0.9	7.4	0.9	6.5	1.5	3.5	0.3	3.3	0.3	33.3	1.9	18.6	533.1	9737.9	7.9	309.3		
SMDH 00209b	201.9	23.7	79.3	11.8	1.2	9.5	1.2	7.3	1.5	4.3	0.6	4.3	0.3	40.4	2.7	24.3	486.0	8876.6	9.9	315.4	1.36	
SMDH 00209b	253.3	30.8	106.1	16.5	1.3	11.3	1.1	5.2	1.1	2.3	0.3	2.4	0.3	59.4	2.4	24.3	686.7	12542.7	12.6	457.9		1.45
SMDH 00209b	284.6	34.2	113.1	20.3	1.2	14.4	1.2	7.1	1.1	2.6	0.3	2.2	0.3	64.7	2.7	27.2	691.4	12628.8	14.3	478.9		
SMDH 00209b	299.5	37.3	117.8	19.9	1.7	15.1	1.9	10.0	1.8	5.9	1.0	6.8	1.0	63.5	2.8	30.0	769.8	14061.4	11.9	441.0		
SMDH 00209b	284.1	34.2	112.0	18.9	1.4	12.6	1.4	7.0	1.4	3.1	0.3	3.1	0.3	75.6	2.6	24.3	683.5	12485.3	14.9	504.0	0.51	1.35
SMDH 00209b	120.4	14.5	50.2	9.5	1.0	5.3	0.3	2.9	0.3	1.5	0.3	1.0	0.3	27.5	1.9	14.3	603.5	11024.0	11.7	456.2		
SMDH 00209b	138.3	16.6	56.0	9.4	1.5	5.6	0.6	3.2	1.0	2.3	0.3	2.5	0.3	24.1	1.9	24.3	738.4	13487.2	11.3	437.8		
SMDH 00209b	110.7	12.8	40.8	8.9	1.3	5.3	0.3	2.4	0.7	1.3	0.3	1.0	0.3	28.2	2.1	20.0	727.9	13294.9	13.4	540.6		1.45
SMDH 00209b	222.2	25.9	77.0	13.6	1.0	8.4	1.1	6.1	1.3	3.2	0.6	2.5	0.3	58.4	3.2	17.2	556.2	10159.9	16.5	607.9	0.43	
SMDH 00210	216.1	25.4	88.6	18.8	1.3	9.1	1.2	4.7	1.0	1.7	0.3	1.7	0.3	50.6	3.8	17.2	632.0	11543.7	9.8	368.5		
SMDH 00210	121.2	15.6	51.3	11.1	1.5	7.4	0.7	4.6	1.3	3.3	0.6	2.7	0.3	27.8	3.3	21.5	548.5	10019.2	10.7	387.9		1.47
SMDH 00210	212.1	18.6	71.2	8.3	1.5	5.3	0.9	6.3	1.7	5.5	0.7	4.6	0.8	20.4	3.3	48.6	520.7	9511.1	17.5	647.2		
SMDH 00210	186.0	20.3	70.0	15.3	1.3	8.4	1.2	8.0	1.7	5.8	1.1	5.1	0.7	43.2	4.1	24.3	684.6	12505.4	13.7	471.3	0.73	
SMDH 00210	152.0	17.3	52.5	12.5	1.3	7.7	1.3	7.7	1.6	4.0	0.9	4.2	0.7	30.2	4.1	24.3	537.7	9821.2	10.7	443.6		1.6
SMDH 00210	65.6	7.9	19.8	5.5	1.5	3.1	0.9	9.3	2.2	4.9	0.9	5.0	0.7	9.0	2.0	24.3	471.4	8609.7	11.1	495.2		
SMDH 00210	62.4	6.0	15.2	4.9	1.4	4.8	0.9	8.7	2.4	5.7	1.1	8.8	2.0	24.6	1.7	25.7	634.2	11583.8	15.7	540.9		
SMDH 00210	207.8	25.4	84.0	17.2	1.5	9.3	1.2	6.5	1.3	3.1	0.6	3.4	0.3	47.7	3.9	20.0	592.5	10823.1	17.1	615.4	0.68	1.55
SMDH 00210	243.7	28.4	96.8	16.8	1.3	9.9	0.8	5.6	1.1	3.0	0.3	3.2	0.6	48.8	2.2	21.5	622.6	11371.4	10.4	397.8		
SMDH 00210	218.0	25.0	93.3	13.2	1.3	9.0	0.9	6.4	1.1	3.1	0.6	4.8	0.9	43.5	2.5	25.7	665.9	12163.8	15.3	577.1		
SMDH 00210	229.1	26.9	81.6	15.0	1.5	8.9	0.9	4.4	0.8	1.6	0.3	1.4	0.3	47.0	2.2	21.5	632.6	11555.1	14.9	508.2	0.56	
SMDH 00210b	273.0	30.8	105.0	16.2	1.4	11.8	1.2	7.5	1.3	1.9	0.3	1.7	0.3	59.4	3.2	12.9	522.4	9542.7	20.2	727.0		
SMDH 00210b	334.1	53.5	197.1	31.1	1.9	20.7	2.1	8.8	1.6	3.9	0.3	4.0	0.3	62.7	4.5	20.0	637.6	11647.0	12.7	637.7		1.43
SMDH 00210b	182.8	21.5	74.6	11.1	1.5	8.2	1.1	5.3	1.1	3.0	0.3	2.8	0.6	63.7	3.5	18.6	604.6	11044.1	11.7	541.0		
SMDH 00210b	198.1	22.7	73.5	14.0	1.4	8.3	0.7	4.2	0.8	1.6	0.3	1.5	0.3	199.5	3.7	20.0	581.1	10613.5	18.8	964.2	0.7	
SMDH 00210b	191.4	22.5	67.7	12.1	1.6	7.6	0.8	3.2	0.3	0.9	0.3	0.6	0.3	54.8	4.1	17.2	466.5	8520.7	13.2	596.2		1.61
SMDH 00210b	243.0	26.6	93.3	13.3	1.6	9.3	1.2	4.2	0.8	2.1	0.3	3.2	0.3	79.5	4.5	22.9	684.6	12505.4	16.4	860.3		
SMDH 00210b	205.0	22.8	75.8	13.7	1.6	9.1	0.8	4.7	0.7	1.9	0.3	2.3	0.3	65.3	3.2	18.6	658.1	12020.2	13.4	646.1		
SMDH 00210b	334.1	31.7	107.3	17.7	1.9	12.0	1.3	6.8	1.6	4.0	0.6	4.9	0.8	66.7	3.7	24.3	780.5	14256.6	15.9	776.8	0.5	1.61
SMDH 00210b	243.8	27.8	94.5	18.1	1.6	11.4	1.3	7.0	1.4	3.2	0.7	3.8	0.7	73.3	5.2	22.9	863.7	15775.3	18.3	826.0		
SMDH 00210b	482.6	52.8	221.6	28.8	3.5	11.3	1.8	5.4	1.1	2.1	0.3	3.0	0.3	37.2	2.4	58.7	684.5	12502.5	15.7	418.3		
SMDH 00210b	200.5	24.9	84.0	15.0	1.3	8.1	1.3	4.6	0.6	1.3	0.3	0.8	0.3	38.7	2.2	21.5	758.4	13851.8	20.6	526.7		1.42
SMDH 00210b	199.1	25.0	95.6	15.2	1.2	8.3	1.4	4.5	0.8	1.6	0.3	2.3	0.3	50.2	3.3	22.9	738.9	13495.8	21.8	619.5	0.49	
SMDH 00210b	221.6	27.1	94.5	13.5	1.7	8.4	1.3	4.9	0.8	1.5	0.3	1.9	0.3	48.0	3.5	30.0	643.8	11759.0	17.1	495.3		
SMDH 00210b	177.5	22.7	75.8	13.2	1.3	8.4	1.6	6.0	1.0	2.1	0.3	2.3	0.3	41.2	3.4	21.5	633.2	11566.6	17.9	526.4		1.42
SMDH 00211	291.9	31.2	107.3	18.4	1.4	11.4	1.5	8.0	1.6	3.5	0.6	3.6	0.6	56.2	4.0	21.5	370.6	6769.4	14.5	531.5		
SMDH 00211	143.1	16.6	53.7	8.9	1.2	6.3	1.2	5.5	1.4	2.4	0.3	3.3	0.3	80.9	3.5	28.6	589.6	10768.5	16.9	408.2	1.18	
SMDH 00211	164.5	19.2	68.8	9.9	1.5	7.3	1.6	8.3	1.9	3.8	0.6	4.8	0.7	50.1	2.6	25.7	704.1	12861.4	13.6	395.0		1.6
SMDH 00211	69.3	8.6	22.2	5.3	1.5	3.0	0.8	4.7	1.1	2.6	0.3	3.8	0.3	15.4	1.5	22.9	648.3	11842.2	16.3	434.4		
SMDH 00211	94.5	6.4	19.8	4.2	1.2	2.8	1.1	5.0	1.3	2.6	0.3	3.9	0.3	9.9	3.1	8.6	544.8	9950.3	12.5	312.4		
SMDH 00211	312.6	18.1	82.8	11.0	2.2	4.4	1.4	7.0	1.6	3.7	0.3	6.4	0.3	8.1	3.2	15.7	533.9	9752.3	10.3	294.9	0.53	1.58
SMDH 00211	65.6	4.1	12.8	4.1	1.5	1.7	1.3	6.7	1.7	4.2	0.7	8.8	0.3	6.4	3.4	10.0	495.6	9051.8	15.3	423.1		
SMDH 00211	51.1	3.7	10.5	2.7	1.2	2.3	1.4	6.2	1.8	4.6	1.0	8.7	0.6	11.4	3.1	7.2	533.9	9752.3	17.1	478.6		
SMDH 00211	163.1	11.7	42.0	8.8	1.0	3.8	1.3	3.6	1.0	1.8	0.3	3.6	0.3	64.5	3.2	8.6	572.4	10455.6	18.0	503.0		1.58
SMDH 00211	196.2	14.6	49.0	10.4	0.7	4.7	1.4	4.1	0.9	1.7	0.3	3.6	0.3	78.5	3.7	8.6	692.0	12640.3	15.6	421.4	0.56	
SMDH 00211	119.3	8.3	29.2	7.8	1.2	3.2	0.6	2.3	0.3	0.9	0.3	2.2	0.3	48.8	2.8	5.7	546.3	9979.0	14.4	405.9		
SMDH 00211b	174.7	12.2	51.3	11.1	0.8	5.1	1.4	4.1	0.8	1.7	0.3	3.2	0.3	51.8	3.7	10.0	767.9	14026.9	15.2	437.9		1.29
SMDH 00211b	250.5	19.3	68.8	14.0	1.0	6.9	1.6	5.2	1.1	2.3	0.3	4.3	0.3	71.6	4.4	10.0	623.7	11391.5	16.6	436.0		
SMDH 00211b	153.2	12.4	47.8	11.9	1.0	4.6	1.3	3.8	0.8	1.3	0.3	3.1	0.3	70.5	3.1	7.2	570.1	10412.5	18.4	481.2	1.08	
SMDH 00211b	185.0	15.1	54.8	12.8	0.8	5.6	1.1	2.8	0.3	0.9	0.3	1.7	0.3	61.9	2.7	5.7	700.4	12792.5	16.9	521.8		1.52
SMDH 00211b	196.3	15.2	57.2	15.3	0.9	5.6	1.5	4.4	1.0	2.2	0.3	4.9	0.3	59.1	3.4	8.6	669.7	12232.7	15.4	445.2		
SMDH 00211b	180.3	14.7	59.5	10.1	0.9	4.5	1.1	3.6	0.7	1.5	0.3	4.2	0.3	51.5	2.6	10.0	616.1	11253.7	12.5	405.8		
SMDH 00211b	172.6	13.0	47.8	10.3	1.2	4.4	1.3	3.0	0.6	1.3	0.3	1.9	0.3	61.2	2.9	7.2	599.1	10943.7	17.8	484.8	0.55	1.6
SMDH 00211b	154.4	12.2	47.8	9.7	0.9	4.4	0.9	3.1	0.7	1.5	0.3	2.7	0.3	54.6	2.6	5.7	545.5	9964.7	14.2	454.4		
SMDH 00211b	163.4	13.8	51.3	13.1	1.0	5.0	1.4	3.1	0.8	1.3	0.3	3.6	0.3	41.4	2.7	5.7	574.6	10495.8	10.3	349.5		
SMDH 00211b	221.6	27.7	84.0	18.3	1.4	11.9	1.6	9.6	1.7	5.8	0.6	4.6	1.5	45.6	3.3	27.2	525.1	9591.5	10.1	440.1		1.58
SMDH 00211b	202.8	24.5	80.5	15.1	1.5	9.8	1.2	7.1	1.3	3.5	0.3	3.3	1.1	51.4	2.8	31.5	479.1	8750.3	12.1	531.7	0.46	
SMDH 00211b	219.0	26.8	89.8	17.4	1.6	11.1	1.5	8.0	1.4	4.7	0.3	3.8	1.5	39.7	2.9	18.6	618.6	11299.6	7.3	300.4		
SMDH 00211b	273.3	32.6	106.1	18.8	2.2	12.1	2.2	9.5	1.6	6.6	0.7	4.4	1.9	54.5	3.5	32.9	748.8	13676.7	12.4	485.2		1.53
SMDH 00211b	289.0	35.3	117.8	21.9	2.2	12.6	2.0	8.5	1.7	5.3	0.6	4.7	2.2	49.2	4.6	31.5	761.3	13906.4	11.2	482.4		
SMDH 00211b	313.0	38.2	127.1	19.1	1.9	14.9	2.0	12.5	1.9	5.3	0.8	4.9	1.9	59.6	4.2	28.6	855.0	15617.4	18.2	674.5		1.6
SMDH 00211b	323.2	37.0	122.5	22.5	2.0	14.9	2.5	8.7	1.3	5.3	0.6	3.3	1.5	64.1	3.1	22.9	739.2	13501.6	13.8	562.2		

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00211b	192.4	26.0	78.1	14.1	2.8	7.5	0.8	3.4	0.6	1.8	0.3	0.8	0.7	44.6	2.4	20.0	514.9	9404.9	11.7	458.2		
SMDH 00211b	215.6	28.2	81.6	14.8	1.7	7.6	0.9	6.0	0.7	1.6	0.3	0.6	0.9	49.0	2.9	18.6	496.8	9074.7	12.7	525.9	0.43	1.55
SMDH 00212	348.5	47.6	145.8	22.3	2.7	16.1	2.2	13.4	2.7	12.0	1.1	6.9	2.2	63.6	4.5	31.5	643.6	11756.1	16.4	624.7		
SMDH 00212	233.3	31.7	94.5	15.5	1.9	10.8	1.5	8.1	1.6	5.6	0.7	3.0	1.6	57.2	3.8	27.2	670.0	12238.4	14.2	526.9		
SMDH 00212	261.9	35.5	120.1	16.8	1.6	10.1	1.3	8.6	1.7	5.9	0.6	2.5	1.7	54.6	3.2	28.6	726.1	13263.3	11.7	503.3		1.52
SMDH 00212	273.3	38.2	110.8	14.8	2.0	12.8	1.2	7.7	1.9	4.6	0.6	1.9	1.0	57.7	3.1	24.3	670.0	12238.4	12.1	521.7	0.67	
SMDH 00212	266.8	36.6	109.6	15.1	1.3	10.8	2.0	9.3	2.1	6.5	0.7	2.7	1.3	51.3	3.1	27.2	772.3	14107.3	11.9	477.1		
SMDH 00212	246.9	28.2	95.6	19.5	1.7	10.9	1.4	9.3	1.7	3.8	0.7	3.6	1.1	50.5	4.8	30.0	764.2	13958.0	13.1	562.9		1.53
SMDH 00212	212.4	26.0	81.6	15.7	1.6	9.5	1.3	8.6	1.8	3.7	0.9	4.1	1.4	49.7	2.9	28.6	638.7	11667.1	10.8	531.5		
SMDH 00212	241.9	26.8	94.5	17.5	1.5	11.2	1.9	16.0	4.1	9.3	1.9	10.1	1.5	47.1	3.5	30.0	786.5	14365.7	12.9	543.0	0.43	
SMDH 00212	237.0	26.0	93.3	17.2	1.5	11.3	2.1	17.6	4.7	11.1	2.3	12.5	1.7	44.2	3.5	32.9	625.1	11417.3	14.9	623.7		1.54
SMDH 00212b	287.7	30.6	107.3	19.1	1.6	11.8	1.5	9.1	1.8	3.8	0.7	3.4	0.3	54.3	3.5	20.0	692.0	12640.3	17.2	755.8		
SMDH 00212b	169.2	21.1	74.6	13.3	1.5	8.8	1.2	8.1	1.8	3.9	0.7	3.5	0.3	32.7	2.1	20.0	527.2	9628.8	7.2	307.6		
SMDH 00212b	229.8	25.3	89.8	16.7	1.5	10.1	1.4	9.4	2.1	4.3	0.8	4.2	0.6	44.6	3.4	24.3	655.9	11980.0	9.8	420.0	0.85	1.55
SMDH 00212b	234.1	26.0	92.1	17.2	1.3	10.0	1.5	10.0	2.3	4.7	0.9	4.6	0.6	45.3	3.2	25.7	736.7	13455.6	11.2	477.5		
SMDH 00212b	206.7	22.7	79.3	14.4	1.3	8.5	1.2	7.1	1.6	3.2	0.6	3.1	0.3	40.6	2.2	20.0	806.5	14730.3	9.9	434.8		
SMDH 00212b	256.4	27.8	96.8	17.6	1.7	10.3	1.4	8.1	1.7	3.3	0.6	3.3	0.3	46.3	2.8	35.8	1295.9	23670.1	14.5	641.6		1.65
SMDH 00212b	249.7	27.3	95.6	16.1	1.9	9.5	1.2	5.9	1.1	2.2	0.3	1.8	0.3	45.7	2.4	21.5	810.2	14799.2	11.7	492.6	0.7	
SMDH 00212b	242.4	27.7	93.3	16.0	2.1	8.5	1.1	5.0	0.7	1.3	0.3	0.9	0.3	44.4	1.8	22.9	609.0	11124.5	10.4	440.9		
SMDH 00213	344.6	41.3	138.8	24.8	2.3	13.7	1.8	9.5	1.6	3.3	0.6	3.5	0.3	63.2	4.0	31.5	436.5	7972.3	17.5	741.2		1.45
SMDH 00213	192.7	22.6	75.8	14.7	1.6	8.5	1.2	7.3	1.4	3.0	0.6	3.6	0.3	41.2	2.7	24.3	817.8	14937.0	11.0	458.9		
SMDH 00213	162.3	18.6	63.0	12.4	1.6	7.0	1.1	6.3	1.3	2.9	0.6	3.5	0.3	35.3	2.7	42.9	463.0	8457.5	9.3	386.5	0.77	
SMDH 00213	180.2	20.7	70.0	13.7	1.5	7.5	1.1	6.2	1.1	2.4	0.3	2.8	0.3	39.5	2.7	27.2	406.1	7418.3	8.6	346.6		1.48
SMDH 00213	156.9	17.4	57.2	11.5	1.5	6.5	0.8	4.9	0.9	1.9	0.3	2.2	0.3	34.0	2.5	22.9	374.1	6832.6	9.0	363.8		
SMDH 00213	187.2	21.3	71.2	13.8	1.5	7.7	0.9	5.4	0.9	1.9	0.3	2.2	0.3	37.8	2.5	21.5	403.1	7363.7	9.6	392.5		
SMDH 00213	232.5	26.2	87.5	16.7	1.6	9.2	1.3	7.2	1.1	2.4	0.3	2.5	0.3	47.2	4.0	24.3	603.4	11021.2	12.1	550.9	0.52	1.52
SMDH 00213	212.1	23.9	84.0	15.9	2.4	9.5	1.3	10.1	1.9	3.5	0.6	3.0	0.3	42.3	3.2	21.5	517.1	9445.1	12.4	373.9		
SMDH 00213	215.3	24.5	87.5	15.4	2.5	9.5	1.1	7.7	1.4	2.5	0.3	2.0	0.3	43.8	2.5	25.7	502.5	9178.1	13.1	387.1		
SMDH 00213	209.2	23.9	85.1	15.3	2.4	9.0	1.2	7.8	1.3	2.2	0.3	1.7	0.3	44.8	2.9	24.3	520.1	9499.6	14.9	438.5		1.63
SMDH 00213b	267.4	28.3	101.2	17.2	1.6	11.4	1.5	8.8	1.9	3.9	0.8	4.4	0.7	51.8	4.7	28.3	424.5	7754.1	14.1	572.6		
SMDH 00213b	262.3	30.9	108.5	18.7	2.8	11.6	1.6	13.0	2.4	4.2	0.7	3.3	0.3	48.2	5.1	41.5	541.9	9898.7	17.2	507.5		
SMDH 00213b	277.0	32.0	110.8	18.9	2.7	11.9	1.6	13.8	2.7	5.3	0.8	4.2	0.6	46.5	4.7	62.9	439.8	8032.6	15.7	454.9		1.45
SMDH 00213b	224.3	25.6	82.8	16.8	1.5	11.8	1.5	9.8	2.1	5.3	0.7	5.5	0.7	42.2	4.0	28.6	663.0	12109.2	11.2	445.5		
SMDH 00213b	230.8	26.9	89.8	14.0	2.0	11.3	1.5	9.2	1.6	4.0	0.7	2.8	0.3	52.5	4.4	30.0	683.1	12476.7	14.7	500.5	0.76	
SMDH 00213b	412.1	51.0	158.6	28.6	3.6	16.6	2.8	11.9	1.8	6.2	1.1	4.9	0.9	49.5	4.4	32.9	691.9	12637.4	11.4	420.5		1.58
SMDH 00213b	198.6	22.8	74.6	13.8	1.5	9.0	1.2	7.9	1.5	3.4	0.6	3.9	0.6	51.8	6.0	24.3	669.7	12232.7	16.4	504.7		
SMDH 00213b	240.9	26.3	87.5	15.0	2.0	10.5	1.5	7.6	1.3	3.1	0.3	2.6	0.3	54.3	4.5	24.3	951.7	17383.0	16.6	653.0		
SMDH 00213b	315.0	83.2	264.8	33.9	4.3	16.4	2.1	10.0	1.9	4.6	0.6	3.5	0.3	44.6	3.8	88.7	772.7	14113.1	14.7	542.8	0.84	1.62
SMDH 00213b	244.8	29.1	96.8	17.5	1.9	12.7	1.5	8.7	1.6	4.5	0.7	4.9	0.3	36.1	3.4	24.3	537.5	9818.3	12.4	350.3		
SMDH 00213b	211.3	23.7	86.4	14.5	1.9	8.6	1.2	6.7	1.6	2.9	0.3	3.1	0.6	38.3	3.1	24.0	354.9	6482.4	9.1	540.0		
SMDH 00213b	168.5	19.3	57.2	12.2	1.7	9.8	1.1	5.7	1.4	3.5	0.6	3.4	0.3	35.0	2.2	15.7	565.8	10335.0	16.5	548.4	0.48	
SMDH 00213b	237.6	28.2	89.8	17.4	2.0	11.6	1.4	8.7	1.6	3.8	0.7	4.4	0.7	49.7	3.3	22.9	909.6	16613.6	14.5	377.4		
SMDH 00214	285.1	32.6	105.0	21.9	1.6	14.1	1.4	8.8	1.5	4.9	0.6	4.0	0.8	45.7	3.9	24.3	527.6	9637.4	13.9	400.6		1.42
SMDH 00214	248.3	26.2	84.0	15.2	1.2	10.5	1.1	5.9	1.4	3.1	0.3	3.4	0.3	45.3	2.9	20.0	696.0	12712.1	14.3	402.0		
SMDH 00214	222.2	26.0	85.1	16.6	1.7	10.5	1.3	6.9	1.5	3.7	0.3	4.8	0.3	44.7	3.7	18.6	587.0	10722.6	12.0	337.7	0.42	
SMDH 00214	211.2	24.3	73.5	15.9	1.5	8.9	1.3	6.8	1.5	5.4	0.7	4.7	0.6	37.2	2.8	20.0	605.4	11058.5	12.3	342.2		1.48
SMDH 00214	190.3	22.0	74.6	13.3	1.5	10.4	1.2	8.0	1.8	4.9	0.8	5.5	0.7	45.1	3.3	20.0	633.7	11575.2	12.4	360.3		
SMDH 00214	216.6	25.5	74.6	13.3	1.4	10.3	1.1	6.7	1.3	3.5	0.6	4.3	0.3	50.8	2.9	20.0	680.2	12425.0	15.8	458.1		
SMDH 00214	187.0	21.6	70.0	14.1	1.3	8.8	0.8	7.0	1.7	5.6	0.3	5.8	0.7	45.4	3.2	18.6	590.0	10777.1	12.1	365.4	0.36	1.51
SMDH 00214	193.5	22.6	74.6	14.0	1.4	9.9	1.2	7.2	1.6	4.7	0.6	4.8	0.7	40.1	3.9	24.3	576.2	10524.5	12.9	380.4		
SMDH 00214b	197.3	20.5	74.6	13.6	1.4	9.6	0.9	5.5	1.4	3.4	0.7	4.0	0.3	32.0	6.5	15.7	440.1	8038.4	15.7	470.8		
SMDH 00214b	357.2	39.6	135.3	20.1	1.9	15.1	1.4	8.0	1.6	4.1	0.7	4.1	0.3	67.2	6.3	22.9	648.3	11842.2	18.5	552.2		1.51
SMDH 00214b	376.3	43.1	147.0	27.4	1.7	18.1	1.8	9.1	1.7	4.7	0.3	3.3	0.6	86.9	5.9	17.2	613.6	11207.8	14.5	435.6	1.27	
SMDH 00214b	242.0	26.8	89.8	16.2	1.4	11.9	1.6	10.4	2.1	6.3	0.9	5.9	1.0	32.9	4.2	27.2	426.3	7785.7	11.1	305.3		
SMDH 00214b	204.8	23.8	74.6	12.8	1.3	11.5	1.3	8.6	2.1	5.7	0.9	5.5	0.8	45.6	3.7	24.3	752.5	13745.6	13.2	381.6		1.52
SMDH 00214b	235.2	26.7	86.3	18.0	2.3	11.5	15.4	10.2	2.2	7.1	1.1	7.3	0.8	43.0	3.5	31.5	852.7	15574.3	13.8	390.9		
SMDH 00214b	184.1	20.9	71.2	15.8	1.4	9.2	15.2	11.4	2.4	7.8	1.3	6.7	1.1	37.9	3.3	25.7	791.8	14463.3	10.7	317.8	0.76	
SMDH 00214b	174.8	20.5	63.0	13.8	0.7	8.8	9.6	7.3	1.9	5.5	0.9	5.7	0.8	35.7	2.6	21.5	719.1	13134.1	12.3	379.8		1.46
SMDH 00215	191.8	21.0	66.5	10.4	1.9	7.0	5.2	3.1	0.8	1.9	0.3	1.6	0.3	33.8	1.7	27.2	528.6	9654.6	12.3	334.3		
SMDH 00215	297.5	35.4	117.8	19.5	1.6	10.7	10.0	4.2	0.7	1.8	0.3	1.1	0.3	20.0	2.0	17.2	514.7	9402.0	10.4	311.8		
SMDH 00215	77.1	6.9	21.0	5.3	0.9	3.2	2.6	1.6	0.3	0.9	0.3	0.8	0.3	12.1	1.3	8.6	357.6	6531.2	5.9	141.7	0.91	1.69
SMDH 00215	146.9	16.8	53.7	10.8	1.4	6.2	6.7	3.0	0.7	2.1	0.3	1.9	0.3	35.3	1.5	12.9	622.7	11374.3	9.1	244.4		
SMDH 00215	201.9	23.2	77.0	15.1	0.9	8.0	0.7	4.8	1.0	3.2	0.3	2.3	0.3	44.9	2.5	11.4	697.7	12743.7	8.4	342.7		
SMDH 00215	161.2	19.2	64.2	11.9	1.3	6.1	0.7	4.6	0.8	2.3	0.3	2.4	0.3	32.9	2.8	10.0	587.4	10728.3	6.0	246.7		1.58
SMDH 00215	207.8	24.9	79.3	13.6	0.8	10.7	0.8	6.4	1.4	3.9	0.8	4.2	0.9	42.0	3.4	17.2	754.9	13788.7	8.5	322.0	0.45	
SMDH 00215	126.9	14.1	44.3	11.0	1.3	5.4	0.6	3.0	0.6	1.9	0.3	1.7	0.3	25.0	3.3	21.5	699.6	12778.1	6.8	310.8		
SMDH 00215b	251.3	28.3	100.3	18.9	1.2	12.0	1.6	6.5	1.3	3.0	0.3	2.4	0.3	47.0	5.3	17.2	409.9	7487.2	9.8	433.7		1.53
SMDH 00215b	200.4	23.4	75.8	15.3	1.5	10.0	0.9	4.8	0.9	2.4	0.3	1.8	0.3	39.4	4.2	32.9	504.5	9215.4	9.0	391.5		
SMDH 00215b	157.6	18.2	56.0	10.4	1.5	6.9	0.6	2.9	0.3	0.7	0.3	0.6	0.3	29.0	3.4	18.6	455.3	8316.8	8.4	340.8	2.13	
SMDH 00215b	36.0	2.7	7.0	1.6	0.3	1.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	32.4	0.3	18.6	315.1	5756.0	9.3	341.3		1.64
SMDH 00215b	460.8	43.9	173.8	23.9	2.1	9.0	0.8	3.4	0.3	0.9	0.3	0.6	0.3	32.9	2.9	54.4	381.1	6961.8	9.8	210.9		

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00215b	161.5	25.4	108.5	20.5	0.9	6.6	0.7	3.9	0.3	2.2	0.3	2.4	0.3	18.1	3.5	42.9	87.2	1593.3	13.9	316.4		
SMDH 00215b	114.1	20.5	74.6	19.2	0.9	6.5	0.7	2.9	0.3	0.9	0.3	0.9	0.3	29.5	3.5	22.9	440.2	8041.2	19.5	383.1	0.53	1.45
SMDH 00215b	152.3	28.8	99.1	24.7	0.9	7.8	1.1	4.1	0.3	1.6	0.3	2.0	0.3	29.7	4.6	28.6	412.1	7527.3	14.2	296.0		
SMDH 00216	117.8	24.6	79.3	19.7	1.0	7.6	0.8	4.2	0.3	1.6	0.3	2.0	0.3	33.8	5.0	14.3	213.8	3904.3	20.3	421.9		
SMDH 00216	213.7	43.5	159.8	37.7	1.2	11.6	1.5	6.7	0.3	2.2	0.3	2.2	0.3	59.2	5.9	14.3	204.0	3726.4	16.7	410.1		1.73
SMDH 00216	320.6	61.4	217.0	54.8	1.5	16.6	2.0	9.1	0.3	2.9	0.3	2.4	0.3	66.8	6.6	10.0	166.0	3031.6	12.3	260.4	0.57	
SMDH 00216	181.1	31.8	91.0	27.9	1.0	9.9	1.3	5.6	0.3	2.3	0.3	2.3	0.3	48.2	4.4	21.5	514.9	9404.9	16.2	243.8		
SMDH 00216	136.6	15.1	52.6	9.5	1.0	6.5	0.8	4.1	0.7	1.5	0.3	1.3	0.3	23.6	2.9	23.0	263.3	4808.7	20.4	400.1		
SMDH 00216	148.6	16.8	57.2	10.7	1.5	7.0	0.8	4.9	0.8	2.2	0.3	2.4	0.3	24.7	2.4	18.6	432.1	7891.9	9.9	387.0	0.41	
SMDH 00216	120.4	13.7	47.8	8.8	1.5	5.2	0.6	3.0	0.6	1.4	0.3	1.1	0.3	21.7	1.9	15.7	508.1	9281.4	12.0	464.5		1.58
SMDH 00216	137.6	15.6	51.3	9.5	1.5	5.3	0.8	3.7	0.3	1.5	0.3	1.9	0.3	17.3	2.2	21.5	344.8	6298.6	10.3	431.2		
SMDH 00216	136.2	15.7	52.5	10.2	1.5	6.0	0.7	3.4	0.6	1.1	0.3	1.5	0.3	21.1	2.2	20.0	516.6	9436.5	8.5	386.3		
SMDH 00216	134.1	15.6	54.8	10.4	1.3	5.8	0.7	3.2	0.3	1.3	0.3	1.0	0.3	29.6	2.2	24.3	595.4	10874.8	13.2	577.1	0.34	1.55
SMDH 00216	141.0	16.2	54.8	10.2	1.5	6.7	0.8	4.0	0.6	1.5	0.3	1.6	0.3	22.4	2.4	30.0	713.6	13033.6	15.8	721.2		
SMDH 00216	144.6	15.9	56.0	10.1	1.3	6.2	0.7	4.0	0.8	1.5	0.3	1.7	0.3	26.6	2.2	21.5	622.4	11368.5	13.6	702.0		
SMDH 00216	101.0	14.5	64.2	13.2	1.2	5.0	0.3	2.4	0.3	0.9	0.3	1.3	0.3	28.2	2.1	20.0	836.0	15270.0	17.7	239.4		1.56
SMDH 00216	157.6	27.4	115.5	22.8	1.6	8.1	0.9	4.4	0.7	1.6	0.3	1.4	0.3	48.2	3.4	22.9	708.7	12944.6	18.0	263.0	0.16	
SMDH 00216b	155.3	16.3	60.1	11.0	1.4	6.3	0.8	3.8	0.7	1.5	0.3	1.7	0.3	27.2	2.9	16.9	296.7	5420.2	14.3	295.8		1.59
SMDH 00216b	33.0	7.2	31.5	7.0	0.8	2.8	0.3	2.2	0.3	1.0	0.3	1.3	0.3	8.3	3.2	18.6	490.9	8965.6	7.9	111.4		1.35
SMDH 00216b	9.8	2.7	10.5	3.7	0.6	1.3	0.3	1.4	0.3	0.9	0.3	1.1	0.3	2.3	4.4	7.2	427.2	7802.9	7.9	98.5		
SMDH 00216b	66.8	12.3	52.5	9.6	1.4	3.6	0.3	1.7	0.3	0.8	0.3	0.9	0.3	19.6	2.6	11.4	621.0	11342.7	53.5	1025.9	0.54	
SMDH 00216b	63.6	11.5	45.5	9.0	0.8	3.2	0.3	2.0	0.3	0.8	0.3	0.7	0.3	24.5	2.5	11.4	496.5	9069.0	50.6	894.4		1.77
SMDH 00216b	76.8	12.3	51.3	9.3	0.9	3.1	0.3	1.7	0.3	0.8	0.3	0.8	0.3	29.6	2.1	8.6	510.7	9327.4	45.6	805.8		
SMDH 00216b	144.8	17.6	60.1	10.1	1.4	6.6	0.9	4.7	1.0	2.6	0.3	1.6	0.3	27.1	4.4	18.5	352.9	6445.0	12.3	58.2		1.6
SMDH 00216b	87.6	11.1	45.5	8.1	1.2	5.3	0.7	4.5	0.8	1.8	0.3	2.4	0.3	21.1	2.6	14.3	771.6	14093.0	31.0	710.1	0.67	1.55
SMDH 00216b	124.2	13.8	45.5	8.1	1.2	7.1	0.8	5.0	0.9	2.3	0.3	2.5	0.3	25.0	2.6	18.6	564.9	10317.8	41.2	1169.5		
SMDH 00216b	121.0	14.4	51.3	8.9	1.6	6.7	0.8	4.2	0.8	1.7	0.3	2.3	0.3	26.3	2.7	18.6	874.4	15970.5	44.5	1122.8		
SMDH 00216b	91.0	11.4	39.7	8.1	1.3	6.7	0.8	5.0	1.0	2.6	0.3	3.3	0.3	18.4	2.0	20.0	801.0	14629.8	33.1	772.9		1.45
SMDH 00216b	109.9	13.5	45.5	8.3	1.6	6.8	0.9	5.3	0.9	2.9	0.3	1.9	0.3	18.5	1.5	21.5	545.1	9956.1	6.7	792.8	0.83	
SMDH 00216b	125.8	14.6	51.3	10.2	1.7	9.0	1.2	7.8	1.4	4.3	0.6	3.5	0.7	20.8	2.2	25.7	774.7	14150.4	7.9	637.0		
SMDH 00216b	132.8	15.2	50.2	10.3	1.4	6.6	0.9	4.7	1.0	3.2	0.3	2.6	0.3	24.0	2.7	20.0	585.2	10688.1	12.9	715.7		1.54
SMDH 00216b	147.2	17.6	56.0	11.6	1.4	7.4	0.9	4.0	0.3	1.6	0.3	1.0	0.3	27.2	2.5	22.9	663.3	12115.0	6.5	399.0		
SMDH 00217	136.5	14.7	54.0	9.3	1.7	5.5	0.7	3.6	0.7	1.5	0.3	1.4	0.3	20.5	2.4	22.6	414.9	7579.0	22.5	415.1		
SMDH 00217	378.2	38.9	116.6	16.6	2.8	9.9	0.9	3.7	0.6	1.7	0.3	1.0	0.3	31.3	2.2	48.6	771.4	14090.1	9.9	490.3		1.41
SMDH 00217	182.0	19.6	64.5	12.5	1.6	7.8	1.1	5.6	1.1	2.1	0.3	2.3	0.3	32.1	4.4	28.8	439.8	8032.6	3.1	398.8		
SMDH 00217	136.1	15.3	50.2	9.5	1.2	6.2	0.9	5.2	1.0	3.5	0.3	2.4	0.3	24.2	2.8	18.6	374.7	6844.1	9.6	452.9		
SMDH 00217	155.5	17.3	56.0	10.4	1.4	7.1	0.8	4.0	0.7	1.7	0.3	1.3	0.3	27.7	2.8	21.5	563.0	10283.4	9.2	459.5	0.74	1.51
SMDH 00217	179.2	21.1	65.3	11.8	1.4	7.5	0.9	3.7	0.6	1.5	0.3	0.8	0.3	33.2	3.1	21.5	623.2	11382.9	6.6	322.2		
SMDH 00217	121.6	13.0	47.8	8.9	1.5	5.0	0.6	3.2	0.3	1.4	0.3	1.0	0.3	19.8	1.9	24.3	595.5	10877.6	8.6	427.5		
SMDH 00217	112.5	12.6	43.2	7.2	1.3	5.2	0.7	4.2	0.7	2.1	0.3	1.7	0.3	20.4	2.0	20.0	470.4	8592.4	6.8	392.5		1.47
SMDH 00217	94.3	10.4	33.8	6.5	1.3	4.3	0.6	3.2	0.3	1.6	0.3	1.3	0.3	17.0	2.0	17.2	373.0	6812.5	7.7	391.3	0.44	
SMDH 00217b	207.1	22.7	77.0	12.8	2.2	8.1	0.9	4.6	0.8	2.2	0.3	1.7	0.3	37.8	2.9	11.4	508.3	9284.3	8.6	413.6		
SMDH 00217b	326.6	33.2	77.0	14.3	2.9	7.4	0.9	3.1	0.3	1.3	0.3	0.8	0.3	27.4	1.4	21.5	355.7	6496.7	5.4	263.9		1.62
SMDH 00217b	123.8	13.7	46.7	9.4	2.0	5.9	0.7	3.4	0.3	1.5	0.3	1.1	0.3	21.7	1.1	7.2	153.7	2807.7	2.0	134.5		
SMDH 00217b	91.3	10.0	34.5	6.4	1.6	3.9	0.6	2.4	0.3	0.7	0.3	0.3	0.3	23.3	3.3	9.4	123.1	2247.9	3.4	160.6		
SMDH 00217b	70.0	8.1	25.7	5.9	2.3	3.3	0.3	2.5	0.3	1.4	0.3	1.1	0.3	38.6	1.4	10.0	329.3	6014.4	3.5	170.1		1.24
SMDH 00217b	183.6	20.4	68.8	12.8	2.5	7.8	0.8	4.0	0.3	1.1	0.3	0.3	0.3	33.6	1.5	7.2	222.6	4065.1	2.5	138.3		
SMDH 00217b	251.0	29.0	99.1	19.5	2.4	12.6	1.4	7.0	1.0	2.4	0.3	1.1	0.3	53.5	5.8	22.9	600.1	10960.9	1.7	100.2	0.9	1.65
SMDH 00217b	133.6	15.1	50.2	11.4	2.0	7.8	1.1	5.7	1.0	2.6	0.3	2.2	0.3	22.9	1.5	28.6	1023.2	18689.2	1.1	83.9		
SMDH 00218	223.7	24.8	84.0	14.4	1.5	9.9	1.3	6.8	1.3	4.0	0.6	3.4	0.6	43.7	3.8	15.7	410.2	7492.9	9.3	422.4		
SMDH 00218	192.7	23.1	82.8	18.7	2.1	15.9	2.7	18.9	4.1	13.4	1.8	12.1	1.6	29.8	3.9	21.5	664.8	12143.7	3.9	372.4		1.41
SMDH 00218	170.0	20.1	71.2	15.2	1.3	12.2	2.0	14.6	3.2	10.6	1.4	10.1	1.5	29.0	4.7	24.3	690.8	12617.4	7.7	358.2	1.61	
SMDH 00218	404.8	41.2	131.8	21.3	2.5	13.4	1.8	11.4	2.2	6.9	1.0	6.8	1.0	46.0	6.8	52.9	694.4	12683.4	6.8	351.5		
SMDH 00218	187.0	20.7	70.0	13.3	1.3	10.0	1.2	7.6	1.5	4.8	0.6	3.9	0.3	33.1	3.8	18.6	489.3	8936.9	5.4	279.2		1.42
SMDH 00218	139.9	15.2	52.5	10.2	0.9	6.9	0.8	5.9	1.0	3.2	0.3	2.7	0.3	24.0	1.9	14.3	337.4	6163.7	3.5	205.2		
SMDH 00218	208.6	22.5	75.9	13.7	1.4	9.5	1.3	7.0	1.5	3.2	0.6	4.3	0.6	39.3	5.1	23.7	508.1	9281.4	4.7	378.0		
SMDH 00218	273.9	27.8	93.3	17.5	2.3	10.1	1.2	5.0	0.3	1.3	0.3	0.7	0.3	53.5	2.5	10.0	260.3	4754.1	2.8	140.5		1.59
SMDH 00218	242.0	26.7	89.8	15.7	2.0	10.0	1.1	4.8	0.7	1.5	0.3	0.7	0.3	46.4	2.4	15.7	326.9	5971.4	4.1	205.6		
SMDH 00218	227.7	24.3	82.8	15.7	1.4	10.7	1.4	7.6	1.3	3.9	0.3	3.5	0.3	42.8	3.3	21.5	553.2	10105.4	6.8	337.2		
SMDH 00218	71.0	8.0	29.2	6.6	1.5	5.4	0.8	6.0	1.1	3.5	0.3	3.0	0.6	9.4	1.8	12.9	947.3	17302.6	3.7	177.6	1.89	1.64
SMDH 00218	208.8	22.6	73.5	13.9	1.0	9.3	1.3	7.5	1.3	4.3	0.7	4.6	0.6	36.2	3.2	17.2	477.0	8713.0	8.3	375.4		
SMDH 00218	139.8	15.2	52.5	8.8	1.5	6.2	0.9	5.3	1.0	3.3	0.3	2.5	0.3	24.5	1.8	14.3	387.1	7070.9	4.7	238.4		
SMDH 00218	241.0	24.9	86.3	14.1	1.6	9.2	1.4	10.0	1.9	5.5	0.8	5.9	0.9	32.0	3.5	42.9	663.4	12117.8	7.1	360.0		1.48
SMDH 00218	104.0	11.8	44.3	8.2	1.2	6.6	0.9	6.1	1.3	3.4	0.3	3.5	0.3	16.6	2.6	25.7	545.1	9956.1	4.5	240.8	1.34	
SMDH 00218	235.5	26.6	95.6	15.9	1.6	11.5	1.5	9.0	1.7	4.9	0.8	4.9	0.6	41.6	3.4	24.3	514.0	9387.7	0.3	361.6		
SMDH 00218	218.2	25.4	88.6	15.3	1.4	11.4	1.8	11.7	2.7	7.9	1.3	8.3	1.5	38.6	3.2	24.3	511.8	9347.5	7.3	367.6		1.52
SMDH 00218	193.4	20.7	73.5	13.2	1.0	8.6	1.4	9.3	1.9	5.8	0.9	5.9	1.0	31.9	4.5	28.6	598.0	10923.6	7.9	388.5		
SMDH 00218b	71.9	8.5	27.8	5.7	1.6	3.5	0.3	2.2	0.3	0.9	0.3	0.8	0.3	14.2	4.8	11.9	243.8	4452.7	6.3	246.3		1.67
SMDH 00218b	31.1	4.0	15.2	2.1	1.4	1.5	0.3	1.3	0.3	0.6	0.3	0.8	0.3	5.1	0.8	11.4	252.6	4613.4	4.1	224.9		1.74
SMDH 00218b	18.1	1.9	7.0	1.5	1.3	0.9	0.3	0.9	0.3	0.3	0.3	0.6	0.3	2.4	0.6	8.6	192.4	3513.9	2.8	159.4		
SMDH 00218b	33.7	4.0	11.7	2.6	1.7	1.6	0.3	1.4	0.3	0.7	0.3	0.8	0.3	3.5	0.7	14.3	222.6	4065.1	2.0	126.0		

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00218b	40.0	5.0	17.5	3.6	1.9	2.2	0.3	1.6	0.3	0.8	0.3	0.7	0.3	4.0	0.9	27.2	405.5	7406.8	3.9	222.2	1.24	1.66
SMDH 00218b	32.6	3.5	12.8	2.6	1.5	1.7	0.3	1.1	0.3	0.3	0.3	0.3	0.3	5.7	0.3	8.6	153.7	2807.7	4.4	222.9		
SMDH 00218b	30.2	3.5	11.7	2.3	1.4	1.5	0.3	1.7	0.3	0.9	0.3	1.0	0.3	3.8	0.7	15.7	205.7	3757.9	5.2	298.4		
SMDH 00218b	42.7	4.3	15.2	2.9	1.5	2.0	0.3	1.6	0.3	1.1	0.3	1.1	0.3	6.9	1.2	24.3	473.2	8644.1	14.2	740.9		1.58
SMDH 00218b	253.2	24.5	74.6	9.5	2.7	5.8	0.3	2.3	0.3	0.9	0.3	0.8	0.3	12.9	1.2	47.2	421.2	7693.9	8.8	479.3	1	
SMDH 00219	145.0	14.6	52.6	10.1	2.1	5.9	0.7	3.0	0.7	1.0	0.3	0.3	0.3	28.2	4.6	13.6	286.7	5236.4	5.1	341.8		
SMDH 00219	196.2	19.8	67.7	10.1	3.0	6.3	0.7	3.0	0.3	1.1	0.3	0.7	0.3	20.9	0.9	20.0	226.3	4134.0	3.7	194.1		1.64
SMDH 00219	115.5	12.7	42.0	7.8	2.1	4.7	0.3	2.5	0.3	0.9	0.3	0.6	0.3	20.5	0.9	14.3	164.6	3005.8	2.1	131.8		
SMDH 00219	402.2	38.8	120.1	17.4	3.5	9.7	1.1	4.0	0.3	1.5	0.3	0.6	0.3	26.9	1.2	51.5	196.0	3579.9	2.6	155.1	0.91	
SMDH 00219	124.4	15.5	50.2	8.5	1.9	5.0	0.3	2.5	0.3	0.9	0.3	0.7	0.3	22.2	1.1	18.6	162.5	2968.5	2.2	141.3		1.48
SMDH 00219	354.9	39.7	120.1	20.9	3.1	10.4	1.2	4.5	0.7	1.6	0.3	1.0	0.3	40.7	1.7	40.1	182.0	3324.4	2.0	126.7		
SMDH 00219	101.2	12.8	39.7	7.1	1.5	5.6	0.3	2.5	0.3	1.3	0.3	1.3	0.3	19.3	2.4	12.9	125.0	2282.3	2.1	106.0		
SMDH 00219	102.4	13.2	40.8	7.8	1.9	5.9	0.8	4.4	0.8	2.1	0.3	2.3	0.3	20.4	1.3	8.6	119.0	2173.2	2.4	124.4	0.93	1.55
SMDH 00219b	130.8	14.5	52.5	8.9	0.9	6.2	0.6	3.6	0.7	2.2	0.3	1.7	0.3	27.8	2.4	11.4	199.0	3634.5	6.4	345.8		
SMDH 00219b	152.1	18.0	59.5	11.7	1.3	6.7	0.8	3.9	0.7	1.8	0.3	1.6	0.3	28.1	2.1	12.9	253.5	4630.7	6.5	348.1		
SMDH 00219b	156.1	19.0	57.2	10.0	1.7	7.1	0.7	2.5	0.3	0.8	0.3	0.9	0.3	32.1	2.0	28.6	428.3	7823.0	9.3	481.2		1.52
SMDH 00219b	144.1	16.3	54.8	10.8	1.4	6.0	0.7	3.1	0.3	1.5	0.3	1.0	0.3	27.3	1.5	22.9	445.0	8127.4	10.0	425.2		
SMDH 00219b	513.8	53.6	168.0	25.0	3.2	13.3	1.1	5.5	0.7	2.4	0.3	1.5	0.3	59.9	2.2	65.8	871.7	15921.7	14.2	569.2		1.5
SMDH 00219b	342.0	38.2	123.6	18.8	3.1	10.8	1.3	6.1	1.1	3.4	0.3	3.0	0.7	42.3	3.4	52.9	1205.0	22010.7	21.7	946.4		
SMDH 00219b	249.7	27.3	92.1	15.1	2.4	10.3	1.5	11.1	3.2	12.7	1.9	14.1	2.6	34.7	3.2	45.8	1010.1	18450.9	24.1	1015.8	0.79	
SMDH 00219b	222.5	25.1	87.5	15.2	2.3	14.2	2.6	23.4	7.0	32.1	4.7	35.5	6.6	26.5	3.4	44.3	1070.2	19547.6	30.5	1243.8		1.6
SMDH 00219b	299.7	33.8	110.8	16.0	2.9	11.8	1.5	11.8	2.9	14.3	1.9	15.4	3.0	34.4	1.1	44.3	1229.6	22458.6	23.6	1045.5		
SMDH 00220	146.4	17.4	58.3	11.2	2.0	8.8	1.3	7.3	1.8	6.3	0.9	5.9	1.1	22.1	1.5	25.7	1891.6	34550.6	11.2	493.4		
SMDH 00220	38.8	5.1	21.1	5.8	2.8	5.2	0.9	6.2	1.4	3.0	0.3	3.0	0.3	2.8	2.5	13.6	1030.3	18818.4	1.6	331.5		
SMDH 00220	33.8	4.5	18.9	5.6	1.7	5.1	0.8	5.9	1.4	2.9	0.3	2.8	0.3	2.5	2.7	11.7	1005.1	18359.0	2.5	402.3		
SMDH 00220b	241.7	26.6	87.5	14.6	1.5	9.3	1.3	6.7	1.5	4.8	0.6	4.4	0.6	46.2	2.7	18.6	1066.6	19481.5	15.1	689.9		
SMDH 00220b	158.7	18.0	59.5	10.1	1.2	6.3	0.7	4.2	0.9	2.5	0.3	2.6	0.3	30.6	2.1	21.5	718.4	13122.6	10.8	506.4		1.31
SMDH 00220b	195.3	23.0	79.3	14.3	1.5	8.5	1.2	6.5	1.1	4.3	0.3	3.3	0.3	39.1	3.7	25.7	696.1	12715.0	11.6	517.4	1.72	
SMDH 00220b	207.8	23.0	73.5	13.5	1.6	8.9	1.2	5.3	0.9	2.5	0.3	1.8	0.3	39.4	3.4	24.3	678.5	12393.4	12.5	520.7		
SMDH 00220b	192.7	21.4	72.3	13.9	1.6	9.8	1.3	7.8	1.8	6.3	0.8	5.7	0.6	36.2	3.4	24.3	751.0	13716.9	10.4	472.4		1.34
SMDH 00220b	224.8	25.7	86.3	16.1	2.0	10.3	1.6	8.6	1.8	5.4	0.6	4.7	0.3	45.7	4.1	30.0	668.6	12212.6	15.6	686.3		
SMDH 00220b	183.3	20.4	73.5	11.1	1.4	8.4	0.8	6.0	1.3	4.5	0.6	4.4	0.6	34.6	2.1	24.3	747.2	13648.0	10.8	522.6	0.82	
SMDH 00220b	203.9	22.5	74.6	14.3	1.7	9.0	1.1	6.3	1.0	4.1	0.3	3.6	0.3	39.0	2.2	21.5	684.8	12508.3	10.3	490.2		1.55
SMDH 00220b	207.5	22.5	75.8	12.6	2.1	8.4	1.2	6.9	1.3	3.9	0.6	4.4	0.6	37.1	2.2	65.8	784.6	14331.2	9.1	437.0		
SMDH 00221	267.3	30.1	107.3	16.0	1.6	11.1	1.2	6.8	1.3	3.2	0.3	3.2	0.3	57.4	3.1	15.7	446.1	8147.5	16.7	809.4		
SMDH 00221	289.2	33.6	124.8	20.4	2.1	12.6	1.5	7.6	1.4	4.3	0.6	3.9	0.3	61.3	3.7	22.9	756.8	13823.1	21.9	998.2	1.7	1.62
SMDH 00221	97.3	10.8	39.7	7.3	2.3	5.9	0.8	5.2	0.8	2.1	0.3	2.6	0.3	10.2	1.1	52.9	1478.2	27000.3	22.6	1097.5		
SMDH 00221	149.3	15.0	52.5	7.8	2.9	5.3	0.7	3.9	0.6	1.5	0.3	1.6	0.3	14.1	0.7	60.1	1933.1	35308.5	15.2	732.0		
SMDH 00221	89.1	10.0	35.0	5.5	2.5	4.8	0.8	4.7	0.7	1.8	0.3	1.6	0.3	6.4	0.6	58.7	1683.0	30741.0	20.5	950.8		1.49
SMDH 00221	96.3	10.3	40.8	8.8	2.8	7.8	1.2	7.6	1.0	2.5	0.3	2.2	0.3	2.3	0.7	77.2	1837.7	33565.9	20.5	1075.8	1.33	
SMDH 00221	89.4	10.0	40.8	8.7	2.5	6.7	1.2	8.0	1.6	5.9	0.8	6.0	0.7	6.7	1.3	55.8	1518.8	27741.0	18.4	902.7		
SMDH 00221	206.9	23.4	75.8	15.1	2.2	9.8	1.3	7.0	1.0	3.1	0.3	1.8	0.3	28.4	1.4	34.3	831.8	15192.5	15.3	667.8		1.43
SMDH 00221	178.6	20.4	70.0	13.8	1.9	8.4	1.2	6.8	1.0	2.7	0.3	2.0	0.3	25.7	1.7	27.2	923.7	16871.9	11.7	515.3		
SMDH 00017	147.4	16.4	52.5	9.7	2.7	5.6	0.7	3.3	0.3	1.8	0.3	1.4	0.3	19.6	0.9	14.3	336.0	6137.9	2.2	129.1	0.76	
SMDH 00017	53.3	5.9	19.8	3.4	2.0	1.8	0.3	1.1	0.3	0.6	0.3	0.3	0.3	8.1	0.3	12.9	378.5	6913.0	2.2	131.3		1.51
SMDH 00017	95.8	10.1	35.0	6.6	2.2	3.0	0.3	1.5	0.3	0.7	0.3	0.3	0.3	18.5	0.3	10.0	197.1	3600.0	1.5	84.6		
SMDH 00017	118.0	13.4	44.3	7.5	1.9	3.9	0.3	2.0	0.3	0.7	0.3	0.3	0.3	22.8	0.9	11.4	313.1	5718.7	3.5	158.4		
SMDH 00017	181.8	20.3	68.8	11.7	2.4	6.6	0.7	4.4	0.7	2.3	0.3	2.4	0.3	33.6	1.5	15.7	484.9	8856.5	7.5	354.0	1.2	1.61
SMDH 00017	153.1	17.5	56.0	9.3	1.5	6.0	0.6	3.0	0.3	1.3	0.3	0.7	0.3	30.7	1.3	17.2	586.6	10714.0	8.8	376.9		
SMDH 00017	174.6	19.9	66.5	11.9	1.9	8.1	1.1	7.1	1.4	4.9	0.6	4.1	0.7	34.4	2.1	22.9	579.5	10584.8	8.4	346.6		
SMDH 00017	154.4	18.1	59.5	12.3	1.9	8.2	1.1	6.5	1.1	3.9	0.6	3.8	0.6	29.8	2.0	42.9	707.6	12924.5	10.1	429.4		1.45
SMDH 00017	141.6	17.2	57.2	11.0	1.5	7.8	0.9	6.1	0.9	2.5	0.3	2.7	0.3	27.3	1.9	22.9	578.1	10559.0	7.8	374.7	0.78	
SMDH 00017	255.3	28.0	88.6	15.5	2.4	10.7	1.4	7.2	1.4	4.5	0.6	3.8	0.6	30.0	1.9	38.6	793.4	14492.0	8.7	385.7		
SMDH 00016b	147.0	15.9	53.7	10.6	1.4	7.7	0.9	5.9	1.0	3.3	0.3	2.7	0.3	27.1	1.8	17.2	571.2	10432.6	7.2	338.2		1.67
SMDH 00016b	120.3	15.0	49.0	9.7	1.7	6.1	0.7	3.7	0.6	1.5	0.3	1.3	0.3	22.4	1.1	14.3	701.9	12821.2	6.1	307.8		
SMDH 00016b	200.5	22.1	72.3	11.9	1.7	6.9	0.3	2.4	0.3	0.9	0.3	0.3	0.3	41.0	1.2	14.3	502.2	9172.3	5.2	243.5	1.23	
SMDH 00016b	205.3	22.6	75.8	12.2	2.2	7.3	0.6	2.1	0.3	0.9	0.3	0.3	0.3	40.1	1.4	15.7	467.4	8537.9	5.9	282.2		
SMDH 00016b	135.2	15.8	51.3	8.2	2.4	4.5	0.3	1.7	0.3	0.7	0.3	0.6	0.3	25.7	0.7	12.9	271.1	4952.2	1.7	103.5		
SMDH 00016b	177.4	19.9	66.5	11.9	2.0	7.8	1.1	4.4	0.8	2.6	0.3	1.7	0.3	32.4	1.9	24.3	598.8	10937.9	8.3	362.6	0.99	1.52
SMDH 00016b	240.8	28.2	94.5	16.1	1.7	10.3	1.1	5.2	0.8	2.7	0.3	2.0	0.3	48.9	2.6	20.0	753.8	13768.6	10.5	421.6		
SMDH 00016b	253.2	29.4	96.8	17.0	1.9	11.1	1.1	5.5	0.9	3.0	0.3	2.5	0.3	50.9	2.9	21.5	612.7	11190.5	14.0	588.4		
SMDH 00016b	221.8	25.1	87.5	14.8	1.4	9.1	0.9	4.9	0.8	2.5	0.3	1.9	0.3	45.5	2.6	21.5	618.3	11293.9	10.5	462.0		1.43
SMDH 00016b	93.4	11.2	36.2	7.0	1.4	6.2	0.9	6.2	1.1	3.7	0.3	2.7	0.3	12.5	1.2	27.2	529.7	9674.7	7.9	358.4	0.82	
SMDH 00016b	109.3	13.5	49.0	8.6	1.7	7.5	0.9	6.5	1.3	4.1	0.6	3.1	0.3	17.4	1.2	28.6	643.2	11747.5	8.4	340.3		
SMDH 00016b	125.9	15.6	52.5	10.6	1.7	6.3	0.8	4.7	0.9	2.7	0.3	1.9	0.3	23.7	1.4	17.2	578.1	10559.0	6.6	282.7		1.52
SMDH 00016b	133.2	15.7	53.7	9.7	1.4	6.2	0.7	4.2	0.7	2.5	0.3	1.9	0.3	27.0	1.5	21.5	529.2	9666.1	8.8	341.3		
SMDH 00016	232.3	22.5	75.8	11.6	1.3	7.1	0.7	3.2	0.3	1.5	0.3	1.3	0.3	30.4	2.1	32.9	277.9	5075.6	5.4	231.8	0.42	
SMDH 00016	285.0	29.2	87.5	13.9	2.7	8.0	0.9	5.3	0.9	2.9	0.3	2.4	0.3	23.0	3.2	45.8	376.9	6884.3	8.5	331.8		1.56
SMDH 00016	78.7	10.4	33.8	7.3	1.4	5.0	0.7	3.7	0.7	2.3	0.3	1.5	0.3	14.0	3.1	27.2	530.8	9694.8	10.3	378.1		
SMDH 00016	86.2	9.9	32.7	7.0	0.9	4.5	0.7	3.2	0.6	1.8	0.3	1.5	0.3	14.7	4.4	30.0	371.1	6778.1	8.6	330.4		
SMDH 00016	152.8	17.3	57.2	10.2	1.4	7.5	1.5	12.2	3.0	7.3	1.5	12.1	1.0	25.1	3.9	35.8	763.4	13943.7	16.4	632.7	0.91	1.42

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00016	354.3	38.1	134.1	19.4	3.0	11.8	1.8	13.4	2.9	7.5	1.5	12.9	1.3	43.7	1.5	47.2	1371.5	25051.0	23.7	946.6		
SMDH 00016	218.7	24.2	82.8	12.8	2.3	9.5	1.8	14.8	3.4	9.4	1.8	14.9	1.5	26.4	1.4	40.1	1049.8	19174.4	20.9	859.2		
SMDH 00016	254.4	27.3	91.0	13.9	2.7	9.2	1.5	9.5	2.2	5.5	1.0	7.7	0.9	24.5	1.3	67.2	1209.1	22085.4	24.1	1000.5		1.72
SMDH 00016	163.4	16.9	60.7	9.2	2.3	8.2	1.6	14.2	3.4	8.3	1.6	13.3	1.3	17.2	1.4	37.2	938.6	17144.7	21.3	877.3	0.59	
SMDH 00015b	293.2	31.3	103.8	16.4	2.5	9.5	1.3	7.7	1.5	3.7	0.7	5.1	0.3	33.1	2.1	47.2	735.1	13426.9	10.6	442.7		
SMDH 00015b	204.2	21.3	73.5	11.8	1.3	7.1	0.9	4.4	0.7	1.6	0.3	2.6	0.3	47.1	2.0	21.5	431.8	7886.2	5.7	238.6		1.62
SMDH 00015b	166.0	18.2	67.7	11.7	1.7	6.3	0.8	5.0	1.0	2.3	0.3	3.4	0.3	31.3	1.9	27.2	451.6	8247.9	7.9	337.3		
SMDH 00015b	130.7	15.6	50.2	8.1	1.6	5.3	0.3	2.1	0.3	1.1	0.3	1.1	0.3	26.2	1.2	24.3	708.7	12944.6	8.5	376.2	1.36	
SMDH 00015b	158.5	19.2	61.8	10.6	2.1	7.4	0.8	2.9	0.3	1.1	0.3	0.6	0.3	31.7	1.8	18.6	827.2	15109.2	6.8	306.9		1.67
SMDH 00015b	142.0	17.3	59.5	11.1	1.5	7.4	0.9	5.5	1.0	3.5	0.3	3.1	0.3	30.0	2.5	21.5	533.6	9746.5	7.1	300.7		
SMDH 00015b	194.7	23.0	79.3	16.6	1.5	11.1	1.5	9.2	1.7	5.7	0.7	4.9	0.7	42.1	4.1	35.8	577.0	10538.9	11.2	450.9		
SMDH 00015b	175.5	21.0	71.2	14.4	1.6	9.8	1.4	9.5	2.1	7.1	0.9	5.8	0.8	38.1	3.3	31.5	506.9	9258.5	9.1	394.2	0.41	1.44
SMDH 00015b	159.4	19.1	64.2	12.6	1.3	8.9	1.2	8.5	1.7	6.1	0.8	5.0	0.8	34.1	2.2	24.3	345.2	6304.4	9.1	399.7		
SMDH 00015b	177.5	21.6	75.8	14.7	1.5	9.6	1.3	8.8	1.7	5.5	0.8	4.6	0.6	40.4	2.5	22.9	530.3	9686.2	9.8	371.1		
SMDH 00015b	149.4	17.4	57.2	10.7	1.4	6.9	0.9	6.5	1.3	4.1	0.6	4.2	0.6	26.2	2.1	21.5	705.4	12884.3	8.0	335.4		1.56
SMDH 00015b	217.2	25.1	85.1	16.5	2.2	9.5	1.3	6.3	1.4	3.9	0.6	3.9	0.3	37.6	2.1	24.3	668.5	12209.7	4.8	279.6	0.56	
SMDH 00015b	173.3	20.7	67.7	11.6	1.7	6.8	0.7	3.1	0.6	1.6	0.3	1.0	0.3	34.6	1.8	22.9	539.7	9858.5	9.6	483.0		
SMDH 00015b	139.8	16.3	54.8	7.7	1.7	5.0	0.3	1.8	0.3	0.8	0.3	0.3	0.3	24.7	0.9	21.5	340.0	6209.6	10.4	522.2		1.45
SMDH 00015b	107.4	11.4	42.0	5.6	1.4	3.5	0.3	1.1	0.3	0.6	0.3	0.3	0.3	20.0	0.9	18.6	516.6	9436.5	12.1	614.5		
SMDH 00015	169.2	19.1	63.7	11.4	1.3	7.5	0.8	4.4	0.9	1.9	0.3	2.0	0.3	32.1	4.0	10.7	239.2	4369.4	4.8	594.6		
SMDH 00015	392.7	43.1	129.5	20.8	3.2	12.3	1.4	8.8	1.7	5.3	0.8	5.4	0.9	37.0	3.2	50.1	254.1	4642.2	5.5	282.5		1.53
SMDH 00015	230.1	25.6	80.5	14.1	2.4	9.5	1.3	7.0	1.6	5.3	0.8	5.1	0.9	29.7	2.6	28.6	269.1	4914.9	5.8	323.0		
SMDH 00015	136.4	15.8	54.8	11.0	2.7	6.8	0.8	4.6	0.7	2.3	0.3	2.2	0.3	26.7	1.9	14.3	67.7	1237.3	4.2	251.7		
SMDH 00015	176.8	19.9	64.2	13.6	1.0	10.8	1.6	11.1	2.1	5.6	0.8	4.9	0.8	31.5	4.2	28.6	724.6	13234.6	8.1	351.5	1.31	1.48
SMDH 00015	124.6	14.5	47.8	9.2	0.9	6.8	0.8	5.3	1.0	3.3	0.3	2.4	0.3	24.2	2.9	24.3	571.0	10429.8	6.3	241.0		
SMDH 00015	172.0	19.6	64.2	12.5	1.2	8.5	1.3	7.3	1.4	4.1	0.6	3.8	0.7	33.2	3.2	22.9	592.5	10823.1	8.6	344.5		1.48
SMDH 00015	72.5	8.5	28.0	6.1	0.3	4.0	0.3	3.2	0.7	1.7	0.3	1.4	0.3	13.9	1.2	10.0	475.3	8681.4	4.4	195.2	1.06	
SMDH 00015	54.5	6.2	22.2	4.6	0.3	3.0	0.3	2.9	0.6	2.2	0.3	1.4	0.3	9.0	1.1	10.0	236.1	4312.0	4.1	201.3		
SMDH 00015	120.4	13.5	43.2	8.7	1.2	6.0	0.9	6.4	1.5	4.2	0.6	3.2	0.3	20.0	2.5	21.5	186.6	3407.7	6.8	303.0		1.55
SMDH 00015	129.0	14.7	47.8	9.6	1.6	6.9	1.1	6.8	1.4	3.5	0.3	2.6	0.3	24.6	3.9	24.3	349.9	6390.5	7.1	317.8		
SMDH 00015	128.2	14.6	49.0	9.6	1.3	6.5	0.9	5.9	1.3	3.2	0.3	2.7	0.3	25.6	3.4	21.5	183.3	3347.4	8.6	357.8	0.63	
SMDH 00015	145.0	16.4	54.8	12.1	1.3	8.3	1.3	9.2	1.8	5.8	0.9	5.8	0.9	30.3	3.8	20.0	500.1	9135.0	5.8	290.3		1.65
SMDH 00014b	222.8	25.9	87.5	16.4	1.2	10.1	1.1	6.5	0.9	2.6	0.3	2.3	0.3	54.2	3.3	15.7	448.9	8199.1	10.4	344.7		
SMDH 00014b	170.4	19.6	64.2	13.5	2.3	7.1	0.9	4.5	0.7	1.7	0.3	1.5	0.3	30.8	2.7	32.9	1830.3	33431.0	7.0	302.6		
SMDH 00014b	155.5	17.6	60.7	11.7	2.2	6.3	0.7	3.1	0.6	1.1	0.3	0.7	0.3	32.1	2.1	10.0	448.9	8199.1	3.7	165.7	0.91	1.58
SMDH 00014b	87.0	10.4	33.8	5.2	1.4	3.7	0.3	2.1	0.3	0.7	0.3	0.3	0.3	16.4	1.2	5.7	788.8	14408.8	1.5	82.3		
SMDH 00014b	166.9	21.1	68.8	11.8	1.5	8.0	0.7	2.6	0.3	0.9	0.3	0.6	0.3	35.3	1.9	7.2	972.1	17756.2	3.2	126.7		
SMDH 00014b	224.3	27.2	91.0	18.0	1.9	9.9	1.1	4.0	0.7	1.3	0.3	0.3	0.3	52.3	2.7	8.6	265.8	4854.6	6.4	234.6		1.59
SMDH 00014b	452.1	54.7	179.6	31.5	2.8	19.9	2.1	8.4	1.0	2.3	0.3	0.9	0.3	102.2	4.1	17.2	10687.4	195211.5	6.6	258.7	0.81	
SMDH 00014b	395.2	46.9	155.1	29.8	2.8	18.2	2.0	7.6	0.9	1.9	0.3	1.3	0.3	89.0	4.5	12.9	231.0	4220.1	9.8	387.4		
SMDH 00014b	242.6	27.8	93.3	16.9	2.2	10.3	1.1	4.8	0.7	1.6	0.3	0.9	0.3	49.5	2.4	10.0	371.4	6783.8	4.1	170.1		1.63
SMDH 00014b	213.3	24.8	80.5	14.1	2.7	9.1	0.8	4.0	0.3	1.1	0.3	0.7	0.3	40.6	2.4	8.6	231.0	4220.1	4.1	171.7		
SMDH 00014b	221.8	25.6	86.3	14.8	2.2	9.2	0.9	4.0	0.6	1.5	0.3	0.9	0.3	44.5	3.1	8.6	5.0	91.9	4.1	153.6	0.6	
SMDH 00014bt	196.2	22.2	73.5	13.9	1.4	8.1	0.9	4.2	0.7	1.8	0.3	1.3	0.3	39.4	2.7	11.4	89.1	1627.8	8.3	340.0		1.45
SMDH 00014bt	208.8	24.4	80.5	13.9	2.3	8.9	0.8	3.8	0.6	1.4	0.3	0.8	0.3	39.4	1.9	8.6	71.0	1297.6	3.5	162.0		
SMDH 00014bt	209.3	23.6	74.6	11.2	2.5	7.3	0.8	3.2	0.3	1.0	0.3	0.6	0.3	34.3	2.0	28.6	79.2	1446.9	3.1	126.3		
SMDH 00014bt	194.2	44.6	151.6	24.5	4.1	15.8	1.5	3.2	0.8	2.3	0.3	1.0	0.3	70.3	2.9	24.3	280.6	5124.5	5.7	258.7	0.77	1.65
SMDH 00014bt	183.5	42.5	149.3	26.8	3.9	15.6	1.8	3.2	0.8	1.7	0.3	0.9	0.3	75.7	3.8	18.6	224.8	4105.3	8.5	341.9		
SMDH 00014bt	175.7	39.7	128.3	23.7	3.6	14.8	1.5	3.1	0.7	2.2	0.3	0.7	0.3	65.5	3.4	20.0	207.5	3789.5	7.1	271.1		
SMDH 00014bt	188.1	42.4	143.5	26.1	4.1	16.9	1.6	3.6	0.9	2.2	0.3	0.8	0.3	74.4	2.9	15.7	181.5	3315.8	4.6	183.3		1.62
SMDH 00014bt	188.8	44.2	152.8	26.7	3.8	15.9	1.8	3.6	0.8	2.4	0.3	0.9	0.3	73.5	4.7	21.5	283.5	5179.0	7.3	270.7	0.42	
SMDH 00014bt	183.8	41.1	140.0	25.4	3.4	15.4	1.6	3.7	0.9	2.2	0.3	1.4	0.3	80.7	7.2	188.8	281.8	5147.4	7.4	302.7		
SMDH 00014bt	153.4	24.5	82.8	14.7	3.1	9.1	0.9	2.9	0.7	1.9	0.3	1.3	0.3	39.7	4.0	38.6	294.1	5371.3	6.5	252.2		1.66
SMDH 00014bt	86.4	10.4	32.7	6.3	2.5	4.1	0.3	1.7	0.3	0.9	0.3	0.7	0.3	16.6	1.7	64.4	311.2	5684.3	3.2	154.4		
SMDH 00014	187.6	21.9	73.5	14.3	1.9	7.8	0.8	5.0	0.9	3.4	0.3	2.8	0.3	31.6	2.8	40.1	297.4	5431.6	11.0	443.6	1.59	
SMDH 00014	136.6	16.1	53.1	9.5	1.4	6.1	0.7	2.6	0.3	1.1	0.3	0.8	0.3	25.5	2.6	25.2	495.7	9054.6	6.4	360.8		1.49
SMDH 00014	775.4	79.1	230.9	33.9	6.7	16.3	1.4	6.4	1.0	3.0	0.3	2.2	0.3	29.5	1.5	42.9	762.4	13926.5	7.3	308.4		
SMDH 00014	108.7	13.0	44.3	7.3	1.0	5.1	0.3	2.4	0.3	1.0	0.3	1.0	0.3	19.1	2.0	24.3	414.3	7567.5	13.7	534.4		
SMDH 00014	145.7	15.7	54.8	10.1	1.6	6.3	0.7	3.2	0.3	1.4	0.3	0.8	0.3	25.0	2.0	32.9	802.2	14652.8	11.6	459.1	1.16	1.36
SMDH 00014	188.6	22.1	72.3	15.0	1.7	8.6	0.9	4.6	0.7	2.1	0.3	1.1	0.3	34.8	2.7	28.6	900.8	16452.8	12.4	489.1		
SMDH 00014	152.9	17.6	60.7	11.5	1.9	7.1	0.9	4.8	0.9	3.0	0.3	2.2	0.3	27.4	2.1	27.2	584.4	10673.8	11.0	498.4		
SMDH 00014	158.8	17.6	57.2	10.2	1.9	7.6	0.9	5.6	1.1	4.2	0.6	3.6	0.3	23.4	1.8	75.8	506.6	9252.7	9.2	434.8		1.42
SMDH 00014	167.3	19.6	63.0	11.4	2.1	9.2	1.1	6.8	1.4	5.6	0.7	5.0	0.7	27.1	2.6	42.9	1526.6	27884.5	11.3	521.5	0.46	
SMDH 00013b	213.1	24.0	81.6	14.6	1.7	10.1	1.1	5.9	0.9	2.7	0.3	2.0	0.3	39.5	3.1	25.7	416.7	7610.6	11.6	491.2		
SMDH 00013b	199.9	23.0	79.3	14.6	1.7	8.4	1.1	4.1	0.7	2.1	0.3	1.5	0.3	35.6	3.7	12.9	854.1	15600.2	12.1	582.1		1.31
SMDH 00013b	104.8	12.1	42.0	7.4	0.9	4.5	0.6	3.8	0.6	1.9	0.3	1.5	0.3	19.2	1.9	15.7	755.5	13800.1	8.0	334.2	1.93	
SMDH 00013b	83.3	9.4	29.2	5.6	1.0	3.8	0.3	2.5	0.3	1.5	0.3	1.4	0.3	13.9	1.4	18.6	409.7	7484.3	9.4	415.4		1.55
SMDH 00013b	200.6	19.9	61.8	8.1	2.5	5.0	0.3	2.4	0.3	1.5	0.3	1.0	0.3	13.7	1.4	57.2	867.9	15852.8	17.6	773.5		
SMDH 00013b	58.0	6.4	22.2	4.5	1.6	3.2	0.3	2.8	0.6	1.7	0.3	1.5	0.3	8.2	1.1	32.9	681.3	12445.1	11.4	507.2		
SMDH 00013b	104.4	11.1	40.8	7.9	1.7	5.9	0.8	5.5	1.0	3.0	0.3	1.8	0.3	19.0	1.5	73.0	665.6	12158.0	8.4	390.1	1.22	1.65
SMDH 00013b	43.4	5.2	16.3	3.7	1.9	2.9	0.3	2.1	0.3	1.5	0.3	1.3	0.3	6.1	1.1	32.9	243.8	4452.7	13.0	645.1		

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00013b	88.8	9.9	35.0	8.0	2.1	6.6	1.1	7.3	1.7	6.2	1.0	6.3	0.8	11.8	1.7	48.6	748.6	13673.8	9.7	475.3		
SMDH 00013b	85.5	9.3	33.8	7.2	1.7	5.6	1.1	7.5	1.6	6.1	0.9	5.7	0.8	11.2	1.9	38.6	781.5	14273.8	4.4	222.9		1.71
SMDH 00013b	125.2	13.5	53.7	10.3	2.1	9.0	1.3	8.6	1.7	5.8	0.9	5.1	0.7	18.3	2.0	35.8	544.6	9947.5	4.5	234.2	0.72	
SMDH 00034	253.9	27.1	96.8	14.8	2.7	9.1	0.8	3.8	0.3	1.3	0.3	0.9	0.3	51.0	1.5	14.3	584.4	10673.8	3.9	189.0		
SMDH 00034	595.2	60.8	192.5	27.7	5.3	13.5	1.4	6.5	0.8	2.2	0.3	1.0	0.3	60.2	1.3	61.5	9757.9	178233.4	2.2	127.7		1.65
SMDH 00034	243.8	27.4	91.0	13.6	2.0	7.8	0.8	3.9	0.6	1.8	0.3	1.5	0.3	44.6	1.4	17.2	295.6	5400.1	7.2	355.4		
SMDH 00034	213.9	24.4	81.6	12.4	1.5	7.4	0.6	3.0	0.3	1.1	0.3	0.7	0.3	40.1	1.7	18.6	838.5	15315.9	11.6	549.9	1.02	
SMDH 00034	192.2	22.8	78.1	14.3	1.6	8.8	1.1	6.2	1.4	5.1	0.8	5.1	0.7	34.3	1.8	24.3	916.3	16737.0	11.7	524.8		1.46
SMDH 00034	281.7	30.7	106.1	16.1	2.2	9.0	0.8	3.4	0.6	1.7	0.3	1.1	0.3	50.2	1.5	22.9	6253.4	114222.2	7.2	341.1		
SMDH 00034	204.9	22.4	75.8	13.2	2.1	7.1	0.7	2.9	0.3	0.8	0.3	0.6	0.3	40.3	1.3	14.3	658.7	12031.7	5.1	261.1		
SMDH 00034	233.3	26.9	89.8	13.8	2.4	7.3	0.7	2.9	0.3	1.0	0.3	0.6	0.3	45.5	1.1	14.3	900.8	16452.8	5.7	264.5	0.86	1.57
SMDH 00033b	294.4	34.1	115.5	20.5	1.5	13.7	1.5	7.8	1.3	3.8	0.3	3.3	0.3	61.7	3.9	27.2	1008.3	18416.5	13.2	651.5		
SMDH 00033b	103.7	11.5	38.5	6.4	1.6	3.7	0.3	1.8	0.3	0.9	0.3	1.1	0.3	19.5	1.8	12.3	384.1	7016.3	4.7	543.6		
SMDH 00033b	78.1	8.1	26.8	3.9	2.3	2.5	0.3	1.4	0.3	0.6	0.3	0.3	0.3	14.5	0.3	17.2	686.5	12539.8	7.7	363.4		1.62
SMDH 00033b	58.3	7.0	21.0	3.6	1.6	2.1	0.3	1.0	0.3	0.3	0.3	0.3	0.3	10.6	0.3	11.4	558.7	10205.8	7.1	370.7	1.11	
SMDH 00033b	73.8	7.9	26.8	4.2	2.1	2.4	0.3	1.0	0.3	0.3	0.3	0.3	0.3	13.1	0.6	17.2	567.9	10372.4	6.6	312.4		
SMDH 00033b	61.1	7.0	24.5	3.1	1.5	2.4	0.3	1.0	0.3	0.3	0.3	0.3	0.3	10.0	0.6	24.3	25.1	459.3	6.4	299.1		1.52
SMDH 00033b	184.9	21.0	70.0	12.2	2.2	8.4	1.1	5.3	1.0	3.4	0.3	2.3	0.3	36.3	2.8	27.2	723.0	13205.9	8.3	344.5		
SMDH 00033b	190.0	21.0	75.8	13.6	1.9	8.0	0.9	6.0	1.1	4.2	0.6	3.1	0.3	38.1	3.1	25.7	0.8	14.4	11.3	435.5	1.03	
SMDH 00033b	161.7	18.8	63.0	12.4	1.7	8.1	1.2	7.2	1.5	5.1	0.6	4.1	0.3	32.5	3.1	31.5	743.4	13579.1	10.5	457.2		1.52
SMDH 00033b	185.5	21.3	72.3	13.1	1.6	9.1	1.2	6.4	1.3	4.0	0.3	2.7	0.3	37.9	3.4	28.6	136.9	2500.5	10.1	466.3		
SMDH 00033b	208.1	21.4	78.1	13.3	1.6	8.2	1.2	6.2	1.0	2.6	0.3	2.8	0.3	41.5	3.7	30.0	693.6	12669.0	13.3	499.0		
SMDH 00033b	184.4	19.3	71.2	11.4	1.6	7.4	1.1	6.1	1.0	2.7	0.3	3.5	0.3	37.3	2.8	30.0	656.2	11985.8	9.9	404.2	0.56	1.47
SMDH 00033b	280.2	27.8	95.6	15.2	2.4	10.7	1.5	9.5	1.7	4.5	0.8	6.5	0.7	47.0	4.2	41.5	269.2	4917.8	18.0	659.6		
SMDH 00033	322.0	34.6	128.3	21.5	1.6	12.6	1.5	7.3	0.9	2.4	0.3	3.1	0.3	64.5	2.6	17.2	218.2	3984.7	14.6	552.6		
SMDH 00033	595.5	55.9	180.8	25.3	4.7	14.5	2.0	10.8	1.7	4.2	0.7	5.1	0.3	41.3	2.7	94.4	844.8	15430.8	13.2	486.0		1.36
SMDH 00033	437.2	39.6	128.3	17.5	3.5	11.2	1.5	9.6	1.6	3.8	0.6	4.8	0.3	25.5	2.1	85.8	723.0	13205.9	9.3	369.3	1.21	
SMDH 00033	159.4	16.2	58.3	11.5	2.0	8.9	1.6	10.6	1.7	4.5	0.7	6.1	0.6	19.5	1.9	41.5	789.8	14426.0	9.2	352.7		
SMDH 00033	139.8	16.8	57.2	11.1	1.5	9.6	1.5	9.3	1.6	5.0	0.6	4.0	0.6	23.1	2.5	27.2	844.8	15430.8	8.8	357.0		1.51
SMDH 00033	192.9	21.7	72.3	12.1	2.4	7.6	1.1	5.4	1.0	2.7	0.3	2.7	0.3	27.9	1.4	24.3	717.2	13099.7	5.7	236.8		
SMDH 00033	184.0	21.3	71.2	11.1	2.7	6.3	0.6	2.6	0.3	1.3	0.3	0.8	0.3	37.1	0.7	8.6	281.0	5133.1	1.5	87.0	0.72	
SMDH 00033	141.5	16.8	52.5	9.3	2.1	6.1	0.6	3.6	0.7	1.8	0.3	1.4	0.3	26.3	0.9	20.0	281.0	5133.1	4.6	198.2		1.78
SMDH 00033	120.6	14.0	46.7	9.2	2.0	5.8	0.7	4.0	0.8	2.2	0.3	1.6	0.3	21.4	0.9	20.0	809.4	14784.8	5.4	252.5		
SMDH 00033	128.0	14.4	49.0	9.2	2.0	5.0	0.3	2.4	0.3	1.1	0.3	0.8	0.3	26.3	0.6	11.4	471.5	8612.5	2.1	108.7		
SMDH 00032b	201.3	23.0	78.1	14.5	0.6	8.5	1.1	4.6	0.7	2.3	0.3	1.7	0.3	42.1	3.1	12.9	444.0	8110.1	13.7	599.8		
SMDH 00032b	234.6	25.5	86.3	14.4	0.8	10.9	1.3	4.4	0.8	2.1	0.3	1.5	0.3	47.0	2.9	11.4	396.9	7248.9	8.8	373.2		
SMDH 00032b	105.9	12.7	44.3	8.7	1.5	7.7	1.3	7.3	1.4	3.9	0.6	3.3	0.3	18.3	1.7	22.9	784.0	14319.8	6.5	302.8		1.6
SMDH 00032b	118.3	13.3	44.3	8.1	1.2	6.9	1.2	5.7	1.1	3.4	0.3	3.4	0.3	21.6	1.2	4.3	415.4	7587.6	7.1	278.8	0.77	
SMDH 00032b	112.0	12.7	42.0	8.1	1.2	5.8	1.2	3.4	1.1	1.1	0.3	1.1	0.3	19.3	1.2	10.0	603.9	11029.8	7.1	267.7		
SMDH 00032b	90.5	10.3	33.8	5.8	1.2	4.6	0.3	3.4	0.3	1.1	0.3	1.1	0.3	17.1	1.2	4.3	458.8	8380.0	8.3	316.4		1.61
SMDH 00032b	130.0	15.1	51.3	9.3	1.2	5.8	1.2	3.4	0.3	1.1	0.3	1.1	0.3	26.2	1.2	5.7	532.0	9717.8	4.7	223.7		
SMDH 00032b	56.5	6.5	22.2	3.5	2.3	2.3	0.3	1.1	0.3	0.3	0.3	0.3	0.3	9.1	0.3	2.9	298.9	5460.3	4.7	227.5	0.31	
SMDH 00032	95.8	12.0	38.5	7.0	1.2	4.6	0.3	2.3	0.3	1.1	0.3	1.1	0.3	14.8	1.2	11.4	287.0	5242.2	4.7	203.6		1.53
SMDH 00032	130.7	15.3	43.2	7.0	1.2	4.6	0.3	2.3	0.3	1.1	0.3	0.3	0.3	21.6	1.2	4.3	236.9	4326.4	3.5	148.5		
SMDH 00032	123.5	14.0	46.7	8.1	1.2	4.6	0.3	2.3	0.3	1.1	0.3	0.3	0.3	22.8	1.2	0.7	183.9	3358.9	3.5	114.0		
SMDH 00032	154.4	17.8	59.5	9.3	1.2	6.9	1.2	5.7	1.1	2.3	0.3	3.4	0.3	26.2	1.2	22.9	1062.5	19406.9	13.0	523.4	1.51	1.53
SMDH 00032	128.6	14.6	48.6	8.3	2.3	5.2	0.6	2.5	0.3	0.9	0.3	0.3	0.3	24.8	2.1	11.3	149.8	2735.9	6.7	210.3		
SMDH 00032	70.1	8.6	29.2	4.6	1.2	3.5	0.3	2.3	0.3	1.1	0.3	0.3	0.3	12.5	1.2	0.7	234.8	4289.0	3.5	114.4		
SMDH 00032	129.1	14.3	49.0	9.3	2.3	5.8	0.3	2.3	0.3	1.1	0.3	1.1	0.3	23.9	1.2	0.7	273.0	4986.7	3.5	120.4		1.65
SMDH 00032	28.9	3.3	10.5	2.3	2.3	1.2	0.3	1.1	0.3	0.3	0.3	0.3	0.3	4.6	0.3	0.7	278.2	5081.4	4.7	151.2	0.6	
SMDH 00032	31.0	3.5	11.7	2.3	2.3	1.2	0.3	1.1	0.3	1.1	0.3	1.1	0.3	4.6	0.3	4.3	323.5	5908.2	3.5	159.7		
SMDH 00032	84.3	11.0	36.2	8.1	3.5	4.6	0.3	2.3	0.3	1.1	0.3	0.3	0.3	14.8	1.2	15.7	203.5	3717.7	2.4	119.1		1.51
SMDH 00031b	149.1	17.3	58.3	10.4	1.2	6.9	1.2	3.4	1.1	1.1	0.3	2.3	0.3	28.4	2.4	5.7	271.3	4955.1	10.6	435.5		
SMDH 00031b	173.9	21.6	72.3	12.8	2.3	8.1	1.2	4.6	1.1	2.3	0.3	2.3	0.3	30.7	2.4	12.9	440.6	8047.0	10.6	425.9	1.12	
SMDH 00031b	145.6	18.0	58.3	10.4	2.3	6.9	1.2	3.4	0.3	1.1	0.3	1.1	0.3	28.4	2.4	7.2	358.2	6542.7	5.9	230.0		1.79
SMDH 00031b	138.9	16.8	56.0	10.4	2.3	5.8	0.3	2.3	0.3	1.1	0.3	0.3	0.3	27.3	2.4	7.2	358.2	6542.7	4.7	175.2		
SMDH 00031b	134.0	16.1	52.5	9.3	2.3	5.8	0.3	2.3	0.3	1.1	0.3	0.3	0.3	26.2	1.2	4.3	494.2	9025.9	4.7	157.2		
SMDH 00031b	106.9	13.0	43.2	8.1	2.3	4.6	0.3	2.3	0.3	1.1	0.3	1.1	0.3	20.5	1.2	1.4	455.0	8311.1	4.7	211.5	0.83	1.66
SMDH 00031b	135.7	17.0	56.0	9.3	2.3	5.8	1.2	3.4	0.3	1.1	0.3	1.1	0.3	25.0	1.2	4.3	319.2	5830.7	4.7	186.1		
SMDH 00031b	109.3	12.6	40.8	7.0	2.3	4.6	0.3	2.3	0.3	1.1	0.3	0.3	0.3	20.5	1.2	0.7	224.4	4099.6	3.5	159.5		
SMDH 00031b	147.4	18.2	58.3	10.4	2.3	6.9	1.2	3.4	0.3	1.1	0.3	1.1	0.3	30.7	2.4	0.7	298.6	5454.6	4.7	185.5		1.61
SMDH 00031b	142.9	16.1	56.0	10.4	2.3	6.9	1.2	2.3	0.3	0.3	0.3	0.3	0.3	28.4	2.4	0.7	250.1	4567.5	4.7	186.7	0.85	
SMDH 00031	142.0	16.4	57.2	10.4	2.3	6.9	1.2	3.4	0.3	1.1	0.3	1.1	0.3	27.3	2.4	1.4	396.2	7237.4	7.1	321.1		
SMDH 00031	181.9	20.7	70.0	12.8	2.3	8.1	1.2	4.6	1.1	1.1	0.3	2.3	0.3	31.9	3.5	15.7	448.1	8184.8	9.4	299.1		1.67
SMDH 00031	302.8	33.7	116.6	20.9	2.3	13.8	1.2	5.7	1.1	2.3	0.3	1.1	0.3	61.4	5.9	10.0	611.6	11170.4	15.3	498.3		
SMDH 00031	78.2	8.9	31.5	5.8	1.2	3.5	0.3	2.3	0.3	1.1	0.3	1.1	0.3	14.8	3.5	14.3	603.9	11029.8	15.3	536.9	0.74	
SMDH 00031	79.8	8.9	31.5	5.8	1.2	3.5	0.3	2.3	0.3	1.1	0.3	1.1	0.3	14.8	2.4	20.0	813.5	14859.5	17.7	580.3		1.52
SMDH 00031	130.7	14.9	51.3	9.3	1.2	5.8	1.2	2.3	0.3	1.1	0.3	1.1	0.3	22.8	3.5	37.2	813.5	14859.5	21.2	778.9		
SMDH 00031	227.0	24.6	82.8	13.9	2.3	9.2	1.2	3.4	1.1	1.1	0.3	1.1	0.3	37.6	3.5	25.7	948.7	17328.4	21.2	699.2		
SMDH 00031	212.8	23.2	77.0	13.9	1.2	9.2	1.2	4.6	1.1	2.3	0.3	1.1	0.3	36.4	2.4	15.7	743.1	13573.3	15.3	506.6	0.53	1.58
SMDH 00031	300.2	32.5	110.8	19.7	2.3	12.7	1.2	8.0	1.1	2.3	0.3	1.1	0.3	52.3	4.7	22.9	895.9	16363.8	17.7	604.9		

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00031	287.3	33.2	122.5	22.0	2.3	16.1	1.2	8.0	1.1	2.3	0.3	1.1	0.3	105.8	10.6	28.6	867.6	15847.1	16.5	563.6		
SMDH 00031	302.7	35.3	129.5	23.2	2.3	16.1	2.4	8.0	1.1	3.4	0.3	2.3	0.3	114.9	15.3	31.5	1012.8	18499.7	16.5	598.5		1.46
SMDH 00030b	221.4	25.9	89.8	16.2	1.2	10.4	1.2	5.7	1.1	2.3	0.3	2.3	0.3	84.2	8.3	22.9	807.2	14744.6	15.3	592.5	0.68	
SMDH 00030b	156.0	18.5	63.0	11.6	1.2	6.9	1.2	4.6	1.1	2.3	0.3	3.4	0.3	59.2	4.7	22.9	608.6	11115.9	11.8	454.9		0.48
SMDH 00030b	180.1	19.9	65.3	10.4	2.3	5.8	0.3	2.3	0.3	1.1	0.3	1.1	0.3	36.4	1.2	11.4	287.0	5242.2	3.5	118.3		
SMDH 00030b	114.4	12.4	39.7	7.0	1.2	4.6	0.3	2.3	0.3	1.1	0.3	2.3	0.3	19.3	1.2	14.3	327.2	5977.1	5.9	258.7	0.75	
SMDH 00030b	110.9	12.1	39.7	7.0	1.2	4.6	0.3	2.3	0.3	1.1	0.3	1.1	0.3	19.3	1.2	12.9	478.3	8736.0	8.3	378.4		1.69
SMDH 00030b	130.7	14.5	47.8	8.1	1.2	5.8	0.3	2.3	0.3	1.1	0.3	1.1	0.3	22.8	2.4	15.7	687.9	12565.7	11.8	493.6		
SMDH 00030b	89.8	9.8	32.7	5.8	1.2	4.6	0.3	2.3	0.3	1.1	0.3	1.1	0.3	14.8	1.2	14.3	471.5	8612.5	5.9	278.9		
SMDH 00030b	48.2	5.8	18.7	3.5	1.2	2.3	0.3	2.3	0.3	1.1	0.3	1.1	0.3	6.8	1.2	11.4	270.2	4935.0	1.2	74.4	0.33	1.56
SMDH 00030	212.3	23.2	72.3	15.1	2.3	10.4	1.2	5.7	1.1	2.3	0.3	1.1	0.3	39.8	2.4	27.2	583.9	10665.2	10.6	416.5		
SMDH 00030	95.9	10.8	37.3	7.0	1.2	3.5	1.2	2.3	0.3	1.1	0.3	1.1	0.3	15.9	1.2	15.7	476.5	8704.4	7.1	294.9		
SMDH 00030	56.8	6.4	21.0	3.5	1.2	2.3	0.3	1.1	0.3	1.1	0.3	1.1	0.3	9.1	1.2	11.4	381.9	6976.1	5.9	245.4		1.53
SMDH 00030	57.1	6.2	19.8	3.5	1.2	2.3	0.3	1.1	0.3	1.1	0.3	1.1	0.3	9.1	1.2	12.9	434.3	7932.1	9.4	440.0	0.75	
SMDH 00030	169.9	19.2	61.8	11.6	1.2	8.1	1.2	4.6	1.1	2.3	0.3	1.1	0.3	28.4	2.4	34.3	785.7	14351.3	9.4	355.9		
SMDH 00030	88.0	9.9	31.5	5.8	1.2	3.5	0.3	2.3	0.3	1.1	0.3	1.1	0.3	13.7	1.2	21.5	476.5	8704.4	8.3	380.7		1.69
SMDH 00030	73.5	8.3	25.7	4.6	1.2	3.5	0.3	2.3	0.3	1.1	0.3	1.1	0.3	12.5	1.2	17.2	388.7	7099.6	11.8	509.3		
SMDH 00030	77.5	8.7	26.8	4.6	1.2	3.5	0.3	2.3	0.3	1.1	0.3	1.1	0.3	12.5	1.2	20.0	432.5	7900.6	11.8	501.4	0.68	
SMDH 00030	109.3	12.6	39.7	7.0	1.2	5.8	1.2	4.6	1.1	1.1	0.3	1.1	0.3	18.2	1.2	21.5	651.5	11899.6	9.4	400.6		1.57
SMDH 00030	197.4	22.6	74.6	13.9	2.3	9.2	2.4	8.0	2.3	4.6	1.1	5.7	1.1	34.1	2.4	44.3	837.7	15301.6	11.8	492.8		
SMDH 00030	115.3	13.0	44.3	8.1	1.2	6.9	1.2	5.7	1.1	3.4	1.1	3.4	0.3	19.3	1.2	51.5	688.7	12580.0	10.6	454.4		
SMDH 00030	102.4	11.7	38.5	7.0	1.2	4.6	1.2	4.6	1.1	2.3	0.3	2.3	0.3	18.2	2.4	60.1	737.0	13461.4	14.2	561.5	0.52	1.63
SMDH 00030	74.3	8.3	28.0	4.6	1.2	3.5	1.2	2.3	0.3	1.1	0.3	1.1	0.3	12.5	1.2	31.5	845.7	15448.0	11.8	506.8		
SMDH 00030	138.7	15.2	46.7	8.1	1.2	5.8	1.2	4.6	1.1	2.3	0.3	2.3	0.3	17.1	1.2	45.8	678.7	12396.3	11.8	518.8		
SMDH 00030	183.6	21.0	66.5	11.6	1.2	8.1	1.2	3.4	0.3	1.1	0.3	1.1	0.3	34.1	2.4	35.8	938.3	17138.9	11.8	528.7		1.52
SMDH 00030	246.9	28.2	91.0	16.2	2.3	11.5	2.4	4.6	0.3	1.1	0.3	1.1	0.3	45.5	3.5	25.7	698.8	12763.8	10.6	472.8	0.32	
SMDH 00029b	225.3	24.8	80.5	15.1	1.2	10.4	2.4	4.6	1.1	2.3	0.3	1.1	0.3	41.0	3.5	14.3	304.1	5555.1	11.8	556.9		
SMDH 00029b	187.2	22.2	71.2	12.8	1.2	9.2	1.2	5.7	1.1	2.3	0.3	2.3	0.3	36.4	3.5	17.2	447.5	8173.3	13.0	555.7		1.63
SMDH 00029b	137.5	16.1	53.9	10.8	1.0	6.6	0.8	4.0	0.7	1.6	0.3	0.9	0.3	29.8	3.5	11.2	220.0	4019.2	6.9	376.2		
SMDH 00029b	230.7	27.3	92.6	18.2	1.3	10.7	1.3	5.7	0.9	2.3	0.3	2.2	0.3	48.2	4.7	14.4	258.2	4716.8	10.0	347.7		
SMDH 00029b	226.1	27.5	91.0	17.4	2.3	11.5	1.2	6.9	1.1	3.4	1.1	3.4	0.3	42.1	3.5	28.6	834.6	15244.2	10.6	424.4		1.39
SMDH 00029b	195.9	22.7	75.8	12.8	2.3	9.2	1.2	4.6	1.1	1.1	0.3	1.1	0.3	35.3	2.4	27.2	1009.8	18445.2	10.6	427.3		
SMDH 00029b	223.8	25.4	82.8	15.1	2.3	9.2	1.2	5.7	1.1	3.4	0.3	3.4	0.3	34.1	2.4	42.9	911.3	16645.1	9.4	403.8		
SMDH 00029b	186.6	22.0	73.5	13.9	2.3	10.4	1.2	5.7	1.1	3.4	0.3	2.3	0.3	33.0	2.4	27.2	806.1	14724.6	10.6	468.6	0.69	1.5
SMDH 00029b	183.0	21.9	71.2	13.9	2.3	9.2	1.2	6.9	1.1	3.4	1.1	3.4	0.3	31.9	2.4	28.6	751.3	13722.6	9.4	402.3		
SMDH 00029b	197.6	23.3	78.1	13.9	2.3	9.2	1.2	6.9	1.1	3.4	1.1	3.4	0.3	34.1	2.4	32.9	760.1	13883.4	10.6	437.4		
SMDH 00029b	192.7	22.6	77.0	13.9	2.3	9.2	1.2	5.7	1.1	3.4	0.3	3.4	0.3	34.1	2.4	65.8	874.0	15964.8	13.0	513.3		1.53
SMDH 00029b	178.7	20.7	68.8	13.9	1.2	10.4	1.2	5.7	1.1	3.4	0.3	3.4	0.3	31.9	2.4	24.3	707.6	12924.5	11.8	475.5	0.26	
SMDH 00029b	196.4	22.8	73.5	13.9	2.3	9.2	1.2	5.7	1.1	2.3	0.3	3.4	0.3	31.9	2.4	40.1	644.4	11770.5	11.8	526.7		
SMDH 00028b	218.8	25.3	83.2	16.1	1.5	10.4	1.3	6.5	1.1	2.9	0.3	3.2	0.3	43.0	6.0	18.5	309.9	5661.3	13.1	454.8		1.7
SMDH 00028b	147.7	16.9	54.8	10.4	1.2	6.9	1.2	5.7	1.1	2.3	0.3	2.3	0.3	26.2	2.4	27.2	593.2	10834.6	9.4	374.3		
SMDH 00028b	71.4	8.0	25.7	4.6	1.2	3.5	1.2	2.3	0.3	1.1	0.3	1.1	0.3	12.5	1.2	24.3	424.5	7754.1	5.9	233.1	0.87	
SMDH 00028b	118.9	12.7	42.0	7.0	1.2	4.6	1.2	3.4	1.1	1.1	0.3	2.3	0.3	22.8	1.2	18.6	568.5	10383.8	9.4	393.4		1.47
SMDH 00028b	100.6	11.2	35.0	5.8	2.3	4.6	1.2	2.3	1.1	1.1	0.3	1.1	0.3	19.3	1.2	21.5	509.9	9313.0	8.3	350.1		
SMDH 00028b	41.9	5.0	16.3	3.5	1.2	3.5	1.2	4.6	1.1	2.3	0.3	2.3	0.3	5.7	1.2	17.2	1150.3	21011.7	3.5	164.8	1.18	1.48
SMDH 00028b	36.0	5.7	24.5	4.6	1.2	4.6	1.2	4.6	1.1	2.3	0.3	2.3	0.3	3.4	1.2	25.7	1254.7	22917.9	4.7	158.9		
SMDH 00028b	39.8	5.2	18.7	4.6	1.2	4.6	1.2	3.4	1.1	2.3	0.3	2.3	0.3	4.6	1.2	24.3	944.0	17242.3	3.5	144.3		
SMDH 00028b	32.7	4.1	14.8	3.8	1.7	2.9	0.6	3.9	0.7	1.8	0.3	1.5	0.3	3.4	1.3	8.6	235.1	4294.8	1.7	108.5		
SMDH 00028	151.7	16.9	54.8	9.3	1.2	6.9	1.2	4.6	0.3	1.1	0.3	1.1	0.3	28.4	2.4	7.2	188.1	3436.4	5.9	281.1	0.47	
SMDH 00028	304.0	34.2	115.5	18.6	1.2	13.8	1.2	9.2	1.1	4.6	1.1	4.6	0.3	58.0	3.5	21.5	802.4	14655.7	14.2	656.8		
SMDH 00028	208.7	23.8	79.3	11.6	1.2	8.1	1.2	4.6	1.1	2.3	0.3	2.3	0.3	42.1	1.2	22.9	589.2	10762.8	9.4	420.8		1.52
SMDH 00028	139.5	15.9	50.2	8.1	1.2	5.8	1.2	3.4	1.1	2.3	0.3	2.3	0.3	29.6	1.2	12.9	553.4	10108.2	7.1	323.0		
SMDH 00028	163.3	17.8	58.3	8.1	1.2	5.8	1.2	3.4	1.1	2.3	0.3	2.3	0.3	30.7	1.2	11.4	630.4	11514.9	8.3	397.0	0.77	
SMDH 00028	164.7	18.0	59.5	9.3	2.3	5.8	1.2	3.4	1.1	1.1	0.3	1.1	0.3	28.4	1.2	17.2	567.9	10372.4	7.1	335.3		1.64
SMDH 00028	135.2	16.4	54.8	8.1	1.2	5.8	0.3	2.3	0.3	1.1	0.3	0.3	0.3	25.0	1.2	12.9	474.0	8658.5	7.1	314.5		
SMDH 00027b	230.2	26.9	88.6	13.9	2.3	9.2	1.2	6.9	1.1	3.4	0.3	3.4	0.3	44.4	2.4	17.2	732.9	13386.7	13.0	546.1		
SMDH 00027b	139.1	16.7	54.1	9.5	2.3	6.2	0.8	4.6	0.8	2.3	0.3	1.7	0.3	23.4	2.1	19.3	346.4	6327.3	3.4	223.8		
SMDH 00027b	146.8	18.1	59.5	9.3	1.2	6.9	1.2	6.9	1.1	3.4	1.1	3.4	0.3	26.2	1.2	31.5	754.7	13785.8	8.3	375.7		
SMDH 00027b	173.5	21.0	70.0	10.4	1.2	9.2	1.2	8.0	2.3	4.6	1.1	5.7	1.1	30.7	1.2	28.6	833.2	15218.3	13.0	538.3		
SMDH 00027b	209.4	25.1	81.6	12.8	2.3	9.2	1.2	5.7	1.1	2.3	0.3	2.3	0.3	39.8	2.4	28.6	875.1	15984.9	13.0	568.4		1.42
SMDH 00027b	252.7	29.8	91.0	13.9	2.3	10.4	1.2	5.7	1.1	2.3	0.3	2.3	0.3	47.8	2.4	31.5	776.7	14187.7	11.8	531.8	0.24	
SMDH 00029	249.9	29.2	102.1	18.4	1.7	11.4	1.5	8.1	1.6	3.5	0.6	3.4	0.3	49.8	4.6	27.3	234.2	4277.6	15.9	670.3		
SMDH 00029	151.1	17.6	53.7	9.3	1.2	6.9	1.2	3.4	1.1	2.3	0.3	2.3	0.3	28.4	2.4	15.7	601.7	10989.6	8.3	362.8		1.55
SMDH 00029	177.5	21.9	67.7	11.6	1.2	8.1	1.2	4.6	1.1	2.3	0.3	2.3	0.3	33.0	2.4	34.3	696.4	12720.7	8.3	365.4		
SMDH 00029	156.0	18.5	53.7	11.6	1.2	8.1	1.2	4.6	1.1	2.3	0.3	2.3	0.3	28.4	2.4	22.9	693.6	12669.0	8.3	328.6	0.44	
SMDH 00029	152.6	18.1	52.5	11.6	1.2	8.1	2.4	5.7	1.1	3.4	0.3	2.3	0.3	28.4	2.4	21.5	673.2	12295.8	9.4	341.9		1.47
SMDH 00029	192.2	22.1	64.2	13.9	1.2	10.4	2.4	5.7	1.1	2.3	0.3	2.3	0.3	36.4	2.4	21.5	729.0	13315.0	11.8	472.8		
SMDH 00029	166.2	20.1	57.2	11.6	1.2	8.1	1.2	3.4	1.1	1.1	0.3	1.1	0.3	31.9	2.4	28.6	689.8	12600.1	10.6	413.6		
SMDH 00029	148.6	17.9	51.3	10.4	1.2	8.1	1.2	3.4	1.1	1.1	0.3	1.1	0.3	29.6	2.4	22.9	727.2	13283.4	9.4	366.1	0.26	1.48
SMDH 00029	154.3	18.8	53.7	10.4	1.2	8.1	1.2	3.4	1.1	1.1	0.3	1.1	0.3	30.7	2.4	20.0	777.5	14202.1	9.4	366.3		
SMDH 00029	176.8	21.4	60.7	12.8	1.2	10.4	2.4	6.9	1.1	2.3	0.3	2.3	0.3	33.0	2.4	30.0	831.6	15189.6	10.6	411.6		

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00029	163.1	19.2	63.0	12.8	1.2	11.5	2.4	6.9	1.1	2.3	0.3	2.3	0.3	30.7	2.4	32.9	832.1	15198.2	11.8	482.0		1.33
SMDH 00029	157.5	18.7	64.2	12.8	1.2	10.4	2.4	6.9	1.1	2.3	0.3	2.3	0.3	27.3	2.4	30.0	811.6	14825.0	10.6	405.5	0.08	
SMDH 00027	316.4	37.2	122.5	22.0	1.2	15.0	3.5	11.5	2.3	5.7	1.1	5.7	1.1	62.6	4.7	31.5	878.3	16042.3	17.7	717.0		
SMDH 00027	277.7	32.0	109.6	19.7	2.3	13.8	2.4	9.2	1.1	3.4	1.1	3.4	0.3	53.5	3.5	28.6	752.4	13742.7	11.8	525.6		1.48
SMDH 00027	283.6	32.3	108.5	18.6	2.3	12.7	2.4	6.9	1.1	2.3	0.3	3.4	0.3	53.5	2.4	28.6	896.8	16381.0	13.0	612.3		
SMDH 00027	262.3	30.2	100.3	17.4	2.3	12.7	2.4	6.9	1.1	2.3	0.3	2.3	0.3	51.2	3.5	25.7	908.0	16584.9	13.0	561.7	0.67	
SMDH 00027	322.0	36.9	124.8	22.0	2.3	16.1	2.4	9.2	1.1	3.4	1.1	3.4	1.1	61.4	3.5	42.9	967.2	17667.2	11.8	551.5		1.52
SMDH 00027	182.2	20.3	70.0	11.6	2.3	8.1	1.2	3.4	1.1	2.3	0.3	1.1	0.3	34.1	1.2	28.6	854.2	15603.0	11.8	549.9		
SMDH 00027	214.6	24.5	70.0	12.8	1.2	8.1	1.2	5.7	1.1	3.4	0.3	2.3	0.3	36.4	2.4	24.3	842.3	15384.8	9.4	497.5		
SMDH 00027	255.4	31.2	98.0	17.4	2.3	12.7	1.2	9.2	1.1	5.7	1.1	4.6	1.1	47.8	2.4	24.3	850.9	15542.7	13.0	556.4	0.17	1.49
SMDH 00027	276.5	34.0	107.3	19.7	1.2	13.8	2.4	14.9	3.4	13.7	2.3	11.4	2.3	51.2	3.5	35.8	991.6	18112.1	16.5	710.9		
SMDH 00026b	242.2	29.5	92.1	17.4	2.3	11.5	1.2	8.0	1.1	5.7	1.1	3.4	1.1	47.8	3.5	20.0	557.5	10182.9	11.8	553.4		
SMDH 00026b	162.8	20.2	63.0	11.6	2.3	8.1	1.2	6.9	1.1	3.4	0.3	2.3	0.3	33.0	2.4	17.2	587.0	10722.6	8.3	382.3	0.38	
SMDH 00026b	154.3	19.2	60.7	11.6	2.3	8.1	1.2	6.9	1.1	4.6	1.1	3.4	0.3	30.7	1.2	17.2	552.3	10088.1	8.3	359.4		
SMDH 00026b	238.3	30.0	91.0	17.4	2.3	12.7	1.2	9.2	2.3	6.9	1.1	4.6	1.1	47.8	2.4	21.5	811.0	14813.5	11.8	566.1		1.41
SMDH 00026b	223.7	22.0	85.1	16.2	2.3	11.5	2.4	8.0	2.3	4.6	1.1	4.6	1.1	35.3	2.4	32.9	578.6	10567.6	10.6	442.8		
SMDH 00026b	214.1	22.4	86.3	15.1	2.3	10.4	2.4	6.9	1.1	3.4	0.3	3.4	0.3	34.1	2.4	35.8	466.5	8520.7	9.4	361.7	0.21	
SMDH 00026b	265.6	27.5	101.5	18.6	2.3	12.7	2.4	9.2	2.3	5.7	1.1	3.4	1.1	47.8	3.5	32.9	645.4	11787.7	14.2	548.3		1.52
SMDH 00026b	258.2	26.5	99.1	18.6	1.2	12.7	2.4	9.2	2.3	4.6	1.1	4.6	1.1	42.1	3.5	37.2	723.9	13223.1	11.8	488.3		
SMDH 00026b	256.7	26.5	94.5	18.6	2.3	11.5	2.4	8.0	1.1	4.6	0.3	3.4	0.3	42.1	3.5	37.2	596.9	10903.5	11.8	471.2		
SMDH 00026b	302.8	30.6	112.0	20.9	2.3	15.0	3.5	11.5	2.3	6.9	1.1	4.6	1.1	51.2	4.7	32.9	754.1	13774.3	11.8	486.7	0.24	1.41
SMDH 00026b	291.1	29.1	107.3	20.9	1.2	15.0	2.4	9.2	1.1	4.6	0.3	3.4	0.3	48.9	3.5	35.8	734.0	13406.8	14.2	583.8		
SMDH 00026b	191.6	22.1	74.2	14.0	1.2	9.0	1.1	4.8	0.9	1.9	0.3	2.5	0.3	37.8	3.7	15.2	387.7	7082.4	10.6	729.6		
SMDH 00026	258.8	29.1	89.8	16.2	1.2	11.5	2.4	8.0	1.1	3.4	0.3	2.3	0.3	51.2	3.5	18.6	516.3	9430.7	11.8	506.6		1.51
SMDH 00026	219.3	24.5	78.1	13.9	2.3	11.5	2.4	8.0	1.1	3.4	1.1	3.4	0.3	43.2	3.5	22.9	628.8	11486.2	9.4	401.6	0.44	
SMDH 00026	227.0	26.0	87.5	15.1	1.2	11.5	2.4	9.2	2.3	3.4	1.1	4.6	1.1	45.5	3.5	24.3	724.7	13237.5	13.0	509.0		
SMDH 00026	209.8	23.9	81.6	15.1	2.3	11.5	2.4	9.2	2.3	4.6	1.1	4.6	1.1	41.0	3.5	21.5	711.7	12999.2	10.6	423.5		1.52
SMDH 00026	241.6	27.8	91.0	16.2	2.3	12.7	2.4	10.3	2.3	4.6	1.1	5.7	1.1	46.7	3.5	27.2	695.2	12697.7	11.8	492.8		
SMDH 00026	287.1	33.0	110.8	19.7	2.3	16.1	3.5	10.3	2.3	4.6	1.1	4.6	1.1	56.9	3.5	32.9	789.2	14414.5	16.5	606.8	0.43	
SMDH 00026	276.8	31.7	101.5	17.4	2.3	15.0	2.4	9.2	1.1	3.4	1.1	3.4	0.3	55.8	2.4	22.9	781.8	14279.6	13.0	478.6		1.45
SMDH 00026	367.2	42.8	145.8	24.4	2.3	18.4	3.5	10.3	2.3	3.4	1.1	4.6	1.1	67.1	3.5	55.8	1010.5	18456.6	16.5	663.6		
SMDH 00026	400.8	30.2	112.0	17.4	2.3	12.7	2.4	6.9	1.1	3.4	0.3	2.3	0.3	53.5	2.4	34.3	971.0	17736.1	13.0	566.1		
SMDH 00026	385.5	28.5	106.1	17.4	2.3	12.7	2.4	9.2	1.1	5.7	1.1	3.4	0.3	54.6	2.4	11.4	868.9	15870.0	8.3	459.7	0.45	1.49
SMDH 00026	467.8	35.3	130.6	20.9	2.3	15.0	2.4	9.2	1.1	4.6	0.3	2.3	0.3	70.5	3.5	25.7	971.0	17736.1	16.5	720.1		
SMDH 00026	454.0	34.9	127.1	20.9	2.3	13.8	2.4	6.9	1.1	3.4	0.3	1.1	0.3	66.0	3.5	27.2	1118.6	20431.8	15.3	690.9		
SMDH 00025b	224.1	17.2	65.3	10.4	1.2	8.1	1.2	5.7	1.1	3.4	0.3	2.3	0.3	34.1	2.4	12.9	449.2	8204.9	8.3	378.0		1.42
SMDH 00025b	250.8	19.8	78.1	12.8	1.2	9.2	1.2	6.9	1.1	3.4	0.3	3.4	0.3	34.1	2.4	31.5	594.6	10860.4	7.1	310.7	0.85	
SMDH 00025b	296.8	23.4	82.8	12.8	1.2	9.2	1.2	5.7	1.1	3.4	0.3	2.3	0.3	36.4	2.4	38.6	579.7	10587.7	7.1	343.5		
SMDH 00025b	274.9	19.8	70.0	11.6	1.2	9.2	1.2	4.6	1.1	3.4	0.3	2.3	0.3	37.6	2.4	20.0	650.2	11876.7	8.3	392.8		1.35
SMDH 00025b	106.9	12.7	53.7	9.3	1.2	10.4	1.2	5.7	1.1	2.3	0.3	2.3	0.3	14.8	1.2	25.7	616.4	11259.4	7.1	156.2		
SMDH 00025b	178.0	20.1	84.0	13.9	1.2	8.1	1.2	5.7	1.1	2.3	0.3	2.3	0.3	31.9	2.4	18.6	461.0	8420.2	8.3	377.1	0.19	
SMDH 00025b	192.9	21.3	89.8	13.9	2.3	10.4	2.4	6.9	1.1	2.3	0.3	3.4	0.3	31.9	2.4	18.6	464.6	8486.2	10.6	419.6		1.39
SMDH 00025b	185.7	20.1	79.3	12.8	1.2	9.2	1.2	5.7	1.1	2.3	0.3	3.4	0.3	30.7	2.4	15.7	468.2	8552.2	9.4	406.2		
SMDH 00025	208.2	22.1	89.8	13.9	1.2	10.4	1.2	6.9	1.1	2.3	0.3	2.3	0.3	36.4	2.4	8.6	365.1	6669.0	9.4	429.6		
SMDH 00025	132.4	14.4	58.3	9.3	1.2	6.9	1.2	4.6	1.1	2.3	0.3	2.3	0.3	22.8	1.2	17.2	298.3	5448.9	7.1	295.3	0.85	1.51
SMDH 00025	195.7	21.7	88.6	13.9	1.2	10.4	2.4	6.9	1.1	2.3	0.3	2.3	0.3	34.1	1.2	18.6	468.2	8552.2	9.4	352.7		
SMDH 00025	192.4	21.5	86.3	13.9	1.2	10.4	2.4	8.0	1.1	3.4	1.1	4.6	1.1	30.7	2.4	21.5	450.1	8222.1	8.3	339.6		
SMDH 00025	161.8	18.0	56.0	10.4	1.2	6.9	1.2	4.6	1.1	2.3	0.3	2.3	0.3	30.7	1.2	14.3	371.7	6789.5	7.1	286.4		1.5
SMDH 00025	173.7	20.5	47.8	12.8	1.2	6.9	1.2	6.9	1.1	3.4	0.3	3.4	0.3	29.6	2.4	22.9	463.3	8463.2	7.1	342.2	0.74	
SMDH 00025	182.7	20.4	63.0	12.8	1.2	9.2	1.2	8.0	1.1	4.6	0.3	3.4	0.3	33.0	2.4	24.3	398.1	7271.8	5.9	257.7		
SMDH 00025	192.2	21.7	72.3	13.9	1.2	10.4	2.4	10.3	1.1	5.7	1.1	5.7	1.1	36.4	2.4	22.9	465.1	8494.8	9.4	398.5		1.44
SMDH 00025	229.1	25.9	84.0	15.1	2.3	11.5	2.4	9.2	1.1	4.6	0.3	3.4	0.3	43.2	2.4	25.7	616.6	11262.3	10.6	426.9		
SMDH 00025	198.4	21.6	70.0	11.6	1.2	9.2	2.4	8.0	1.1	4.6	1.1	4.6	1.1	36.4	2.4	22.9	454.5	8302.5	9.4	376.9		1.49
SMDH 00025	255.1	27.8	89.8	16.2	1.2	11.5	1.2	9.2	1.1	5.7	1.1	4.6	1.1	52.3	3.5	28.6	720.3	13157.1	13.0	530.3		
SMDH 00025	227.7	26.0	85.1	16.2	1.2	11.5	1.2	8.0	1.1	4.6	1.1	3.4	0.3	48.9	3.5	24.3	633.1	11563.8	10.6	465.1		
SMDH 00024b	430.2	48.2	155.1	26.7	1.2	18.4	2.4	12.6	2.3	6.9	1.1	5.7	1.1	92.2	4.7	15.7	568.0	10375.2	20.0	802.1	1.23	1.51
SMDH 00024b	222.2	25.3	80.5	13.9	1.2	9.2	1.2	4.6	1.1	2.3	0.3	1.1	0.3	50.1	2.4	21.5	679.5	12410.7	10.6	462.6		
SMDH 00024b	214.0	23.9	78.1	12.8	2.3	8.1	1.2	4.6	1.1	2.3	0.3	1.1	0.3	44.4	2.4	22.9	668.3	12206.8	7.1	286.9		
SMDH 00024b	138.1	15.9	51.3	8.1	1.2	4.6	0.3	2.3	0.3	1.1	0.3	1.1	0.3	28.4	1.2	12.9	391.7	7154.1	3.5	137.9		1.57
SMDH 00024b	159.1	17.5	57.2	10.4	2.3	5.8	1.2	4.6	1.1	2.3	0.3	2.3	0.3	33.0	2.4	15.7	516.0	9425.0	5.9	259.9	0.7	
SMDH 00024b	205.3	23.3	77.0	13.9	1.2	10.4	1.2	6.9	1.1	3.4	0.3	3.4	0.3	44.4	3.5	21.5	629.3	11494.9	9.4	390.8		
SMDH 00024b	138.1	15.8	52.5	9.3	1.2	6.9	1.2	6.9	1.1	3.4	0.3	3.4	0.3	28.4	2.4	22.9	722.1	13188.7	10.6	399.3		1.38
SMDH 00024b	83.0	9.7	32.7	5.8	1.2	5.8	1.2	6.9	1.1	4.6	1.1	4.6	1.1	17.1	1.2	35.8	1032.3	18855.7	14.2	580.3		
SMDH 00024b	144.2	16.4	56.0	9.3	1.2	8.1	1.2	6.9	1.1	3.4	0.3	3.4	0.3	33.0	2.4	21.5	609.5	11133.1	9.4	399.7	0.6	
SMDH 00024b	154.7	18.0	59.5	10.4	1.2	8.1	1.2	5.7	1.1	2.3	0.3	2.3	0.3	37.6	3.5	20.0	511.6	9344.6	9.4	352.2		1.35
SMDH 00024b	127.5	14.6	49.0	9.3	1.2	6.9	1.2	8.0	1.1	4.6	1.1	4.6	0.3	28.4	3.5	30.0	644.6	11773.3	8.3	358.9		
SMDH 00024b	187.1	21.7	71.2	12.8	1.2	9.2	1.2	6.9	1.1	3.4	0.3	3.4	0.3	43.2	2.4	22.9	692.5	12648.9	10.6	445.5		
SMDH 00024b	253.3	29.2	98.0	17.4	1.2	11.5	1.2	8.0	1.1	3.4	1.1	3.4	1.1	51.2	2.4	34.3	949.3	17339.9	13.0	500.2	0.87	1.35
SMDH 00024b	126.8	14.0	47.8	7.0	2.3	4.6	0.3	2.3	0.3	1.1	0.3	1.1	0.3	25.0	2.4	58.7	1353.7	24726.6	31.8	1290.3		
SMDH 00024b	297.3	32.5	108.5	17.4	1.2	12.7	2.4	8.0	1.1	3.4	1.1	3.4	0.3	56.9	2.4	21.5	728.0	13297.7	13.0	522.6		
SMDH 00024	212.1	23.6	77.0	13.9	1.2	10.4	2.4	8.0	1.1	3.4	1.1	4.6	1.1	44.4	3.5	21.5	646.0	11799.2	14.2	549.4		1.31

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00024	161.2	19.1	63.0	11.6	2.3	9.2	2.4	6.9	1.1	3.4	1.1	3.4	0.3	33.0	2.4	20.0	516.5	9433.6	7.1	306.1	0.96	
SMDH 00024	179.6	20.7	67.7	12.8	2.3	9.2	2.4	6.9	1.1	3.4	1.1	4.6	1.1	35.3	2.4	35.8	552.9	10099.6	9.4	398.2		
SMDH 00024	246.9	28.3	98.0	17.4	1.2	12.7	2.4	6.9	1.1	2.3	0.3	2.3	0.3	51.2	2.4	25.7	750.0	13699.7	14.2	537.2		1.62
SMDH 00024	245.1	27.1	92.1	16.2	2.3	11.5	2.4	5.7	1.1	2.3	0.3	1.1	0.3	48.9	2.4	28.6	691.6	12631.7	10.6	466.4		
SMDH 00024	262.0	29.6	101.5	17.4	1.2	11.5	2.4	5.7	1.1	2.3	0.3	2.3	0.3	52.3	2.4	20.0	855.8	15631.7	14.2	549.0	0.45	
SMDH 00024	313.9	35.0	116.6	19.7	2.3	12.7	2.4	5.7	1.1	1.1	0.3	1.1	0.3	63.7	2.4	21.5	539.7	9858.5	9.4	389.7		1.59
SMDH 00024	250.5	28.5	94.5	16.2	1.2	12.7	2.4	8.0	1.1	3.4	0.3	3.4	0.3	51.2	2.4	24.3	635.4	11606.8	11.8	480.7		
SMDH 00024	280.4	33.5	112.0	19.7	2.3	12.7	2.4	8.0	1.1	2.3	0.3	2.3	0.3	56.9	2.4	25.7	635.4	11606.8	10.6	454.4		
SMDH 00023b	268.5	30.8	102.6	17.4	1.2	11.5	2.4	5.7	1.1	2.3	0.3	2.3	0.3	55.8	2.4	27.2	555.8	10151.3	13.0	519.9	0.58	1.39
SMDH 00023b	187.7	22.4	76.0	12.8	1.2	7.8	0.9	3.8	0.7	1.5	0.3	1.4	0.3	41.9	3.8	20.5	395.0	7214.4	8.0	461.7		1.65
SMDH 00023b	126.0	18.1	60.7	10.4	2.3	6.9	1.2	4.6	1.1	1.1	0.3	2.3	0.3	18.2	1.2	21.5	661.5	12083.4	14.2	593.8		
SMDH 00023b	170.0	19.8	66.5	11.6	1.2	8.1	1.2	3.4	1.1	1.1	0.3	1.1	0.3	31.9	1.2	21.5	810.5	14804.9	11.8	485.3		1.48
SMDH 00023b	284.7	32.1	106.1	17.4	2.3	10.4	1.2	4.6	1.1	1.1	0.3	1.1	0.3	56.9	2.4	18.6	752.2	13739.9	11.8	541.7	0.79	
SMDH 00023b	216.4	23.6	74.6	12.8	2.3	9.2	1.2	3.4	1.1	1.1	0.3	1.1	0.3	38.7	2.4	17.2	661.9	12089.1	9.4	428.6		
SMDH 00023b	239.9	28.8	103.6	16.8	1.6	9.7	1.1	4.2	0.7	1.3	0.3	0.3	0.3	46.4	3.8	25.2	304.3	5558.0	9.8	483.0		
SMDH 00023b	223.2	25.3	86.3	15.1	2.3	9.2	1.2	4.6	1.1	1.1	0.3	2.3	0.3	45.5	2.4	25.7	797.5	14566.7	13.0	552.3		
SMDH 00023b	203.7	23.7	79.3	13.9	1.2	10.4	2.4	6.9	1.1	3.4	0.3	3.4	0.3	44.4	2.4	28.6	618.9	11305.4	11.8	459.1	0.37	
SMDH 00023b	213.0	24.9	75.8	13.9	1.2	10.4	2.4	8.0	1.1	3.4	1.1	4.6	0.3	47.8	2.4	24.3	626.0	11434.6	11.8	496.1		1.48
SMDH 00023b	187.7	21.7	71.2	12.8	1.2	9.2	2.4	6.9	1.1	3.4	1.1	4.6	1.1	43.2	2.4	21.5	534.1	9755.1	9.4	400.0		
SMDH 00023b	189.9	22.5	71.2	13.9	1.2	10.4	2.4	8.0	1.1	4.6	1.1	5.7	1.1	45.5	2.4	27.2	562.4	10271.9	11.8	444.5		
SMDH 00023	351.7	37.5	117.8	20.9	1.2	13.8	2.4	8.0	1.1	3.4	0.3	3.4	0.3	72.8	3.5	18.6	493.4	9011.6	23.6	1095.5	1	1.61
SMDH 00023	248.5	29.2	96.8	17.4	1.2	11.5	2.4	5.7	1.1	2.3	0.3	2.3	0.3	58.0	2.4	17.2	659.5	12046.1	17.7	751.2		
SMDH 00023	201.8	26.0	92.1	15.1	1.2	9.2	1.2	4.6	1.1	2.3	0.3	2.3	0.3	46.7	1.2	11.4	582.0	10630.7	8.3	390.0		1.4
SMDH 00023	286.6	36.2	128.3	19.7	1.2	12.7	1.2	5.7	1.1	3.4	0.3	3.4	0.3	63.7	2.4	15.7	769.2	14049.9	13.0	599.6	1.39	
SMDH 00023	240.6	28.9	99.1	15.1	1.2	10.4	1.2	3.4	0.3	1.1	0.3	1.1	0.3	51.2	1.2	14.3	693.1	12660.4	11.8	569.5		
SMDH 00023	226.4	29.5	154.0	13.9	1.2	5.8	1.2	5.7	0.3	1.1	0.3	1.1	0.3	46.7	1.2	17.2	632.8	11558.0	5.9	379.4		1.58
SMDH 00023	252.4	35.8	149.3	13.9	2.3	5.8	1.2	5.7	1.1	2.3	0.3	1.1	0.3	52.3	1.2	20.0	647.9	11833.6	7.1	299.1		
SMDH 00023	133.3	15.3	51.3	8.1	1.2	6.9	1.2	2.3	0.3	1.1	0.3	1.1	0.3	26.2	1.2	8.6	483.3	8827.8	7.1	273.5	0.77	
SMDH 00023	291.5	32.9	112.0	17.4	1.2	10.4	1.2	5.7	1.1	3.4	0.3	3.4	0.3	55.8	2.4	17.2	870.0	15890.1	13.0	647.0		1.46
SMDH 00023	169.4	20.1	66.5	10.4	1.2	6.9	1.2	3.4	1.1	2.3	0.3	1.1	0.3	34.1	1.2	11.4	660.3	12060.4	8.3	325.4		
SMDH 00023	237.0	27.7	95.6	15.1	1.2	9.2	1.2	5.7	1.1	3.4	0.3	3.4	1.1	46.7	1.2	12.9	630.1	11509.2	8.3	431.3		
SMDH 00023	225.9	26.7	92.1	13.9	1.2	8.1	1.2	4.6	1.1	3.4	0.3	3.4	0.3	44.4	1.2	15.7	704.1	12861.4	10.6	518.0	0.46	1.36
SMDH 00023	196.3	23.6	80.5	12.8	1.2	6.9	1.2	3.4	1.1	2.3	0.3	1.1	0.3	43.2	1.2	12.9	617.7	11282.4	9.4	434.6		
SMDH 00023	226.0	26.9	89.8	13.9	1.2	10.4	1.2	4.6	1.1	2.3	0.3	2.3	0.3	50.1	1.2	21.5	805.0	14704.5	11.8	488.3		
SMDH 00022b	353.9	40.1	137.5	23.1	0.9	12.9	1.5	6.7	1.3	2.7	0.3	3.0	0.3	75.4	5.0	16.0	250.1	4567.5	7.4	583.0		
SMDH 00022b	243.3	31.3	100.3	15.1	2.3	9.2	1.2	3.4	1.1	1.1	0.3	1.1	0.3	52.3	1.2	40.1	617.7	11282.4	8.3	370.8	1.6	
SMDH 00022b	154.5	17.8	60.7	10.4	1.2	6.9	1.2	3.4	1.1	1.1	0.3	1.1	0.3	28.4	1.2	20.0	364.5	6657.5	5.9	266.6		
SMDH 00022b	314.8	38.2	127.1	22.0	2.3	13.8	1.2	8.0	1.1	3.4	0.3	3.4	0.3	69.4	2.4	28.6	897.8	16398.3	14.2	610.8		1.48
SMDH 00022b	268.2	33.2	113.1	18.6	1.2	12.7	1.2	6.9	1.1	3.4	0.3	3.4	0.3	61.4	2.4	18.6	646.8	11813.5	11.8	456.7		
SMDH 00022b	316.3	38.1	130.6	22.0	1.2	16.1	1.2	9.2	1.1	5.7	1.1	5.7	1.1	70.5	2.4	18.6	651.0	11891.0	10.6	441.8	0.6	
SMDH 00022b	278.6	34.8	120.1	19.7	1.2	13.8	1.2	9.2	1.1	5.7	1.1	6.8	1.1	63.7	3.5	22.9	745.2	13610.7	11.8	465.8		1.48
SMDH 00022b	687.9	82.9	260.1	44.1	2.3	38.0	4.7	32.1	6.9	20.6	3.4	31.9	4.5	158.2	5.9	27.2	452.2	8259.4	8.3	306.5		
SMDH 00022b	392.7	46.3	166.8	29.0	2.3	18.4	2.4	12.6	2.3	9.1	1.1	10.2	1.1	87.6	3.5	17.2	669.9	12235.5	8.3	433.3		
SMDH 00022b	394.8	46.0	149.3	26.7	2.3	19.6	2.4	14.9	3.4	12.6	1.1	12.5	2.3	84.2	3.5	21.5	508.6	9290.0	11.8	529.0	0.53	1.35
SMDH 00022	306.9	33.8	119.3	19.9	1.4	12.1	1.5	8.3	1.6	3.7	0.7	4.1	0.8	65.8	4.8	21.5	385.1	7033.6	9.9	593.9		
SMDH 00022	282.2	30.2	104.0	18.2	1.3	10.8	1.4	7.7	1.7	4.0	0.7	4.6	0.9	53.9	4.0	24.6	499.7	9126.4	7.1	417.5		
SMDH 00022	279.6	33.3	117.8	19.7	1.2	12.7	1.2	8.0	1.1	4.6	0.3	4.6	1.1	55.8	2.4	20.0	889.6	16249.0	13.0	526.0		1.43
SMDH 00022	229.2	28.5	97.7	15.5	2.2	10.3	1.2	7.1	1.4	3.4	0.6	3.6	0.6	43.7	2.1	22.9	651.2	11893.9	10.8	459.3	4.56	
SMDH 00022	207.4	24.0	0.6	13.0	1.7	7.6	0.8	3.9	0.7	1.4	0.3	1.4	0.3	40.4	1.4	14.3	366.7	6697.7	9.2	401.3		
SMDH 00022	293.8	20.9	78.7	12.6	1.2	7.3	1.1	6.3	1.4	4.1	0.3	3.3	0.3	36.1	1.8	27.2	505.2	9226.9	10.1	428.7		1.37
SMDH 00022	261.8	19.2	69.8	12.2	1.4	7.1	0.9	5.5	1.0	3.9	0.3	3.0	0.3	31.1	1.5	15.7	415.4	7587.6	9.0	395.2		
SMDH 00021b	263.2	16.1	62.4	10.2	0.8	6.5	0.8	4.2	0.8	2.7	0.3	2.5	0.3	35.8	1.7	14.3	634.3	11586.7	14.0	607.6	0.7	
SMDH 00021b	264.0	16.7	61.9	11.6	0.8	5.8	0.6	3.6	0.6	2.2	0.3	1.7	0.3	45.9	1.3	17.2	623.0	11380.0	10.4	464.1		1.47
SMDH 00021b	217.4	16.3	54.2	9.7	0.7	5.5	0.6	3.0	0.6	2.1	0.3	1.8	0.3	40.6	0.9	14.3	484.6	8850.8	9.1	374.7		
SMDH 00021b	216.1	13.8	50.5	8.0	0.7	4.5	0.3	2.8	0.6	2.5	0.3	2.6	0.3	39.3	1.1	15.7	651.2	11893.9	12.6	526.5		
SMDH 00021b	402.4	27.2	98.8	15.8	1.5	9.9	1.1	6.1	1.0	4.0	0.3	4.1	0.3	50.5	1.4	15.7	641.7	11721.7	12.0	503.7	0.78	1.55
SMDH 00021b	322.8	24.9	97.9	13.3	1.3	11.6	2.1	7.1	1.7	4.5	0.6	6.6	0.9	45.1	1.4	44.3	601.3	10983.8	13.3	510.6		
SMDH 00021b	357.0	27.2	107.1	16.8	1.4	11.9	1.9	6.7	1.0	2.7	0.3	3.5	0.3	52.9	1.2	31.5	759.5	13871.9	15.9	654.6		
SMDH 00021b	340.4	25.5	102.3	15.9	1.0	10.5	1.5	4.5	0.8	1.9	0.3	2.4	0.3	48.9	1.2	27.2	676.9	12364.7	11.7	498.3		1.68
SMDH 00021b	299.1	43.7	151.9	10.9	1.0	6.6	1.1	3.1	0.6	1.6	0.3	1.5	0.3	35.3	0.3	42.9	754.9	13788.7	8.7	529.9	0.6	
SMDH 00021b	196.2	14.9	60.8	9.3	1.2	6.3	0.9	2.9	0.6	1.5	0.3	1.4	0.3	27.0	0.6	17.2	438.7	8012.5	10.0	397.4		
SMDH 00021	236.8	24.2	83.2	14.6	1.2	8.9	1.2	5.4	1.1	2.5	0.3	2.7	0.3	50.2	2.9	18.2	392.9	7177.1	9.5	698.2		1.61
SMDH 00021	81.1	18.4	61.8	16.0	1.6	5.1	0.8	3.1	0.6	1.4	0.7	1.5	0.3	13.5	0.7	14.3	380.8	6956.1	8.6	376.2	0.92	
SMDH 00021	122.0	10.3	42.1	5.5	1.2	5.0	0.7	2.8	0.3	1.3	0.3	1.3	0.3	13.8	0.3	17.2	728.2	13300.6	13.7	600.2		1.5
SMDH 00021	444.4	30.4	118.2	18.2	1.3	12.8	2.4	7.6	1.5	4.0	0.6	5.2	0.7	55.0	1.2	18.6	799.5	14604.0	16.6	672.7		
SMDH 00021	349.5	21.9	102.2	14.5	1.6	8.3	0.6	4.9	0.8	2.2	0.3	1.9	0.3	45.5	0.6	20.0	759.9	13880.5	17.0	450.1		
SMDH 00021	310.4	20.4	91.7	12.5	1.5	8.0	0.3	3.2	0.3	1.0	0.3	0.7	0.3	43.2	0.8	14.3	720.2	13154.2	18.2	443.3	0.56	1.6
SMDH 00021	421.7	26.1	122.1	15.8	1.6	8.9	0.6	3.1	0.3	0.9	0.3	0.3	0.3	56.0	0.6	27.2	896.4	16372.4	23.0	577.6		
SMDH 00021	251.7	15.9	75.7	10.2	1.7	6.6	0.3	4.1	0.7	1.8	0.3	1.4	0.3	35.3	0.3	28.6	704.8	12872.9	15.2	378.5		
SMDH 00020b	172.5	10.3	44.8	7.4	0.7	5.3	0.3	3.2	0.3	1.4	0.3	1.3	0.3	24.5	0.8	10.0	264.4	4828.8	13.8	384.7		1.61
SMDH 00020b	154.5	12.9	53.3	9.4	1.3	6.5	0.3	3.9	0.7	1.6	0.3	1.3	0.3	28.6	0.7	22.9	376.6	6878.5	8.5	227.6	0.62	

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00020b	297.1	19.5	89.3	15.9	2.2	12.2	0.9	9.6	1.6	4.1	0.3	3.1	0.3	31.1	0.9	24.3	456.0	8328.3	12.1	312.7		
SMDH 00020b	187.0	22.4	77.7	15.3	3.4	10.5	1.4	7.1	1.4	3.4	1.6	3.4	0.6	40.6	1.7	17.2	539.6	9855.6	10.5	415.4		1.65
SMDH 00020b	443.8	28.4	137.1	23.2	2.5	9.3	1.1	8.3	1.5	3.7	0.3	2.6	0.3	59.6	1.5	61.5	746.6	13636.5	17.6	462.5		
SMDH 00020b	204.9	15.6	61.1	12.2	1.2	5.9	0.3	2.8	0.3	1.0	0.3	0.6	0.3	26.2	0.8	17.2	348.5	6364.7	6.3	265.2	0.71	
SMDH 00020	320.7	23.8	94.9	18.0	1.0	9.6	0.8	5.3	0.9	3.4	0.3	2.3	0.3	41.1	3.1	12.9	375.5	6858.4	22.6	1014.5		1.69
SMDH 00020	238.8	17.6	71.9	9.9	1.3	5.5	0.3	2.6	0.3	1.4	0.3	0.7	0.3	28.0	1.1	12.9	460.2	8405.8	7.3	324.2		
SMDH 00020	196.2	14.6	60.9	9.4	1.3	4.6	0.3	1.5	0.3	0.8	0.3	0.8	0.3	23.8	0.6	10.0	385.1	7033.6	6.5	262.3		
SMDH 00020	35.7	3.9	13.1	2.3	2.2	1.4	0.3	0.7	0.3	0.3	0.3	0.3	0.3	4.3	1.4	11.3	165.7	3025.9	2.8	113.7		
SMDH 00020	247.6	17.4	72.7	10.0	1.0	5.6	0.6	4.0	0.8	2.5	0.3	2.7	0.3	30.2	0.9	10.0	492.9	9003.0	7.7	310.1		
SMDH 00020	322.3	23.3	91.8	14.5	1.2	7.8	0.6	4.4	0.8	2.6	0.3	2.2	0.3	39.9	1.9	15.7	585.3	10691.0	8.1	373.6		
SMDH 00020	278.5	21.3	80.5	13.0	0.8	6.6	0.3	1.8	0.3	0.9	0.3	0.9	0.3	33.9	1.2	10.0	498.7	9109.2	8.4	367.3		1.55
SMDH 00020	141.5	8.1	31.8	5.6	1.2	3.0	0.3	1.4	0.3	1.1	0.3	1.0	0.3	11.9	0.7	8.6	348.5	6364.7	6.3	281.8	0.58	
SMDH 00019b	399.8	27.9	108.0	18.0	1.4	8.8	0.6	3.2	0.3	1.1	0.3	0.3	0.3	48.8	1.4	10.0	427.5	7808.7	8.8	432.8		
SMDH 00019b	167.3	9.8	33.9	5.7	1.3	3.3	0.3	2.1	0.3	1.3	0.3	1.4	0.3	15.0	0.6	8.6	329.6	6020.2	5.7	268.4		1.46
SMDH 00019b	135.9	11.1	44.9	6.7	1.6	4.8	0.3	2.9	0.7	3.1	0.3	2.5	0.3	18.3	0.6	8.6	348.1	6358.9	5.8	248.3		
SMDH 00019b	187.1	15.0	50.3	8.6	1.5	5.4	0.6	3.9	0.8	3.5	0.3	4.0	0.3	26.6	0.9	11.4	496.0	9060.4	14.3	587.5	0.67	
SMDH 00019b	73.9	6.3	20.5	4.8	1.3	2.2	0.3	1.4	0.3	1.3	0.3	1.0	0.3	8.9	0.3	27.2	492.9	9003.0	9.0	371.5		1.48
SMDH 00019b	294.2	27.7	98.8	18.2	1.6	10.5	1.1	5.9	1.1	4.0	0.6	2.8	0.3	50.0	2.5	14.3	806.5	14730.3	10.8	471.3		
SMDH 00019b	276.4	25.9	90.2	17.9	1.3	10.9	1.3	5.9	1.4	4.1	0.6	3.2	0.6	45.2	2.2	20.0	752.5	13745.6	11.2	480.6		
SMDH 00019b	294.4	26.3	88.2	15.4	1.5	9.7	1.3	5.3	1.3	3.7	0.3	3.0	0.3	44.5	2.1	31.5	852.5	15571.4	13.1	527.8	0.65	1.37
SMDH 00019b	308.0	27.1	91.2	19.7	1.4	10.7	1.3	6.3	1.1	4.1	0.6	2.8	0.6	47.7	2.4	21.5	764.0	13955.2	12.3	525.5		
SMDH 00019b	281.4	26.1	87.2	15.2	1.0	9.8	1.4	6.8	1.4	4.2	0.7	3.3	0.3	46.1	2.5	20.0	829.6	15152.3	11.3	464.8		
SMDH 00019b	88.7	10.3	33.1	6.1	1.2	4.0	0.3	2.5	0.3	1.4	0.3	1.7	0.3	17.3	3.9	27.9	613.1	11199.2	11.1	404.3		
SMDH 00019b	113.6	10.8	36.4	6.1	1.2	4.0	0.6	2.2	0.3	1.7	0.3	1.1	0.3	19.2	1.5	32.9	1393.3	25450.0	18.8	842.0	0.65	
SMDH 00019b	90.2	8.5	26.0	4.9	1.4	3.5	0.3	1.6	0.3	0.8	0.3	0.8	0.3	14.8	0.9	35.8	1445.4	26400.3	17.5	797.9		
SMDH 00019b	211.4	19.5	60.0	11.5	1.3	7.1	0.9	4.4	0.9	2.9	0.3	1.9	0.3	33.8	2.0	21.5	800.6	14624.1	12.0	498.3		1.38
SMDH 00019	247.6	22.1	73.9	14.7	1.3	9.2	1.3	5.2	0.9	2.7	0.3	1.7	0.3	46.2	5.0	17.7	471.5	8612.5	12.7	452.5		
SMDH 00019	230.4	25.6	88.9	14.3	2.1	9.2	1.1	4.8	0.9	2.5	0.3	1.4	0.3	37.3	1.2	18.6	633.2	11566.6	8.8	369.0	0.83	
SMDH 00019	68.3	9.9	32.5	5.1	2.0	2.9	0.3	1.4	0.3	0.8	0.3	0.3	0.3	8.1	0.6	44.3	903.9	16510.2	13.6	373.4		1.55
SMDH 00019	36.7	4.3	14.3	1.7	1.0	1.6	0.6	1.1	0.3	0.7	0.3	0.9	0.3	6.5	3.2	20.0	906.3	16553.3	15.4	424.4		
SMDH 00019	147.4	16.4	56.7	9.6	1.2	5.5	0.8	2.8	0.6	1.0	0.3	1.3	0.3	30.6	0.9	12.9	721.1	13171.4	13.0	380.3	0.5	1.56
SMDH 00019	202.3	22.6	75.8	15.7	1.3	9.3	1.8	4.1	0.8	1.9	0.3	1.5	0.3	41.8	1.1	12.9	738.2	13484.3	12.6	366.5		
SMDH 00019	230.4	26.2	94.2	16.2	1.3	9.9	1.8	4.9	1.0	2.5	0.3	3.1	0.3	49.8	1.5	11.4	769.8	14061.4	16.4	502.8		
SMDH 00019	205.1	23.3	80.8	13.7	0.9	9.0	1.4	4.6	0.8	2.1	0.3	2.3	0.3	46.4	1.4	10.0	716.2	13082.4	14.5	389.4		1.44
SMDH 00019	218.2	23.8	84.6	15.5	1.3	8.1	1.4	4.4	0.8	2.1	0.3	1.9	0.3	47.6	1.2	11.4	704.1	12861.4	12.5	369.3	0.62	
SMDH 00018b	232.5	22.5	84.6	13.9	1.0	8.9	1.8	4.1	0.8	1.9	0.3	2.0	0.3	42.0	2.1	11.4	631.0	11526.4	18.3	508.2		
SMDH 00018b	547.7	41.9	138.0	26.2	2.4	16.3	1.8	8.1	1.3	3.3	0.7	3.3	0.3	68.2	2.8	21.5	761.3	13906.4	19.1	687.2		1.44
SMDH 00018b	392.5	30.1	106.5	17.9	2.0	11.9	1.5	6.5	0.9	3.1	0.6	3.1	0.3	51.5	2.4	20.0	756.9	13826.0	14.9	557.5		
SMDH 00018b	321.6	25.7	83.0	18.1	1.7	11.2	1.3	6.1	1.1	4.8	0.7	3.8	0.6	43.5	2.1	18.6	635.9	11615.4	15.0	564.2	0.66	
SMDH 00018b	337.3	26.5	85.3	18.2	1.6	11.6	1.4	7.0	1.0	4.3	0.6	3.9	0.6	44.7	2.9	21.5	616.1	11253.7	13.8	518.0		1.49
SMDH 00018b	307.6	23.7	79.1	14.3	0.9	9.9	1.2	5.6	1.1	4.6	0.6	3.6	0.3	39.6	2.0	18.6	543.5	9927.4	13.4	506.7		
SMDH 00018b	207.4	16.1	53.4	9.5	1.2	6.1	0.7	3.7	0.7	2.6	0.6	2.7	0.3	25.6	1.3	18.6	547.9	10007.8	14.3	525.2		
SMDH 00018b	298.9	23.3	74.6	14.3	1.7	10.4	1.4	7.5	1.3	4.6	0.7	4.0	0.3	38.1	3.1	27.2	556.7	10168.5	15.3	509.0	0.59	1.67
SMDH 00018b	284.7	22.0	72.4	13.1	2.2	9.2	1.2	6.2	1.4	4.9	0.7	3.9	0.6	37.3	2.2	24.3	635.9	11615.4	14.9	590.2		
SMDH 00018b	267.4	22.8	68.7	14.5	1.9	8.2	1.2	6.3	1.3	4.2	0.6	3.3	0.3	28.4	2.0	51.5	534.7	9766.6	10.4	379.4		
SMDH 00018b	145.6	15.3	56.7	9.4	1.3	6.3	1.4	4.6	1.1	2.6	0.3	3.0	0.3	25.8	1.4	41.5	632.6	11555.1	11.6	516.0		1.58
SMDH 00018b	156.6	16.3	53.9	9.4	1.5	7.1	1.3	5.3	0.9	2.5	0.3	2.6	0.3	26.7	1.7	57.2	1017.9	18591.6	17.2	756.4	0.66	
SMDH 00018b	139.1	15.8	52.4	9.4	1.3	5.8	1.1	3.0	0.3	1.3	0.3	1.4	0.3	22.9	1.5	60.1	766.1	13992.5	12.5	581.1		
SMDH 00018	161.8	15.9	50.9	9.6	0.9	6.6	1.2	4.1	0.7	1.6	0.3	1.8	0.3	28.3	1.8	28.6	444.0	8110.1	14.4	645.3		1.62
SMDH 00018	149.5	14.3	48.9	9.6	0.7	5.3	0.9	3.0	0.6	1.6	0.3	1.5	0.3	26.3	1.5	21.5	411.5	7515.9	13.8	617.7		
SMDH 00018	79.7	8.8	31.7	5.7	1.3	3.0	0.6	2.2	0.3	1.5	0.3	1.3	0.3	14.3	0.9	17.2	416.8	7613.5	7.5	333.1	0.79	
SMDH 00018	200.6	20.8	74.1	10.9	2.0	9.1	1.8	3.7	0.8	1.9	0.3	1.9	0.3	35.4	2.7	61.5	912.2	16662.4	16.7	780.6		1.5
SMDH 00018	140.9	15.2	52.1	11.4	1.4	6.9	1.5	5.7	1.1	3.1	0.6	3.6	0.3	24.8	2.0	44.3	611.7	11173.3	14.2	607.9		
SMDH 00018	140.4	15.2	51.8	8.6	1.4	6.5	1.5	4.2	0.6	1.8	0.3	1.7	0.3	21.8	2.0	54.4	679.5	12410.7	12.3	547.1		
SMDH 00018	176.5	18.1	65.8	14.3	1.6	8.1	1.1	6.3	1.4	4.5	0.9	6.6	0.8	32.5	2.0	45.8	781.3	14271.0	12.5	647.0	0.56	1.34
SMDH 00018	219.4	21.9	81.4	17.5	1.6	10.8	1.4	7.6	1.9	6.6	1.1	8.3	1.0	39.9	2.6	40.1	738.9	13495.8	13.4	685.3		
SMDH 00018	179.7	17.0	63.9	13.9	2.1	8.5	1.2	6.5	1.1	3.8	0.7	5.6	0.6	32.1	2.0	48.6	852.8	15577.2	11.4	609.2		
SMDH 00222	292.4	26.8	104.3	20.8	1.6	11.8	1.5	5.2	1.0	2.6	0.3	3.3	0.3	49.0	2.5	40.1	680.6	12430.7	15.7	833.0		1.44
SMDH 00222	271.0	24.2	80.9	13.5	1.6	9.6	1.2	5.3	0.8	2.7	0.3	2.0	0.3	37.1	2.6	24.3	684.6	12505.4	15.9	663.0	0.49	
SMDH 00222	264.1	21.9	85.5	15.2	2.1	10.7	1.5	5.6	1.3	5.3	0.7	3.5	0.7	37.2	3.3	28.6	551.7	10076.7	12.4	549.9		
SMDH 00222	318.3	27.2	88.2	15.1	2.1	10.3	1.4	5.5	0.8	3.0	0.3	2.3	0.3	44.2	3.7	37.2	741.2	13538.9	20.5	821.3		1.65
SMDH 00222	234.9	21.1	68.0	10.9	2.0	6.0	0.6	2.6	0.3	0.9	0.3	1.1	0.3	33.5	1.5	18.6	656.4	11988.6	14.9	567.7		
SMDH 00222	208.7	18.5	56.0	8.5	1.7	6.5	1.2	5.7	1.0	3.4	0.6	2.6	0.3	27.9	2.6	15.7	967.6	17672.9	13.9	500.9	0.62	
SMDH 00222	87.1	8.0	31.5	8.8	2.5	7.5	1.3	8.4	1.7	6.9	0.8	4.2	1.0	7.5	1.9	21.5	1830.4	33433.8	6.8	300.0		1.92
SMDH 00222	109.1	8.6	31.0	5.6	2.2	4.5	0.7	3.4	0.8	3.1	0.3	2.2	0.3	11.5	0.7	24.3	826.1	15089.1	9.6	387.0		
SMDH 00222	55.9	4.8	17.3	2.6	0.9	1.7	0.3	2.8	0.8	3.3	0.3	2.7	0.6	6.0	0.8	11.4	495.1	9043.2	14.2	637.6		
SMDH 00223	652.0	60.5	209.0	34.2	2.3	26.3	3.1	11.2	2.2	8.2	1.1	5.4	0.8	112.8	6.4	17.2	738.4	13487.2	46.2	1792.4	0.86	1.46
SMDH 00223	95.7	12.1	44.7	8.1	1.0	4.0	0.9	3.6	0.3	1.1	0.3	1.1	0.3	19.6	0.8	35.8	441.0	8055.6	12.1	447.0		
SMDH 00223	143.8	18.2	67.0	12.2	1.5	7.5	1.2	5.0	0.3	1.1	0.3	1.3	0.3	29.7	1.2	35.8	603.7	11026.9	11.4	486.6		
SMDH 00223	125.1	14.9	48.8	10.0	1.0	6.9	1.2	4.9	0.7	1.5	0.3	1.6	0.3	28.0	1.4	12.9	353.5	6456.5	9.7	386.7		1.61
SMDH 00223	160.2	18.2	64.2	12.1	0.9	7.5	1.5	6.3	0.8	2.3	0.3	2.4	0.3	32.4	1.5	17.2	559.8	10225.9	13.7	541.4		

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00223	145.3	17.6	55.1	11.6	0.8	7.7	1.4	6.4	0.8	2.2	0.3	2.0	0.3	31.1	2.0	15.7	531.7	9712.1	11.1	445.0		1.61
SMDH 00223	143.1	15.8	50.5	11.2	1.3	5.5	0.8	3.9	0.3	1.3	0.3	0.9	0.3	32.7	0.9	20.0	732.0	13369.5	16.3	660.8		
SMDH 00223	161.8	17.4	63.3	11.9	1.2	6.2	1.3	6.1	0.9	2.5	0.3	2.7	0.3	34.5	1.1	18.6	559.8	10225.9	13.1	542.3	0.68	
SMDH 00223	193.0	21.3	79.8	12.3	1.3	8.0	1.4	6.8	0.9	2.7	0.6	2.8	0.3	42.6	1.4	20.0	763.2	13940.8	16.5	684.5		1.52
SMDH 00224	140.0	10.6	33.5	5.9	0.6	3.8	0.3	2.2	0.6	1.4	0.3	1.1	0.3	20.7	0.9	7.2	360.9	6591.5	8.5	386.3		
SMDH 00224	92.9	7.9	25.7	4.2	1.7	3.2	0.3	2.3	0.3	1.5	0.3	1.5	0.3	10.0	0.6	11.4	490.2	8954.2	3.3	167.1		
SMDH 00224	81.8	6.4	20.8	3.1	1.3	2.5	0.3	2.0	0.3	1.7	0.3	1.1	0.3	10.1	1.1	12.9	614.5	11225.0	10.0	497.2	0.74	1.63
SMDH 00224	70.3	5.8	19.7	2.6	1.2	2.8	0.3	2.5	0.6	2.4	0.3	2.2	0.3	8.3	0.8	14.3	564.9	10317.8	11.0	495.6		
SMDH 00224	43.1	3.4	10.6	1.5	0.8	1.3	0.3	1.0	0.3	0.6	0.3	1.0	0.3	3.6	0.6	20.0	535.0	9772.3	10.3	497.1		
SMDH 00224	46.1	3.6	11.2	1.2	1.0	1.4	0.3	1.3	0.3	0.9	0.3	0.8	0.3	5.0	0.6	14.3	592.2	10817.3	11.6	537.8		1.69
SMDH 00224	58.1	4.7	15.9	2.6	1.3	2.8	0.6	3.4	1.0	3.5	0.3	2.8	0.3	6.7	0.8	12.9	709.2	12953.2	12.3	568.0	0.57	
SMDH 00224	69.0	5.4	17.7	3.0	1.3	3.0	0.6	4.1	1.3	3.9	0.3	3.9	0.3	7.6	0.7	18.6	607.2	11090.1	11.9	535.9		
SMDH 00224	52.3	4.0	12.1	1.7	1.2	1.7	0.3	2.4	0.6	2.2	0.3	2.2	0.3	6.0	0.8	12.9	641.9	11724.5	11.1	545.6		1.66
SMDH 00224	30.0	3.3	9.0	1.6	1.2	1.8	0.3	2.6	0.7	2.1	0.3	1.9	0.3	3.2	0.8	14.3	768.4	14035.5	16.3	789.3		
SMDH 00225	258.7	29.8	86.2	16.4	2.1	14.4	1.5	9.1	1.6	4.5	0.3	3.3	0.6	43.1	2.9	18.6	624.8	11411.6	16.6	819.4	1.14	
SMDH 00225	234.7	26.2	78.6	15.4	1.7	12.0	1.4	6.7	1.5	4.0	0.3	2.5	0.3	38.5	2.1	22.9	624.8	11411.6	12.7	648.5		1.71
SMDH 00225	7915.3	1191.2	3280.8	504.7	131.0	277.0	23.2	94.1	13.2	27.4	2.2	9.1	1.4	310.1	11.1	2313.1	3315.4	60557.6	22.4	1366.1		
SMDH 00225	303.4	36.9	105.9	20.9	2.8	15.0	1.3	7.7	1.4	3.1	0.3	1.9	0.3	48.0	1.9	41.5	833.0	15215.5	14.9	807.2		
SMDH 00225	303.0	34.9	103.7	20.8	1.7	17.2	1.8	10.1	1.9	5.8	0.8	5.4	0.6	51.8	2.4	27.2	837.3	15293.0	14.3	757.0	0.56	1.36
SMDH 00225	330.3	38.9	115.5	19.1	2.0	17.6	1.8	9.4	2.2	5.0	0.8	4.3	0.7	58.4	2.6	25.7	847.6	15482.5	15.3	770.8		
SMDH 00225	281.4	32.4	102.8	17.9	2.3	15.3	1.4	8.1	1.4	3.2	0.3	2.2	0.3	49.0	2.0	24.3	745.6	13619.3	13.3	672.2		
SMDH 00225	293.5	32.4	98.8	19.2	2.1	15.6	1.6	7.6	1.5	4.1	0.6	2.5	0.3	51.3	1.8	22.9	770.6	14075.7	15.0	751.2		1.5
SMDH 00225	321.1	32.3	120.5	19.6	2.7	14.2	1.4	11.5	1.4	8.8	0.8	3.3	0.8	46.5	2.0	30.0	847.8	15485.3	15.4	1048.2	0.48	
SMDH 00225	356.1	37.9	125.9	20.1	2.9	17.3	1.8	10.1	1.0	5.5	0.3	2.3	0.3	58.0	2.1	30.0	964.9	17624.1	17.6	1086.3		
SMDH 00225	322.0	32.4	113.4	20.8	2.4	13.9	1.4	9.5	1.1	6.3	0.6	2.3	0.6	47.6	2.4	28.6	960.2	17538.0	20.6	1286.9		1.62
SMDH 00225	274.1	29.2	104.0	18.1	2.3	14.5	1.5	7.9	1.3	8.2	0.6	3.8	0.8	41.6	1.7	31.5	967.2	17667.2	17.9	1232.9		
SMDH 00226	489.9	38.5	124.6	22.5	1.3	15.1	2.0	9.2	1.6	4.8	0.3	3.9	0.7	65.0	2.8	22.9	616.9	11268.1	20.5	1132.5	0.95	
SMDH 00226	379.7	31.1	93.9	17.7	2.0	11.5	1.5	8.1	1.5	4.2	0.3	3.2	0.3	43.2	2.6	22.9	670.0	12238.4	12.6	744.7		1.48
SMDH 00226	330.3	25.3	80.1	15.8	1.5	9.6	1.6	7.2	1.6	3.8	0.7	3.9	0.3	37.9	2.9	22.9	664.1	12129.3	10.1	588.0		
SMDH 00226	227.9	18.7	56.9	11.0	0.9	7.1	1.1	5.5	1.0	2.9	0.3	2.8	0.3	27.0	1.9	14.3	434.3	7932.1	8.4	443.1		
SMDH 00226	281.4	22.0	73.8	13.0	1.4	8.4	1.3	6.2	1.0	3.5	0.6	3.1	0.3	32.4	2.1	17.2	542.2	9904.4	11.7	675.9	0.63	1.42
SMDH 00226	268.7	20.7	58.4	12.5	1.2	7.4	0.9	5.2	0.9	2.6	0.3	2.8	0.3	31.4	1.5	20.0	536.4	9798.2	11.0	668.4		
SMDH 00226	310.0	24.6	84.6	15.1	1.2	9.6	1.4	5.4	1.0	2.6	0.3	2.7	0.3	37.9	1.7	17.2	607.2	11090.1	13.0	766.4		
SMDH 00226	302.9	23.4	73.6	14.1	1.2	8.6	1.4	6.9	1.3	3.1	0.3	3.0	0.3	34.4	1.5	17.2	579.7	10587.7	9.7	545.6		1.39
SMDH 00226	277.6	22.2	70.2	14.0	1.3	8.6	1.3	8.0	1.5	4.8	0.7	4.6	0.6	32.8	1.5	17.2	560.9	10246.0	10.3	586.9	0.58	
SMDH 00226	204.2	23.8	81.8	15.1	1.6	10.1	2.2	9.0	1.4	5.3	0.6	3.1	0.3	37.8	1.9	27.2	591.0	10794.4	10.1	454.9		
SMDH 00226	205.9	23.6	84.0	13.8	1.5	11.1	2.1	7.0	1.3	4.3	0.3	2.7	0.3	40.1	1.8	27.2	626.3	11440.3	10.5	451.4		1.38
SMDH 00226	237.7	27.4	96.7	16.8	1.5	11.5	2.7	7.9	1.4	4.8	0.7	3.0	0.3	45.3	2.0	35.8	666.3	12169.5	11.2	473.3		
SMDH 00226	107.5	11.7	40.5	6.6	1.6	4.7	0.7	2.6	0.3	1.7	0.3	1.3	0.3	19.1	0.9	20.0	586.3	10708.2	8.5	379.0	0.15	
SMDH 00227	325.5	37.0	127.4	21.6	1.7	13.0	1.5	7.2	1.1	3.0	0.3	2.6	0.3	65.7	5.7	32.8	451.6	8247.9	6.2	268.0		1.56
SMDH 00227	127.3	14.3	50.5	9.2	0.9	5.6	0.9	2.8	0.6	1.9	0.3	0.9	0.3	24.5	0.8	18.6	456.7	8342.7	6.4	283.8		
SMDH 00227	96.7	10.9	41.3	6.7	1.2	4.4	0.9	2.5	0.6	2.1	0.3	1.3	0.3	18.5	0.9	18.6	412.1	7527.3	7.2	321.1	0.71	1.58
SMDH 00227	144.2	15.9	58.3	10.0	0.8	4.7	1.1	2.3	0.3	1.0	0.3	0.3	0.3	29.7	0.9	8.6	362.6	6623.0	8.1	318.5		
SMDH 00227	180.5	20.9	72.1	10.9	1.0	6.6	1.4	2.6	0.6	1.3	0.3	0.8	0.3	37.4	1.1	11.4	341.4	6235.5	9.8	422.9		
SMDH 00227	361.4	26.6	95.5	17.2	1.7	8.8	1.5	6.2	1.1	3.7	0.3	2.7	0.3	57.5	1.5	8.6	513.0	9370.4	11.2	392.9		1.55
SMDH 00227	303.0	21.1	74.1	14.7	1.5	6.1	0.8	4.2	0.8	1.5	0.3	1.7	0.3	48.5	1.4	8.6	440.1	8038.4	11.1	432.9	0.53	
SMDH 00227	376.3	27.1	103.0	17.6	1.7	8.6	1.6	6.3	1.5	4.8	0.3	4.1	0.3	60.3	1.3	12.9	628.7	11483.4	13.1	455.9		
SMDH 00227	360.9	26.7	105.9	19.0	1.9	9.0	1.8	7.8	1.5	5.8	0.6	4.8	0.6	56.9	1.4	12.9	490.4	8957.0	9.0	347.7		1.55
SMDH 00227	264.2	19.8	70.7	14.1	1.6	6.3	1.3	5.0	1.1	4.5	0.3	4.4	0.3	42.8	1.3	10.0	399.8	7303.4	8.3	317.6		
SMDH 00228	428.1	47.5	180.8	27.3	2.5	15.2	1.8	9.2	1.8	4.6	0.8	5.8	0.7	66.6	6.0	45.8	576.4	10527.4	13.9	402.3		
SMDH 00228	239.2	19.2	68.5	12.8	2.2	7.5	1.3	6.4	1.1	4.2	0.3	3.3	0.3	37.1	2.6	28.6	875.1	15984.9	16.3	626.9		1.45
SMDH 00228	57.7	5.2	18.3	3.7	1.4	2.5	0.3	2.8	0.6	2.1	0.3	1.9	0.3	8.3	1.4	21.5	734.3	13412.6	15.9	628.1		
SMDH 00228	179.5	13.2	45.5	9.6	1.2	4.4	0.9	5.3	1.1	3.7	0.3	2.8	0.3	26.4	1.5	11.4	422.5	7716.8	10.1	340.5		
SMDH 00228	236.2	17.9	65.2	12.6	1.4	5.2	1.3	6.0	1.3	4.6	0.3	4.0	0.3	34.9	1.7	11.4	578.4	10564.7	10.7	381.3	0.64	1.52
SMDH 00228	54.3	3.6	14.7	1.6	0.9	1.2	0.3	2.0	0.3	0.7	0.3	0.7	0.3	7.6	0.6	12.9	480.9	8784.8	5.8	354.2		
SMDH 00228	46.4	3.5	12.8	1.3	1.3	0.9	0.3	0.7	0.3	0.7	0.3	0.3	0.3	5.9	0.6	14.3	480.9	8784.8	7.2	390.8		
SMDH 00229	273.6	18.7	68.8	11.2	0.3	6.3	0.7	4.7	0.8	2.1	0.3	1.7	0.3	49.2	2.1	12.9	521.8	9531.2	10.5	528.3		1.53
SMDH 00229	532.5	40.8	140.4	22.0	1.6	10.9	1.4	9.1	1.1	3.1	0.3	2.4	0.3	93.1	3.1	27.2	980.8	17914.1	14.4	780.0	0.8	
SMDH 00229	129.7	9.5	35.0	4.5	1.0	2.5	0.3	1.7	0.3	0.7	0.3	0.8	0.3	20.4	1.1	12.9	608.1	11107.3	5.2	305.4		
SMDH 00229	69.3	6.0	17.6	3.1	1.5	1.8	0.3	1.4	0.3	0.8	0.3	1.1	0.3	10.0	1.3	15.7	723.0	13205.9	7.7	451.6		1.32
SMDH 00229	60.7	4.8	15.9	1.9	0.9	1.6	0.3	1.1	0.3	0.3	0.3	0.6	0.3	8.6	1.2	10.0	490.4	8957.0	10.1	482.1		
SMDH 00229	28.5	2.2	6.6	1.5	0.9	0.9	0.3	0.3	0.3	0.3	0.3	0.6	0.3	3.1	0.3	8.6	405.5	7406.8	5.4	312.8	0.66	
SMDH 00229	82.7	6.0	20.8	3.5	0.9	1.7	0.3	1.4	0.3	0.7	0.3	0.6	0.3	12.7	0.3	10.0	484.1	8842.2	6.6	378.2		1.55
SMDH 00229	134.9	10.1	33.8	5.1	2.0	3.7	0.3	2.0	0.3	1.1	0.3	1.1	0.3	15.2	0.9	14.3	570.7	10424.0	9.3	370.5		
SMDH 00229	329.7	26.2	89.5	13.2	1.5	9.8	1.1	4.8	0.8	2.2	0.3	1.6	0.3	41.5	2.2	25.7	697.2	12735.1	9.6	483.6		
SMDH 00229	228.5	18.5	63.1	10.1	1.3	7.1	0.7	3.9	0.7	2.4	0.3	1.5	0.3	34.4	1.7	18.6	568.5	10383.8	9.9	433.6	0.56	1.36
SMDH 00229	367.2	27.4	90.7	16.2	1.7	11.1	1.2	6.5	0.9	3.2	0.3	2.0	0.3	49.7	1.9	22.9	678.7	12396.3	8.0	409.4		
SMDH 00229	354.1	27.7	91.3	16.4	1.7	10.8	1.2	7.0	1.1	4.0	0.3	2.8	0.7	47.8	1.8	24.3	754.7	13785.8	9.7	495.9		
SMDH 00229	354.9	26.5	87.8	13.8	1.9	9.9	1.1	6.4	1.0	4.1	0.3	3.2	0.6	47.2	1.9	20.0	685.4	12519.7	9.1	490.2		1.55
SMDH 00229	436.1	33.5	120.8	17.9	1.6	11.9	1.4	7.0	1.3	5.4	0.3	3.4	0.6	64.2	1.9	17.2	736.8	13458.5	9.9	494.9	0.56	
SMDH 00229	390.9	30.6	101.5	16.6	1.3	11.5	1.2	6.8	1.1	4.6	0.3	3.3	0.3	55.3	1.7	18.6	718.9	13131.2	8.0	411.6		

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00229	406.2	30.9	106.1	18.9	1.5	11.8	1.3	7.8	1.4	5.0	0.6	3.9	0.7	59.2	1.7	21.5	730.2	13337.9	9.3	473.5		1.32
SMDH 00230	310.3	24.8	83.7	15.4	1.2	9.6	1.2	5.5	0.8	3.2	0.3	2.2	0.3	45.3	2.6	12.9	589.1	10759.9	10.8	541.0		
SMDH 00230	240.5	19.8	65.2	14.1	1.6	8.4	1.1	4.7	0.8	2.4	0.3	1.6	0.3	33.7	1.7	15.7	512.9	9367.6	6.3	331.1	0.75	
SMDH 00230	285.0	25.7	87.6	15.4	3.4	11.2	1.4	8.3	1.7	5.4	0.3	3.8	0.8	36.0	1.7	18.6	519.6	9491.0	7.0	373.8		1.42
SMDH 00230	165.2	19.9	69.8	12.6	1.3	8.9	2.1	5.4	1.1	2.2	0.3	2.3	0.3	38.2	1.7	22.9	651.0	11891.0	12.5	522.4		
SMDH 00230	170.5	19.5	67.1	11.6	1.6	7.8	1.6	4.9	1.0	2.3	0.3	2.4	0.3	39.4	1.8	20.0	488.8	8928.3	12.1	474.9		
SMDH 00230	222.5	24.8	87.7	17.4	1.9	9.9	2.1	6.9	1.6	3.2	0.3	3.1	0.7	49.6	2.7	28.6	484.4	8847.9	11.9	516.5	0.57	1.43
SMDH 00230	169.6	19.3	70.0	12.2	1.4	8.4	1.6	5.6	1.1	2.7	0.3	2.5	0.3	37.3	2.1	18.6	482.4	8810.6	11.7	417.8		
SMDH 00230	140.4	15.8	57.9	11.1	1.2	7.1	1.4	4.0	0.8	1.4	0.3	1.1	0.3	32.1	2.0	24.3	590.5	10785.8	12.1	693.6		1.32
SMDH 00230	132.7	15.7	50.9	10.7	1.3	7.1	1.6	5.2	1.0	2.2	0.3	2.2	0.3	28.8	2.0	25.7	631.5	11535.0	11.8	496.8	0.6	
SMDH 00230	120.4	15.0	50.4	8.5	1.4	6.3	1.2	4.7	1.1	1.9	0.3	2.2	0.3	24.2	1.7	30.0	581.9	10627.9	11.7	520.1		
SMDH 00230	163.1	18.2	65.6	11.5	1.5	9.1	2.0	8.4	1.9	4.3	0.8	4.4	0.8	34.5	2.4	22.9	601.3	10983.8	11.4	519.1		1.39
SMDH 00230	163.9	13.0	43.0	8.1	1.2	4.8	0.9	3.6	0.7	1.9	0.3	2.0	0.3	25.6	1.7	24.3	797.2	14560.9	11.2	450.8		
SMDH 00230	280.1	21.7	71.6	13.9	1.6	9.0	1.3	5.2	0.9	3.2	0.3	2.5	0.3	43.1	2.1	21.5	711.7	12999.2	9.1	401.1	0.52	
SMDH 00230	340.8	26.6	93.5	17.0	1.7	11.1	1.8	7.0	1.4	3.7	0.6	3.1	0.6	55.3	2.7	27.2	759.5	13871.9	8.5	370.0		1.24
SMDH 00230	312.8	25.7	82.5	16.7	2.1	11.1	1.4	7.3	1.1	3.4	0.3	2.6	0.3	48.6	2.5	32.9	608.6	11115.9	6.6	300.6		
SMDH 00230	290.6	22.6	73.5	15.1	1.6	8.9	1.4	6.1	1.3	3.9	0.6	2.6	0.3	45.2	2.7	25.7	588.5	10748.4	9.3	419.4		
SMDH 00230	325.4	24.5	84.9	17.3	1.9	11.6	1.6	8.0	1.1	4.2	0.6	3.2	0.3	54.7	2.6	22.9	658.9	12034.6	10.8	476.6	0.49	1.45
SMDH 00231	376.5	28.4	97.5	17.9	1.6	10.4	1.6	7.5	1.1	3.9	0.3	2.8	0.3	55.5	3.2	10.0	729.3	13320.7	13.3	552.3		
SMDH 00231	543.3	42.5	146.8	29.7	1.9	16.8	2.6	9.9	1.7	5.1	0.7	3.6	0.3	79.9	5.3	18.6	814.8	14882.4	19.2	855.2		
SMDH 00231	369.5	25.7	87.7	16.4	1.6	9.7	1.8	6.5	1.0	3.7	0.3	1.7	0.3	50.0	3.2	21.5	792.2	14469.0	13.8	620.2		1.48
SMDH 00231	198.4	23.3	82.0	13.3	1.9	9.7	2.0	6.3	1.1	1.9	0.3	2.3	0.3	38.7	2.5	15.7	535.2	9775.2	9.6	387.0	0.81	
SMDH 00231	171.5	20.3	67.0	14.1	1.7	8.2	1.6	5.0	1.0	1.9	0.3	2.7	0.3	33.1	2.1	14.3	564.6	10312.1	8.0	376.9		
SMDH 00231	159.1	18.8	62.1	10.8	1.9	7.4	1.8	5.4	1.0	1.9	0.3	2.0	0.3	31.3	2.0	14.3	521.5	9525.5	8.4	358.6		1.3
SMDH 00231	150.5	17.4	67.9	10.6	1.6	6.7	1.4	4.6	0.9	2.1	0.3	1.8	0.3	28.0	1.7	14.3	523.7	9565.6	6.6	274.6		
SMDH 00231	171.2	20.1	67.8	13.7	1.7	9.6	1.9	7.5	1.6	3.0	0.7	3.4	0.3	29.7	2.0	31.5	782.2	14288.2	12.7	592.1	0.54	
SMDH 00231	176.5	20.4	70.1	12.2	1.4	10.4	2.6	9.6	1.9	4.3	0.8	4.7	0.8	31.4	2.5	24.3	709.6	12961.9	11.3	459.0		1.31
SMDH 00231	201.7	24.2	80.6	13.9	1.6	10.4	2.5	9.1	1.7	4.8	0.8	4.3	0.8	37.8	3.2	22.9	682.4	12465.2	11.8	488.3		
SMDH 00231	222.0	25.4	91.6	16.2	1.9	12.0	2.7	9.2	2.3	5.3	0.9	5.8	0.6	43.6	3.2	22.9	677.9	12381.9	11.0	470.2		
SMDH 00231	219.5	26.3	91.0	14.0	2.2	11.1	2.2	7.2	1.3	3.1	0.3	3.3	0.3	39.8	2.7	35.8	662.0	12092.0	9.7	432.0	0.46	1.25
SMDH 00231	240.8	21.1	74.6	13.2	1.9	8.9	1.4	4.4	0.8	1.5	0.3	1.0	0.3	41.6	1.9	31.5	744.4	13596.3	11.2	509.5		
SMDH 00231	294.9	27.8	101.5	17.2	2.2	11.9	2.0	6.7	0.9	2.1	0.3	1.6	0.3	53.0	3.1	38.6	799.7	14606.8	10.5	498.6		
SMDH 00232	400.7	35.5	129.7	21.9	1.3	15.6	2.6	8.6	1.6	3.7	0.3	3.9	0.6	72.4	4.0	12.9	651.3	11896.8	15.2	692.0		1.56
SMDH 00232	503.6	44.5	159.6	27.7	1.5	18.7	3.1	9.2	1.9	3.9	0.6	3.8	0.6	89.3	4.7	17.2	1131.6	20670.1	9.3	464.3	0.39	
SMDH 00232	432.8	24.3	111.9	19.0	1.9	10.9	1.8	7.6	1.5	3.8	0.3	2.0	0.3	74.4	3.9	14.3	521.3	9522.6	9.1	383.8		
SMDH 00232	403.4	31.9	155.0	24.2	2.8	10.9	1.4	6.3	1.1	3.2	0.3	1.0	0.3	42.2	1.9	21.5	696.3	12717.8	8.6	346.9		1.34
SMDH 00232	261.2	14.3	67.2	10.4	1.6	6.3	0.8	4.1	0.9	1.4	0.3	1.0	0.3	43.0	2.4	17.2	617.2	11273.8	11.2	473.7		
SMDH 00232	191.5	10.8	51.9	8.0	1.5	4.3	0.6	3.9	0.7	1.9	0.3	1.4	0.3	32.1	1.7	12.9	428.9	7834.5	8.1	338.4	0.57	
SMDH 00232	226.8	12.9	60.7	9.7	1.3	5.3	1.1	5.2	1.1	3.4	0.3	2.3	0.3	39.1	2.7	14.3	499.5	9123.5	10.8	447.2		1.4
SMDH 00232	230.4	12.7	63.7	8.9	1.5	6.0	1.1	6.4	1.4	4.8	0.6	3.1	0.6	38.9	2.6	24.3	551.7	10076.7	12.0	500.3		
SMDH 00232	204.3	11.1	51.8	8.8	1.4	5.1	1.1	4.8	1.3	3.5	0.3	2.0	0.3	33.7	2.5	15.7	403.6	7372.3	8.3	373.2		
SMDH 00232	192.9	10.4	52.6	8.9	2.0	4.8	0.8	5.2	1.1	3.8	0.3	2.5	0.6	30.5	2.6	22.9	454.1	8293.9	9.8	416.2	0.5	1.4
SMDH 00232	216.0	11.5	59.3	9.9	1.3	5.2	1.1	5.6	1.3	3.9	0.6	3.0	0.6	35.4	2.5	18.6	509.6	9307.3	10.8	462.5		
SMDH 00232	203.9	24.2	81.6	12.4	2.0	9.9	2.1	7.2	1.5	3.1	0.6	2.8	0.3	37.9	2.9	27.2	690.8	12617.4	13.4	666.9		
SMDH 00232	168.4	19.7	73.9	10.6	1.5	8.9	1.9	6.7	1.3	3.0	0.7	3.8	0.3	31.6	2.5	24.3	519.3	9485.3	10.0	490.2		1.48
SMDH 00233	178.7	19.9	72.0	10.4	1.2	8.4	1.9	4.4	0.8	2.3	0.3	2.4	0.3	33.1	2.0	20.0	536.1	9792.4	9.1	455.9	0.75	
SMDH 00233	162.1	18.6	68.2	11.1	1.2	7.4	1.5	4.6	0.8	2.2	0.3	1.8	0.3	30.2	2.0	25.7	558.0	10191.5	9.2	407.7		
SMDH 00233	174.2	20.4	70.7	9.9	1.5	7.6	1.5	3.2	0.6	1.3	0.3	1.3	0.3	32.8	2.0	18.6	623.0	11380.0	8.3	430.0		1.31
SMDH 00233	177.7	20.8	67.8	12.2	1.2	8.4	1.4	4.0	0.6	1.6	0.3	1.5	0.3	34.0	2.2	18.6	582.0	10630.7	9.0	423.2	0.64	
SMDH 00233	188.3	21.9	75.3	12.6	1.6	8.9	2.1	4.8	0.7	1.8	0.3	1.5	0.3	34.9	2.7	44.3	545.9	9970.4	9.1	450.5		1.34
SMDH 00233	147.3	16.2	58.7	9.4	1.6	8.3	1.5	5.3	0.8	1.9	0.3	1.6	0.3	27.0	2.4	31.5	514.4	9396.3	11.4	485.3		
SMDH 00233	191.9	15.1	48.8	10.2	1.3	7.5	1.1	5.3	0.8	3.5	0.3	2.5	0.3	30.7	2.4	20.0	576.0	10521.6	8.0	383.8		
SMDH 00233	210.2	15.9	56.5	9.6	1.2	7.6	0.9	4.4	0.7	2.5	0.3	1.9	0.3	32.4	1.9	18.6	628.7	11483.4	6.3	330.4	0.54	1.32
SMDH 00233	183.5	14.3	46.4	9.5	1.2	6.6	0.8	4.1	0.3	1.9	0.3	1.3	0.3	29.0	1.8	15.7	516.3	9430.7	6.0	308.5		
SMDH 00233	208.1	15.9	55.8	12.4	1.5	8.2	0.8	3.4	0.6	1.1	0.3	0.9	0.3	32.5	2.0	21.5	590.5	10785.8	7.1	328.8		
SMDH 00233	187.8	14.3	50.3	8.6	1.0	6.2	0.9	3.6	0.3	1.6	0.3	1.0	0.3	30.5	1.8	14.3	485.2	8862.3	6.5	312.3		1.25
SMDH 00233	216.7	15.1	51.1	9.7	1.0	6.8	0.7	3.2	0.3	1.5	0.3	0.8	0.3	36.2	1.5	12.9	490.1	8951.3	6.0	296.1	0.58	
SMDH 00233	264.7	20.4	67.5	12.3	1.7	7.1	1.1	4.5	0.8	1.9	0.3	1.5	0.3	37.8	1.9	25.7	621.5	11351.3	8.1	407.1		
SMDH 00233	224.4	16.7	59.1	11.0	1.2	7.6	1.1	6.7	1.1	4.1	0.3	2.5	0.3	35.5	2.4	14.3	628.7	11483.4	6.1	333.5		1.26
SMDH 00233	154.2	12.1	43.0	6.8	0.8	5.3	0.7	3.2	0.6	1.7	0.3	1.3	0.3	23.7	1.5	11.4	499.7	9126.4	5.7	311.0		
SMDH 00233	52.9	5.8	22.0	3.5	2.2	3.5	0.3	1.5	0.3	0.9	0.3	0.9	0.3	8.3	1.1	15.7	590.5	10785.8	11.9	445.4	0.5	
SMDH 00233	151.1	17.4	60.9	9.2	0.8	8.1	1.6	5.2	0.8	1.8	0.3	1.9	0.3	30.5	2.0	15.7	544.0	9936.0	12.6	535.6		1.47
SMDH 00233	119.3	13.5	47.0	9.5	0.9	5.6	1.1	2.3	0.3	0.8	0.3	0.8	0.3	23.1	1.9	14.3	529.4	9669.0	12.7	524.5		
SMDH 00234	232.4	27.2	98.6	17.6	1.2	13.1	2.8	5.9	1.1	2.7	0.3	2.4	0.3	47.3	3.8	12.9	337.4	6163.7	19.5	797.8		
SMDH 00234	255.6	29.7	104.0	18.3	0.9	13.9	2.8	6.4	1.0	2.3	0.3	2.0	0.3	53.0	3.7	11.4	413.0	7544.6	14.6	565.0	0.58	1.42
SMDH 00234	221.6	28.5	97.5	13.6	1.6	9.2	1.8	3.7	0.8	1.3	0.3	1.0	0.3	40.3	1.9	15.7	495.7	9054.6	8.6	349.0		
SMDH 00234	148.4	16.4	58.1	8.7	2.0	6.0	1.2	3.1	0.6	1.1	0.3	0.9	0.3	29.1	1.3	11.4	381.1	6961.8	9.6	399.4		
SMDH 00234	213.1	25.6	88.2	13.9	2.2	9.6	1.8	4.5	0.7	1.5	0.3	1.1	0.3	42.0	1.1	14.3	183.3	3347.4	5.0	216.8		1.58
SMDH 00234	90.5	10.5	36.3	6.4	2.0	3.8	0.9	2.3	0.3	0.8	0.3	0.7	0.3	17.5	0.8	15.7	238.6	4357.9	5.5	225.7	0.56	
SMDH 00234	89.4	11.5	42.6	6.1	0.8	3.7	0.7	1.7	0.3	0.7	0.3	0.6	0.3	17.4	1.1	14.3	462.1	8440.3	9.7	406.9		
SMDH 00234	192.1	24.6	89.2	10.6	1.4	8.2	1.5	4.2	0.8	2.3	0.3	2.4	0.3	37.9	2.7	17.2	594.1	10851.8	8.5	347.2		1.3

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00234	171.5	22.5	77.8	10.6	1.0	7.5	1.8	4.4	0.8	2.3	0.3	2.4	0.3	34.7	3.1	15.7	517.1	9445.1	6.7	331.2		
SMDH 00234	186.7	24.4	87.0	11.6	1.4	8.3	1.5	4.2	0.8	1.9	0.3	1.8	0.3	37.9	3.3	15.7	552.9	10099.6	7.7	305.7	0.56	
SMDH 00234	254.8	17.0	64.3	11.1	1.6	7.0	0.9	4.0	0.6	1.6	0.3	0.9	0.3	27.7	2.7	21.5	338.9	6189.5	5.3	226.3		1.28
SMDH 00234	116.2	8.2	33.2	4.8	1.4	3.3	0.3	2.4	0.3	1.6	0.3	1.3	0.3	12.2	1.4	12.9	354.6	6476.6	5.3	229.8		
SMDH 00234	238.1	15.5	65.2	8.9	1.6	7.1	0.8	3.4	0.3	0.9	0.3	0.8	0.3	24.0	1.7	14.3	494.9	9040.3	6.3	280.3		
SMDH 00234	192.2	13.2	52.0	9.3	1.4	6.0	0.7	3.3	0.3	1.4	0.3	0.7	0.3	19.3	1.8	20.0	440.9	8052.7	7.7	336.9	0.55	1.3
SMDH 00234	202.2	13.9	54.1	8.1	1.0	6.9	0.6	3.4	0.6	1.8	0.3	1.1	0.3	20.7	1.8	14.3	368.9	6737.9	6.0	257.1		
SMDH 00235	144.1	9.2	36.4	5.9	0.6	4.6	0.3	3.2	0.6	1.5	0.3	1.1	0.3	15.6	2.0	12.9	338.4	6180.9	3.8	174.0		
SMDH 00235	154.2	11.1	42.6	6.3	0.9	5.9	0.8	5.2	0.9	3.5	0.6	2.8	0.3	15.2	3.5	17.2	365.3	6671.8	7.7	370.4		1.34
SMDH 00235	171.5	10.6	43.6	7.4	1.3	6.5	0.8	5.6	1.0	4.1	0.3	3.2	0.3	16.5	3.4	14.3	295.2	5391.4	7.3	320.5	0.65	
SMDH 00235	154.8	10.5	38.8	7.5	1.4	5.4	0.9	6.0	1.3	5.1	0.6	5.1	0.7	14.7	3.1	11.4	253.8	4636.4	7.0	319.7		
SMDH 00235	157.5	12.6	46.7	8.3	1.0	5.6	1.5	5.5	1.0	2.5	0.3	2.5	0.3	19.5	3.4	22.9	435.4	7952.2	9.8	384.0		1.55
SMDH 00235	136.8	11.2	40.0	6.5	1.0	5.3	1.3	5.0	1.0	2.7	0.3	2.7	0.6	16.6	3.2	15.7	332.7	6077.6	6.7	304.7		
SMDH 00235	148.1	12.0	39.2	7.3	1.4	5.5	1.5	5.4	1.1	3.5	0.7	3.1	0.6	18.5	3.5	17.2	337.3	6160.8	6.4	280.0	0.59	
SMDH 00235	162.0	13.3	47.5	7.8	1.2	6.0	1.5	5.6	1.0	2.9	0.6	3.5	0.3	20.0	3.9	14.3	387.4	7076.6	12.6	551.7		1.65
SMDH 00235	84.8	9.7	31.5	6.1	1.2	4.0	0.7	4.8	1.3	4.8	0.9	8.0	1.0	13.2	4.4	16.2	262.2	4788.6	34.1	179.0		
SMDH 00236	248.0	21.4	70.1	14.7	1.9	10.3	2.2	9.2	2.2	5.5	1.0	5.7	1.0	31.4	2.8	34.3	553.9	10116.8	13.4	602.7		
SMDH 00236	131.9	9.8	31.6	5.5	1.6	6.0	1.9	10.9	3.0	9.0	1.7	8.9	1.1	17.3	1.4	22.9	701.9	12821.2	9.0	387.7		
SMDH 00236	110.9	9.8	31.8	7.1	1.6	7.1	3.1	19.4	4.9	14.0	2.7	17.1	3.0	14.9	2.1	41.5	1233.0	22521.8	20.8	882.9		
SMDH 00236	100.7	8.6	26.9	5.1	1.7	4.7	1.8	8.7	2.5	6.7	1.4	7.3	1.0	12.2	1.9	57.2	1260.4	23021.3	28.1	1173.6		1.48
SMDH 00236	217.4	17.2	60.5	12.5	1.7	11.3	2.6	24.9	7.6	26.0	3.8	27.1	3.9	25.5	2.5	38.6	1161.8	21221.3	19.9	979.6	0.6	
SMDH 00236	70.1	6.0	20.5	3.1	2.0	2.7	0.3	3.4	0.9	2.9	0.3	2.3	0.6	9.1	1.7	20.0	521.5	9525.5	11.6	498.3		
SMDH 00236	108.2	8.2	32.1	4.6	2.2	3.9	0.6	3.4	0.8	2.6	0.3	2.8	0.3	12.1	2.4	32.9	851.6	15554.2	26.1	1113.6		1.6
SMDH 00236	121.5	8.5	31.3	5.8	2.1	3.5	0.6	2.3	0.3	1.6	0.3	1.5	0.3	12.6	2.2	40.1	1183.8	21623.2	29.7	1222.1		
SMDH 00237	156.5	10.8	43.6	7.2	1.5	4.8	0.3	3.3	0.7	1.7	0.3	1.3	0.3	20.1	1.5	17.2	576.5	10530.3	8.6	365.4	0.78	
SMDH 00237	165.3	13.4	46.4	7.1	0.8	4.6	0.3	2.8	0.3	1.5	0.3	0.9	0.3	20.5	2.0	17.2	598.5	10932.2	11.7	479.5		1.35
SMDH 00237	122.7	10.3	38.6	4.8	1.7	3.5	0.3	1.5	0.3	0.8	0.3	0.7	0.3	10.4	0.6	22.9	495.1	9043.2	3.2	178.7		
SMDH 00237	146.7	12.2	39.8	5.8	2.5	3.5	0.3	1.4	0.3	0.6	0.3	0.6	0.3	10.8	0.8	37.2	301.5	5506.3	4.4	215.2		
SMDH 00237	213.6	16.9	63.2	10.4	1.6	6.0	0.7	4.0	0.7	2.1	0.3	1.3	0.3	24.2	1.8	22.9	464.3	8480.5	9.4	379.3	0.72	1.48
SMDH 00237	211.7	21.4	77.3	10.8	1.0	7.4	1.6	3.0	0.3	0.8	0.3	0.9	0.3	38.1	2.5	18.6	406.1	7418.3	8.5	268.0		
SMDH 00237	100.5	10.0	43.3	6.4	0.8	4.7	0.9	2.1	0.3	1.0	0.3	1.1	0.3	18.5	1.5	14.3	313.6	5727.3	5.8	181.8		
SMDH 00237	135.1	12.4	49.2	7.3	0.9	5.4	0.9	2.6	0.3	0.6	0.3	0.3	0.3	25.4	1.3	8.6	216.6	3956.0	3.3	115.6		1.53
SMDH 00237	134.4	13.7	49.2	8.2	0.8	5.9	0.9	2.9	0.3	1.3	0.3	1.0	0.3	25.8	2.1	11.4	238.9	4363.7	5.5	179.8	0.51	
SMDH 00237	102.4	10.8	14.5	5.7	1.0	4.4	0.9	3.1	0.3	1.4	0.3	1.3	0.3	19.9	2.2	17.2	356.9	6519.7	10.8	277.9		
SMDH 00237	69.8	6.3	26.6	4.3	0.9	2.7	0.3	1.4	0.3	0.8	0.3	0.3	0.3	12.4	1.3	12.9	288.3	5265.1	6.7	219.5		1.45
SMDH 00237	58.7	5.6	20.8	3.4	0.7	2.3	0.3	0.8	0.3	0.3	0.3	0.3	0.3	10.0	1.1	21.5	373.3	6818.3	8.0	277.9		
SMDH 00237	199.6	20.4	82.1	9.2	1.6	8.2	1.5	4.5	0.6	1.4	0.3	1.4	0.3	28.0	2.6	48.6	389.8	7119.7	9.0	275.4	0.52	
SMDH 00237	112.4	11.0	41.3	6.3	0.9	5.3	0.8	2.5	0.3	0.7	0.3	0.6	0.3	22.0	1.9	18.6	386.8	7065.1	8.1	265.7		1.41
SMDH 00237	245.9	20.3	69.9	12.9	2.2	7.8	1.3	3.6	0.7	3.2	0.3	2.4	0.3	20.8	1.3	57.2	741.5	13544.6	7.4	346.9		
SMDH 00238	98.6	8.0	29.3	5.1	0.6	2.7	0.3	1.0	0.3	0.3	0.3	0.3	0.3	11.0	1.2	21.5	405.7	7409.6	5.8	275.8		
SMDH 00238	89.3	7.5	26.4	6.8	0.8	5.2	1.2	3.8	0.6	2.5	0.3	1.6	0.3	7.1	0.9	22.9	489.1	8934.1	2.1	77.9	0.56	1.38
SMDH 00238	84.0	11.5	42.0	9.5	1.5	7.5	1.8	7.5	1.4	3.9	0.3	2.7	0.3	9.2	1.3	8.6	260.7	4762.7	7.8	68.6		
SMDH 00238	165.0	20.1	66.5	13.1	1.6	10.3	2.1	7.5	1.4	3.5	0.6	2.8	0.3	28.1	1.9	14.3	361.8	6608.7	4.2	39.0		
SMDH 00238	64.5	8.3	30.3	7.9	1.6	6.5	1.6	7.1	1.4	4.1	0.6	3.2	0.3	10.8	1.1	10.0	298.5	5451.7	5.2	53.6		1.52
SMDH 00238	121.5	14.9	50.2	8.2	1.6	6.3	1.2	4.0	0.6	1.8	0.3	1.1	0.3	20.9	1.7	15.7	491.2	8971.4	10.0	238.4	1.24	
SMDH 00238	87.1	10.5	35.0	5.9	2.0	3.9	0.7	2.0	0.3	0.7	0.3	0.3	0.3	16.0	0.8	10.0	406.4	7424.0	8.3	246.1		
SMDH 00238	95.3	12.6	42.0	9.5	2.0	5.9	1.3	5.0	0.9	2.5	0.3	2.2	0.3	18.8	2.8	12.9	808.3	14764.7	10.6	243.8		1.49
SMDH 00238	72.2	8.5	29.2	4.9	2.1	2.7	0.3	1.6	0.3	0.6	0.3	0.3	0.3	13.0	0.7	10.0	399.5	7297.7	7.5	271.2		
SMDH 00255	135.1	19.5	65.3	11.4	3.2	7.3	1.2	4.1	0.7	1.7	0.3	1.3	0.3	23.2	1.5	8.6	312.5	5707.2	6.7	197.4	1.58	
SMDH 00255	101.6	13.4	44.3	7.4	1.9	5.5	1.2	3.7	0.6	1.5	0.3	1.0	0.3	16.3	1.1	7.2	326.6	5965.6	4.2	138.3		1.49
SMDH 00255	206.6	25.0	86.3	14.0	2.1	9.0	1.1	4.0	0.7	1.9	0.3	0.8	0.3	38.7	1.8	10.0	426.3	7785.7	7.1	162.1		
SMDH 00255	168.0	19.5	67.7	12.2	2.2	6.6	0.7	2.6	0.3	1.1	0.3	0.8	0.3	31.6	1.3	7.2	340.4	6218.2	5.4	145.3		
SMDH 00255	103.9	12.2	43.2	7.8	2.0	3.9	0.3	1.5	0.2	0.3	0.3	0.3	0.3	19.2	0.7	11.4	252.3	4607.7	3.9	127.5	1	1.8
SMDH 00255	189.3	22.4	78.1	12.4	2.1	7.3	0.7	2.8	0.2	1.0	0.3	0.9	0.3	36.2	1.2	14.3	320.9	5862.3	4.6	137.6		
SMDH 00255	162.8	19.1	64.2	10.9	2.0	5.3	0.3	2.2	0.2	0.6	0.3	0.3	0.3	31.0	0.9	5.7	244.9	4472.8	5.2	99.1		
SMDH 00254	265.9	25.5	87.5	15.2	2.8	8.4	0.9	4.6	0.7	2.1	0.3	1.4	0.3	35.4	1.8	14.3	680.9	12436.5	6.6	275.0		1.52
SMDH 00254	277.5	35.3	121.3	20.1	3.0	12.8	1.3	5.9	0.8	1.9	0.3	1.0	0.3	54.3	2.5	10.0	377.2	6890.0	8.0	222.5	1.42	
SMDH 00254	207.5	23.7	80.5	13.3	2.2	7.5	0.9	4.4	0.6	1.6	0.3	0.9	0.3	39.4	1.8	7.2	240.0	4383.8	4.5	191.1		1.51
SMDH 00254	138.4	15.6	53.7	9.4	2.0	5.2	0.8	2.4	0.3	0.7	0.3	0.3	0.3	25.9	1.2	12.9	325.8	5951.3	5.7	233.0		
SMDH 00254	145.9	16.8	58.3	8.7	2.3	5.6	0.8	2.0	0.3	0.3	0.3	0.3	0.3	26.1	1.3	40.1	621.9	11359.9	14.3	426.6	1.15	
SMDH 00254	140.7	15.8	57.2	10.0	2.0	6.7	1.3	4.2	0.9	2.2	0.3	1.6	0.3	29.4	1.3	24.3	515.4	9413.5	8.6	329.3		1.46
SMDH 00254	153.7	18.2	59.5	11.1	1.7	6.5	1.2	3.6	0.6	1.1	0.3	0.7	0.3	30.5	1.4	24.3	660.3	12060.4	7.9	344.0		
SMDH 00254	61.4	7.0	22.2	3.6	2.1	2.3	0.3	1.3	0.3	0.3	0.3	0.6	0.3	10.2	0.7	21.5	579.3	10581.9	6.7	294.3		
SMDH 00253	209.7	24.0	82.8	13.6	1.9	9.2	1.8	4.9	0.8	1.9	0.3	1.9	0.3	38.2	2.4	20.0	649.6	11865.2	13.6	532.5	1.87	1.6
SMDH 00253	22.7	2.5	8.2	1.4	1.3	0.9	0.3	0.7	0.3	0.2	0.3	0.3	0.3	2.6	0.5	17.2	464.3	8480.5	11.2	474.5		
SMDH 00253	89.1	9.8	36.2	5.8	1.5	3.3	0.3	1.4	0.3	0.3	0.3	0.3	0.3	15.5	0.7	20.0	553.7	10114.0	9.9	441.6		
SMDH 00253	168.0	18.7	66.5	11.2	1.5	5.9	1.1	2.8	0.6	1.3	0.3	1.1	0.3	31.3	1.5	21.5	572.9	10464.2	11.8	530.3		1.62
SMDH 00253	136.1	15.2	54.8	9.2	1.4	5.3	0.8	2.8	0.3	1.7	0.3	1.1	0.3	27.3	1.1	15.7	644.7	11776.2	8.3	336.1	1.31	
SMDH 00253	126.6	13.8	49.0	7.9	1.6	5.1	0.8	2.8	0.3	1.4	0.3	0.8	0.3	23.6	0.8	17.2	434.1	7929.3	7.2	304.2		
SMDH 00252	161.8	16.9	58.3	11.5	2.0	7.4	1.2	5.3	0.9	3.2	0.3	2.5	0.3	26.2	2.7	10.0	276.6	5052.7	7.0	333.0		1.55
SMDH 00252	119.6	15.0	51.3	9.2	3.4	6.2	1.1	4.1	0.7	2.6	0.3	1.4	0.3	21.8	2.1	8.6	185.3	3384.7	3.7	127.1		

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00252	120.5	14.0	47.8	9.7	2.5	6.3	1.2	4.9	0.8	2.9	0.3	2.3	0.3	21.4	2.5	14.3	416.4	7604.9	3.4	123.5	1.64	
SMDH 00252	57.6	6.6	22.2	4.8	1.7	3.7	0.7	2.5	0.6	2.1	0.3	1.3	0.3	10.5	1.3	4.3	129.5	2365.6	3.7	82.4		1.78
SMDH 00252	73.2	7.1	26.8	6.1	1.5	3.7	0.3	2.1	0.3	1.1	0.3	0.9	0.3	12.1	1.2	4.3	141.0	2575.1	4.1	127.2		
SMDH 00252	62.3	7.4	25.1	5.5	2.2	3.7	0.6	2.9	0.6	1.0	0.3	0.3	0.3	10.7	4.1	9.2	103.1	1883.3	18.3	121.8		
SMDH 00251	323.3	36.2	126.0	23.3	1.7	15.1	2.4	7.2	1.0	2.9	0.3	1.9	0.3	60.7	4.0	12.9	385.9	7047.9	9.8	378.5	1.57	1.62
SMDH 00251	258.1	30.2	102.6	19.9	1.4	13.3	1.8	4.9	0.6	1.5	0.3	0.6	0.3	48.1	3.4	32.9	820.0	14977.2	9.3	397.9		
SMDH 00251	265.1	31.7	110.8	19.6	1.9	12.8	2.2	5.0	0.8	1.1	0.3	0.7	0.3	48.1	2.9	22.9	689.7	12597.3	10.5	482.2		
SMDH 00251	127.6	14.6	50.2	9.2	1.7	5.8	0.9	2.6	0.3	0.7	0.3	0.6	0.3	22.4	1.5	20.0	607.0	11087.2	10.7	461.2		1.38
SMDH 00251	75.9	8.9	32.7	5.9	1.4	4.3	0.9	2.9	0.6	1.4	0.3	1.4	0.3	13.5	1.7	24.3	654.0	11945.6	9.8	507.2	1.44	
SMDH 00251	116.9	13.4	47.8	8.2	1.7	6.6	1.4	4.1	0.7	1.6	0.3	1.4	0.3	19.6	1.5	25.7	622.7	11374.3	6.3	347.7		
SMDH 00251	180.9	19.8	66.5	12.1	1.7	8.6	1.1	4.9	0.9	3.1	0.3	2.4	0.3	31.1	1.9	25.7	638.1	11655.6	15.4	301.5		1.5
SMDH 00251	140.2	16.7	59.5	10.2	1.0	6.7	0.7	2.9	0.6	1.5	0.3	0.9	0.3	24.5	2.2	21.5	611.9	11176.2	11.8	312.7		
SMDH 00251	191.4	23.3	78.1	14.0	0.9	9.3	0.8	3.2	0.6	1.1	0.3	0.7	0.3	35.7	2.7	25.7	674.3	12315.9	11.2	344.5	1.62	
SMDH 00251	187.1	22.1	73.5	14.6	0.8	8.9	0.8	3.4	0.3	1.3	0.3	0.6	0.3	34.6	2.4	24.3	676.3	12353.2	11.2	361.3		1.32
SMDH 00251	172.6	20.7	66.5	13.3	1.3	8.0	0.9	3.6	0.7	2.1	0.3	1.3	0.3	31.7	2.6	22.9	569.6	10403.9	9.6	358.6		
SMDH 00251	155.4	18.7	61.8	11.0	0.8	7.4	0.8	3.3	0.6	1.6	0.3	1.3	0.3	31.0	2.6	25.7	650.2	11876.7	11.6	452.7		
SMDH 00251	112.8	13.5	45.5	8.6	0.9	6.5	0.7	3.6	0.7	1.7	0.3	1.0	0.3	21.5	2.1	21.5	722.7	13200.1	10.8	375.8	1.35	1.25
SMDH 00251	167.2	19.7	66.5	12.5	1.2	7.1	0.8	2.8	0.6	1.5	0.3	0.9	0.3	31.4	2.4	22.9	591.8	10808.7	12.3	458.2		
SMDH 00251	148.8	17.3	58.3	10.0	1.9	6.7	0.7	2.6	0.3	1.3	0.3	0.6	0.3	26.1	1.5	25.7	495.1	9043.2	9.9	330.3		
SMDH 00250	152.1	17.5	59.4	12.2	1.5	7.8	1.1	5.9	1.3	3.3	0.7	3.6	0.3	27.8	3.1	27.6	409.4	7478.5	16.3	501.6		
SMDH 00250	210.4	23.0	81.6	14.0	1.0	9.7	1.8	4.6	0.7	1.6	0.3	1.1	0.3	42.3	2.6	15.7	330.2	6031.6	9.7	304.7	1.36	
SMDH 00250	173.2	19.1	64.2	11.1	0.9	7.7	1.1	3.0	0.3	1.0	0.3	1.0	0.3	32.4	2.7	22.9	594.7	10863.3	10.6	428.9		
SMDH 00250	126.5	14.5	50.2	8.9	1.6	5.3	0.9	2.1	0.3	0.7	0.3	0.3	0.3	24.9	1.5	18.6	495.4	9048.9	8.4	220.5		1.42
SMDH 00250	95.4	10.6	36.2	6.3	1.6	4.0	0.8	1.7	0.3	0.3	0.3	0.3	0.3	18.1	0.9	12.9	410.8	7504.4	8.7	234.9		
SMDH 00250	201.3	22.5	78.1	13.7	1.7	9.7	1.9	4.8	0.7	1.3	0.3	0.8	0.3	38.6	2.7	32.9	714.8	13056.6	9.8	334.7	1.34	
SMDH 00250	196.3	21.9	75.8	12.8	1.4	9.2	1.8	4.0	0.6	0.8	0.3	0.3	0.3	37.9	2.7	25.7	759.9	13880.5	8.1	310.4		1.29
SMDH 00250	135.6	18.6	63.0	12.4	1.2	7.1	0.8	2.8	0.3	0.8	0.3	1.0	0.3	23.2	2.8	20.0	592.4	10820.2	7.8	221.3		
SMDH 00250	169.3	18.5	66.5	10.6	1.4	6.2	1.2	2.4	0.3	0.6	0.3	0.3	0.3	31.3	1.8	22.9	668.0	12201.1	7.2	293.9	1.17	1.29
SMDH 00250	248.8	27.7	94.5	15.5	1.3	10.9	1.8	3.9	0.3	0.9	0.3	0.3	0.3	46.5	2.5	14.3	563.5	10292.0	10.0	318.4		
SMDH 00250	183.8	20.7	68.8	11.0	2.1	7.5	1.3	2.6	0.3	0.9	0.3	0.3	0.3	30.6	1.7	25.7	575.1	10504.4	9.3	332.7		
SMDH 00250	207.5	24.2	78.1	14.5	1.6	9.0	1.4	3.6	0.3	1.1	0.3	0.3	0.3	36.9	2.4	20.0	624.0	11397.2	9.2	293.0		1.57
SMDH 00249	244.7	28.0	95.6	18.4	1.4	12.8	2.5	8.3	1.4	4.7	0.3	2.7	0.3	56.2	3.1	22.9	605.4	11058.5	12.6	455.1	1.57	
SMDH 00249	180.3	20.4	73.5	14.6	1.6	9.8	1.9	6.2	1.3	4.1	0.3	2.7	0.3	43.2	2.4	22.9	624.0	11397.2	11.4	407.4		
SMDH 00249	179.0	20.7	70.0	14.0	1.6	8.6	1.9	6.4	1.3	4.0	0.3	2.7	0.3	41.8	2.5	24.3	544.9	9953.2	9.7	316.0		1.47
SMDH 00249	182.3	20.8	75.8	14.3	1.5	10.6	2.1	8.5	1.7	6.5	0.9	5.4	0.7	40.4	4.0	27.2	624.0	11397.2	9.1	385.7		
SMDH 00249	220.6	25.1	82.8	16.7	1.6	11.4	2.1	8.7	1.6	6.5	0.8	4.3	0.7	47.9	4.0	25.7	624.0	11397.2	11.0	379.3	0.94	
SMDH 00248	240.3	25.9	89.8	17.0	1.7	10.9	2.2	7.9	1.4	4.9	0.6	3.6	0.3	45.4	2.8	22.9	904.8	16527.4	17.0	516.7		1.42
SMDH 00248	244.9	27.7	98.0	17.6	2.0	11.8	2.6	8.4	1.6	4.8	0.7	3.3	0.3	47.0	2.8	28.6	894.9	16346.6	13.2	466.2		
SMDH 00248	257.6	28.9	94.7	18.1	2.0	11.8	1.5	9.2	1.9	5.1	0.9	6.0	0.8	46.7	3.9	33.2	545.4	9961.8	12.5	287.9		1.61
SMDH 00248	232.9	27.7	94.5	16.5	2.0	10.7	2.6	8.6	1.6	5.1	0.6	3.1	0.3	44.3	3.3	32.9	777.1	14193.4	13.2	432.4	0.95	1.51
SMDH 00248	251.9	32.7	117.8	18.2	2.9	11.6	2.4	9.3	1.9	6.4	0.9	5.7	0.7	38.8	3.1	52.9	735.7	13438.4	13.2	458.6		
SMDH 00248	181.1	21.4	75.8	14.3	1.5	9.0	2.1	8.7	1.9	6.9	0.9	4.6	0.7	35.4	2.7	34.3	616.0	11250.8	13.1	365.8		
SMDH 00248	191.1	20.5	68.8	13.8	1.4	9.7	2.4	10.2	2.2	7.9	1.0	5.4	0.8	38.9	3.3	27.2	704.8	12872.9	12.4	463.1		1.58
SMDH 00248	209.1	23.1	85.1	13.6	1.5	10.5	2.5	9.6	2.3	7.9	1.0	5.7	0.7	40.6	3.3	32.9	868.1	15855.7	13.3	436.6	1.47	
SMDH 00248	213.0	24.5	91.0	14.6	1.4	11.5	2.5	9.4	1.9	7.2	0.9	5.1	0.7	41.8	3.1	25.7	756.5	13817.4	10.4	383.1		
SMDH 00248	248.9	28.6	102.6	17.2	2.0	11.9	2.5	8.5	1.7	5.4	0.8	3.9	0.7	50.6	2.8	32.9	857.7	15666.2	14.3	493.2		1.53
SMDH 00248	258.3	29.7	101.5	18.4	1.4	11.6	2.7	8.0	1.6	5.1	0.7	3.8	0.6	49.0	2.7	24.3	1016.9	18574.4	13.3	548.3		
SMDH 00248	234.4	25.4	84.0	14.6	2.0	9.9	1.3	6.8	1.0	3.7	0.3	2.8	0.6	44.5	2.8	28.6	1079.0	19708.3	14.9	639.7	1.39	
SMDH 00248	210.4	22.0	75.8	13.5	1.9	9.1	1.3	6.3	1.1	3.5	0.3	2.7	0.3	38.2	2.7	22.9	653.2	11931.2	13.3	505.9		1.4
SMDH 00247	265.3	27.5	89.8	17.6	1.6	12.1	1.4	6.9	1.1	4.0	0.3	3.0	0.3	50.1	2.7	28.6	793.4	14492.0	12.0	525.3		
SMDH 00247	201.0	22.4	59.5	12.1	1.9	10.4	1.3	6.7	1.3	4.7	0.6	4.0	0.3	36.9	2.2	28.6	798.4	14583.9	26.7	486.2		
SMDH 00247	164.0	19.2	60.7	14.0	1.5	9.6	1.2	7.5	1.5	4.6	0.7	4.7	0.9	36.5	2.4	25.7	721.7	13182.9	12.4	509.0	1.27	1.6
SMDH 00247	156.6	17.6	59.5	12.9	1.5	8.6	1.2	6.7	1.4	5.4	0.7	4.3	0.7	34.7	2.2	28.6	857.1	15654.7	13.1	609.3		
SMDH 00247	179.7	20.8	68.8	15.5	2.0	10.0	1.2	6.3	1.5	4.6	0.6	3.9	0.7	41.0	2.6	25.7	757.9	13843.2	11.4	489.1		
SMDH 00247	185.4	20.9	70.0	14.8	1.5	10.0	1.3	7.0	1.4	5.1	0.6	3.9	0.6	41.0	2.9	28.6	764.6	13966.6	9.3	477.0		1.58
SMDH 00247	175.4	19.6	66.5	13.5	1.6	10.3	1.2	5.6	1.0	3.4	0.3	2.7	0.3	39.1	2.4	24.3	676.6	12359.0	12.6	467.8	1.17	
SMDH 00247	221.6	24.9	80.5	16.7	1.9	11.1	1.4	7.5	1.5	5.0	0.6	3.6	0.6	43.7	3.8	40.1	820.9	14994.4	11.3	575.3		
SMDH 00247	215.7	23.0	78.1	17.9	2.0	10.8	1.4	8.4	1.6	5.8	0.7	5.0	0.6	43.6	3.2	27.2	836.8	15284.4	10.3	420.4		1.45
SMDH 00247	301.9	23.4	80.5	16.7	1.4	12.2	1.1	8.3	2.2	3.9	0.8	4.4	0.3	45.1	3.8	21.5	712.8	13019.3	12.0	710.9		
SMDH 00247	228.9	26.3	92.1	20.2	1.5	13.6	2.1	7.0	1.3	2.2	0.3	1.8	0.3	52.1	2.5	18.6	546.6	9984.8	15.9	616.6	1.15	
SMDH 00247	189.8	22.7	77.0	17.5	1.6	12.0	1.6	5.9	0.9	1.7	0.3	1.4	0.3	45.1	1.9	15.7	490.9	8965.6	13.1	424.2		1.45
SMDH 00247	166.2	20.1	70.0	14.8	1.4	10.9	1.8	6.2	1.1	2.5	0.3	2.8	0.3	41.2	2.1	18.6	537.8	9824.0	15.6	634.2		
SMDH 00247	202.6	24.0	84.0	19.6	1.6	12.3	2.2	7.9	1.6	3.1	0.3	3.5	0.3	45.3	2.9	24.3	704.0	12858.5	17.3	683.8		
SMDH 00247	141.0	15.7	57.2	12.3	1.2	8.6	1.3	4.9	1.0	1.8	0.3	2.2	0.3	31.3	1.4	15.7	448.3	8187.6	12.3	328.2	1.11	1.61
SMDH 00246	144.8	16.1	57.2	12.6	1.0	8.9	1.4	4.8	0.9	1.7	0.3	2.0	0.3	32.2	1.8	10.0	304.1	5555.1	10.8	332.3		
SMDH 00246	158.1	18.8	66.5	13.7	1.4	9.7	1.4	5.9	0.9	1.8	0.3	1.9	0.3	34.9	1.8	27.2	536.4	9798.2	14.7	448.6		
SMDH 00246	226.6	18.6	61.8	11.4	1.6	8.6	1.3	6.1	0.9	4.0	0.7	3.5	0.3	35.5	2.1	20.0	523.2	9557.0	17.5	584.6	1.3	
SMDH 00246	316.8	33.1	101.5	19.6	2.1	15.2	2.0	8.1	1.6	4.0	0.6	3.5	0.6	57.6	2.9	25.7	679.3	12407.8	16.4	508.7		
SMDH 00246	229.0	23.8	80.5	14.6	1.6	11.3	1.8	7.8	1.5	4.8	0.7	4.2	0.7	42.4	2.6	25.7	721.4	13177.2	13.8	458.6		1.42
SMDH 00246	215.1	22.2	68.8	12.8	1.6	11.5	1.6	7.6	1.5	4.9	0.7	5.0	0.8	40.1	2.7	25.7	616.7	11265.2	14.4	443.3		
SMDH 00246	205.8	22.4	68.8	14.1	1.5	10.8	1.4	7.2	1.5	4.7	0.7	4.3	0.7	38.0	3.1	22.9	662.3	12097.7	13.6	425.1	0.91	

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00245	444.9	47.7	154.0	29.5	1.9	21.3	3.1	11.0	1.9	5.4	0.6	4.2	0.6	87.2	4.6	15.7	611.7	11173.3	14.2	576.3		1.45
SMDH 00245	374.2	39.4	128.3	20.6	2.1	15.4	2.1	9.1	1.7	5.3	0.7	4.9	0.8	70.5	3.3	22.9	707.9	12930.3	18.5	553.3		
SMDH 00245	204.8	21.7	70.0	11.7	1.3	7.6	1.3	5.0	1.0	3.1	0.3	3.1	0.3	39.1	1.8	15.7	562.7	10277.6	12.0	324.3		
SMDH 00245	197.5	20.5	65.3	12.4	1.3	8.3	1.2	5.4	0.9	2.5	0.3	2.4	0.3	38.6	1.8	17.2	517.1	9445.1	12.1	340.5	1.33	1.49
SMDH 00245	223.4	23.4	75.8	14.1	1.6	10.0	1.4	5.5	1.0	3.4	0.3	3.2	0.3	45.9	2.1	18.6	562.7	10277.6	10.3	330.8		
SMDH 00245	172.8	20.9	67.7	13.3	1.3	9.6	0.9	4.8	0.9	2.9	0.3	2.8	0.3	41.3	1.9	21.5	639.7	11684.3	10.3	430.1		
SMDH 00245	238.4	28.3	89.8	15.3	1.4	11.8	0.9	3.9	0.7	2.1	0.3	1.5	0.3	51.8	2.2	30.0	927.5	16940.8	14.2	502.1		1.35
SMDH 00245	212.6	24.5	85.1	14.7	1.7	10.7	0.9	3.8	0.6	1.5	0.3	1.0	0.3	43.8	1.9	37.2	671.9	12272.9	8.6	355.9	4.26	
SMDH 00245	176.4	21.3	68.8	11.4	1.6	9.3	0.8	3.8	0.6	1.9	0.3	1.7	0.3	40.4	1.9	20.0	643.8	11759.0	8.1	322.3		
SMDH 00245	189.8	22.6	78.1	12.8	1.4	11.1	0.9	4.8	0.7	1.8	0.3	1.3	0.3	42.7	2.1	20.0	615.6	11245.1	12.6	438.5		1.47
SMDH 00245	205.8	24.3	80.5	14.1	1.4	10.1	0.9	4.7	0.8	2.4	0.3	2.0	0.3	44.2	2.1	21.5	744.4	13596.3	9.9	348.6		
SMDH 00245	237.8	21.6	71.2	14.0	1.5	9.9	0.9	5.2	0.9	2.7	0.3	2.2	0.3	38.1	2.1	22.9	665.9	12163.8	13.8	519.2	1.22	
SMDH 00245	284.5	31.1	108.5	19.2	1.3	15.1	1.5	7.8	1.4	4.6	0.7	3.8	0.6	60.2	3.9	27.2	871.1	15910.2	15.2	617.6		1.33
SMDH 00244	186.7	22.2	74.6	14.3	1.5	11.5	1.3	6.4	1.4	4.3	0.7	3.9	0.6	44.5	3.1	24.3	684.0	12493.9	12.4	391.6		
SMDH 00244	290.9	33.7	106.4	21.3	2.2	14.1	1.9	10.1	2.1	5.1	0.9	5.4	0.7	58.9	5.8	31.9	605.9	11067.1	12.9	438.2		
SMDH 00244	262.0	23.8	75.8	15.2	1.6	12.0	1.3	10.3	2.1	7.7	1.7	6.5	0.7	40.7	4.1	22.9	799.7	14606.8	18.3	650.0	0.39	1.53
SMDH 00244	256.5	23.4	80.5	16.1	1.7	11.8	1.4	7.0	1.6	6.3	1.4	5.5	0.3	38.0	4.5	21.5	3634.6	66388.2	13.1	573.4		
SMDH 00244	283.4	26.7	84.0	17.5	1.7	12.0	1.3	9.0	2.1	5.9	1.1	5.2	0.3	42.9	3.7	31.5	850.8	15539.9	13.9	544.0		
SMDH 00244	266.3	24.3	75.8	16.6	2.1	12.0	1.2	8.0	1.7	4.5	0.9	3.6	0.3	39.9	3.1	32.9	882.2	16114.0	16.4	498.9		1.39
SMDH 00244	281.2	36.2	116.6	20.5	2.9	12.4	1.5	8.1	1.3	3.9	0.3	2.0	0.3	47.7	3.2	44.3	808.7	14770.5	11.7	481.6	1.01	
SMDH 00244	226.1	26.5	85.1	16.2	2.4	9.5	1.3	7.0	1.1	3.8	0.3	2.8	0.3	38.9	2.6	28.6	730.7	13346.5	10.8	417.0		
SMDH 00244	218.9	25.5	87.5	17.0	2.0	11.6	1.6	9.8	1.9	7.1	0.9	4.9	0.9	41.3	3.4	27.2	799.4	14601.1	12.1	439.3		1.48
SMDH 00244	208.8	23.8	80.5	15.7	1.7	10.4	1.3	8.1	1.8	6.6	0.7	4.6	0.9	39.1	3.2	25.7	706.6	12907.3	11.4	437.4		
SMDH 00244	183.9	22.2	72.3	13.7	1.9	8.5	1.2	7.8	1.6	5.6	0.7	4.7	0.8	33.1	2.6	25.7	584.2	10670.9	162.1	397.8	1.02	
SMDH 00244	173.6	19.9	66.5	11.8	1.4	7.8	1.2	6.5	1.4	4.3	0.6	3.3	0.7	33.2	2.1	15.7	552.6	10093.9	11.0	406.3		1.38
SMDH 00244	274.3	32.4	103.8	19.1	1.9	12.1	1.5	8.4	1.6	4.8	0.6	3.5	0.7	50.3	3.1	27.2	979.2	17885.3	13.2	477.9		
SMDH 00244	265.8	31.4	103.8	18.3	1.7	10.7	1.3	7.1	1.3	4.3	0.3	3.4	0.7	49.3	2.9	27.2	986.7	18023.1	12.9	532.8		
SMDH 00243	374.2	43.5	141.1	25.4	1.5	15.1	2.0	9.4	1.6	4.6	0.6	3.3	0.6	70.4	4.5	14.3	484.1	8842.2	20.0	907.3	1.43	1.52
SMDH 00243	287.1	34.2	109.6	21.8	1.6	11.3	2.2	6.5	1.1	3.0	0.3	2.8	0.3	55.0	2.7	15.7	420.0	7670.9	9.7	420.9		
SMDH 00243	399.8	47.7	149.3	29.3	2.0	16.1	2.8	8.8	1.6	3.9	0.6	3.2	0.3	79.1	3.3	21.5	625.5	11426.0	11.2	489.9		
SMDH 00243	334.0	40.5	126.0	22.8	1.9	13.6	2.7	7.8	1.4	3.7	0.6	3.3	0.3	60.7	2.5	32.9	691.7	12634.6	10.7	428.1		1.55
SMDH 00243	389.4	44.8	153.8	25.6	1.9	15.0	1.8	10.1	2.2	5.7	1.0	6.4	0.8	77.4	2.8	25.7	545.9	9970.4	9.1	477.4		
SMDH 00243	324.3	38.9	117.8	23.1	2.0	13.7	2.7	7.1	1.5	3.5	0.6	2.8	0.3	61.8	2.2	30.0	798.0	14575.3	13.7	578.4		
SMDH 00243	350.0	42.8	129.5	23.2	1.6	14.6	2.7	8.5	1.5	3.3	0.3	3.3	0.3	64.6	2.5	21.5	726.6	13271.9	11.0	471.4		1.49
SMDH 00243	371.8	44.0	138.8	27.3	1.6	15.7	3.2	9.4	1.6	4.1	0.7	3.9	0.3	74.4	2.8	27.2	825.8	15083.4	14.0	569.6		
SMDH 00243	317.3	37.5	113.1	21.0	1.7	13.1	2.7	8.1	1.6	4.1	0.6	3.8	0.3	61.1	2.2	22.9	717.8	13111.1	11.1	558.3		1.4
SMDH 00242	287.1	34.2	105.0	20.6	1.7	13.4	2.7	7.7	1.5	3.8	0.6	3.6	0.3	51.3	3.5	17.2	439.0	8018.3	19.2	851.9		
SMDH 00242	685.6	80.6	268.3	44.2	2.3	33.1	3.4	15.8	2.4	6.9	0.8	5.1	0.8	163.7	7.0	14.3	599.3	10946.5	16.9	825.7		
SMDH 00242	247.5	27.4	92.1	17.4	1.4	12.2	1.2	7.6	1.4	4.1	0.3	2.7	0.3	54.7	2.2	21.5	661.7	12086.2	12.5	406.2	1.74	1.8
SMDH 00242	185.6	21.3	72.3	13.2	1.5	10.4	1.2	6.5	1.3	4.0	0.3	3.0	0.3	42.2	1.5	20.0	565.0	10320.7	11.7	347.0		
SMDH 00242	153.8	17.9	59.5	10.4	1.3	8.1	0.9	5.4	1.0	3.2	0.3	2.4	0.3	34.1	1.3	15.7	468.2	8552.2	9.4	374.6		
SMDH 00242	256.9	28.6	95.6	16.2	1.9	13.0	1.6	10.6	2.1	6.9	0.9	5.7	0.8	55.2	2.8	25.7	859.3	15694.9	16.9	623.8		1.45
SMDH 00241	415.3	47.2	151.4	28.8	1.6	17.6	2.1	9.9	1.6	4.0	0.7	4.6	0.3	82.5	5.2	17.9	544.1	9938.9	19.5	727.7		
SMDH 00241	360.3	42.8	147.0	24.0	1.3	18.2	2.1	8.6	1.5	4.9	0.3	4.0	0.6	79.0	3.8	11.4	524.2	9574.3	17.3	783.9		
SMDH 00241	278.0	31.4	102.6	19.7	2.2	13.1	1.3	6.5	1.0	2.9	0.2	1.6	0.3	66.6	2.2	18.6	689.5	12594.4	9.8	401.5		1.58
SMDH 00241	140.8	15.0	46.7	8.5	1.4	5.8	0.6	2.6	0.3	0.9	0.3	0.7	0.3	32.3	0.8	11.4	431.8	7886.2	10.4	189.7		
SMDH 00241	169.9	17.5	59.5	11.0	1.3	7.8	0.8	3.6	0.6	1.8	0.3	1.3	0.3	39.0	1.2	14.3	597.3	10909.2	15.3	372.8	1.67	
SMDH 00241	209.2	25.1	82.8	15.9	1.7	9.9	1.8	4.8	0.8	1.9	0.3	1.5	0.3	46.7	1.5	17.2	665.8	12160.9	12.1	434.0		1.68
SMDH 00241	175.9	20.1	70.0	13.8	1.4	8.1	1.6	4.9	1.0	2.1	0.3	2.0	0.3	36.9	1.2	28.6	542.4	9907.3	12.6	374.4		
SMDH 00241	226.0	26.1	88.6	18.3	1.7	10.7	2.2	7.7	1.5	3.7	0.6	3.9	0.7	49.2	1.7	31.5	687.3	12554.2	14.7	515.1		
SMDH 00241	140.9	16.2	58.3	10.7	1.3	6.6	1.2	3.1	0.6	1.1	0.3	1.1	0.3	31.2	0.9	14.3	409.3	7475.7	10.5	364.4	1	1.57
SMDH 00241	201.6	22.4	81.6	15.4	1.6	9.0	1.4	4.5	0.7	1.9	0.3	1.3	0.3	44.4	1.4	20.0	618.8	11302.5	12.5	453.6		
SMDH 00241	132.7	15.7	53.7	9.9	1.6	5.8	1.3	3.3	0.6	1.3	0.3	1.0	0.3	27.5	0.9	14.3	452.3	8262.3	12.3	362.8		
SMDH 00240	190.5	21.9	70.0	12.3	1.3	8.4	1.6	4.6	0.7	1.8	0.3	2.0	0.3	38.5	1.8	12.9	430.8	7869.0	15.0	586.7		1.75
SMDH 00240	152.6	18.7	61.8	11.6	1.2	6.5	1.1	3.7	0.3	1.1	0.3	1.4	0.3	33.8	1.1	10.0	526.8	9623.1	12.7	320.0	2.13	
SMDH 00240	203.8	23.8	81.6	15.2	1.0	10.4	1.9	5.5	1.0	2.5	0.3	2.6	0.3	46.2	1.5	12.9	538.5	9835.5	10.5	383.0		
SMDH 00240	152.9	18.0	63.0	11.7	1.0	8.2	1.1	4.8	0.9	3.0	0.3	2.5	0.3	37.2	1.9	14.3	511.1	9336.0	10.7	358.6		1.55
SMDH 00240	224.2	25.4	78.1	15.7	1.9	11.8	1.6	6.9	1.5	5.3	0.6	4.2	0.6	50.9	1.5	12.9	631.0	11526.4	14.3	392.9		
SMDH 00240	223.3	27.9	94.5	18.4	1.6	12.4	1.4	7.5	1.6	5.7	0.7	4.9	0.7	53.7	1.9	12.9	609.4	11130.3	9.7	313.3	1.19	
SMDH 00240	219.3	27.5	93.3	18.2	1.7	11.9	1.4	6.7	1.4	5.0	0.6	4.3	0.6	54.2	1.9	17.2	717.3	13102.5	10.5	441.3		1.35
SMDH 00240	314.7	34.7	114.3	23.0	2.1	14.3	2.8	9.1	1.6	5.9	0.7	5.6	0.9	69.0	2.2	18.6	778.6	14222.2	15.8	480.7		
SMDH 00239	317.5	34.4	116.6	22.1	2.0	15.0	1.8	9.5	1.8	6.7	0.7	5.2	0.7	63.2	3.1	22.9	761.0	13900.6	53.4	2925.3		
SMDH 00239	144.6	16.1	53.7	9.7	1.2	7.4	0.9	5.7	1.0	3.5	0.3	2.6	0.3	31.0	2.1	15.7	504.8	9221.1	54.8	3234.0	2.02	1.55
SMDH 00239	220.3	21.4	72.3	15.0	1.2	10.3	1.4	7.3	1.5	4.5	0.6	3.6	0.6	47.5	2.5	24.3	668.8	12215.4	76.1	4202.1		
SMDH 00239	162.0	16.8	56.0	11.0	1.0	7.6	1.2	5.9	0.9	4.1	0.3	2.5	0.3	33.3	1.8	20.0	443.4	8098.6	70.0	4175.1		
SMDH 00239	199.4	22.8	75.8	14.7	1.9	9.5	1.3	6.3	1.1	4.0	0.3	3.3	0.7	30.3	3.3	42.9	430.5	7863.2	125.0	7169.6		1.62
SMDH 00239	154.4	18.8	61.8	13.5	1.3	8.4	1.3	7.2	1.1	4.1	0.3	3.3	0.3	33.5	2.6	21.5	412.6	7536.0	7.5	311.4	1.15	
SMDH 00239	222.3	23.2	75.8	12.9	1.6	8.9	1.2	6.5	1.1	4.1	0.3	3.0	0.3	28.3	1.7	24.3	397.2	7254.6	8.4	335.0		
SMDH 00239	209.1	22.5	80.5	13.5	1.9	8.8	1.2	5.3	0.9	3.4	0.3	2.4	0.6	33.5	1.4	30.0	626.5	11443.2	12.4	439.8		1.57
SMDH 00239	178.9	23.7	79.3	11.2	1.6	9.6	1.8	5.3	0.9	2.5	0.3	2.0	0.3	34.0	1.9	21.5	684.2	12496.8	17.0	503.3		
SMDH 00239	195.1	25.1	82.8	13.5	1.3	10.6	1.9	6.0	1.3	2.6	0.3	3.0	0.3	44.2	1.9	18.6	739.5	13507.3	14.6	495.2	1.34	

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00239	187.8	24.4	82.8	11.2	1.6	10.5	1.9	5.4	1.1	2.6	0.3	2.8	0.3	40.2	1.5	22.9	641.7	11721.7	9.4	329.6		1.58
SMDH 00239	201.5	26.9	89.8	14.6	1.0	11.4	2.2	6.7	1.4	3.3	0.6	3.2	0.3	49.7	2.8	22.9	721.0	13168.6	14.3	501.3		
SMDH 00239	209.7	26.9	94.5	15.0	1.4	12.8	2.4	7.1	1.5	3.4	0.6	3.8	0.3	47.1	2.6	21.5	689.7	12597.3	13.9	449.5		
SMDH 00239	184.6	24.0	78.1	13.3	1.3	10.4	1.6	5.5	1.1	2.9	0.3	3.1	0.3	42.2	2.0	17.2	650.9	11888.2	13.0	480.7	1.11	1.62
SMDH 00256	251.6	30.6	103.8	16.9	2.2	14.3	2.8	9.2	1.8	4.5	0.8	4.7	0.7	46.4	3.2	28.6	1071.3	19567.7	20.0	712.7		
SMDH 00256	249.6	32.9	110.8	17.4	1.6	10.4	2.5	7.8	1.4	3.3	0.6	3.0	0.3	54.2	3.5	22.9	541.5	9890.1	15.0	449.3		1.75
SMDH 00256	68.4	6.4	25.7	4.8	2.4	3.0	0.7	1.7	0.3	0.9	0.3	0.9	0.3	14.0	1.1	5.7	442.6	8084.3	6.3	205.1	1.87	
SMDH 00256	231.7	26.8	94.7	20.2	1.3	12.4	1.3	6.4	1.1	3.0	0.3	3.3	0.3	57.7	3.1	20.3	470.7	8598.2	10.6	599.3		
SMDH 00256	102.3	10.4	43.2	9.7	3.1	7.0	1.4	4.5	0.7	2.1	0.3	1.7	0.3	22.4	2.1	11.4	389.8	7119.7	9.1	256.7		1.53
SMDH 00256	111.5	10.3	43.2	10.2	2.7	6.8	1.4	4.0	0.7	2.2	0.3	1.5	0.3	21.3	1.9	10.0	802.2	14652.8	8.1	253.4		
SMDH 00256	87.1	10.3	43.2	10.1	2.5	6.2	1.5	3.9	0.7	2.4	0.3	2.0	0.3	19.2	1.7	8.6	492.9	9003.0	6.3	198.3	1.29	
SMDH 00256	141.0	16.2	71.2	15.7	2.2	8.5	1.6	6.3	1.1	4.1	0.6	4.0	0.3	30.5	2.4	11.4	787.1	14377.2	11.1	326.1		1.62
SMDH 00256	145.3	17.0	64.2	14.5	3.6	8.3	1.8	4.6	0.8	2.5	0.3	2.5	0.3	29.1	1.9	8.6	704.1	12861.4	10.3	344.0		
SMDH 00256	160.9	19.2	75.8	15.1	4.2	8.5	1.6	4.0	0.8	2.7	0.3	2.3	0.3	32.5	1.8	22.9	861.6	15738.0	12.4	452.5		
SMDH 00256	92.6	10.4	46.7	9.3	2.4	5.0	0.9	2.6	0.3	1.3	0.3	1.4	0.3	19.5	1.2	10.0	754.4	13780.0	8.8	299.9	1.22	1.62
SMDH 00256	124.6	14.9	58.3	12.3	3.2	6.6	1.1	2.4	0.3	0.8	0.3	0.9	0.3	27.2	0.9	11.4	628.7	11483.4	7.4	291.5		
SMDH 00256	154.5	11.8	44.3	12.2	2.5	6.2	1.3	2.5	0.7	1.4	0.3	1.4	0.3	32.3	1.4	8.6	653.8	11942.7	7.3	381.3		
SMDH 00257	294.6	34.2	114.8	20.8	1.5	12.7	1.5	7.7	1.4	3.1	0.6	3.3	0.6	57.6	4.1	17.3	451.2	8242.2	15.0	698.2		1.72
SMDH 00257	421.2	50.7	165.0	31.9	2.1	18.4	2.2	10.8	1.9	4.9	0.9	5.2	0.8	83.2	5.1	21.5	517.9	9459.4	18.4	520.9		
SMDH 00257	230.4	6.3	50.2	13.0	1.6	4.1	0.3	2.9	0.9	1.7	0.3	1.6	0.3	29.9	1.7	11.4	756.9	13826.0	6.4	327.7		
SMDH 00257	29.5	3.5	12.1	2.1	1.9	1.2	0.3	0.6	0.3	0.3	0.3	0.3	0.3	5.2	1.8	11.3	143.7	2624.0	2.7	169.3		
SMDH 00257	139.4	18.6	39.7	10.0	1.0	3.6	0.9	2.1	0.6	1.3	0.3	1.3	0.3	25.5	2.2	5.7	420.0	7670.9	6.1	311.4		
SMDH 00257	86.8	6.9	33.8	5.9	0.6	3.1	0.3	1.1	0.3	0.3	0.3	0.3	0.3	21.3	0.8	8.6	470.3	8589.6	6.5	183.4	1.46	
SMDH 00257	202.6	17.3	80.5	14.5	0.8	8.8	0.7	3.2	0.6	1.9	0.3	1.7	0.3	55.4	2.0	12.9	927.9	16949.5	14.5	415.2		1.68
SMDH 00257	124.6	8.2	50.2	8.5	1.0	5.4	0.9	3.0	0.6	1.5	0.3	2.0	0.3	24.4	0.9	10.0	512.7	9364.7	13.6	457.1		
SMDH 00257	206.1	17.6	86.3	15.1	0.9	9.6	0.9	4.5	1.0	3.7	0.7	3.5	0.3	55.6	2.5	30.0	812.3	14836.5	14.9	450.6		
SMDH 00257	230.6	19.7	93.3	17.0	0.9	12.1	1.2	5.3	1.0	3.7	0.6	3.3	0.3	66.9	2.9	22.9	1154.3	21083.5	13.8	570.6	1.13	1.63
SMDH 00257	175.2	14.4	71.2	11.9	0.9	7.4	0.6	2.8	0.6	1.8	0.3	1.4	0.3	46.8	2.0	18.6	877.7	16030.8	15.4	464.7		
SMDH 00257	235.5	28.0	98.0	17.2	1.6	11.4	2.0	5.3	0.9	1.8	0.3	1.8	0.3	50.6	2.2	18.6	759.6	13874.8	14.4	506.1		
SMDH 00258	481.7	56.9	198.3	33.9	1.2	23.2	4.2	11.5	1.7	3.5	0.6	3.5	0.6	103.8	5.4	10.0	514.0	9387.7	42.7	1483.3		1.68
SMDH 00258	148.3	18.2	63.0	12.6	1.2	7.7	1.5	4.5	0.7	1.6	0.3	1.4	0.3	31.6	1.9	12.9	455.0	8311.1	8.8	291.4	2.24	
SMDH 00258	166.0	20.4	71.5	14.0	1.5	8.8	1.7	5.0	0.8	2.0	0.3	1.6	0.3	35.9	1.9	32.3	664.4	12135.1	9.3	310.1		
SMDH 00258	169.3	18.8	73.5	13.7	1.2	9.0	2.1	8.6	1.8	6.6	0.8	5.4	0.9	37.9	2.1	22.9	647.2	11822.1	19.9	329.7		1.4
SMDH 00258	136.2	14.6	58.3	10.3	1.2	6.0	0.8	4.4	0.8	3.2	0.3	2.4	0.3	30.0	1.4	12.9	495.3	9046.0	10.1	315.1		
SMDH 00258	172.6	18.5	68.8	11.5	1.3	7.5	0.8	5.2	0.9	4.3	0.6	3.5	0.3	26.7	1.4	15.7	645.8	11796.3	9.2	351.9	1.58	
SMDH 00258	201.0	21.1	80.5	13.2	1.3	8.2	0.9	6.0	1.1	4.7	0.7	4.4	0.8	43.7	1.4	18.6	707.3	12918.8	11.1	392.0		1.42
SMDH 00258	195.3	20.5	75.8	13.5	1.9	8.2	0.9	5.4	0.9	3.5	0.3	3.5	0.3	40.4	1.5	12.9	647.9	11833.6	10.6	408.9		
SMDH 00258	136.0	14.3	56.0	8.3	1.3	4.7	0.6	2.4	0.3	1.4	0.3	0.8	0.3	28.4	1.3	17.2	818.2	14945.6	16.3	600.0		
SMDH 00258	73.6	7.9	29.2	5.8	1.6	3.2	0.3	1.4	0.3	0.9	0.3	1.4	0.3	13.9	1.4	25.7	857.8	15669.1	20.8	673.2	1.27	1.43
SMDH 00258	167.1	18.7	71.2	12.3	1.5	7.1	0.9	4.0	0.8	2.6	0.3	1.9	0.3	35.0	1.8	15.7	570.5	10421.2	13.3	379.6		
SMDH 00258	211.0	23.0	88.6	15.0	1.3	10.4	1.4	7.2	1.4	3.5	0.6	3.9	0.6	44.6	2.6	18.6	556.5	10165.7	21.0	491.4		
SMDH 00259	276.1	30.8	106.1	30.6	1.2	19.2	2.9	6.9	1.1	4.2	0.7	3.8	0.3	96.5	4.5	12.9	386.2	7053.7	38.6	1421.9		1.62
SMDH 00259	146.2	15.6	56.0	16.2	1.4	10.7	1.6	3.7	0.7	2.4	0.3	2.5	0.3	48.1	2.2	25.7	814.0	14868.1	22.8	688.5	2.29	
SMDH 00259	71.5	8.5	29.2	9.4	1.6	6.2	0.8	1.8	0.3	1.4	0.3	1.0	0.3	24.8	0.8	17.2	637.6	11647.0	8.0	234.2		
SMDH 00259	88.2	10.0	36.2	9.9	1.4	7.3	0.9	2.2	0.3	1.6	0.3	1.0	0.3	30.2	0.9	21.5	540.7	9875.7	10.6	274.1		
SMDH 00259	115.6	13.0	44.3	14.3	1.2	9.6	1.3	3.0	0.7	2.9	0.3	2.6	0.3	39.7	1.3	20.0	653.5	11937.0	9.0	370.4	1.21	
SMDH 00259	103.7	11.7	43.2	13.2	1.3	8.9	1.2	2.8	0.6	1.9	0.3	1.9	0.3	35.8	1.4	21.5	643.6	11756.1	13.1	362.6		1.4
SMDH 00259	192.6	18.0	94.5	16.7	1.3	10.5	1.8	1.4	0.8	1.3	0.3	1.8	0.3	48.0	1.4	34.3	641.6	11718.8	15.2	432.9		
SMDH 00259	325.3	35.5	130.6	23.7	2.2	12.2	2.4	7.5	1.3	2.6	0.3	3.2	0.3	59.6	1.4	73.0	714.8	13056.6	31.1	580.0		
SMDH 00259	118.7	12.8	43.2	6.8	0.8	3.9	0.7	1.6	0.3	0.3	0.3	0.2	0.3	20.9	0.7	10.0	602.0	10995.3	14.7	199.2	0.95	1.37
SMDH 00260	233.2	25.5	94.2	15.5	1.6	9.5	1.2	5.9	1.0	2.5	0.3	1.4	0.3	46.7	4.0	19.2	325.3	5942.6	8.6	232.9		
SMDH 00260	198.5	22.1	79.3	16.1	1.3	10.1	1.9	5.5	0.9	2.4	0.3	2.3	0.3	41.1	1.5	28.6	647.7	11830.7	20.8	378.0		
SMDH 00260	156.4	17.6	61.8	10.7	1.3	7.1	1.4	4.2	0.8	1.7	0.3	1.7	0.3	30.2	1.3	17.2	594.1	10851.8	14.9	267.1		1.35
SMDH 00260	188.2	21.1	73.5	12.5	1.3	8.5	1.3	4.5	0.8	1.8	0.3	1.7	0.3	36.0	1.7	17.2	570.2	10415.4	13.7	294.1	1.01	
SMDH 00260	142.6	15.7	53.7	8.6	1.3	5.8	1.2	3.6	0.6	1.4	0.3	1.1	0.3	25.8	1.2	12.9	425.2	7765.6	11.3	291.6		
SMDH 00260	198.1	22.8	79.3	12.6	1.6	7.3	1.3	3.1	0.3	0.8	0.3	0.3	0.3	37.0	1.4	20.0	691.4	12628.8	23.1	453.5		1.31
SMDH 00260	145.4	15.3	49.0	8.2	1.0	5.9	0.8	1.6	0.3	0.3	0.3	0.3	0.3	29.9	1.2	8.6	514.0	9387.7	29.5	285.4		
SMDH 00260	111.3	12.2	43.2	7.1	1.4	4.7	0.7	1.7	0.3	0.6	0.3	0.3	0.3	19.8	0.9	12.9	427.2	7802.9	17.8	381.9	0.92	
SMDH 00261	277.2	29.6	102.6	17.0	0.8	11.2	2.1	6.0	0.9	2.2	0.3	1.8	0.3	51.2	2.9	14.3	313.9	5733.1	32.7	569.5		1.6
SMDH 00261	235.5	13.9	101.5	7.0	1.0	5.6	0.7	2.5	0.7	1.7	0.3	1.7	0.3	17.6	0.9	15.7	400.5	7314.9	13.7	305.8		
SMDH 00261	296.9	16.2	119.0	9.3	0.8	6.8	1.1	2.9	0.8	2.2	0.3	1.6	0.3	23.0	1.4	15.7	439.3	8024.0	10.1	248.1		
SMDH 00261	322.7	18.5	128.3	10.1	0.9	7.6	1.1	2.9	0.7	1.3	0.3	1.0	0.3	25.9	1.4	14.3	455.6	8322.6	13.2	243.8	1.29	1.42
SMDH 00261	363.2	19.9	145.8	10.6	1.6	8.6	1.1	2.8	0.7	1.4	0.3	0.8	0.3	28.0	1.7	25.7	533.3	9740.8	12.1	269.5		
SMDH 00261	295.7	16.9	119.0	8.3	1.0	6.9	0.8	2.5	0.7	1.6	0.3	1.4	0.3	24.0	1.1	17.2	576.2	10524.5	15.9	263.9		
SMDH 00261	323.3	18.4	45.5	9.2	1.2	4.7	1.1	3.1	0.7	1.6	0.3	1.0	0.3	25.9	1.2	12.9	425.2	7765.6	16.2	284.9		1.55
SMDH 00261	374.2	21.0	150.5	12.1	0.8	8.6	1.1	3.0	0.7	1.5	0.3	0.9	0.3	32.7	1.9	28.6	396.4	7240.3	20.6	286.4	0.95	
SMDH 00262	324.2	17.5	123.6	8.8	0.9	8.3	1.3	4.0	1.1	2.9	0.3	2.8	0.3	25.6	2.0	18.6	472.0	8621.1	20.4	341.9		
SMDH 00262	217.4	12.1	89.8	6.7	0.8	6.5	0.8	3.8	1.1	3.2	0.3	2.6	0.3	18.0	1.5	12.9	341.2	6232.6	7.5	199.0		1.61
SMDH 00262	232.3	26.2	92.1	15.8	2.1	11.3	2.7	10.1	2.2	5.4	0.8	5.8	0.7	42.4	3.1	32.9	724.3	13228.8	22.9	431.0		
SMDH 00262	201.9	22.4	81.6	13.7	1.5	9.6	2.1	7.8	1.5	3.8	0.6	4.6	0.6	38.0	2.4	25.7	565.2	10323.5	20.3	328.0	1	
SMDH 00262	212.4	24.3	84.0	14.4	1.9	10.8	2.2	9.4	1.8	5.3	0.8	5.6	0.7	38.1	2.5	34.3	664.1	12129.3	21.6	378.8		1.61

BHID	CeO_2	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Eu_2O_3	Gd_2O_3	Tb_4O_7	Dy_2O_3	Ho_2O_3	Er_2O_3	Tm_2O_3	Yb_2O_3	Lu_2O_3	ThO_2	U_3O_8	Nb_2O_5	TiO_2	$FeTiO_3$	HfO_2	ZrO_2	Moist	BD
units:	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*%*	
SMDH 00262	186.2	21.5	77.0	13.5	1.4	9.1	2.1	7.5	1.4	3.8	0.7	3.5	0.6	35.0	2.2	22.9	535.0	9772.3	24.2	334.1		
SMDH 00262	195.6	24.0	80.5	14.7	1.5	9.7	1.6	6.9	1.3	4.2	0.6	3.3	0.6	38.3	2.2	21.5	580.4	10602.0	14.6	562.9		
SMDH 00262	199.0	23.8	81.6	16.1	1.6	10.1	1.2	6.4	1.0	3.8	0.3	2.8	0.3	39.1	2.4	18.6	554.8	10134.1	12.6	441.2	1.01	1.58
SMDH 00262	171.6	20.5	72.3	13.1	1.7	8.8	0.9	5.5	0.9	3.1	0.3	1.8	0.3	34.3	2.0	15.7	512.7	9364.7	8.4	319.3		
SMDH 00262	206.6	24.0	81.6	13.9	1.6	10.1	1.3	6.9	1.1	4.1	0.6	3.3	0.3	41.0	2.4	17.2	580.4	10602.0	12.0	409.3		
SMDH 00262	165.5	20.1	67.7	10.4	1.7	8.4	1.1	5.6	1.0	3.5	0.3	2.8	0.3	32.1	1.8	18.6	463.3	8463.2	8.0	278.8		1.56
SMDH 00262	190.3	23.3	79.3	14.4	1.7	9.7	1.2	6.5	1.3	3.7	0.3	2.6	0.3	37.6	2.1	18.6	573.2	10470.0	12.0	380.1	0.72	
SMDH 00263	251.3	29.7	101.5	18.9	1.6	12.8	1.5	7.6	1.3	3.8	0.3	3.0	0.3	48.5	3.1	18.6	545.7	9967.6	20.8	658.2		
SMDH 00263	168.8	19.9	66.5	12.8	1.5	7.8	1.1	5.7	1.1	3.4	0.3	2.7	0.3	33.9	1.9	18.6	569.4	10401.1	8.3	331.9		1.54
SMDH 00263	225.3	28.6	92.1	17.5	1.5	11.2	1.3	5.6	0.8	2.2	0.3	1.1	0.3	48.1	2.4	27.2	600.6	10969.5	11.9	655.9		
SMDH 00263	217.3	24.8	86.3	14.8	1.6	10.1	1.9	5.4	0.9	1.7	0.3	1.1	0.3	43.1	2.0	28.6	752.7	13748.5	10.8	568.6	1.36	
SMDH 00263	207.1	24.0	85.1	15.4	1.4	10.1	2.0	5.3	0.8	1.5	0.3	1.3	0.3	43.8	2.2	22.9	630.1	11509.2	11.2	471.0		1.58
SMDH 00263	226.4	26.6	94.5	16.5	1.7	10.7	2.0	5.7	1.0	1.8	0.3	1.8	0.3	47.8	2.2	28.6	713.2	13027.9	13.3	589.4		
SMDH 00263	189.1	21.3	74.6	14.4	1.7	9.9	2.0	6.3	1.4	3.0	0.6	3.4	0.3	38.5	2.2	24.3	599.5	10949.4	9.0	527.4	1.06	1.45
SMDH 00263	173.7	19.2	67.7	12.8	1.5	9.1	1.9	6.1	1.3	2.7	0.3	3.4	0.3	36.6	2.2	24.3	551.4	10070.9	10.7	427.4		
SMDH 00263	180.1	20.3	73.5	12.1	1.4	10.3	2.0	6.4	1.3	2.7	0.3	3.2	0.3	39.5	2.6	28.6	582.0	10630.7	8.1	414.8		
SMDH 00263	165.0	18.8	65.3	11.8	1.4	9.8	1.9	6.3	1.3	2.7	0.3	3.3	0.3	37.4	2.6	30.0	568.0	10375.2	0.5	432.9		1.38
SMDH 00263	179.1	18.2	72.3	12.2	1.4	8.6	1.8	7.3	1.3	3.3	0.6	4.3	0.6	33.6	2.7	30.0	529.5	9671.9	8.3	515.3	0.84	
SMDH 00264	337.1	34.7	115.5	22.5	1.7	15.2	2.0	9.4	1.6	5.6	0.6	3.8	0.7	64.6	4.1	28.6	1138.9	20802.1	15.7	750.5		
SMDH 00264	186.2	21.5	72.3	12.9	2.0	9.2	1.2	6.9	1.1	4.0	0.3	3.0	0.3	39.7	2.6	30.0	843.5	15407.8	10.7	492.8		1.47
SMDH 00264	190.4	23.0	80.5	15.4	2.1	10.6	1.3	7.6	1.4	4.3	0.6	3.4	0.3	45.5	3.1	31.5	659.3	12043.2	8.8	403.6		
SMDH 00264	203.8	24.0	84.0	16.4	1.7	11.5	1.6	9.2	1.8	6.9	0.7	5.1	0.7	48.2	3.7	27.2	610.1	11144.6	8.6	406.9	0.93	
SMDH 00264	194.7	22.7	77.0	13.5	1.7	11.4	1.8	9.3	1.9	6.7	0.8	5.2	0.7	45.7	3.7	28.6	652.9	11925.5	7.4	452.1		1.42
SMDH 00264	192.5	23.3	78.1	15.1	1.6	10.8	1.4	7.9	1.5	5.1	0.6	3.6	0.6	46.5	3.1	31.5	680.7	12433.6	9.7	463.5		
SMDH 00264	197.9	23.8	75.8	14.7	1.5	10.5	1.4	7.9	1.5	4.6	0.3	3.5	0.6	45.5	3.3	32.9	552.3	10088.1	7.3	455.5		
SMDH 00264	207.0	21.5	71.2	13.5	1.9	10.3	1.9	5.4	1.0	3.8	0.3	3.2	0.3	42.0	2.7	34.3	640.2	11692.9	31.6	443.9	1.02	1.45
SMDH 00264	170.1	19.9	65.3	13.9	1.4	9.1	0.9	4.6	0.8	3.3	0.3	2.6	0.3	40.5	2.1	54.4	498.9	9112.1	9.0	419.8		
SMDH 00264	153.9	17.6	61.8	11.0	1.4	7.6	1.4	3.7	0.8	1.7	0.3	2.0	0.3	34.5	1.7	21.5	464.8	8489.1	9.1	493.4		
SMDH 00264	127.8	14.7	50.2	9.2	1.2	6.5	1.2	3.4	0.7	2.1	0.3	2.0	0.3	28.8	1.4	17.2	415.4	7587.6	9.1	383.8		1.35
SMDH 00264	148.0	17.4	56.7	11.4	1.7	6.7	0.8	3.8	0.7	1.5	0.3	0.8	0.3	31.4	3.9	20.0	229.3	4188.6	8.8	115.0		
SMDH 00265	152.9	17.9	60.7	10.2	0.5	7.6	1.5	4.1	0.8	1.8	0.3	1.5	0.3	34.3	2.4	10.0	333.0	6083.3	13.0	557.5		
SMDH 00265	120.5	14.1	46.7	8.1	1.3	6.0	1.3	3.4	0.6	1.5	0.3	1.3	0.3	22.3	1.8	18.6	551.0	10065.2	8.6	355.0		1.6
SMDH 00265	183.6	20.3	71.2	13.1	1.4	9.2	1.9	6.2	1.3	3.5	0.6	3.4	0.3	33.9	2.2	22.9	596.3	10892.0	8.3	422.5		
SMDH 00265	229.0	23.4	92.1	15.5	1.4	11.4	2.4	7.8	1.4	3.4	0.6	3.3	0.6	45.2	3.7	27.2	575.7	10515.9	12.4	683.2	1.26	
SMDH 00265	157.2	17.9	61.8	11.7	1.3	8.0	1.6	6.2	1.1	2.9	0.3	2.6	0.3	30.2	2.7	22.9	532.5	9726.4	7.8	391.9		1.65
SMDH 00265	246.0	28.5	102.6	16.9	2.1	13.7	2.7	9.3	2.1	5.1	0.9	4.8	0.7	46.9	2.9	37.2	762.8	13932.2	9.3	555.0		
SMDH 00265	267.4	30.3	103.8	17.0	1.9	14.2	2.9	10.3	2.2	5.7	0.9	5.7	0.7	51.1	3.3	30.0	732.0	13369.5	14.2	581.8		
SMDH 00265	183.3	18.1	74.6	12.4	2.1	8.9	1.8	6.4	1.5	3.2	0.3	3.3	0.3	34.5	2.2	24.3	623.2	11382.9	9.8	407.8	0.91	1.73
SMDH 00265	198.1	20.2	82.8	13.6	1.6	8.6	2.1	8.7	1.8	4.1	0.7	4.4	0.7	36.1	2.6	31.5	1009.4	18436.6	10.6	517.2		
SMDH 00265	246.7	25.1	103.8	17.0	1.9	12.3	2.6	11.4	2.5	5.7	1.0	7.2	0.8	46.1	2.9	31.5	921.5	16831.7	13.1	585.6		
SMDH 00265	216.7	22.1	88.6	16.1	1.3	10.6	2.0	9.0	2.1	4.7	0.8	5.6	0.8	41.8	2.8	28.6	739.7	13510.2	11.7	544.5		1.43
SMDH 00265	266.1	30.3	93.3	16.6	2.2	10.8	1.9	7.9	1.3	4.2	0.3	3.6	0.3	50.5	4.1	25.7	845.0	15433.6	20.6	699.3	0.8	